

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)
)
RCRA DELISTING ADJUSTED) **AS 25 - 001**
STANDARD PETITION OF) **(Adjusted Standard – Land)**
EXXONMOBIL OIL CORPORATION) **(RCRA Delisting)**

NOTICE OF FILING

To: Illinois Pollution Control Board Don Brown, Clerk 100 West Randolph St. Suite 11-500 Chicago, IL 60601	Illinois Environmental Protection Agency Division of Legal Counsel 1021 North Grand Avenue East P.O. Box 19267 Springfield, IL 62795-9276
U.S. Environmental Protection Agency Region 5 77 West Jackson Boulevard Chicago, IL 60604	U.S. Environmental Protection Agency Office of Land and Emergency Management 1200 Pennsylvania Avenue, NW Washington, D.C. 20460

Please take notice that on April 28, 2025, the Petitioner filed electronically with the Office of the Clerk of the Illinois Pollution Control Board, the attached **Appendix F (Analytical Results)**, which is an appendix to the *Technical Support Document F037, F038, K048 & K051 Delisting Petition* attached as Exhibit A to Petitioner's RCRA Delisting Adjusted Standard Petition, and Certificate of Service, copies of which are served upon you.

Dated: April 28, 2025

Respectfully submitted,

/s/ Eric E. Boyd

Eric E. Boyd, #6194309

Edward A. Cohen, #6194012

Timothy B. Briscoe, #6331827

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Firm I.D. No. 48614

OF COUNSEL:
THOMPSON COBURN LLP

*Attorneys for Petitioner
ExxonMobil Oil Corporation*

CERTIFICATE OF SERVICE

I, the undersigned attorney, certify that I have filed the documents described above electronically with the Illinois Pollution Control Board and served the Illinois Environmental Protection Agency, the U.S. Environmental Protection Agency, Region 5, and the U.S. Environmental Protection Agency, Office of Land and Emergency Management, with the same documents by First Class Mail, postage prepaid, on April 28, 2025.

Dated: April 28, 2025

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OF COUNSEL:
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December 15, 2023

Cecilia Anderson
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS23101863**

Laboratory Results for: **Preliminary Joliet Delisting**

Dear Cecilia Anderson,

ALS Environmental received 3 sample(s) on Oct 27, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,



Generated By: JUMOKE.LAWAL

Bernadette A. Fini
Project Manager

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23101863

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23101863-01	PTS-04-SL-20231026	Soil		26-Oct-2023 09:26	27-Oct-2023 09:05	<input type="checkbox"/>
HS23101863-02	DUP-04-SL-20231026	Soil		26-Oct-2023 09:31	27-Oct-2023 09:05	<input type="checkbox"/>
HS23101863-03	TB-04-SL-20231026	Water	CG-100323 -110	26-Oct-2023 00:00	27-Oct-2023 09:05	<input type="checkbox"/>

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23101863

CASE NARRATIVE

Work Order Comments

- The analyses of SW8151 Herbicides was subcontracted to Eurofins Lancaster, PA. Final report attached.
- The analysis for Dioxins/Furans was subcontracted to our ALS Houston TX, High Resolution Lab. Final report attached
- The analysis for PCBs was subcontracted to ALS Environmental in Holland, MI. Final report attached.

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
- The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

ECD Organics by Method SW8151A

Batch ID: 202991

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ECD Organics by Method SW8081

Batch ID: 202691

Sample ID: MBLK-202691

- Chlordane & Toxaphene LCS/LCSD provided as batch quality control.

Sample ID: CCV

- Primary column Closing CCVs bracketing HS23101863-01 & -02 failed above control limits . Samples were non-detect.

Batch ID: 202992

Sample ID: LCS-202992

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS.

Sample ID: PTS-04-SL-20231026 (HS23101863-01)

- CCV %D was above the control limits. The associated sample results are non detect. DDD and Methoxychlor-closing ccv behind two samples.

GCMS Semivolatiles by Method SW8270

Batch ID: 202714

Sample ID: DUP-04-SL-20231026 (HS23101863-02)

- Surrogate recoveries were outside of the control limits due to matrix interference.
- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Sample ID: LCSD-202714

- The RPD between the LCS and LCSD was outside of the control limit. The individual recoveries were in control.

Sample ID: PTS-04-SL-20231026 (HS23101863-01)

- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23101863

CASE NARRATIVE

GCMS Semivolatiles by Method SW8270

Batch ID: 202996

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R450780

Sample ID: DUP-04-SL-20231026 (HS23101863-02)

- Surrogate failure for HS23101863-02 due to matrix interference.

Sample ID: VLCSS1-110223

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Batch ID: 202923

Sample ID: HS23110034-07MS

- MS is for an unrelated sample

Batch ID: R450583,R450656

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 203262

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7040

Batch ID: 203289,203290

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW1311/6020

Batch ID: 203240

Sample ID: HS23110259-01MS

- MS and MSD are for an unrelated sample

Batch ID: 203241,203255

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7471B

Batch ID: 203230

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23101863

CASE NARRATIVE

Metals by Method SW6020A

Batch ID: 203094

Sample ID: HS23110194-12MS

- MS and MSD are for an unrelated sample

Sample ID: HS23110194-12ODS

- PDS is for an unrelated sample

WetChemistry by Method SW9045D

Batch ID: R451406

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2

Batch ID: R451410

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D2216

Batch ID: R451496

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.4.2

Batch ID: R451409

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9014

Batch ID: 203308

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D92-12b

Batch ID: R450640

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9056

Batch ID: 203055

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500 S2-F

Batch ID: 202917

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
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ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-04-SL-20231026
 Collection Date: 26-Oct-2023 09:26

ANALYTICAL REPORT
 WorkOrder:HS23101863
 Lab ID:HS23101863-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method:SW8260		Leache:SW1311 / 02-Nov-2023	Prep:SW1311 / 02-Nov-2023		Analyst: FT
1,1-Dichloroethene	U		0.010	0.10	mg/L	20	03-Nov-2023 15:22
1,2-Dichloroethane	U		0.010	0.10	mg/L	20	03-Nov-2023 15:22
1,4-Dichlorobenzene	U		0.012	0.10	mg/L	20	03-Nov-2023 15:22
2-Butanone	U		0.020	0.20	mg/L	20	03-Nov-2023 15:22
Acetone	U		0.040	0.20	mg/L	20	03-Nov-2023 15:22
Benzene	U		0.012	0.10	mg/L	20	03-Nov-2023 15:22
Carbon tetrachloride	U		0.012	0.10	mg/L	20	03-Nov-2023 15:22
Chlorobenzene	U		0.0080	0.10	mg/L	20	03-Nov-2023 15:22
Chloroform	U		0.012	0.10	mg/L	20	03-Nov-2023 15:22
Ethyl methacrylate	U		0.020	0.10	mg/L	20	03-Nov-2023 15:22
Ethylbenzene	U		0.010	0.10	mg/L	20	03-Nov-2023 15:22
Tetrachloroethene	U		0.012	0.10	mg/L	20	03-Nov-2023 15:22
Toluene	U		0.010	0.10	mg/L	20	03-Nov-2023 15:22
Trichloroethene	U		0.010	0.10	mg/L	20	03-Nov-2023 15:22
Vinyl chloride	U		0.0080	0.040	mg/L	20	03-Nov-2023 15:22
Xylenes, Total	U		0.010	0.10	mg/L	20	03-Nov-2023 15:22
<i>Surr: 1,2-Dichloroethane-d4</i>		110		70-126	%REC	20	03-Nov-2023 15:22
<i>Surr: 4-Bromofluorobenzene</i>		107		82-124	%REC	20	03-Nov-2023 15:22
<i>Surr: Dibromofluoromethane</i>		114		77-123	%REC	20	03-Nov-2023 15:22
<i>Surr: Toluene-d8</i>		100		82-127	%REC	20	03-Nov-2023 15:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-04-SL-20231026
 Collection Date: 26-Oct-2023 09:26

ANALYTICAL REPORT
 WorkOrder:HS23101863
 Lab ID:HS23101863-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
VOLATILES BY SW8260C		Method:SW8260			Analyst: WLR			
1,1-Dichloroethene	U		0.0012	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
1,2-Dichloroethane	U		0.0014	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
1,4-Dichlorobenzene	U		0.0023	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
2-Butanone	U		0.0030	0.023	mg/Kg-dry	1	01-Nov-2023 18:16	
Acetone	U		0.0046	0.046	mg/Kg-dry	1	01-Nov-2023 18:16	
Benzene	U		0.0012	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Carbon tetrachloride	U		0.0014	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Chlorobenzene	U		0.0014	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Chloroform	U		0.0012	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Ethyl methacrylate	U		0.0023	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Ethylbenzene	U		0.0016	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Tetrachloroethene	U		0.0016	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Toluene	U		0.0014	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Trichloroethene	U		0.0014	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Vinyl chloride	U		0.0019	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
Xylenes, Total		0.40	0.0023	0.012	mg/Kg-dry	1	01-Nov-2023 18:16	
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>121</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>01-Nov-2023 18:16</i>	
<i>Surr: 4-Bromofluorobenzene</i>		<i>106</i>		<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>01-Nov-2023 18:16</i>	
<i>Surr: Dibromofluoromethane</i>		<i>108</i>		<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>01-Nov-2023 18:16</i>	
<i>Surr: Toluene-d8</i>		<i>122</i>		<i>70-130</i>	<i>%REC</i>	<i>1</i>	<i>01-Nov-2023 18:16</i>	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-04-SL-20231026
 Collection Date: 26-Oct-2023 09:26

ANALYTICAL REPORT
 WorkOrder: HS23101863
 Lab ID: HS23101863-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES			Method: SW8270	Leache: SW1311 / 02-Nov-2023	Prep: SW3510 / 03-Nov-2023		Analyst: GEY
2,4,5-Trichlorophenol	U		0.00050	0.0050	mg/L	1	06-Nov-2023 21:30
2,4,6-Trichlorophenol	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
2,4-Dinitrotoluene	U		0.00030	0.0050	mg/L	1	06-Nov-2023 21:30
2-Methylnaphthalene	U		0.00050	0.0050	mg/L	1	06-Nov-2023 21:30
2-Methylphenol	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
3&4-Methylphenol	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
Acenaphthene	U		0.00030	0.0050	mg/L	1	06-Nov-2023 21:30
Anthracene	U		0.00030	0.0050	mg/L	1	06-Nov-2023 21:30
Benz(a)anthracene	U		0.00030	0.0050	mg/L	1	06-Nov-2023 21:30
Benzo(a)pyrene	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
Benzo(b)fluoranthene	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
Benzo(g,h,i)perylene	U		0.00030	0.0050	mg/L	1	06-Nov-2023 21:30
Benzo(k)fluoranthene	U		0.00070	0.0050	mg/L	1	06-Nov-2023 21:30
Bis(2-ethylhexyl)phthalate	U		0.00080	0.0050	mg/L	1	06-Nov-2023 21:30
Chrysene	U		0.00080	0.0050	mg/L	1	06-Nov-2023 21:30
Cresols, Total	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
Di-n-butyl phthalate	U		0.00080	0.0050	mg/L	1	06-Nov-2023 21:30
Fluorene	0.00067	J	0.00050	0.0050	mg/L	1	06-Nov-2023 21:30
Hexachlorobenzene	U		0.00030	0.0050	mg/L	1	06-Nov-2023 21:30
Hexachlorobutadiene	U		0.00050	0.0050	mg/L	1	06-Nov-2023 21:30
Hexachloroethane	U		0.00080	0.0050	mg/L	1	06-Nov-2023 21:30
Naphthalene	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
Nitrobenzene	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
Pentachlorophenol	U		0.00080	0.0050	mg/L	1	06-Nov-2023 21:30
Phenanthrene	0.0010	J	0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
Phenol	U		0.00040	0.0050	mg/L	1	06-Nov-2023 21:30
Pyrene	U		0.00030	0.0050	mg/L	1	06-Nov-2023 21:30
Pyridine	U		0.00030	0.0050	mg/L	1	06-Nov-2023 21:30
<i>Surr: 2,4,6-Tribromophenol</i>	<i>62.7</i>			<i>39-153</i>	<i>%REC</i>	<i>1</i>	<i>06-Nov-2023 21:30</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.9</i>			<i>40-147</i>	<i>%REC</i>	<i>1</i>	<i>06-Nov-2023 21:30</i>
<i>Surr: 2-Fluorophenol</i>	<i>48.5</i>			<i>21-110</i>	<i>%REC</i>	<i>1</i>	<i>06-Nov-2023 21:30</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>69.6</i>			<i>39-141</i>	<i>%REC</i>	<i>1</i>	<i>06-Nov-2023 21:30</i>
<i>Surr: Nitrobenzene-d5</i>	<i>67.3</i>			<i>37-140</i>	<i>%REC</i>	<i>1</i>	<i>06-Nov-2023 21:30</i>
<i>Surr: Phenol-d6</i>	<i>72.2</i>			<i>11-110</i>	<i>%REC</i>	<i>1</i>	<i>06-Nov-2023 21:30</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-04-SL-20231026
 Collection Date: 26-Oct-2023 09:26

ANALYTICAL REPORT

WorkOrder: HS23101863
 Lab ID: HS23101863-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 30-Oct-2023		Analyst: GEY
2,4,5-Trichlorophenol		U	0.38	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
2,4,6-Trichlorophenol		U	0.20	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
2,4-Dinitrotoluene		U	0.23	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
2-Methylnaphthalene	7.2		0.49	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
2-Methylphenol		U	0.23	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
3&4-Methylphenol	1.3	J	0.23	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Acenaphthene		U	0.27	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Anthracene		U	0.22	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Benz(a)anthracene		U	0.18	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Benzo(a)pyrene		U	0.22	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Benzo(b)fluoranthene		U	0.22	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Benzo(g,h,i)perylene		U	0.20	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Benzo(k)fluoranthene		U	0.27	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Bis(2-ethylhexyl)phthalate		U	0.23	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Chrysene		U	0.31	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Cresols, Total	1.3	J	0.23	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Di-n-butyl phthalate		U	0.22	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Fluorene		U	0.31	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Hexachlorobenzene		U	0.27	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Hexachlorobutadiene		U	0.25	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Hexachloroethane		U	0.20	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Naphthalene	0.85	J	0.23	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Nitrobenzene		U	0.25	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Pentachlorophenol		U	0.20	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Phenanthrene		U	0.25	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Phenol	0.88	J	0.20	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Pyrene		U	0.77	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
Pyridine		U	0.23	3.0	mg/Kg-dry	10	10-Nov-2023 22:17
<i>Surr: 2,4,6-Tribromophenol</i>	<i>46.1</i>	<i>J</i>		<i>36-126</i>	<i>%REC</i>	<i>10</i>	<i>10-Nov-2023 22:17</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>78.4</i>			<i>43-125</i>	<i>%REC</i>	<i>10</i>	<i>10-Nov-2023 22:17</i>
<i>Surr: 2-Fluorophenol</i>	<i>40.6</i>	<i>J</i>		<i>37-125</i>	<i>%REC</i>	<i>10</i>	<i>10-Nov-2023 22:17</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>64.7</i>			<i>32-125</i>	<i>%REC</i>	<i>10</i>	<i>10-Nov-2023 22:17</i>
<i>Surr: Nitrobenzene-d5</i>	<i>60.5</i>			<i>37-125</i>	<i>%REC</i>	<i>10</i>	<i>10-Nov-2023 22:17</i>
<i>Surr: Phenol-d6</i>	<i>41.6</i>	<i>J</i>		<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>10-Nov-2023 22:17</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-04-SL-20231026
 Collection Date: 26-Oct-2023 09:26

ANALYTICAL REPORT
 WorkOrder: HS23101863
 Lab ID: HS23101863-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081		Leache: SW1311 / 02-Nov-2023	Prep: SW3510C / 03-Nov-2023		Analyst: DLB
4,4'-DDD	U		0.000020	0.00010	mg/L	1	08-Nov-2023 00:49
alpha-BHC	U		0.000010	0.000050	mg/L	1	08-Nov-2023 00:49
Chlordane	U		0.00010	0.00050	mg/L	1	08-Nov-2023 00:49
Endrin	U		0.000030	0.00010	mg/L	1	08-Nov-2023 00:49
gamma-BHC	U		0.000010	0.000050	mg/L	1	08-Nov-2023 00:49
Heptachlor	U		0.000010	0.000050	mg/L	1	08-Nov-2023 00:49
Heptachlor epoxide	U		0.000010	0.000050	mg/L	1	08-Nov-2023 00:49
Methoxychlor	U		0.00015	0.00050	mg/L	1	08-Nov-2023 00:49
Toxaphene	U		0.00019	0.00050	mg/L	1	08-Nov-2023 00:49
Surr: Decachlorobiphenyl	58.1			30-150	%REC	1	08-Nov-2023 00:49
Surr: Tetrachloro-m-xylene	92.5			30-150	%REC	1	08-Nov-2023 00:49
ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081			Prep: SW3541 / 30-Oct-2023		Analyst: DLB
4,4'-DDD	0.022	J	0.018	0.12	mg/Kg-dry	20	08-Nov-2023 01:10
alpha-BHC	U		0.011	0.060	mg/Kg-dry	20	08-Nov-2023 01:10
Chlordane	U		0.071	0.60	mg/Kg-dry	20	08-Nov-2023 01:10
Endrin	U		0.021	0.12	mg/Kg-dry	20	08-Nov-2023 01:10
gamma-BHC	U		0.0071	0.060	mg/Kg-dry	20	08-Nov-2023 01:10
Heptachlor	U		0.011	0.060	mg/Kg-dry	20	08-Nov-2023 01:10
Heptachlor epoxide	U		0.011	0.060	mg/Kg-dry	20	08-Nov-2023 01:10
Methoxychlor	U		0.12	0.60	mg/Kg-dry	20	08-Nov-2023 01:10
Toxaphene	U		0.17	0.60	mg/Kg-dry	20	08-Nov-2023 01:10
Surr: Decachlorobiphenyl	77.8			59-144	%REC	20	08-Nov-2023 01:10
Surr: Tetrachloro-m-xylene	90.2			56.9-130	%REC	20	08-Nov-2023 01:10
TCLP HERBICIDES BY SW8151A		Method: SW8151A		Leache: SW1311 / 02-Nov-2023	Prep: SW8151A / 03-Nov-2023		Analyst: AS
2,4,5-TP (Silvex)	U		0.000050	0.00020	mg/L	1	08-Nov-2023 13:11
2,4-D	U		0.000060	0.00020	mg/L	1	08-Nov-2023 13:11
Surr: DCAA	104			40-140	%REC	1	08-Nov-2023 13:11

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 Sample ID: PTS-04-SL-20231026
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ANALYTICAL REPORT
 WorkOrder:HS23101863
 Lab ID:HS23101863-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A		Method:SW1311/6020		Leache:SW1311 / 02-Nov-2023	Prep:SW3010A / 09-Nov-2023		Analyst: MSC
Antimony	0.0416	J	0.00400	0.0500	mg/L	1	09-Nov-2023 17:55
Arsenic	0.00791	J	0.00400	0.0500	mg/L	1	09-Nov-2023 17:55
Barium	0.463		0.0190	0.200	mg/L	1	09-Nov-2023 17:55
Beryllium	U		0.00200	0.0200	mg/L	1	09-Nov-2023 17:55
Cadmium	U		0.00200	0.0500	mg/L	1	09-Nov-2023 17:55
Chromium	U		0.00400	0.0500	mg/L	1	09-Nov-2023 17:55
Cobalt	0.00791	J	0.00200	0.0500	mg/L	1	09-Nov-2023 17:55
Copper	U		0.0100	0.0200	mg/L	1	09-Nov-2023 17:55
Lead	U		0.00600	0.0500	mg/L	1	09-Nov-2023 17:55
Nickel	0.0811		0.00600	0.0500	mg/L	1	09-Nov-2023 17:55
Selenium	0.0890		0.0110	0.0500	mg/L	1	09-Nov-2023 17:55
Silver	U		0.00200	0.0500	mg/L	1	09-Nov-2023 17:55
Tin	U		0.0150	0.0500	mg/L	1	09-Nov-2023 17:55
Vanadium	0.0196	J	0.00600	0.0500	mg/L	1	09-Nov-2023 17:55
Zinc	0.757		0.0200	0.0500	mg/L	1	09-Nov-2023 17:55
EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A		Method:SW1311/6020		Leache:SW1311 / 07-Nov-2023	Prep:SW3010A / 09-Nov-2023		Analyst: MSC
Antimony	0.0375	J	0.00400	0.0500	mg/L	1	10-Nov-2023 13:04
Arsenic	0.0115	J	0.00400	0.0500	mg/L	1	10-Nov-2023 13:04
Barium	0.163	J	0.0190	0.200	mg/L	1	10-Nov-2023 13:04
Beryllium	U		0.00200	0.0200	mg/L	1	10-Nov-2023 13:04
Cadmium	U		0.00200	0.0500	mg/L	1	10-Nov-2023 13:04
Chromium	0.0172	J	0.00400	0.0500	mg/L	1	10-Nov-2023 13:04
Cobalt	0.00408	J	0.00200	0.0500	mg/L	1	10-Nov-2023 13:04
Copper	U		0.0100	0.0200	mg/L	1	10-Nov-2023 13:04
Lead	U		0.00600	0.0500	mg/L	1	10-Nov-2023 13:04
Nickel	0.0324	J	0.00600	0.0500	mg/L	1	10-Nov-2023 13:04
Selenium	0.169		0.0110	0.0500	mg/L	1	10-Nov-2023 13:04
Silver	U		0.00200	0.0500	mg/L	1	10-Nov-2023 13:04
Tin	U		0.0150	0.0500	mg/L	1	10-Nov-2023 13:04
Vanadium	0.119		0.00600	0.0500	mg/L	1	10-Nov-2023 13:04
Zinc	0.0294	J	0.0200	0.0500	mg/L	1	10-Nov-2023 13:04

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ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-04-SL-20231026
 Collection Date: 26-Oct-2023 09:26

ANALYTICAL REPORT
 WorkOrder: HS23101863
 Lab ID: HS23101863-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 07-Nov-2023	Prep: SW3010A / 09-Nov-2023		Analyst: MSC
Antimony	0.00207	J	0.000400	0.00500	mg/L	1	10-Nov-2023 12:40
Arsenic	0.000872	J	0.000400	0.00500	mg/L	1	10-Nov-2023 12:40
Barium	0.0212		0.00190	0.0200	mg/L	1	10-Nov-2023 12:40
Beryllium		U	0.000200	0.00200	mg/L	1	10-Nov-2023 12:40
Cadmium		U	0.000200	0.00500	mg/L	1	10-Nov-2023 12:40
Chromium	0.000517	J	0.000400	0.00500	mg/L	1	10-Nov-2023 12:40
Cobalt	0.000222	J	0.000200	0.00500	mg/L	1	10-Nov-2023 12:40
Copper		U	0.00100	0.00200	mg/L	1	10-Nov-2023 12:40
Lead		U	0.000600	0.00500	mg/L	1	10-Nov-2023 12:40
Nickel	0.00167	J	0.000600	0.00500	mg/L	1	10-Nov-2023 12:40
Selenium	0.00574		0.00110	0.00500	mg/L	1	10-Nov-2023 12:40
Silver		U	0.000200	0.00500	mg/L	1	10-Nov-2023 12:40
Tin		U	0.00150	0.00500	mg/L	1	10-Nov-2023 12:40
Vanadium		U	0.000600	0.00500	mg/L	1	10-Nov-2023 12:40
Zinc	0.00267	J	0.00200	0.00500	mg/L	1	10-Nov-2023 12:40
METALS BY SW6020A		Method: SW6020A			Prep: SW3050B / 07-Nov-2023		Analyst: JC
Antimony	7.67		0.113	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Arsenic	6.14		0.122	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Barium	187		0.0521	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Beryllium	0.122	J	0.0365	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Cadmium	0.526	J	0.0469	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Chromium	29.6		0.0400	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Cobalt	3.60		0.0261	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Copper	23.6		0.0660	0.347	mg/Kg-dry	1	08-Nov-2023 20:10
Lead	12.3		0.0226	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Nickel	43.1		0.0834	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Selenium	42.0		0.158	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Silver	0.152	J	0.0261	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Thallium		U	0.387	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Tin	6.33		0.111	1.74	mg/Kg-dry	1	08-Nov-2023 20:10
Vanadium	86.3		0.130	0.869	mg/Kg-dry	1	08-Nov-2023 20:10
Zinc	1,700		29.5	86.9	mg/Kg-dry	100	09-Nov-2023 11:41
TCLP MERCURY AT PH 10 BY SW7470A		Method: SW7040		Leache: SW1311 / 07-Nov-2023	Prep: SW7040 / 09-Nov-2023		Analyst: JS
Mercury		U	0.0000400	0.000200	mg/L	1	09-Nov-2023 18:40
TCLP MERCURY AT PH 7 BY SW7470A		Method: SW7040		Leache: SW1311 / 07-Nov-2023	Prep: SW7040 / 09-Nov-2023		Analyst: JS
Mercury		U	0.0000400	0.000200	mg/L	1	09-Nov-2023 19:04
TCLP MERCURY BY SW7470A		Method: SW7470A		Leache: SW1311 / 02-Nov-2023	Prep: SW7470A / 09-Nov-2023		Analyst: JS
Mercury		U	0.0000300	0.000200	mg/L	1	09-Nov-2023 14:33

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ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-04-SL-20231026
 Collection Date: 26-Oct-2023 09:26

ANALYTICAL REPORT
 WorkOrder:HS23101863
 Lab ID:HS23101863-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
MERCURY BY SW7471B		Method:SW7471B		Prep:SW7471B / 10-Nov-2023		Analyst: JS	
Mercury	1.12		0.000879	0.00622	mg/Kg-dry	1	10-Nov-2023 12:44
MOISTURE - ASTM D2216		Method:ASTM D2216		Prep:ASTM Leachate / 01-Nov-2023		Analyst: MR	
Percent Moisture	44.4		0.0100	0.0100	wt%	1	09-Nov-2023 16:41
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B		Method:ASTM D92-12b		Prep:ASTM Leachate / 01-Nov-2023		Analyst: MZD	
Flash Point	>212		50.0	50.0	°F	1	01-Nov-2023 14:30
LEACHED SULFIDE		Method:SM4500 S2-F		Prep:ASTM Leachate / 01-Nov-2023		Analyst: CD	
Sulfide	U		4.49	8.99	mg/Kg-dry	1	02-Nov-2023 14:15
REACTIVE CYANIDE		Method:SW7.3.3.2		Prep:ASTM Leachate / 01-Nov-2023		Analyst: MZD	
Reactive Cyanide	U		100	100	mg/Kg	1	09-Nov-2023 14:30
REACTIVE SULFIDE		Method:SW7.3.4.2		Prep:ASTM Leachate / 01-Nov-2023		Analyst: MZD	
Reactive Sulfide	U		100	100	mg/Kg	1	09-Nov-2023 13:30
CYANIDE BY SW-846 9014		Method:SW9014		Prep:SW9010C / 09-Nov-2023		Analyst: MZD	
Cyanide	U		0.529	3.53	mg/Kg-dry	1	09-Nov-2023 17:13
PH SOIL BY SW9045D		Method:SW9045D		Prep:SW9056 / 06-Nov-2023		Analyst: MR	
pH	7.40	H	0.100	0.100	pH Units	1	09-Nov-2023 09:03
Temp Deg C @pH	22.8	H	0	0	°C	1	09-Nov-2023 09:03
ANIONS BY SW9056A		Method:SW9056		Prep:SW9056 / 06-Nov-2023		Analyst: TH	
Fluoride	4.74		0.538	1.79	mg/Kg-dry	1	07-Nov-2023 12:26
SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A		Method:NA		Prep:SW9056 / 06-Nov-2023		Analyst: SUB	
Subcontract Analysis	See Attached		0		none-dry	1	15-Dec-2023 09:32
SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES		Method:NA		Prep:SW9056 / 06-Nov-2023		Analyst: SUB	
Subcontract Analysis	See Attached		0			1	07-Nov-2023 17:06
SUBCONTRACT ANALYSIS - PCBS BY 8082		Method:SUBCONTRACT		Prep:SW9056 / 06-Nov-2023		Analyst: SUBHO	
Subcontracted Analyses	See Attached		0		NA-dry	1	10-Nov-2023 08:00

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ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-04-SL-20231026
 Collection Date: 26-Oct-2023 09:31

ANALYTICAL REPORT
 WorkOrder: HS23101863
 Lab ID: HS23101863-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method: SW8260		Leache: SW1311 / 02-Nov-2023	Prep: SW1311 / 02-Nov-2023		Analyst: FT
1,1-Dichloroethene	U		0.010	0.10	mg/L	20	03-Nov-2023 15:42
1,2-Dichloroethane	U		0.010	0.10	mg/L	20	03-Nov-2023 15:42
1,4-Dichlorobenzene	U		0.012	0.10	mg/L	20	03-Nov-2023 15:42
2-Butanone	U		0.020	0.20	mg/L	20	03-Nov-2023 15:42
Acetone	U		0.040	0.20	mg/L	20	03-Nov-2023 15:42
Benzene	U		0.012	0.10	mg/L	20	03-Nov-2023 15:42
Carbon tetrachloride	U		0.012	0.10	mg/L	20	03-Nov-2023 15:42
Chlorobenzene	U		0.0080	0.10	mg/L	20	03-Nov-2023 15:42
Chloroform	U		0.012	0.10	mg/L	20	03-Nov-2023 15:42
Ethyl methacrylate	U		0.020	0.10	mg/L	20	03-Nov-2023 15:42
Ethylbenzene	U		0.010	0.10	mg/L	20	03-Nov-2023 15:42
Tetrachloroethene	U		0.012	0.10	mg/L	20	03-Nov-2023 15:42
Toluene	U		0.010	0.10	mg/L	20	03-Nov-2023 15:42
Trichloroethene	U		0.010	0.10	mg/L	20	03-Nov-2023 15:42
Vinyl chloride	U		0.0080	0.040	mg/L	20	03-Nov-2023 15:42
Xylenes, Total	U		0.010	0.10	mg/L	20	03-Nov-2023 15:42
<i>Surr: 1,2-Dichloroethane-d4</i>		115		70-126	%REC	20	03-Nov-2023 15:42
<i>Surr: 4-Bromofluorobenzene</i>		107		82-124	%REC	20	03-Nov-2023 15:42
<i>Surr: Dibromofluoromethane</i>		111		77-123	%REC	20	03-Nov-2023 15:42
<i>Surr: Toluene-d8</i>		100		82-127	%REC	20	03-Nov-2023 15:42

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ANALYTICAL REPORT
 WorkOrder: HS23101863
 Lab ID: HS23101863-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
VOLATILES BY SW8260C		Method: SW8260			Analyst: WLR			
1,1-Dichloroethene	U		0.0012	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
1,2-Dichloroethane	U		0.0014	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
1,4-Dichlorobenzene	U		0.0024	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
2-Butanone	U		0.0031	0.024	mg/Kg-dry	1	02-Nov-2023 21:03	
Acetone	U		0.0048	0.048	mg/Kg-dry	1	02-Nov-2023 21:03	
Benzene	U		0.0012	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Carbon tetrachloride	U		0.0014	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Chlorobenzene	U		0.0014	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Chloroform	U		0.0012	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Ethyl methacrylate	U		0.0024	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Ethylbenzene	0.026		0.0017	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Tetrachloroethene	U		0.0017	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Toluene	U		0.0014	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Trichloroethene	U		0.0014	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Vinyl chloride	U		0.0019	0.0024	mg/Kg-dry	1	02-Nov-2023 21:03	
Xylenes, Total	0.37		0.0024	0.012	mg/Kg-dry	1	02-Nov-2023 21:03	
Surr: 1,2-Dichloroethane-d4	123			70-126	%REC	1	02-Nov-2023 21:03	
Surr: 4-Bromofluorobenzene	116			70-130	%REC	1	02-Nov-2023 21:03	
Surr: Dibromofluoromethane	132	S		70-130	%REC	1	02-Nov-2023 21:03	
Surr: Toluene-d8	125			70-130	%REC	1	02-Nov-2023 21:03	

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ANALYTICAL REPORT

WorkOrder: HS23101863
 Lab ID: HS23101863-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 02-Nov-2023	Prep: SW3510 / 03-Nov-2023		Analyst: GEY
2,4,5-Trichlorophenol	U		0.00050	0.0050	mg/L	1	08-Nov-2023 18:24
2,4,6-Trichlorophenol	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
2,4-Dinitrotoluene	U		0.00030	0.0050	mg/L	1	08-Nov-2023 18:24
2-Methylnaphthalene	U		0.00050	0.0050	mg/L	1	08-Nov-2023 18:24
2-Methylphenol	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
3&4-Methylphenol	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
Acenaphthene	0.0011	J	0.00030	0.0050	mg/L	1	08-Nov-2023 18:24
Anthracene	U		0.00030	0.0050	mg/L	1	08-Nov-2023 18:24
Benz(a)anthracene	U		0.00030	0.0050	mg/L	1	08-Nov-2023 18:24
Benzo(a)pyrene	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
Benzo(b)fluoranthene	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
Benzo(g,h,i)perylene	U		0.00030	0.0050	mg/L	1	08-Nov-2023 18:24
Benzo(k)fluoranthene	U		0.00070	0.0050	mg/L	1	08-Nov-2023 18:24
Bis(2-ethylhexyl)phthalate	U		0.00080	0.0050	mg/L	1	08-Nov-2023 18:24
Chrysene	U		0.00080	0.0050	mg/L	1	08-Nov-2023 18:24
Cresols, Total	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
Di-n-butyl phthalate	U		0.00080	0.0050	mg/L	1	08-Nov-2023 18:24
Fluorene	0.00086	J	0.00050	0.0050	mg/L	1	08-Nov-2023 18:24
Hexachlorobenzene	U		0.00030	0.0050	mg/L	1	08-Nov-2023 18:24
Hexachlorobutadiene	U		0.00050	0.0050	mg/L	1	08-Nov-2023 18:24
Hexachloroethane	U		0.00080	0.0050	mg/L	1	08-Nov-2023 18:24
Naphthalene	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
Nitrobenzene	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
Pentachlorophenol	U		0.00080	0.0050	mg/L	1	08-Nov-2023 18:24
Phenanthrene	0.0011	J	0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
Phenol	U		0.00040	0.0050	mg/L	1	08-Nov-2023 18:24
Pyrene	U		0.00030	0.0050	mg/L	1	08-Nov-2023 18:24
Pyridine	U		0.00030	0.0050	mg/L	1	08-Nov-2023 18:24
<i>Surr: 2,4,6-Tribromophenol</i>	<i>68.8</i>			<i>39-153</i>	<i>%REC</i>	<i>1</i>	<i>08-Nov-2023 18:24</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>58.2</i>			<i>40-147</i>	<i>%REC</i>	<i>1</i>	<i>08-Nov-2023 18:24</i>
<i>Surr: 2-Fluorophenol</i>	<i>53.6</i>			<i>21-110</i>	<i>%REC</i>	<i>1</i>	<i>08-Nov-2023 18:24</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>60.2</i>			<i>39-141</i>	<i>%REC</i>	<i>1</i>	<i>08-Nov-2023 18:24</i>
<i>Surr: Nitrobenzene-d5</i>	<i>66.2</i>			<i>37-140</i>	<i>%REC</i>	<i>1</i>	<i>08-Nov-2023 18:24</i>
<i>Surr: Phenol-d6</i>	<i>69.3</i>			<i>11-110</i>	<i>%REC</i>	<i>1</i>	<i>08-Nov-2023 18:24</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-04-SL-20231026
 Collection Date: 26-Oct-2023 09:31

ANALYTICAL REPORT

WorkOrder: HS23101863
 Lab ID: HS23101863-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 30-Oct-2023		Analyst: GEY
2,4,5-Trichlorophenol		U	0.37	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
2,4,6-Trichlorophenol		U	0.20	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
2,4-Dinitrotoluene		U	0.23	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
2-Methylnaphthalene	4.3		0.48	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
2-Methylphenol		U	0.23	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
3&4-Methylphenol	1.6	J	0.23	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Acenaphthene	6.5		0.27	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Anthracene	7.7		0.21	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Benz(a)anthracene	7.3		0.18	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Benzo(a)pyrene	3.2		0.21	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Benzo(b)fluoranthene	0.70	J	0.21	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Benzo(g,h,i)perylene	1.6	J	0.20	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Benzo(k)fluoranthene	1.3	J	0.27	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Bis(2-ethylhexyl)phthalate		U	0.23	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Chrysene	9.5		0.30	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Cresols, Total	1.6	J	0.23	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Di-n-butyl phthalate		U	0.21	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Fluorene	8.0		0.30	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Hexachlorobenzene		U	0.27	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Hexachlorobutadiene		U	0.25	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Hexachloroethane		U	0.20	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Naphthalene		U	0.23	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Nitrobenzene		U	0.25	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Pentachlorophenol		U	0.20	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Phenanthrene	28		0.25	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Phenol	1.5	J	0.20	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Pyrene	14		0.77	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
Pyridine		U	0.23	3.0	mg/Kg-dry	10	09-Nov-2023 19:58
<i>Surr: 2,4,6-Tribromophenol</i>	<i>18.9</i>	<i>JS</i>		<i>36-126</i>	<i>%REC</i>	<i>10</i>	<i>09-Nov-2023 19:58</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>54.6</i>			<i>43-125</i>	<i>%REC</i>	<i>10</i>	<i>09-Nov-2023 19:58</i>
<i>Surr: 2-Fluorophenol</i>	<i>40.2</i>	<i>J</i>		<i>37-125</i>	<i>%REC</i>	<i>10</i>	<i>09-Nov-2023 19:58</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>62.7</i>			<i>32-125</i>	<i>%REC</i>	<i>10</i>	<i>09-Nov-2023 19:58</i>
<i>Surr: Nitrobenzene-d5</i>	<i>55.3</i>			<i>37-125</i>	<i>%REC</i>	<i>10</i>	<i>09-Nov-2023 19:58</i>
<i>Surr: Phenol-d6</i>	<i>40.8</i>	<i>J</i>		<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>09-Nov-2023 19:58</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-04-SL-20231026
 Collection Date: 26-Oct-2023 09:31

ANALYTICAL REPORT
 WorkOrder: HS23101863
 Lab ID: HS23101863-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081		Leache: SW1311 / 02-Nov-2023	Prep: SW3510C / 03-Nov-2023		Analyst: DLB
4,4'-DDD	U		0.000020	0.00010	mg/L	1	08-Nov-2023 00:59
alpha-BHC	U		0.000010	0.000050	mg/L	1	08-Nov-2023 00:59
Chlordane	U		0.00010	0.00050	mg/L	1	08-Nov-2023 00:59
Endrin	U		0.000030	0.00010	mg/L	1	08-Nov-2023 00:59
gamma-BHC	U		0.000010	0.000050	mg/L	1	08-Nov-2023 00:59
Heptachlor	U		0.000010	0.000050	mg/L	1	08-Nov-2023 00:59
Heptachlor epoxide	U		0.000010	0.000050	mg/L	1	08-Nov-2023 00:59
Methoxychlor	U		0.00015	0.00050	mg/L	1	08-Nov-2023 00:59
Toxaphene	U		0.00019	0.00050	mg/L	1	08-Nov-2023 00:59
Surr: Decachlorobiphenyl		57.4		30-150	%REC	1	08-Nov-2023 00:59
Surr: Tetrachloro-m-xylene		91.6		30-150	%REC	1	08-Nov-2023 00:59
ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081			Prep: SW3541 / 30-Oct-2023		Analyst: DLB
4,4'-DDD	U		0.018	0.12	mg/Kg-dry	20	08-Nov-2023 01:21
alpha-BHC	U		0.011	0.059	mg/Kg-dry	20	08-Nov-2023 01:21
Chlordane	U		0.071	0.59	mg/Kg-dry	20	08-Nov-2023 01:21
Endrin	U		0.021	0.12	mg/Kg-dry	20	08-Nov-2023 01:21
gamma-BHC	U		0.0071	0.059	mg/Kg-dry	20	08-Nov-2023 01:21
Heptachlor	U		0.011	0.059	mg/Kg-dry	20	08-Nov-2023 01:21
Heptachlor epoxide	U		0.011	0.059	mg/Kg-dry	20	08-Nov-2023 01:21
Methoxychlor	U		0.12	0.59	mg/Kg-dry	20	08-Nov-2023 01:21
Toxaphene	U		0.17	0.59	mg/Kg-dry	20	08-Nov-2023 01:21
Surr: Decachlorobiphenyl		81.7		59-144	%REC	20	08-Nov-2023 01:21
Surr: Tetrachloro-m-xylene		102		56.9-130	%REC	20	08-Nov-2023 01:21
TCLP HERBICIDES BY SW8151A		Method: SW8151A		Leache: SW1311 / 02-Nov-2023	Prep: SW8151A / 03-Nov-2023		Analyst: AS
2,4,5-TP (Silvex)	U		0.000050	0.00020	mg/L	1	08-Nov-2023 13:28
2,4-D	U		0.000060	0.00020	mg/L	1	08-Nov-2023 13:28
Surr: DCAA		108		40-140	%REC	1	08-Nov-2023 13:28

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ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-04-SL-20231026
 Collection Date: 26-Oct-2023 09:31

ANALYTICAL REPORT
 WorkOrder: HS23101863
 Lab ID: HS23101863-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 02-Nov-2023	Prep: SW3010A / 09-Nov-2023		Analyst: MSC
Antimony	0.0349	J	0.00400	0.0500	mg/L	1	09-Nov-2023 17:57
Arsenic	0.00757	J	0.00400	0.0500	mg/L	1	09-Nov-2023 17:57
Barium	0.413		0.0190	0.200	mg/L	1	09-Nov-2023 17:57
Beryllium	U		0.00200	0.0200	mg/L	1	09-Nov-2023 17:57
Cadmium	U		0.00200	0.0500	mg/L	1	09-Nov-2023 17:57
Chromium	U		0.00400	0.0500	mg/L	1	09-Nov-2023 17:57
Cobalt	0.00695	J	0.00200	0.0500	mg/L	1	09-Nov-2023 17:57
Copper	U		0.0100	0.0200	mg/L	1	09-Nov-2023 17:57
Lead	U		0.00600	0.0500	mg/L	1	09-Nov-2023 17:57
Nickel	0.0741		0.00600	0.0500	mg/L	1	09-Nov-2023 17:57
Selenium	0.0826		0.0110	0.0500	mg/L	1	09-Nov-2023 17:57
Silver	U		0.00200	0.0500	mg/L	1	09-Nov-2023 17:57
Tin	U		0.0150	0.0500	mg/L	1	09-Nov-2023 17:57
Vanadium	0.0160	J	0.00600	0.0500	mg/L	1	09-Nov-2023 17:57
Zinc	0.527		0.0200	0.0500	mg/L	1	09-Nov-2023 17:57
EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 07-Nov-2023	Prep: SW3010A / 09-Nov-2023		Analyst: MSC
Antimony	0.0405	J	0.00400	0.0500	mg/L	1	10-Nov-2023 13:15
Arsenic	0.0158	J	0.00400	0.0500	mg/L	1	10-Nov-2023 13:15
Barium	0.168	J	0.0190	0.200	mg/L	1	10-Nov-2023 13:15
Beryllium	U		0.00200	0.0200	mg/L	1	10-Nov-2023 13:15
Cadmium	U		0.00200	0.0500	mg/L	1	10-Nov-2023 13:15
Chromium	0.00945	J	0.00400	0.0500	mg/L	1	10-Nov-2023 13:15
Cobalt	0.00448	J	0.00200	0.0500	mg/L	1	10-Nov-2023 13:15
Copper	U		0.0100	0.0200	mg/L	1	10-Nov-2023 13:15
Lead	U		0.00600	0.0500	mg/L	1	10-Nov-2023 13:15
Nickel	0.0356	J	0.00600	0.0500	mg/L	1	10-Nov-2023 13:15
Selenium	0.207		0.0110	0.0500	mg/L	1	10-Nov-2023 13:15
Silver	U		0.00200	0.0500	mg/L	1	10-Nov-2023 13:15
Tin	U		0.0150	0.0500	mg/L	1	10-Nov-2023 13:15
Vanadium	0.177		0.00600	0.0500	mg/L	1	10-Nov-2023 13:15
Zinc	0.0270	J	0.0200	0.0500	mg/L	1	10-Nov-2023 13:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-04-SL-20231026
 Collection Date: 26-Oct-2023 09:31

ANALYTICAL REPORT

WorkOrder:HS23101863
 Lab ID:HS23101863-02
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A		Method:SW1311/6020		Leache:SW1311 / 07-Nov-2023	Prep:SW3010A / 09-Nov-2023		Analyst: MSC
Antimony	0.00172	J	0.000400	0.00500	mg/L	1	10-Nov-2023 12:42
Arsenic	0.000927	J	0.000400	0.00500	mg/L	1	10-Nov-2023 12:42
Barium	0.0226		0.00190	0.0200	mg/L	1	10-Nov-2023 12:42
Beryllium		U	0.000200	0.00200	mg/L	1	10-Nov-2023 12:42
Cadmium		U	0.000200	0.00500	mg/L	1	10-Nov-2023 12:42
Chromium	0.000610	J	0.000400	0.00500	mg/L	1	10-Nov-2023 12:42
Cobalt		U	0.000200	0.00500	mg/L	1	10-Nov-2023 12:42
Copper		U	0.00100	0.00200	mg/L	1	10-Nov-2023 12:42
Lead		U	0.000600	0.00500	mg/L	1	10-Nov-2023 12:42
Nickel	0.00145	J	0.000600	0.00500	mg/L	1	10-Nov-2023 12:42
Selenium	0.00647		0.00110	0.00500	mg/L	1	10-Nov-2023 12:42
Silver		U	0.000200	0.00500	mg/L	1	10-Nov-2023 12:42
Tin		U	0.00150	0.00500	mg/L	1	10-Nov-2023 12:42
Vanadium	0.000734	J	0.000600	0.00500	mg/L	1	10-Nov-2023 12:42
Zinc		U	0.00200	0.00500	mg/L	1	10-Nov-2023 12:42
METALS BY SW6020A		Method:SW6020A			Prep:SW3050B / 07-Nov-2023		Analyst: JC
Antimony	7.51		0.112	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Arsenic	6.15		0.121	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Barium	198		0.0517	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Beryllium	0.120	J	0.0362	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Cadmium	0.483	J	0.0465	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Chromium	29.3		0.0396	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Cobalt	3.54		0.0259	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Copper	23.5		0.0655	0.345	mg/Kg-dry	1	08-Nov-2023 20:12
Lead	12.1		0.0224	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Nickel	42.2		0.0827	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Selenium	43.5		0.157	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Silver	0.150	J	0.0259	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Thallium		U	0.384	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Tin	6.30		0.110	1.72	mg/Kg-dry	1	08-Nov-2023 20:12
Vanadium	84.8		0.129	0.862	mg/Kg-dry	1	08-Nov-2023 20:12
Zinc	1,660		29.3	86.2	mg/Kg-dry	100	09-Nov-2023 11:43
TCLP MERCURY AT PH 10 BY SW7470A		Method:SW7040		Leache:SW1311 / 07-Nov-2023	Prep:SW7040 / 09-Nov-2023		Analyst: JS
Mercury		U	0.0000400	0.000200	mg/L	1	09-Nov-2023 18:50
TCLP MERCURY AT PH 7 BY SW7470A		Method:SW7040		Leache:SW1311 / 07-Nov-2023	Prep:SW7040 / 09-Nov-2023		Analyst: JS
Mercury		U	0.0000400	0.000200	mg/L	1	09-Nov-2023 19:11
TCLP MERCURY BY SW7470A		Method:SW7470A		Leache:SW1311 / 02-Nov-2023	Prep:SW7470A / 09-Nov-2023		Analyst: JS
Mercury		U	0.0000300	0.000200	mg/L	1	09-Nov-2023 14:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-04-SL-20231026
 Collection Date: 26-Oct-2023 09:31

ANALYTICAL REPORT
 WorkOrder:HS23101863
 Lab ID:HS23101863-02
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
MERCURY BY SW7471B		Method:SW7471B		Prep:SW7471B / 10-Nov-2023		Analyst: JS	
Mercury	0.944		0.000864	0.00611	mg/Kg-dry	1	10-Nov-2023 12:46
MOISTURE - ASTM D2216		Method:ASTM D2216		Prep:ASTM Leachate / 01-Nov-2023		Analyst: MR	
Percent Moisture	44.1		0.0100	0.0100	wt%	1	09-Nov-2023 16:41
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B		Method:ASTM D92-12b		Prep:ASTM Leachate / 01-Nov-2023		Analyst: MZD	
Flash Point	>212		50.0	50.0	°F	1	01-Nov-2023 14:30
LEACHED SULFIDE		Method:SM4500 S2-F		Prep:ASTM Leachate / 01-Nov-2023		Analyst: CD	
Sulfide	U		4.47	8.93	mg/Kg-dry	1	02-Nov-2023 14:15
REACTIVE CYANIDE		Method:SW7.3.3.2		Prep:ASTM Leachate / 01-Nov-2023		Analyst: MZD	
Reactive Cyanide	U		100	100	mg/Kg	1	09-Nov-2023 14:30
REACTIVE SULFIDE		Method:SW7.3.4.2		Prep:ASTM Leachate / 01-Nov-2023		Analyst: MZD	
Reactive Sulfide	U		100	100	mg/Kg	1	09-Nov-2023 13:30
CYANIDE BY SW-846 9014		Method:SW9014		Prep:SW9010C / 09-Nov-2023		Analyst: MZD	
Cyanide	U		0.511	3.41	mg/Kg-dry	1	09-Nov-2023 17:13
PH SOIL BY SW9045D		Method:SW9045D		Prep:SW9056 / 06-Nov-2023		Analyst: MR	
pH	7.39	H	0.100	0.100	pH Units	1	09-Nov-2023 09:04
Temp Deg C @pH	23.0	H	0	0	°C	1	09-Nov-2023 09:04
ANIONS BY SW9056A		Method:SW9056		Prep:SW9056 / 06-Nov-2023		Analyst: TH	
Fluoride	4.56		0.533	1.78	mg/Kg-dry	1	07-Nov-2023 13:01
SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A		Method:NA		Prep:SW9056 / 06-Nov-2023		Analyst: SUB	
Subcontract Analysis	See Attached		0		none-dry	1	15-Dec-2023 09:32
SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES		Method:NA		Prep:SW9056 / 06-Nov-2023		Analyst: SUB	
Subcontract Analysis	See Attached		0			1	07-Nov-2023 17:06
SUBCONTRACT ANALYSIS - PCBS BY 8082		Method:SUBCONTRACT		Prep:SW9056 / 06-Nov-2023		Analyst: SUBHO	
Subcontracted Analyses	See Attached		0		NA-dry	1	10-Nov-2023 08:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: TB-04-SL-20231026
 Collection Date: 26-Oct-2023 00:00

ANALYTICAL REPORT
 WorkOrder: HS23101863
 Lab ID: HS23101863-03
 Matrix: Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method: SW8260			Analyst: PC		
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	01-Nov-2023 17:58
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	01-Nov-2023 17:58
1,4-Dichlorobenzene	U		0.00060	0.0050	mg/L	1	01-Nov-2023 17:58
2-Butanone	U		0.0010	0.010	mg/L	1	01-Nov-2023 17:58
Acetone	U		0.0020	0.010	mg/L	1	01-Nov-2023 17:58
Benzene	U		0.00060	0.0050	mg/L	1	01-Nov-2023 17:58
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	01-Nov-2023 17:58
Chlorobenzene	U		0.00040	0.0050	mg/L	1	01-Nov-2023 17:58
Chloroform	U		0.00060	0.0050	mg/L	1	01-Nov-2023 17:58
Ethyl methacrylate	U		0.00090	0.0050	mg/L	1	01-Nov-2023 17:58
Ethylbenzene	U		0.00050	0.0050	mg/L	1	01-Nov-2023 17:58
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	01-Nov-2023 17:58
Toluene	U		0.00050	0.0050	mg/L	1	01-Nov-2023 17:58
Trichloroethene	U		0.00050	0.0050	mg/L	1	01-Nov-2023 17:58
Vinyl chloride	U		0.00040	0.0020	mg/L	1	01-Nov-2023 17:58
Xylenes, Total	U		0.00050	0.015	mg/L	1	01-Nov-2023 17:58
Surr: 1,2-Dichloroethane-d4	93.5			70-126	%REC	1	01-Nov-2023 17:58
Surr: 4-Bromofluorobenzene	101			82-124	%REC	1	01-Nov-2023 17:58
Surr: Dibromofluoromethane	96.6			77-123	%REC	1	01-Nov-2023 17:58
Surr: Toluene-d8	98.8			82-127	%REC	1	01-Nov-2023 17:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

Batch ID: 6498 **Start Date:** 30 Oct 2023 10:38 **End Date:** 30 Oct 2023 10:38
Method: TCLP VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS23101863-01	1	3.866 (g)	5 (mL)	1.29	TerraCore (5035A)
HS23101863-02	1	3.725 (g)	5 (mL)	1.34	TerraCore (5035A)
HS23101863-01	1	3.866 (g)	5 (mL)	1.29	TerraCore (5035A)
HS23101863-02	1	3.725 (g)	5 (mL)	1.34	TerraCore (5035A)

Batch ID: 202691 **Start Date:** 30 Oct 2023 08:05 **End Date:** 30 Oct 2023 08:05
Method: PEST SOXHLET EXTRACTION **Prep Code:** PESTPR_SOX

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		30.23 (g)	10 (mL)	0.3308	8-oz glass, Neat
HS23101863-02		30.29 (g)	10 (mL)	0.3301	8-oz glass, Neat

Batch ID: 202714 **Start Date:** 30 Oct 2023 09:00 **End Date:** 30 Oct 2023 09:00
Method: SV SOXHLET EXTRACTION - SW3541 **Prep Code:** 3541_B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		30.02 (grams)	1 (mL)	0.03331	8-oz glass, Neat
HS23101863-02		30.14 (grams)	1 (mL)	0.03318	8-oz glass, Neat

Batch ID: 202898 **Start Date:** 01 Nov 2023 15:00 **End Date:** 01 Nov 2023 15:00
Method: TCLP MERCURY EXTRACTION BY SW1311 **Prep Code:** 1311LHG EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 202899 **Start Date:** 01 Nov 2023 15:00 **End Date:** 01 Nov 2023 15:00
Method: TCLP METALS EXTRACTION BY SW1311 **Prep Code:** 1311LM EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 202911 **Start Date:** 01 Nov 2023 15:00 **End Date:** 01 Nov 2023 15:00
Method: TCLP SEMIVOLATILE EXTRACTION BY SW1311 **Prep Code:** 1311LO_SV

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.

Project: Preliminary Joliet Delisting

WorkOrder: HS23101863

Batch ID: 202917	Start Date: 01 Nov 2023 13:49	End Date: 01 Nov 2023 13:49
Method: ASTM LEACH PROCEDURE	Prep Code: ASTM LEACH PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		50.02 (g)	250 (mL)	4.998	8-oz glass, Neat
HS23101863-02		50.07 (g)	250 (mL)	4.993	8-oz glass, Neat

Batch ID: 202920	Start Date: 01 Nov 2023 15:00	End Date: 01 Nov 2023 15:00
Method: TCLP HERBICIDE EXTRACTION BY SW1311	Prep Code: 1311LO_HERB	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 202921	Start Date: 01 Nov 2023 15:00	End Date: 01 Nov 2023 15:00
Method: TCLP PESTICIDE EXTRACTION BY SW1311	Prep Code: 1311LO_PEST	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 202923	Start Date: 01 Nov 2023 15:00	End Date: 01 Nov 2023 15:00
Method: TCLP VOLATILE ZERO HEADSPACE EXTRACTION BY SW1311	Prep Code: 1311ZHE_NR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat
HS23101863-02		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 202991	Start Date: 03 Nov 2023 12:22	End Date: 03 Nov 2023 12:22
Method: HERBICIDE AQ SEP FUN EXTRACT-SW8151	Prep Code: 3510_H_1311	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat
HS23101863-02	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat

Batch ID: 202992	Start Date: 03 Nov 2023 12:22	End Date: 03 Nov 2023 12:22
Method: PEST AQ SEP FUN EXTRACT-SW3510C	Prep Code: 3510_P_1311	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat
HS23101863-02	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat

Batch ID: 202996	Start Date: 03 Nov 2023 12:23	End Date: 03 Nov 2023 12:23
Method: SV AQ SEP FUNNEL EXTRACTION - SW3510C	Prep Code: 3510_B	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01	1	1000 (mL)	1 (mL)	0.001	1-L WM glass, Neat
HS23101863-02	1	1000 (mL)	1 (mL)	0.001	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

Batch ID: 203055 **Start Date:** 06 Nov 2023 11:00 **End Date:** 06 Nov 2023 11:00
Method: 9056 ANIONS SOIL PREP **Prep Code:** 9056_S_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		5.0177 (g)	50 (mL)	9.965	2-oz glass, Neat
HS23101863-02		5.0349 (g)	50 (mL)	9.931	2-oz glass, Neat

Batch ID: 203094 **Start Date:** 07 Nov 2023 12:30 **End Date:** 07 Nov 2023 12:30
Method: METALS PREP - SOLIDS - SW3050B **Prep Code:** 3050_I_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		0.5177 (g)	50 (mL)	96.58	2-oz glass, Neat
HS23101863-02		0.5189 (g)	50 (mL)	96.36	2-oz glass, Neat

Batch ID: 203107 **Start Date:** 07 Nov 2023 11:03 **End Date:** 07 Nov 2023 11:03
Method: TCLP SAMPLE LEACH DI WATER **Prep Code:** 1311DI LEACH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (g)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (g)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 203109 **Start Date:** 06 Nov 2023 15:00 **End Date:** 06 Nov 2023 15:00
Method: TCLP WATER LEACH **Prep Code:** 1311_WATER LEACH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (g)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (g)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 203111 **Start Date:** 06 Nov 2023 15:00 **End Date:** 06 Nov 2023 15:00
Method: TCLP MERCURY EXTRACTION AT PH 10 BY SW1311 **Prep Code:** 1311LHG PH 10 EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 203112 **Start Date:** 06 Nov 2023 15:00 **End Date:** 06 Nov 2023 15:00
Method: TCLP MODIFIED METALS EXTRACTION AT PH 10 BY SW1311 **Prep Code:** 1311LM PH10 EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23101863-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 203230 **Start Date:** 10 Nov 2023 08:30 **End Date:** 10 Nov 2023 08:30
Method: MERCURY PREP - SOLID - 7471B **Prep Code:** HG_S_LOWPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		0.5773 (grams)	40 (mL)	69.29	2-oz glass, Neat
HS23101863-02		0.5842 (grams)	40 (mL)	68.47	2-oz glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

Batch ID: 203240 **Start Date:** 09 Nov 2023 08:30 **End Date:** 09 Nov 2023 08:30
Method: TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat
HS23101863-02		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 203241 **Start Date:** 09 Nov 2023 08:30 **End Date:** 09 Nov 2023 08:30
Method: TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A_TCLP_PH10

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat
HS23101863-02		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 203255 **Start Date:** 09 Nov 2023 09:00 **End Date:** 09 Nov 2023 09:00
Method: TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A_TCLP_PH7

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		10 (mL)	10 (mL)	1	1-L WM glass, Neat
HS23101863-02		10 (mL)	10 (mL)	1	1-L WM glass, Neat

Batch ID: 203262 **Start Date:** 09 Nov 2023 08:30 **End Date:** 09 Nov 2023 08:30
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		10 (mL)	10 (mL)	1	1-L WM glass, Neat
HS23101863-02		10 (mL)	10 (mL)	1	1-L WM glass, Neat

Batch ID: 203289 **Start Date:** 09 Nov 2023 10:00 **End Date:** 09 Nov 2023 10:00
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR_PH10

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		40 (mL)	40 (mL)	1	1-L WM glass, Neat
HS23101863-02		40 (mL)	40 (mL)	1	1-L WM glass, Neat

Batch ID: 203290 **Start Date:** 09 Nov 2023 10:00 **End Date:** 09 Nov 2023 10:00
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR_PH7

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		40 (mL)	40 (mL)	1	1-L WM glass, Neat
HS23101863-02		40 (mL)	40 (mL)	1	1-L WM glass, Neat

Batch ID: 203308 **Start Date:** 09 Nov 2023 11:00 **End Date:** 09 Nov 2023 11:00
Method: CYANIDE PREP - SW9010C **Prep Code:** CN_TS_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23101863-01		1.02 (grams)	50 (mL)	49.02	2-oz glass, Neat
HS23101863-02		1.05 (grams)	50 (mL)	47.62	2-oz glass, Neat

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Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 202691 (0)		Test Name : ORGANOCHLORINE PESTICIDES BY SW8081B			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26		30 Oct 2023 08:05	08 Nov 2023 01:10	20
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31		30 Oct 2023 08:05	08 Nov 2023 01:21	20
Batch ID: 202714 (0)		Test Name : SEMIVOLATILES			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26		30 Oct 2023 09:00	10 Nov 2023 22:17	10
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31		30 Oct 2023 09:00	09 Nov 2023 19:58	10
Batch ID: 202917 (0)		Test Name : LEACHED SULFIDE			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26		01 Nov 2023 13:49	02 Nov 2023 14:15	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31		01 Nov 2023 13:49	02 Nov 2023 14:15	1
Batch ID: 202923 (0)		Test Name : TCLP VOLATILES BY SW8260C			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	02 Nov 2023 08:00	02 Nov 2023 08:00	03 Nov 2023 15:22	20
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	02 Nov 2023 08:00	02 Nov 2023 08:00	03 Nov 2023 15:42	20
Batch ID: 202991 (0)		Test Name : TCLP HERBICIDES BY SW8151A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	02 Nov 2023 08:00	03 Nov 2023 12:22	08 Nov 2023 13:11	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	02 Nov 2023 08:00	03 Nov 2023 12:22	08 Nov 2023 13:28	1
Batch ID: 202992 (0)		Test Name : TCLP ORGANOCHLORINE PESTICIDES BY SW8081B			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	02 Nov 2023 08:00	03 Nov 2023 12:22	08 Nov 2023 00:49	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	02 Nov 2023 08:00	03 Nov 2023 12:22	08 Nov 2023 00:59	1
Batch ID: 202996 (1)		Test Name : TCLP SEMIVOLATILES			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	02 Nov 2023 08:00	03 Nov 2023 12:23	06 Nov 2023 21:30	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	02 Nov 2023 08:00	03 Nov 2023 12:23	08 Nov 2023 18:24	1
Batch ID: 203055 (0)		Test Name : ANIONS BY SW9056A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26		06 Nov 2023 11:00	07 Nov 2023 12:26	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31		06 Nov 2023 11:00	07 Nov 2023 13:01	1
Batch ID: 203094 (0)		Test Name : METALS BY SW6020A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26		07 Nov 2023 12:30	09 Nov 2023 11:41	100
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26		07 Nov 2023 12:30	08 Nov 2023 20:10	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31		07 Nov 2023 12:30	09 Nov 2023 11:43	100
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31		07 Nov 2023 12:30	08 Nov 2023 20:12	1
Batch ID: 203230 (0)		Test Name : MERCURY BY SW7471B			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26		10 Nov 2023 08:30	10 Nov 2023 12:44	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31		10 Nov 2023 08:30	10 Nov 2023 12:46	1
Batch ID: 203240 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	02 Nov 2023 08:00	09 Nov 2023 08:30	09 Nov 2023 17:55	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	02 Nov 2023 08:00	09 Nov 2023 08:30	09 Nov 2023 17:57	1

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Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 203241 (0)		Test Name : EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	07 Nov 2023 08:00	09 Nov 2023 08:30	10 Nov 2023 13:04	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	07 Nov 2023 08:00	09 Nov 2023 08:30	10 Nov 2023 13:15	1
Batch ID: 203255 (0)		Test Name : EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	07 Nov 2023 08:00	09 Nov 2023 09:00	10 Nov 2023 12:40	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	07 Nov 2023 08:00	09 Nov 2023 09:00	10 Nov 2023 12:42	1
Batch ID: 203262 (0)		Test Name : TCLP MERCURY BY SW7470A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	02 Nov 2023 08:00	09 Nov 2023 08:30	09 Nov 2023 14:33	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	02 Nov 2023 08:00	09 Nov 2023 08:30	09 Nov 2023 14:35	1
Batch ID: 203289 (0)		Test Name : TCLP MERCURY AT PH 10 BY SW7470A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	07 Nov 2023 08:00	09 Nov 2023 10:00	09 Nov 2023 18:40	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	07 Nov 2023 08:00	09 Nov 2023 10:00	09 Nov 2023 18:50	1
Batch ID: 203290 (0)		Test Name : TCLP MERCURY AT PH 7 BY SW7470A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26	07 Nov 2023 08:00	09 Nov 2023 10:00	09 Nov 2023 19:04	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31	07 Nov 2023 08:00	09 Nov 2023 10:00	09 Nov 2023 19:11	1
Batch ID: 203308 (0)		Test Name : CYANIDE BY SW-846 9014			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26		09 Nov 2023 11:00	09 Nov 2023 17:13	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31		09 Nov 2023 11:00	09 Nov 2023 17:13	1
Batch ID: R450583 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			01 Nov 2023 18:16	1
Batch ID: R450640 (0)		Test Name : FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			01 Nov 2023 14:30	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			01 Nov 2023 14:30	1
Batch ID: R450656 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS23101863-03	TB-04-SL-20231026	26 Oct 2023 00:00			01 Nov 2023 17:58	1
Batch ID: R450780 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			02 Nov 2023 21:03	1
Batch ID: R451173 (0)		Test Name : SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			07 Nov 2023 17:06	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			07 Nov 2023 17:06	1
Batch ID: R451406 (0)		Test Name : PH SOIL BY SW9045D			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			09 Nov 2023 09:03	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			09 Nov 2023 09:04	1
Batch ID: R451409 (0)		Test Name : REACTIVE SULFIDE			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			09 Nov 2023 13:30	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			09 Nov 2023 13:30	1

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R451410 (0)		Test Name : REACTIVE CYANIDE			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			09 Nov 2023 14:30	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			09 Nov 2023 14:30	1
Batch ID: R451445 (0)		Test Name : SUBCONTRACT ANALYSIS - PCBS BY 8082			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			10 Nov 2023 08:00	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			10 Nov 2023 08:00	1
Batch ID: R451496 (0)		Test Name : MOISTURE - ASTM D2216			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			09 Nov 2023 16:41	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			09 Nov 2023 16:41	1
Batch ID: R454232 (0)		Test Name : SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A			Matrix: Soil	
HS23101863-01	PTS-04-SL-20231026	26 Oct 2023 09:26			15 Dec 2023 09:32	1
HS23101863-02	DUP-04-SL-20231026	26 Oct 2023 09:31			15 Dec 2023 09:32	1

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202691 (0)	Instrument: ECD_15	Method: ORGANOCHLORINE PESTICIDES BY SW8081B								
MBLK	Sample ID: MBLK-202691	Units: mg/Kg	Analysis Date: 05-Nov-2023 22:08							
Client ID:	Run ID: ECD_15_450925	SeqNo: 7652439	PrepDate: 30-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

4,4'-DDD	U	0.0033								
alpha-BHC	U	0.0017								
Endrin	U	0.0033								
gamma-BHC	U	0.0017								
Heptachlor	U	0.0017								
Heptachlor epoxide	U	0.0017								
Methoxychlor	U	0.017								
<i>Surr: Decachlorobiphenyl</i>	0.0091	0	0.006667	0	137	59 - 144				
<i>Surr: Tetrachloro-m-xylene</i>	0.0063	0	0.006667	0	94.5	56.9 - 130				

MBLK	Sample ID: MBLK-202691	Units: mg/Kg	Analysis Date: 03-Nov-2023 04:45							
Client ID:	Run ID: ECD_15_450925	SeqNo: 7652956	PrepDate: 30-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chlordane	U	0.017								
Toxaphene	U	0.017								
<i>Surr: Decachlorobiphenyl</i>	0.0043	0	0.006667	0	65.1	59 - 144				
<i>Surr: Tetrachloro-m-xylene</i>	0.0062	0	0.006667	0	92.6	56.9 - 130				

LCS	Sample ID: LCS-202691	Units: mg/Kg	Analysis Date: 05-Nov-2023 21:29							
Client ID:	Run ID: ECD_15_450925	SeqNo: 7652437	PrepDate: 30-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

4,4'-DDD	0.016	0.0033	0.01667	0	95.6	53 - 138				
alpha-BHC	0.0079	0.0017	0.008333	0	94.2	52 - 130				
Endrin	0.016	0.0033	0.01667	0	98.5	60 - 157				
gamma-BHC	0.0076	0.0017	0.008333	0	91.2	52 - 133				
Heptachlor	0.0073	0.0017	0.008333	0	87.9	54 - 134				
Heptachlor epoxide	0.0063	0.0017	0.008333	0	75.5	58 - 130				
Methoxychlor	0.077	0.017	0.0833	0	92.2	60 - 140				
<i>Surr: Decachlorobiphenyl</i>	0.0088	0	0.006667	0	131	59 - 144				
<i>Surr: Tetrachloro-m-xylene</i>	0.0063	0	0.006667	0	95.1	56.9 - 130				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202691 (0)	Instrument: ECD_15	Method: ORGANOCHLORINE PESTICIDES BY SW8081B
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LCS	Sample ID: LCS1-202691	Units: mg/Kg	Analysis Date: 03-Nov-2023 03:27							
Client ID:	Run ID: ECD_15_450925	SeqNo: 7652300	PrepDate: 30-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Chlordane	0.075	0.017	0.0833	0	90.3	50 - 150				
Surr: Decachlorobiphenyl	0.0046	0	0.006667	0	68.7	59 - 144				
Surr: Tetrachloro-m-xylene	0.0063	0	0.006667	0	95.2	56.9 - 130				

LCS	Sample ID: LCS2-202691	Units: mg/Kg	Analysis Date: 03-Nov-2023 04:06							
Client ID:	Run ID: ECD_15_450925	SeqNo: 7652302	PrepDate: 30-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Toxaphene	0.072	0.017	0.0833	0	86.7	50 - 150				
Surr: Decachlorobiphenyl	0.0046	0	0.006667	0	68.7	59 - 144				
Surr: Tetrachloro-m-xylene	0.0065	0	0.006667	0	97.3	56.9 - 130				

LCSD	Sample ID: LCSD-202691	Units: mg/Kg	Analysis Date: 05-Nov-2023 21:49							
Client ID:	Run ID: ECD_15_450925	SeqNo: 7652438	PrepDate: 30-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
4,4'-DDD	0.016	0.0033	0.01667	0	96.4	53 - 138	0.01594	0.758	30	
alpha-BHC	0.0079	0.0017	0.008333	0	94.4	52 - 130	0.007852	0.204	30	
Endrin	0.016	0.0033	0.01667	0	98.1	60 - 157	0.01642	0.397	30	
gamma-BHC	0.0077	0.0017	0.008333	0	92.2	52 - 133	0.007598	1.17	30	
Heptachlor	0.0073	0.0017	0.008333	0	87.6	54 - 134	0.007325	0.319	30	
Heptachlor epoxide	0.0068	0.0017	0.008333	0	81.2	58 - 130	0.006291	7.32	30	
Methoxychlor	0.076	0.017	0.0833	0	91.3	60 - 140	0.07684	1.03	30	
Surr: Decachlorobiphenyl	0.0090	0	0.006667	0	135	59 - 144	0.008762	3.02	30	
Surr: Tetrachloro-m-xylene	0.0062	0	0.006667	0	92.9	56.9 - 130	0.006339	2.3	30	

LCSD	Sample ID: LCSD1-202691	Units: mg/Kg	Analysis Date: 03-Nov-2023 03:47							
Client ID:	Run ID: ECD_15_450925	SeqNo: 7652301	PrepDate: 30-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Chlordane	0.077	0.017	0.0833	0	91.9	50 - 150	0.07519	1.85	30	
Surr: Decachlorobiphenyl	0.0042	0	0.006667	0	62.8	59 - 144	0.004577	8.93	30	
Surr: Tetrachloro-m-xylene	0.0059	0	0.006667	0	88.7	56.9 - 130	0.006346	7.1	30	

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202691 (0) **Instrument:** ECD_15 **Method:** ORGANOCHLORINE PESTICIDES BY SW8081B

LCSD		Sample ID: LCSD2-202691		Units: mg/Kg		Analysis Date: 03-Nov-2023 04:26				
Client ID:		Run ID: ECD_15_450925		SeqNo: 7652303		PrepDate: 30-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	0.069	0.017	0.0833	0	83.0	50 - 150	0.07219	4.3	30	
<i>Surr: Decachlorobiphenyl</i>	<i>0.0044</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>66.3</i>	<i>59 - 144</i>	<i>0.004579</i>	<i>3.54</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0065</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>97.3</i>	<i>56.9 - 130</i>	<i>0.006485</i>	<i>0.0514</i>	<i>30</i>	

MS		Sample ID: HS23101745-03MS		Units: mg/Kg		Analysis Date: 06-Nov-2023 00:25				
Client ID:		Run ID: ECD_15_450925		SeqNo: 7652441		PrepDate: 30-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.019	0.0033	0.01651	0	115	53 - 138				
alpha-BHC	0.0097	0.0017	0.008256	0	117	52 - 130				
Endrin	0.021	0.0033	0.01651	0	128	60 - 157				
gamma-BHC	0.0083	0.0017	0.008256	0	101	52 - 133				
Heptachlor	0.011	0.0017	0.008256	0.0002839	124	54 - 134				
Heptachlor epoxide	0.0094	0.0017	0.008256	0.00008177	113	58 - 130				
Methoxychlor	0.11	0.017	0.08253	0	131	60 - 140				
<i>Surr: Decachlorobiphenyl</i>	<i>0.0088</i>	<i>0</i>	<i>0.006605</i>	<i>0</i>	<i>133</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0068</i>	<i>0</i>	<i>0.006605</i>	<i>0</i>	<i>103</i>	<i>56.9 - 130</i>				

MSD		Sample ID: HS23101745-03MSD		Units: mg/Kg		Analysis Date: 06-Nov-2023 00:44				
Client ID:		Run ID: ECD_15_450925		SeqNo: 7652442		PrepDate: 30-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.015	0.0033	0.01655	0	89.8	53 - 138	0.01896	24.2	30	
alpha-BHC	0.0077	0.0017	0.008275	0	92.7	52 - 130	0.009652	22.8	30	
Endrin	0.017	0.0033	0.01655	0	100	60 - 157	0.02114	24.1	30	
gamma-BHC	0.0071	0.0017	0.008275	0	86.2	52 - 133	0.008335	15.5	30	
Heptachlor	0.0085	0.0017	0.008275	0.0002839	99.7	54 - 134	0.01051	20.7	30	
Heptachlor epoxide	0.0073	0.0017	0.008275	0.00008177	87.6	58 - 130	0.009408	24.8	30	
Methoxychlor	0.086	0.017	0.08272	0	104	60 - 140	0.1083	23.1	30	
<i>Surr: Decachlorobiphenyl</i>	<i>0.0075</i>	<i>0</i>	<i>0.00662</i>	<i>0</i>	<i>113</i>	<i>59 - 144</i>	<i>0.008764</i>	<i>15.5</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0062</i>	<i>0</i>	<i>0.00662</i>	<i>0</i>	<i>93.4</i>	<i>56.9 - 130</i>	<i>0.006806</i>	<i>9.63</i>	<i>30</i>	

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202991 (0) **Instrument:** ECD_13 **Method:** TCLP HERBICIDES BY SW8151A

MBLK		Sample ID: MBLK-202991		Units: mg/L		Analysis Date: 08-Nov-2023 12:19			
Client ID:		Run ID: ECD_13_451322		SeqNo: 7662829		PrepDate: 03-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
2,4,5-TP (Silvex)	U	0.00020							
2,4-D	U	0.00020							
Surr: DCAA	0.0058	0.00020	0.005	0	117	40 - 140			

LCS		Sample ID: LCS-202991		Units: mg/L		Analysis Date: 08-Nov-2023 11:44			
Client ID:		Run ID: ECD_13_451322		SeqNo: 7662827		PrepDate: 03-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
2,4,5-TP (Silvex)	0.0028	0.00020	0.0025	0	113	40 - 140			
2,4-D	0.0026	0.00020	0.0025	0	105	20 - 125			
Surr: DCAA	0.0058	0.00020	0.005	0	116	40 - 140			

LCSD		Sample ID: LCSD-202991		Units: mg/L		Analysis Date: 08-Nov-2023 12:01			
Client ID:		Run ID: ECD_13_451322		SeqNo: 7662828		PrepDate: 03-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
2,4,5-TP (Silvex)	0.0029	0.00020	0.0025	0	115	40 - 140	0.002837	1.37	30
2,4-D	0.0030	0.00020	0.0025	0	119	20 - 125	0.002635	12.2	30
Surr: DCAA	0.0061	0.00020	0.005	0	123	40 - 140	0.005791	5.98	30

MS		Sample ID: HS23101690-03MS		Units: mg/L		Analysis Date: 08-Nov-2023 11:26			
Client ID:		Run ID: ECD_13_451322		SeqNo: 7662826		PrepDate: 03-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
2,4,5-TP (Silvex)	0.0028	0.00020	0.0025	0	110	40 - 140			
2,4-D	0.0028	0.00020	0.0025	0	113	20 - 125			
Surr: DCAA	0.0058	0.00020	0.005	0	115	40 - 140			

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202992 (0) **Instrument:** ECD_11 **Method:** TCLP ORGANOCHLORINE PESTICIDES BY SW8081B

MBLK		Sample ID: MBLK-202992		Units: mg/L		Analysis Date: 07-Nov-2023 04:02				
Client ID:		Run ID: ECD_11_451131		SeqNo: 7656846		PrepDate: 03-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.00010								
alpha-BHC	U	0.000050								
Chlordane	U	0.00050								
Endrin	U	0.00010								
gamma-BHC	U	0.000050								
Heptachlor	U	0.000050								
Heptachlor epoxide	U	0.000050								
Methoxychlor	U	0.00050								
Toxaphene	U	0.00050								
<i>Surr: Decachlorobiphenyl</i>	<i>0.00015</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>74.6</i>	<i>30 - 150</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00021</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>104</i>	<i>30 - 150</i>				

LCS		Sample ID: LCS-202992		Units: mg/L		Analysis Date: 07-Nov-2023 03:20				
Client ID:		Run ID: ECD_11_451131		SeqNo: 7656844		PrepDate: 03-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00058	0.00010	0.0005	0	116	40 - 140				
alpha-BHC	0.00028	0.000050	0.00025	0	113	50 - 150				
Endrin	0.00060	0.00010	0.0005	0	119	54 - 148				
gamma-BHC	0.00028	0.000050	0.00025	0	111	58 - 130				
Heptachlor	0.00025	0.000050	0.00025	0	102	40 - 140				
Heptachlor epoxide	0.00027	0.000050	0.00025	0	109	40 - 140				
Methoxychlor	0.0024	0.00050	0.0025	0	95.1	50 - 150				
<i>Surr: Decachlorobiphenyl</i>	<i>0.00015</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>77.0</i>	<i>30 - 150</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00021</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>107</i>	<i>30 - 150</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202992 (0) **Instrument:** ECD_11 **Method:** TCLP ORGANOCHLORINE PESTICIDES BY SW8081B

LCSD		Sample ID: LCSD-202992		Units: mg/L		Analysis Date: 07-Nov-2023 03:41				
Client ID:		Run ID: ECD_11_451131		SeqNo: 7656845		PrepDate: 03-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00057	0.00010	0.0005	0	114	40 - 140	0.0005790	1.83	20	
alpha-BHC	0.00027	0.000050	0.00025	0	109	50 - 150	0.0002822	3.41	20	
Endrin	0.00060	0.00010	0.0005	0	120	54 - 148	0.0005954	0.568	20	
gamma-BHC	0.00027	0.000050	0.00025	0	108	58 - 130	0.0002774	3.12	20	
Heptachlor	0.00025	0.000050	0.00025	0	99.9	40 - 140	0.0002547	1.92	20	
Heptachlor epoxide	0.00027	0.000050	0.00025	0	106	40 - 140	0.0002714	2	20	
Methoxychlor	0.0024	0.00050	0.0025	0	97.1	50 - 150	0.002378	2.11	20	
<i>Surr: Decachlorobiphenyl</i>	<i>0.00015</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>74.8</i>	<i>30 - 150</i>	<i>0.0001540</i>	<i>2.92</i>	<i>20</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00021</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>104</i>	<i>30 - 150</i>	<i>0.0002136</i>	<i>3.12</i>	<i>20</i>	

MS		Sample ID: HS23101690-03MS		Units: mg/L		Analysis Date: 07-Nov-2023 23:43				
Client ID:		Run ID: ECD_11_451131		SeqNo: 7660181		PrepDate: 03-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00047	0.00010	0.0005	0	94.4	40 - 140				
alpha-BHC	0.00025	0.000050	0.00025	0	98.9	50 - 150				
Endrin	0.00047	0.00010	0.0005	0	94.6	54 - 148				
gamma-BHC	0.00023	0.000050	0.00025	0	92.6	58 - 130				
Heptachlor	0.00021	0.000050	0.00025	0	84.3	40 - 140				
Heptachlor epoxide	0.00023	0.000050	0.00025	0	91.9	40 - 140				
Methoxychlor	0.0022	0.00050	0.0025	0	86.2	50 - 150				
<i>Surr: Decachlorobiphenyl</i>	<i>0.00012</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>60.5</i>	<i>30 - 150</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00015</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>75.7</i>	<i>30 - 150</i>				

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203094 (0) **Instrument:** ICPMS05 **Method:** METALS BY SW6020A

MBLK Sample ID: **MBLK-203094** Units: **mg/Kg** Analysis Date: **08-Nov-2023 19:50**
 Client ID: Run ID: **ICPMS05_451283** SeqNo: **7662434** PrepDate: **07-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Antimony	U	0.498								
Arsenic	U	0.498								
Barium	U	0.498								
Beryllium	U	0.498								
Cadmium	U	0.498								
Chromium	0.06439	0.498								J
Cobalt	U	0.498								
Copper	U	0.199								
Lead	U	0.498								
Nickel	U	0.498								
Selenium	U	0.498								
Silver	U	0.498								
Thallium	U	0.498								
Tin	U	0.997								
Vanadium	U	0.498								
Zinc	0.3425	0.498								J

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203094 (0)		Instrument: ICPMS05		Method: METALS BY SW6020A						
LCS	Sample ID: LCS-203094	Units: mg/Kg			Analysis Date: 08-Nov-2023 19:52					
Client ID:	Run ID: ICPMS05_451283	SeqNo: 7662435		PrepDate: 07-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	9.526	0.497	9.942	0	95.8	80 - 120				
Arsenic	9.511	0.497	9.942	0	95.7	80 - 120				
Barium	9.592	0.497	9.942	0	96.5	80 - 120				
Beryllium	9.292	0.497	9.942	0	93.5	80 - 120				
Cadmium	9.635	0.497	9.942	0	96.9	80 - 120				
Chromium	9.746	0.497	9.942	0	98.0	80 - 120				
Cobalt	9.801	0.497	9.942	0	98.6	80 - 120				
Copper	9.686	0.199	9.942	0	97.4	80 - 120				
Lead	9.627	0.497	9.942	0	96.8	80 - 120				
Nickel	9.842	0.497	9.942	0	99.0	80 - 120				
Selenium	9.413	0.497	9.942	0	94.7	80 - 120				
Silver	9.767	0.497	9.942	0	98.2	80 - 120				
Thallium	9.125	0.497	9.942	0	91.8	80 - 120				
Tin	10.06	0.994	9.942	0	101	80 - 120				
Vanadium	9.677	0.497	9.942	0	97.3	80 - 120				
Zinc	9.57	0.497	9.942	0	96.3	80 - 120				

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203094 (0)		Instrument: ICPMS05		Method: METALS BY SW6020A						
MS	Sample ID: HS23110194-12MS	Units: mg/Kg			Analysis Date: 08-Nov-2023 19:58					
Client ID:	Run ID: ICPMS05_451283	SeqNo: 7662438	PrepDate: 07-Nov-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	3.132	0.488	9.764	0.1293	30.8	75 - 125				S
Arsenic	10.95	0.488	9.764	1.788	93.8	75 - 125				
Barium	105.9	0.488	9.764	84.78	216	75 - 125				SO
Beryllium	9.695	0.488	9.764	0.4745	94.4	75 - 125				
Cadmium	9.775	0.488	9.764	0.5036	95.0	75 - 125				
Chromium	19.75	0.488	9.764	9.507	105	75 - 125				
Cobalt	13.21	0.488	9.764	3.726	97.1	75 - 125				
Copper	25.1	0.195	9.764	13.66	117	75 - 125				
Lead	71.25	0.488	9.764	43.46	285	75 - 125				SO
Nickel	19.31	0.488	9.764	7.488	121	75 - 125				
Selenium	8.509	0.488	9.764	1.115	75.7	75 - 125				
Silver	9.53	0.488	9.764	0.2613	94.9	75 - 125				
Thallium	8.775	0.488	9.764	0.09374	88.9	75 - 125				
Tin	14.45	0.976	9.764	4.512	102	75 - 125				
Vanadium	21.35	0.488	9.764	11.89	96.9	75 - 125				
Zinc	116	0.488	9.764	174.1	-595	75 - 125				SO

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203094 (0)		Instrument: ICPMS05		Method: METALS BY SW6020A							
MSD	Sample ID: HS23110194-12MSD	Units: mg/Kg			Analysis Date: 08-Nov-2023 20:00						
Client ID:	Run ID: ICPMS05_451283	SeqNo: 7662439	PrepDate: 07-Nov-2023	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	3.037	0.481	9.615	0.1293	30.2	75 - 125	3.132	3.06	20	S	
Arsenic	10.42	0.481	9.615	1.788	89.8	75 - 125	10.95	4.92	20		
Barium	96.57	0.481	9.615	84.78	123	75 - 125	105.9	9.21	20	O	
Beryllium	9.754	0.481	9.615	0.4745	96.5	75 - 125	9.695	0.613	20		
Cadmium	9.785	0.481	9.615	0.5036	96.5	75 - 125	9.775	0.0998	20		
Chromium	19.21	0.481	9.615	9.507	101	75 - 125	19.75	2.8	20		
Cobalt	13.11	0.481	9.615	3.726	97.6	75 - 125	13.21	0.748	20		
Copper	20.77	0.192	9.615	13.66	73.9	75 - 125	25.1	18.9	20	S	
Lead	42.13	0.481	9.615	43.46	-13.9	75 - 125	71.25	51.4	20	SRO	
Nickel	17.04	0.481	9.615	7.488	99.3	75 - 125	19.31	12.5	20		
Selenium	9.161	0.481	9.615	1.115	83.7	75 - 125	8.509	7.37	20		
Silver	9.691	0.481	9.615	0.2613	98.1	75 - 125	9.53	1.68	20		
Thallium	8.961	0.481	9.615	0.09374	92.2	75 - 125	8.775	2.1	20		
Tin	11.68	0.962	9.615	4.512	74.5	75 - 125	14.45	21.2	20	SR	
Vanadium	22.08	0.481	9.615	11.89	106	75 - 125	21.35	3.35	20		
Zinc	94.28	0.481	9.615	174.1	-830	75 - 125	116	20.7	20	SRO	

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QC BATCH REPORT

Batch ID: 203094 (0) **Instrument:** ICPMS05 **Method:** METALS BY SW6020A

PDS		Sample ID: HS23110194-12PDS			Units: mg/Kg		Analysis Date: 08-Nov-2023 20:02			
Client ID:		Run ID: ICPMS05_451283			SeqNo: 7662440		PrepDate: 07-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	8.863	0.469	9.374	0.1293	93.2	75 - 125				
Arsenic	10.85	0.469	9.374	1.788	96.7	75 - 125				
Barium	91.75	0.469	9.374	84.78	74.3	75 - 125				SO
Beryllium	9.615	0.469	9.374	0.4745	97.5	75 - 125				
Cadmium	9.533	0.469	9.374	0.5036	96.3	75 - 125				
Chromium	17.92	0.469	9.374	9.507	89.8	75 - 125				
Cobalt	12.56	0.469	9.374	3.726	94.3	75 - 125				
Copper	21.94	0.187	9.374	13.66	88.3	75 - 125				
Lead	52.16	0.469	9.374	43.46	92.8	75 - 125				O
Nickel	15.78	0.469	9.374	7.488	88.5	75 - 125				
Selenium	10.21	0.469	9.374	1.115	97.0	75 - 125				
Silver	9.062	0.469	9.374	0.2613	93.9	75 - 125				
Thallium	9.118	0.469	9.374	0.09374	96.3	75 - 125				
Tin	13.64	0.937	9.374	4.512	97.4	75 - 125				
Vanadium	20.34	0.469	9.374	11.89	90.2	75 - 125				

PDS		Sample ID: HS23110194-12PDS			Units: mg/Kg		Analysis Date: 09-Nov-2023 11:37			
Client ID:		Run ID: ICPMS05_451363			SeqNo: 7663623		PrepDate: 07-Nov-2023		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	379.9	9.37	187.5	190.7	101	75 - 125				

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Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203094 (0)		Instrument: ICPMS05		Method: METALS BY SW6020A					
SD	Sample ID: HS23110194-12SD	Units: mg/Kg		Analysis Date: 08-Nov-2023 19:56					
Client ID:	Run ID: ICPMS05_451283	SeqNo: 7662437		PrepDate: 07-Nov-2023		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual

Antimony	U	2.34					0.1293	0	10
Arsenic	1.82	2.34					1.788	0	10 J
Barium	83.62	2.34					84.78	1.37	10
Beryllium	0.4657	2.34					0.4745	0	10 J
Cadmium	0.5172	2.34					0.5036	0	10 J
Chromium	9.691	2.34					9.507	1.94	10
Cobalt	3.891	2.34					3.726	4.43	10
Copper	13.95	0.937					13.66	2.08	10
Lead	43.12	2.34					43.46	0.797	10
Nickel	7.405	2.34					7.488	1.11	10
Selenium	1.051	2.34					1.115	0	10 J
Silver	0.2703	2.34					0.2613	0	10 J
Thallium	U	2.34					0.09374	0	10
Tin	4.458	4.69					4.512	0	10 J
Vanadium	11.83	2.34					11.89	0.482	10

SD	Sample ID: HS23110194-12SD	Units: mg/Kg		Analysis Date: 09-Nov-2023 11:35					
Client ID:	Run ID: ICPMS05_451363	SeqNo: 7663622		PrepDate: 07-Nov-2023		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual

Zinc	189.3	46.9					190.7	0.726	10
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The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203230 (0)	Instrument: HG04	Method: MERCURY BY SW7471B
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MBLK	Sample ID: MBLK-203230	Units: mg/Kg	Analysis Date: 10-Nov-2023 12:41							
Client ID:	Run ID: HG04_451510	SeqNo: 7666856	PrepDate: 10-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.00332

LCS	Sample ID: LCS-203230	Units: mg/Kg	Analysis Date: 10-Nov-2023 12:42							
Client ID:	Run ID: HG04_451510	SeqNo: 7666857	PrepDate: 10-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.333 0.00332 0.3333 0 99.8 85 - 115

MS	Sample ID: HS23101921-02MS	Units: mg/Kg	Analysis Date: 10-Nov-2023 12:49							
Client ID:	Run ID: HG04_451510	SeqNo: 7666861	PrepDate: 10-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.328 0.00341 0.342 0.003420 95.0 85 - 115

MSD	Sample ID: HS23101921-02MSD	Units: mg/Kg	Analysis Date: 10-Nov-2023 12:51							
Client ID:	Run ID: HG04_451510	SeqNo: 7666862	PrepDate: 10-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.319 0.00335 0.3354 0.003420 94.2 85 - 115 0.3283 2.78 20

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 203240 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT2-203037	Units: mg/L	Analysis Date: 09-Nov-2023 18:07							
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665071	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 203240 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT4-203185	Units: mg/L	Analysis Date: 09-Nov-2023 18:21							
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665094	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 203240 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT3-202899	Units: mg/L	Analysis Date: 09-Nov-2023 18:09							
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665072	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

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Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203240 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT1-203184	Units: mg/L	Analysis Date: 09-Nov-2023 18:05							
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665070	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

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Date: 15-Dec-23

Client: Environmental Resources Mgmt.
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QC BATCH REPORT

Batch ID: 203240 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A								
MBLK	Sample ID: MBLK-203240	Units: mg/L	Analysis Date: 09-Nov-2023 17:42							
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665037	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Tin	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00500								

LCS	Sample ID: LCS-203240	Units: mg/L	Analysis Date: 09-Nov-2023 17:44							
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665038	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.05112	0.00500	0.05	0	102	80 - 120				
Arsenic	0.05163	0.00500	0.05	0	103	80 - 120				
Barium	0.05374	0.0200	0.05	0	107	80 - 120				
Beryllium	0.04756	0.00200	0.05	0	95.1	80 - 120				
Cadmium	0.05342	0.00500	0.05	0	107	80 - 120				
Chromium	0.05186	0.00500	0.05	0	104	80 - 120				
Cobalt	0.05179	0.00500	0.05	0	104	80 - 120				
Copper	0.05388	0.00200	0.05	0	108	80 - 120				
Lead	0.05099	0.00500	0.05	0	102	80 - 120				
Nickel	0.05266	0.00500	0.05	0	105	80 - 120				
Selenium	0.05257	0.00500	0.05	0	105	80 - 120				
Silver	0.05175	0.00500	0.05	0	104	80 - 120				
Vanadium	0.0523	0.00500	0.05	0	105	80 - 120				
Zinc	0.05262	0.00500	0.05	0	105	80 - 120				

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 203240 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A					
LCS	Sample ID: LCS-203240	Units: mg/L			Analysis Date: 09-Nov-2023 15:10				
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665059		PrepDate: 09-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Tin	0.09636	0.00500	0.1	0	96.4	80 - 120			

MS		Sample ID: HS23110259-01MS		Units: mg/L		Analysis Date: 09-Nov-2023 17:50			
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665041		PrepDate: 09-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Antimony	0.46	0.0500	0.5	0.00135	91.7	80 - 120			
Arsenic	0.4545	0.0500	0.5	0.00028	90.8	80 - 120			
Barium	1.098	0.200	0.5	0.5822	103	80 - 120			
Beryllium	0.4084	0.0200	0.5	0.00038	81.6	80 - 120			
Cadmium	0.4701	0.0500	0.5	0.00219	93.6	80 - 120			
Chromium	0.4544	0.0500	0.5	0.00346	90.2	80 - 120			
Cobalt	0.4537	0.0500	0.5	0.00267	90.2	80 - 120			
Copper	0.4889	0.0200	0.5	0.02166	93.4	80 - 120			
Lead	0.4493	0.0500	0.5	0.00156	89.5	80 - 120			
Nickel	0.8168	0.0500	0.5	0.342	95.0	80 - 120			
Selenium	0.4665	0.0500	0.5	-0.00327	94.0	80 - 120			
Silver	0.4464	0.0500	0.5	0.00011	89.3	80 - 120			
Tin	0.97	0.0500	0.5	0.0002	194	80 - 120			S
Vanadium	0.4512	0.0500	0.5	-0.00123	90.5	80 - 120			
Zinc	4.057	0.0500	0.5	3.389	134	80 - 120			SO

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 203240 (0)		Instrument: ICPMS06			Method: TCLP METALS BY SW6020A					
MSD		Sample ID: HS23110259-01MSD			Units: mg/L		Analysis Date: 09-Nov-2023 17:51			
Client ID:		Run ID: ICPMS06_451362			SeqNo: 7665042		PrepDate: 09-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4551	0.0500	0.5	0.00135	90.7	80 - 120	0.46	1.08	20	
Arsenic	0.4541	0.0500	0.5	0.00028	90.8	80 - 120	0.4545	0.088	20	
Barium	1.051	0.200	0.5	0.5822	93.8	80 - 120	1.098	4.33	20	
Beryllium	0.4062	0.0200	0.5	0.00038	81.2	80 - 120	0.4084	0.533	20	
Cadmium	0.4674	0.0500	0.5	0.00219	93.0	80 - 120	0.4701	0.57	20	
Chromium	0.4492	0.0500	0.5	0.00346	89.2	80 - 120	0.4544	1.14	20	
Cobalt	0.4505	0.0500	0.5	0.00267	89.6	80 - 120	0.4537	0.699	20	
Copper	0.4788	0.0200	0.5	0.02166	91.4	80 - 120	0.4889	2.08	20	
Lead	0.4512	0.0500	0.5	0.00156	89.9	80 - 120	0.4493	0.435	20	
Nickel	0.7803	0.0500	0.5	0.342	87.7	80 - 120	0.8168	4.57	20	
Selenium	0.4666	0.0500	0.5	-0.00327	94.0	80 - 120	0.4665	0.0214	20	
Silver	0.449	0.0500	0.5	0.00011	89.8	80 - 120	0.4464	0.572	20	
Tin	0.966	0.0500	0.5	0.0002	193	80 - 120	0.97	0.42	20	S
Vanadium	0.4467	0.0500	0.5	-0.00123	89.6	80 - 120	0.4512	0.993	20	
Zinc	3.725	0.0500	0.5	3.389	67.3	80 - 120	4.057	8.53	20	SO
PDS		Sample ID: HS23110259-01PDS			Units: mg/L		Analysis Date: 09-Nov-2023 17:53			
Client ID:		Run ID: ICPMS06_451362			SeqNo: 7665043		PrepDate: 09-Nov-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.9095	0.0500	1	0.00135	90.8	75 - 125				
Arsenic	0.9835	0.0500	1	0.00028	98.3	75 - 125				
Barium	1.623	0.200	1	0.5822	104	75 - 125				
Beryllium	0.8816	0.0200	1	0.00038	88.1	75 - 125				
Cadmium	0.9843	0.0500	1	0.00219	98.2	75 - 125				
Chromium	0.9627	0.0500	1	0.00346	95.9	75 - 125				
Cobalt	0.9495	0.0500	1	0.00267	94.7	75 - 125				
Copper	1.01	0.0200	1	0.02166	98.9	75 - 125				
Lead	0.9394	0.0500	1	0.00156	93.8	75 - 125				
Nickel	1.308	0.0500	1	0.342	96.6	75 - 125				
Selenium	1.018	0.0500	1	-0.00327	102	75 - 125				
Silver	0.9373	0.0500	1	0.00011	93.7	75 - 125				
Vanadium	0.9563	0.0500	1	-0.00123	95.8	75 - 125				
Zinc	4.557	0.0500	1	3.389	117	75 - 125				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203240 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A								
PDS	Sample ID: HS23110259-01PDS	Units: mg/L	Analysis Date: 09-Nov-2023 18:13							
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665074	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Tin 0.9999 0.0500 1 0 100.0 75 - 125

SD	Sample ID: HS23110259-01SD	Units: mg/L	Analysis Date: 09-Nov-2023 17:48							
Client ID:	Run ID: ICPMS06_451362	SeqNo: 7665040	PrepDate: 09-Nov-2023 DF: 5							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	U	0.250					0.00135	0	10	
Arsenic	U	0.250					0.00028	0	10	
Barium	0.5795	1.00					0.5822	0	10	J
Beryllium	U	0.100					0.00038	0	10	
Cadmium	U	0.250					0.00219	0	10	
Chromium	U	0.250					0.00346	0	10	
Cobalt	U	0.250					0.00267	0	10	
Copper	U	0.100					0.02166	0	10	
Lead	U	0.250					0.00156	0	10	
Nickel	0.3347	0.250					0.342	2.13	10	
Selenium	U	0.250					-0.00327	0	10	
Silver	U	0.250					0.00011	0	10	
Tin	U	0.250					0.0002	0	10	
Vanadium	U	0.250					-0.00123	0	10	
Zinc	3.393	0.250					3.389	0.107	10	

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203241 (0)	Instrument: ICPMS06	Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A								
MBLK	Sample ID: MBLKT1-203109	Units: mg/L	Analysis Date: 10-Nov-2023 12:58							
Client ID:	Run ID: ICPMS06_451465	SeqNo: 7666338	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Tin	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00500								

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203241 (0)	Instrument: ICPMS06	Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A								
MBLK	Sample ID: MBLK-203241	Units: mg/L	Analysis Date: 10-Nov-2023 13:00							
Client ID:	Run ID: ICPMS06_451465	SeqNo: 7666332	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203241 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
LCS	Sample ID: LCS-203241	Units: mg/L			Analysis Date: 10-Nov-2023 13:02					
Client ID:	Run ID: ICPMS06_451465	SeqNo: 7666333	PrepDate: 09-Nov-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04727	0.00500	0.05	0	94.5	80 - 120				
Arsenic	0.04867	0.00500	0.05	0	97.3	80 - 120				
Barium	0.05046	0.0200	0.05	0	101	80 - 120				
Beryllium	0.04373	0.00200	0.05	0	87.5	80 - 120				
Cadmium	0.05065	0.00500	0.05	0	101	80 - 120				
Chromium	0.04738	0.00500	0.05	0	94.8	80 - 120				
Cobalt	0.04876	0.00500	0.05	0	97.5	80 - 120				
Copper	0.05302	0.00200	0.05	0	106	80 - 120				
Lead	0.04911	0.00500	0.05	0	98.2	80 - 120				
Nickel	0.05942	0.00500	0.05	0	119	80 - 120				
Selenium	0.04882	0.00500	0.05	0	97.6	80 - 120				
Silver	0.05006	0.00500	0.05	0	100	80 - 120				
Tin	0.09926	0.00500	0.1	0	99.3	80 - 120				
Vanadium	0.04804	0.00500	0.05	0	96.1	80 - 120				
Zinc	0.05168	0.00500	0.05	0	103	80 - 120				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203241 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
MS	Sample ID: HS23101863-01MS	Units: mg/L			Analysis Date: 10-Nov-2023 13:09					
Client ID: PTS-04-SL-20231026	Run ID: ICPMS06_451465	SeqNo: 7666336	PrepDate: 09-Nov-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.4946	0.0500	0.5	0.0375	91.4	80 - 120				
Arsenic	0.481	0.0500	0.5	0.01151	93.9	80 - 120				
Barium	0.6614	0.200	0.5	0.1631	99.7	80 - 120				
Beryllium	0.4267	0.0200	0.5	0.00009	85.3	80 - 120				
Cadmium	0.4928	0.0500	0.5	-0.0001	98.6	80 - 120				
Chromium	0.459	0.0500	0.5	0.01722	88.4	80 - 120				
Cobalt	0.4659	0.0500	0.5	0.00408	92.4	80 - 120				
Copper	0.4792	0.0200	0.5	0.00865	94.1	80 - 120				
Lead	0.481	0.0500	0.5	0.0005	96.1	80 - 120				
Nickel	0.4999	0.0500	0.5	0.03241	93.5	80 - 120				
Selenium	0.6377	0.0500	0.5	0.1693	93.7	80 - 120				
Silver	0.4695	0.0500	0.5	0.00018	93.9	80 - 120				
Tin	1.015	0.0500	1	0.0033	101	80 - 120				
Vanadium	0.5928	0.0500	0.5	0.1187	94.8	80 - 120				
Zinc	0.5052	0.0500	0.5	0.02939	95.2	80 - 120				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203241 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
MSD		Sample ID: HS23101863-01MSD		Units: mg/L		Analysis Date: 10-Nov-2023 13:11				
Client ID: PTS-04-SL-20231026		Run ID: ICPMS06_451465		SeqNo: 7666337		PrepDate: 09-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	0.5313	0.0500	0.5	0.0375	98.8	80 - 120	0.4946	7.16	20	
Arsenic	0.5212	0.0500	0.5	0.01151	102	80 - 120	0.481	8.03	20	
Barium	0.703	0.200	0.5	0.1631	108	80 - 120	0.6614	6.1	20	
Beryllium	0.4508	0.0200	0.5	0.00009	90.1	80 - 120	0.4267	5.5	20	
Cadmium	0.5141	0.0500	0.5	-0.0001	103	80 - 120	0.4928	4.24	20	
Chromium	0.4914	0.0500	0.5	0.01722	94.8	80 - 120	0.459	6.83	20	
Cobalt	0.5027	0.0500	0.5	0.00408	99.7	80 - 120	0.4659	7.6	20	
Copper	0.5124	0.0200	0.5	0.00865	101	80 - 120	0.4792	6.7	20	
Lead	0.5162	0.0500	0.5	0.0005	103	80 - 120	0.481	7.04	20	
Nickel	0.5315	0.0500	0.5	0.03241	99.8	80 - 120	0.4999	6.12	20	
Selenium	0.6825	0.0500	0.5	0.1693	103	80 - 120	0.6377	6.79	20	
Silver	0.4957	0.0500	0.5	0.00018	99.1	80 - 120	0.4695	5.44	20	
Tin	1.077	0.0500	1	0.0033	107	80 - 120	1.015	5.9	20	
Vanadium	0.6425	0.0500	0.5	0.1187	105	80 - 120	0.5928	8.04	20	
Zinc	0.5363	0.0500	0.5	0.02939	101	80 - 120	0.5052	5.97	20	

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203241 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
PDS	Sample ID: HS23101863-01PDS	Units: mg/L			Analysis Date: 10-Nov-2023 13:13					
Client ID: PTS-04-SL-20231026	Run ID: ICPMS06_451465	SeqNo: 7666340		PrepDate: 09-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	1.026	0.0500	1	0.0375	98.8	75 - 125				
Arsenic	1.03	0.0500	1	0.01151	102	75 - 125				
Barium	1.207	0.200	1	0.1631	104	75 - 125				
Beryllium	0.9316	0.0200	1	0.00009	93.2	75 - 125				
Cadmium	1.026	0.0500	1	-0.0001	103	75 - 125				
Chromium	0.9598	0.0500	1	0.01722	94.3	75 - 125				
Cobalt	0.9797	0.0500	1	0.00408	97.6	75 - 125				
Copper	1.026	0.0200	1	0.00865	102	75 - 125				
Lead	1.064	0.0500	1	0.0005	106	75 - 125				
Nickel	1.009	0.0500	1	0.03241	97.6	75 - 125				
Selenium	1.116	0.0500	1	0.1693	94.6	75 - 125				
Silver	0.9539	0.0500	1	0.00018	95.4	75 - 125				
Tin	1.021	0.0500	1	0.0033	102	75 - 125				
Vanadium	1.127	0.0500	1	0.1187	101	75 - 125				
Zinc	1.056	0.0500	1	0.02939	103	75 - 125				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203241 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
SD	Sample ID: HS23101863-01SD	Units: mg/L			Analysis Date: 10-Nov-2023 13:06					
Client ID: PTS-04-SL-20231026	Run ID: ICPMS06_451465	SeqNo: 7666335	PrepDate: 09-Nov-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Antimony	0.03848	0.250					0.0375	0	10	J
Arsenic	U	0.250					0.01151	0	10	
Barium	0.1592	1.00					0.1631	0	10	J
Beryllium	U	0.100					0.00009	0	10	
Cadmium	U	0.250					-0.0001	0	10	
Chromium	U	0.250					0.01722	0	10	
Cobalt	U	0.250					0.00408	0	10	
Copper	U	0.100					0.00865	0	10	
Lead	U	0.250					0.0005	0	10	
Nickel	0.03475	0.250					0.03241	0	10	J
Selenium	0.171	0.250					0.1693	0	10	J
Silver	U	0.250					0.00018	0	10	
Tin	U	0.250					0.0033	0	10	
Vanadium	0.0901	0.250					0.1187	0	10	J
Zinc	U	0.250					0.02939	0	10	

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203255 (0)	Instrument: ICPMS06	Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A								
MBLK	Sample ID: MBLKT1-203109	Units: mg/L	Analysis Date: 10-Nov-2023 12:37							
Client ID:	Run ID: ICPMS06_451465	SeqNo: 7666296	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Tin	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00500								

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203255 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
MBLK	Sample ID: MBLK-203255	Units: mg/L			Analysis Date: 10-Nov-2023 12:35					
Client ID:	Run ID: ICPMS06_451465	SeqNo: 7666295	PrepDate: 09-Nov-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Tin	U	0.00500								
Vanadium	U	0.00500								
Zinc	0.003657	0.00500								J

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203255 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
LCS	Sample ID: LCS-203255	Units: mg/L			Analysis Date: 10-Nov-2023 12:39					
Client ID:	Run ID: ICPMS06_451465	SeqNo: 7666297		PrepDate: 09-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	0.04703	0.00500	0.05	0	94.1	80 - 120				
Arsenic	0.04832	0.00500	0.05	0	96.6	80 - 120				
Barium	0.04948	0.0200	0.05	0	99.0	80 - 120				
Beryllium	0.04318	0.00200	0.05	0	86.4	80 - 120				
Cadmium	0.04972	0.00500	0.05	0	99.4	80 - 120				
Chromium	0.04756	0.00500	0.05	0	95.1	80 - 120				
Cobalt	0.04857	0.00500	0.05	0	97.1	80 - 120				
Copper	0.0505	0.00200	0.05	0	101	80 - 120				
Lead	0.04848	0.00500	0.05	0	97.0	80 - 120				
Nickel	0.04962	0.00500	0.05	0	99.2	80 - 120				
Selenium	0.04773	0.00500	0.05	0	95.5	80 - 120				
Silver	0.04913	0.00500	0.05	0	98.3	80 - 120				
Tin	0.09347	0.00500	0.1	0	93.5	80 - 120				
Vanadium	0.04831	0.00500	0.05	0	96.6	80 - 120				
Zinc	0.05015	0.00500	0.05	0	100	80 - 120				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203255 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
MS	Sample ID: HS23101863-02MS	Units: mg/L			Analysis Date: 10-Nov-2023 13:08					
Client ID: DUP-04-SL-20231026	Run ID: ICPMS06_451465	SeqNo: 7666329	PrepDate: 09-Nov-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.0502	0.00500	0.05	0.00172	97.0	80 - 120				
Arsenic	0.0512	0.00500	0.05	0.000927	101	80 - 120				
Barium	0.07307	0.0200	0.05	0.02256	101	80 - 120				
Beryllium	0.04473	0.00200	0.05	0	89.5	80 - 120				
Cadmium	0.05087	0.00500	0.05	0	102	80 - 120				
Chromium	0.04873	0.00500	0.05	0.00061	96.2	80 - 120				
Cobalt	0.05021	0.00500	0.05	0	100	80 - 120				
Copper	0.05065	0.00200	0.05	0	101	80 - 120				
Lead	0.04997	0.00500	0.05	0	99.9	80 - 120				
Nickel	0.0521	0.00500	0.05	0.001447	101	80 - 120				
Selenium	0.05518	0.00500	0.05	0.006468	97.4	80 - 120				
Silver	0.04978	0.00500	0.05	0	99.6	80 - 120				
Tin	0.09031	0.00500	0.1	0	90.3	80 - 120				
Vanadium	0.05009	0.00500	0.05	0.000734	98.7	80 - 120				
Zinc	0.05208	0.00500	0.05	0	104	80 - 120				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203255 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
MSD	Sample ID: HS23101863-02MSD	Units: mg/L			Analysis Date: 10-Nov-2023 12:48					
Client ID: DUP-04-SL-20231026	Run ID: ICPMS06_451465	SeqNo: 7666302	PrepDate: 09-Nov-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05037	0.00500	0.05	0.00172	97.3	80 - 120	0.0502	0.348	20	
Arsenic	0.0509	0.00500	0.05	0.000927	99.9	80 - 120	0.0512	0.586	20	
Barium	0.07572	0.0200	0.05	0.02256	106	80 - 120	0.07307	3.56	20	
Beryllium	0.04483	0.00200	0.05	0	89.7	80 - 120	0.04473	0.226	20	
Cadmium	0.05185	0.00500	0.05	0	104	80 - 120	0.05087	1.91	20	
Chromium	0.04854	0.00500	0.05	0.00061	95.9	80 - 120	0.04873	0.405	20	
Cobalt	0.04958	0.00500	0.05	0	99.2	80 - 120	0.05021	1.26	20	
Copper	0.05068	0.00200	0.05	0	101	80 - 120	0.05065	0.0651	20	
Lead	0.05051	0.00500	0.05	0	101	80 - 120	0.04997	1.08	20	
Nickel	0.05241	0.00500	0.05	0.001447	102	80 - 120	0.0521	0.586	20	
Selenium	0.05488	0.00500	0.05	0.006468	96.8	80 - 120	0.05518	0.547	20	
Silver	0.05021	0.00500	0.05	0	100	80 - 120	0.04978	0.85	20	
Tin	0.0921	0.00500	0.1	0	92.1	80 - 120	0.09031	1.96	20	
Vanadium	0.04969	0.00500	0.05	0.000734	97.9	80 - 120	0.05009	0.794	20	
Zinc	0.05248	0.00500	0.05	0	105	80 - 120	0.05208	0.765	20	

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203255 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
PDS		Sample ID: HS23101863-02PDS		Units: mg/L		Analysis Date: 10-Nov-2023 12:50				
Client ID: DUP-04-SL-20231026		Run ID: ICPMS06_451465		SeqNo: 7666303		PrepDate: 09-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	0.09367	0.00500	0.1	0.00172	92.0	75 - 125				
Arsenic	0.1026	0.00500	0.1	0.000927	102	75 - 125				
Barium	0.1262	0.0200	0.1	0.02256	104	75 - 125				
Beryllium	0.09113	0.00200	0.1	0.000001	91.1	75 - 125				
Cadmium	0.1034	0.00500	0.1	0.000004	103	75 - 125				
Chromium	0.09721	0.00500	0.1	0.00061	96.6	75 - 125				
Cobalt	0.09802	0.00500	0.1	0.000156	97.9	75 - 125				
Copper	0.1012	0.00200	0.1	0.000251	101	75 - 125				
Lead	0.1018	0.00500	0.1	0.000012	102	75 - 125				
Nickel	0.1005	0.00500	0.1	0.001447	99.0	75 - 125				
Selenium	0.1077	0.00500	0.1	0.006468	101	75 - 125				
Silver	0.09961	0.00500	0.1	0.000008	99.6	75 - 125				
Tin	0.1013	0.00500	0.1	-0.000003	101	75 - 125				
Vanadium	0.09915	0.00500	0.1	0.000734	98.4	75 - 125				
Zinc	0.1043	0.00500	0.1	0.001232	103	75 - 125				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203255 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
SD	Sample ID: HS23101863-02SD	Units: mg/L			Analysis Date: 10-Nov-2023 12:44					
Client ID: DUP-04-SL-20231026	Run ID: ICPMS06_451465	SeqNo: 7666300	PrepDate: 09-Nov-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual	
Antimony	U	0.0250					0.00172	0	10	
Arsenic	U	0.0250					0.000927	0	10	
Barium	0.02304	0.100					0.02256	0	10 J	
Beryllium	U	0.0100					0.000001	0	10	
Cadmium	U	0.0250					0.000004	0	10	
Chromium	U	0.0250					0.00061	0	10	
Cobalt	U	0.0250					0.000156	0	10	
Copper	U	0.0100					0.000251	0	10	
Lead	U	0.0250					0.000012	0	10	
Nickel	U	0.0250					0.001447	0	10	
Selenium	0.005878	0.0250					0.006468	0	10 J	
Silver	U	0.0250					0.000008	0	10	
Tin	U	0.0250					-0.000003	0	10	
Vanadium	U	0.0250					0.000734	0	10	
Zinc	U	0.0250					0.001232	0	10	

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203262 (0)	Instrument: HG04	Method: TCLP MERCURY BY SW7470A
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MBLK	Sample ID: MBLKT2-203181	Units: mg/L	Analysis Date: 09-Nov-2023 14:26							
Client ID:	Run ID: HG04_451411	SeqNo: 7664329	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT4-202898	Units: mg/L	Analysis Date: 09-Nov-2023 14:30							
Client ID:	Run ID: HG04_451411	SeqNo: 7664331	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT3-203035	Units: mg/L	Analysis Date: 09-Nov-2023 14:28							
Client ID:	Run ID: HG04_451411	SeqNo: 7664330	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT1-203182	Units: mg/L	Analysis Date: 09-Nov-2023 14:24							
Client ID:	Run ID: HG04_451411	SeqNo: 7664328	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLK-203262	Units: mg/L	Analysis Date: 09-Nov-2023 14:14							
Client ID:	Run ID: HG04_451411	SeqNo: 7664324	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

LCS	Sample ID: LCS-203262	Units: mg/L	Analysis Date: 09-Nov-2023 14:16							
Client ID:	Run ID: HG04_451411	SeqNo: 7664325	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00549 0.000200 0.005 0 110 80 - 120

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203262 (0) **Instrument:** HG04 **Method:** TCLP MERCURY BY SW7470A

MS	Sample ID: HS23110182-15MS	Units: mg/L			Analysis Date: 09-Nov-2023 15:00				
Client ID:	Run ID: HG04_451411	SeqNo: 7664341		PrepDate: 09-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Mercury 0.00533 0.000200 0.005 -0.000021 107 75 - 125

MSD	Sample ID: HS23110182-15MSD	Units: mg/L			Analysis Date: 09-Nov-2023 15:04				
Client ID:	Run ID: HG04_451411	SeqNo: 7664342		PrepDate: 09-Nov-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Mercury 0.00538 0.000200 0.005 -0.000021 108 75 - 125 0.00533 0.934 20

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203289 (0)		Instrument: HG04		Method: TCLP MERCURY AT PH 10 BY SW7470A						
MBLK	Sample ID: MBLKT1-203111	Units: mg/L			Analysis Date: 09-Nov-2023 18:38					
Client ID:	Run ID: HG04_451411	SeqNo: 7665188		PrepDate: 09-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual		
Mercury	U	0.000200								
MBLK	Sample ID: MBLK-203289	Units: mg/L			Analysis Date: 09-Nov-2023 18:33					
Client ID:	Run ID: HG04_451411	SeqNo: 7665186		PrepDate: 09-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual		
Mercury	U	0.000200								
LCS	Sample ID: LCS-203289	Units: mg/L			Analysis Date: 09-Nov-2023 18:37					
Client ID:	Run ID: HG04_451411	SeqNo: 7665187		PrepDate: 09-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual		
Mercury	0.0055	0.000200	0.005	0	110	80 - 124				
MS	Sample ID: HS23101863-01MS	Units: mg/L			Analysis Date: 09-Nov-2023 18:44					
Client ID: PTS-04-SL-20231026	Run ID: HG04_451411	SeqNo: 7665190		PrepDate: 09-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual		
Mercury	0.00549	0.000200	0.005	-0.000021	110	80 - 124				
MSD	Sample ID: HS23101863-01MSD	Units: mg/L			Analysis Date: 09-Nov-2023 18:48					
Client ID: PTS-04-SL-20231026	Run ID: HG04_451411	SeqNo: 7665191		PrepDate: 09-Nov-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual		
Mercury	0.00524	0.000200	0.005	-0.000021	105	80 - 124	0.00549	4.66 20		

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203290 (0) **Instrument:** HG04 **Method:** TCLP MERCURY AT PH 7 BY SW7470A

MBLK Sample ID: **MBLKT1-203107** Units: **mg/L** Analysis Date: **09-Nov-2023 19:02**
 Client ID: Run ID: **HG04_451411** SeqNo: **7665197** PrepDate: **09-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury U 0.000200

MBLK Sample ID: **MBLK-203290** Units: **mg/L** Analysis Date: **09-Nov-2023 18:56**
 Client ID: Run ID: **HG04_451411** SeqNo: **7665195** PrepDate: **09-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury U 0.000200

LCS Sample ID: **LCS-203290** Units: **mg/L** Analysis Date: **09-Nov-2023 19:00**
 Client ID: Run ID: **HG04_451411** SeqNo: **7665196** PrepDate: **09-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00541 0.000200 0.005 0 108 80 - 124

MS Sample ID: **HS23101863-01MS** Units: **mg/L** Analysis Date: **09-Nov-2023 19:07**
 Client ID: **PTS-04-SL-20231026** Run ID: **HG04_451411** SeqNo: **7665199** PrepDate: **09-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00558 0.000200 0.005 -0.000026 112 80 - 124

MSD Sample ID: **HS23101863-01MSD** Units: **mg/L** Analysis Date: **09-Nov-2023 19:09**
 Client ID: **PTS-04-SL-20231026** Run ID: **HG04_451411** SeqNo: **7665200** PrepDate: **09-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00495 0.000200 0.005 -0.000026 99.5 80 - 124 0.00558 12 20

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202714 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MBLK	Sample ID: MBLK-202714	Units: mg/Kg			Analysis Date: 03-Nov-2023 14:37					
Client ID:	Run ID: SV-4_450884	SeqNo: 7668337	PrepDate: 30-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	0.17								
2,4,6-Trichlorophenol	U	0.17								
2,4-Dinitrotoluene	U	0.17								
2-Methylnaphthalene	U	0.17								
2-Methylphenol	U	0.17								
3&4-Methylphenol	U	0.17								
Acenaphthene	U	0.17								
Anthracene	U	0.17								
Benz(a)anthracene	U	0.17								
Benzo(a)pyrene	U	0.17								
Benzo(b)fluoranthene	U	0.17								
Benzo(g,h,i)perylene	U	0.17								
Benzo(k)fluoranthene	U	0.17								
Bis(2-ethylhexyl)phthalate	U	0.17								
Chrysene	U	0.17								
Di-n-butyl phthalate	U	0.17								
Fluorene	U	0.17								
Hexachlorobenzene	U	0.17								
Hexachlorobutadiene	U	0.17								
Hexachloroethane	U	0.17								
Naphthalene	U	0.17								
Nitrobenzene	U	0.17								
Pentachlorophenol	U	0.17								
Phenanthrene	U	0.17								
Phenol	U	0.17								
Pyrene	U	0.17								
Pyridine	U	0.17								
Cresols, Total	U	0.17								
Surr: 2,4,6-Tribromophenol	2.0	0.17	3.333	0	59.2	36 - 126				
Surr: 2-Fluorobiphenyl	2.7	0.17	3.333	0	81.3	43 - 125				
Surr: 2-Fluorophenol	2.2	0.17	3.333	0	64.6	37 - 125				
Surr: 4-Terphenyl-d14	2.6	0.17	3.333	0	77.6	32 - 125				
Surr: Nitrobenzene-d5	3.0	0.17	3.333	0	91.4	37 - 125				
Surr: Phenol-d6	2.5	0.17	3.333	0	75.3	40 - 125				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202714 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-202714	Units: mg/Kg			Analysis Date: 03-Nov-2023 14:59					
Client ID:	Run ID: SV-4_450884	SeqNo: 7668338		PrepDate: 30-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	2.0	0.17	3.333	0	58.9	55 - 120				
2,4,6-Trichlorophenol	1.9	0.17	3.333	0	57.5	55 - 120				
2,4-Dinitrotoluene	0.97	0.17	1.667	0	58.1	55 - 125				
2-Methylnaphthalene	1.0	0.17	1.667	0	62.7	55 - 120				
2-Methylphenol	2.2	0.17	3.333	0	65.0	55 - 120				
3&4-Methylphenol	3.2	0.17	5	0	64.8	55 - 120				
Acenaphthene	1.1	0.17	1.667	0	64.4	55 - 120				
Anthracene	1.1	0.17	1.667	0	66.4	55 - 120				
Benz(a)anthracene	1.1	0.17	1.667	0	63.6	55 - 125				
Benzo(a)pyrene	1.2	0.17	1.667	0	70.5	55 - 120				
Benzo(b)fluoranthene	0.94	0.17	1.667	0	56.5	55 - 125				
Benzo(g,h,i)perylene	1.0	0.17	1.667	0	62.9	55 - 120				
Benzo(k)fluoranthene	1.2	0.17	1.667	0	73.4	55 - 130				
Bis(2-ethylhexyl)phthalate	1.1	0.17	1.667	0	67.0	55 - 125				
Chrysene	1.1	0.17	1.667	0	64.5	55 - 125				
Di-n-butyl phthalate	1.1	0.17	1.667	0	66.0	55 - 125				
Fluorene	1.0	0.17	1.667	0	61.5	55 - 120				
Hexachlorobenzene	1.0	0.17	1.667	0	60.5	55 - 120				
Hexachlorobutadiene	0.95	0.17	1.667	0	57.2	55 - 120				
Hexachloroethane	1.0	0.17	1.667	0	62.7	55 - 120				
Naphthalene	1.1	0.17	1.667	0	63.5	55 - 120				
Nitrobenzene	1.2	0.17	1.667	0	70.5	55 - 120				
Pentachlorophenol	1.9	0.17	3.333	0	55.9	50 - 135				
Phenanthrene	1.1	0.17	1.667	0	65.2	55 - 120				
Phenol	2.3	0.17	3.333	0	68.5	50 - 120				
Pyrene	1.2	0.17	1.667	0	69.0	55 - 125				
Pyridine	0.84	0.17	1.667	0	50.2	30 - 120				
Cresols, Total	5.4	0.17	8.333	0	64.9	55 - 120				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1.7</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>50.9</i>	<i>36 - 126</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>2.2</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>65.8</i>	<i>43 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>2.1</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>61.7</i>	<i>37 - 125</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>2.2</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>66.5</i>	<i>32 - 125</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>2.5</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>74.6</i>	<i>37 - 125</i>				
<i>Surr: Phenol-d6</i>	<i>2.3</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>69.4</i>	<i>40 - 125</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202714 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCSD		Sample ID: LCSD-202714		Units: mg/Kg		Analysis Date: 03-Nov-2023 15:21				
Client ID:		Run ID: SV-4_450884		SeqNo: 7668339		PrepDate: 30-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	2.6	0.17	3.333	0	76.9	55 - 120	1.964	26.5	30	
2,4,6-Trichlorophenol	2.5	0.17	3.333	0	74.4	55 - 120	1.915	25.7	30	
2,4-Dinitrotoluene	1.3	0.17	1.667	0	76.2	55 - 125	0.9685	26.9	30	
2-Methylnaphthalene	1.4	0.17	1.667	0	83.1	55 - 120	1.046	27.9	30	
2-Methylphenol	2.9	0.17	3.333	0	87.5	55 - 120	2.166	29.5	30	
3&4-Methylphenol	3.1	0.17	5	0	61.2	55 - 120	3.242	5.73	30	
Acenaphthene	1.4	0.17	1.667	0	83.0	55 - 120	1.073	25.3	30	
Anthracene	1.5	0.17	1.667	0	88.0	55 - 120	1.107	28	30	
Benz(a)anthracene	1.4	0.17	1.667	0	82.4	55 - 125	1.060	25.8	30	
Benzo(a)pyrene	1.5	0.17	1.667	0	91.4	55 - 120	1.176	25.8	30	
Benzo(b)fluoranthene	1.3	0.17	1.667	0	80.0	55 - 125	0.9424	34.4	30 R	
Benzo(g,h,i)perylene	1.4	0.17	1.667	0	82.4	55 - 120	1.049	26.8	30	
Benzo(k)fluoranthene	1.5	0.17	1.667	0	90.5	55 - 130	1.223	20.9	30	
Bis(2-ethylhexyl)phthalate	1.4	0.17	1.667	0	84.1	55 - 125	1.117	22.6	30	
Chrysene	1.4	0.17	1.667	0	83.9	55 - 125	1.076	26.1	30	
Di-n-butyl phthalate	1.4	0.17	1.667	0	86.3	55 - 125	1.100	26.7	30	
Fluorene	1.3	0.17	1.667	0	79.9	55 - 120	1.025	26.1	30	
Hexachlorobenzene	1.3	0.17	1.667	0	80.4	55 - 120	1.008	28.3	30	
Hexachlorobutadiene	1.2	0.17	1.667	0	74.3	55 - 120	0.9541	25.9	30	
Hexachloroethane	1.4	0.17	1.667	0	82.5	55 - 120	1.045	27.3	30	
Naphthalene	1.4	0.17	1.667	0	82.9	55 - 120	1.059	26.4	30	
Nitrobenzene	1.6	0.17	1.667	0	93.1	55 - 120	1.176	27.6	30	
Pentachlorophenol	2.5	0.17	3.333	0	75.7	50 - 135	1.862	30.1	30 R	
Phenanthrene	1.4	0.17	1.667	0	85.5	55 - 120	1.088	26.9	30	
Phenol	3.0	0.17	3.333	0	90.1	50 - 120	2.283	27.3	30	
Pyrene	1.5	0.17	1.667	0	88.4	55 - 125	1.151	24.6	30	
Pyridine	1.1	0.17	1.667	0	67.7	30 - 120	0.8361	29.8	30	
Cresols, Total	6.0	0.17	8.333	0	71.7	55 - 120	5.408	10	30	
Surr: 2,4,6-Tribromophenol	2.2	0.17	3.333	0	67.1	36 - 126	1.698	27.4	30	
Surr: 2-Fluorobiphenyl	2.8	0.17	3.333	0	84.0	43 - 125	2.192	24.4	30	
Surr: 2-Fluorophenol	2.7	0.17	3.333	0	81.6	37 - 125	2.057	27.7	30	
Surr: 4-Terphenyl-d14	2.8	0.17	3.333	0	83.6	32 - 125	2.218	22.8	30	
Surr: Nitrobenzene-d5	3.3	0.17	3.333	0	99.0	37 - 125	2.488	28	30	
Surr: Phenol-d6	3.1	0.17	3.333	0	91.6	40 - 125	2.314	27.5	30	

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202714 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILES

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202996 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MBLK	Sample ID: MBLK-202996	Units: mg/L			Analysis Date: 04-Nov-2023 13:36					
Client ID:	Run ID: SV-4_450944	SeqNo: 7668289	PrepDate: 03-Nov-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	0.0050								
2,4,6-Trichlorophenol	U	0.0050								
2,4-Dinitrotoluene	U	0.0050								
2-Methylnaphthalene	U	0.0050								
2-Methylphenol	U	0.0050								
3&4-Methylphenol	U	0.0050								
Acenaphthene	U	0.0050								
Anthracene	U	0.0050								
Benz(a)anthracene	U	0.0050								
Benzo(a)pyrene	U	0.0050								
Benzo(b)fluoranthene	U	0.0050								
Benzo(g,h,i)perylene	U	0.0050								
Benzo(k)fluoranthene	U	0.0050								
Bis(2-ethylhexyl)phthalate	U	0.0050								
Chrysene	U	0.0050								
Di-n-butyl phthalate	U	0.0050								
Fluorene	U	0.0050								
Hexachlorobenzene	U	0.0050								
Hexachlorobutadiene	U	0.0050								
Hexachloroethane	U	0.0050								
Naphthalene	U	0.0050								
Nitrobenzene	U	0.0050								
Pentachlorophenol	U	0.0050								
Phenanthrene	U	0.0050								
Phenol	U	0.0050								
Pyrene	U	0.0050								
Pyridine	U	0.0050								
Cresols, Total	U	0.0050								
Surr: 2,4,6-Tribromophenol	0.053	0.0050	0.1	0	53.1	39 - 153				
Surr: 2-Fluorobiphenyl	0.071	0.0050	0.1	0	71.3	40 - 147				
Surr: 2-Fluorophenol	0.062	0.0050	0.1	0	62.5	21 - 110				
Surr: 4-Terphenyl-d14	0.071	0.0050	0.1	0	70.7	39 - 141				
Surr: Nitrobenzene-d5	0.082	0.0050	0.1	0	81.9	37 - 140				
Surr: Phenol-d6	0.065	0.0050	0.1	0	65.4	11 - 110				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202996 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-202996	Units: mg/L			Analysis Date: 04-Nov-2023 11:50					
Client ID:	Run ID: SV-4_450944	SeqNo: 7668287	PrepDate: 03-Nov-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	0.066	0.0050	0.1	0	65.5	55 - 120				
2,4,6-Trichlorophenol	0.065	0.0050	0.1	0	65.0	55 - 120				
2,4-Dinitrotoluene	0.037	0.0050	0.05	0	74.6	55 - 125				
2-Methylnaphthalene	0.037	0.0050	0.05	0	73.5	55 - 120				
2-Methylphenol	0.077	0.0050	0.1	0	77.1	55 - 120				
3&4-Methylphenol	0.14	0.0050	0.15	0	93.9	55 - 120				
Acenaphthene	0.037	0.0050	0.05	0	73.8	55 - 120				
Anthracene	0.040	0.0050	0.05	0	80.4	55 - 120				
Benz(a)anthracene	0.037	0.0050	0.05	0	74.7	55 - 125				
Benzo(a)pyrene	0.041	0.0050	0.05	0	81.2	55 - 120				
Benzo(b)fluoranthene	0.036	0.0050	0.05	0	71.1	55 - 125				
Benzo(g,h,i)perylene	0.037	0.0050	0.05	0	73.8	55 - 120				
Benzo(k)fluoranthene	0.040	0.0050	0.05	0	79.7	55 - 130				
Bis(2-ethylhexyl)phthalate	0.039	0.0050	0.05	0	77.2	55 - 125				
Chrysene	0.038	0.0050	0.05	0	76.5	55 - 125				
Di-n-butyl phthalate	0.040	0.0050	0.05	0	80.1	55 - 125				
Fluorene	0.037	0.0050	0.05	0	73.2	55 - 120				
Hexachlorobenzene	0.036	0.0050	0.05	0	71.9	55 - 120				
Hexachlorobutadiene	0.032	0.0050	0.05	0	63.6	55 - 120				
Hexachloroethane	0.036	0.0050	0.05	0	71.8	55 - 120				
Naphthalene	0.036	0.0050	0.05	0	71.3	55 - 120				
Nitrobenzene	0.041	0.0050	0.05	0	82.5	55 - 120				
Pentachlorophenol	0.070	0.0050	0.1	0	69.6	50 - 135				
Phenanthrene	0.038	0.0050	0.05	0	76.4	55 - 120				
Phenol	0.080	0.0050	0.1	0	79.5	50 - 120				
Pyrene	0.039	0.0050	0.05	0	78.8	55 - 125				
Pyridine	0.030	0.0050	0.05	0	60.1	30 - 120				
Cresols, Total	0.22	0.0050	0.25	0	87.2	48 - 115				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.060</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>60.5</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.068</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>68.3</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.064</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>63.9</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.071</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>71.3</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.082</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>81.9</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.075</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>74.6</i>	<i>11 - 110</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202996 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCSD		Sample ID: LCSD-202996		Units: mg/L		Analysis Date: 04-Nov-2023 12:11				
Client ID:		Run ID: SV-4_450944		SeqNo: 7668288		PrepDate: 03-Nov-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	0.066	0.0050	0.1	0	66.4	55 - 120	0.06551	1.35	30	
2,4,6-Trichlorophenol	0.066	0.0050	0.1	0	65.8	55 - 120	0.06503	1.21	30	
2,4-Dinitrotoluene	0.035	0.0050	0.05	0	69.2	55 - 125	0.03732	7.6	30	
2-Methylnaphthalene	0.035	0.0050	0.05	0	70.7	55 - 120	0.03675	3.82	30	
2-Methylphenol	0.073	0.0050	0.1	0	73.2	55 - 120	0.07712	5.26	30	
3&4-Methylphenol	0.13	0.0050	0.15	0	88.5	55 - 120	0.1409	5.98	30	
Acenaphthene	0.037	0.0050	0.05	0	73.9	55 - 120	0.03689	0.222	30	
Anthracene	0.040	0.0050	0.05	0	79.2	55 - 120	0.04019	1.46	30	
Benz(a)anthracene	0.037	0.0050	0.05	0	74.5	55 - 125	0.03736	0.325	30	
Benzo(a)pyrene	0.041	0.0050	0.05	0	81.3	55 - 120	0.04058	0.235	30	
Benzo(b)fluoranthene	0.041	0.0050	0.05	0	81.9	55 - 125	0.03555	14.1	30	
Benzo(g,h,i)perylene	0.037	0.0050	0.05	0	73.1	55 - 120	0.03689	0.894	30	
Benzo(k)fluoranthene	0.039	0.0050	0.05	0	78.6	55 - 130	0.03983	1.36	30	
Bis(2-ethylhexyl)phthalate	0.038	0.0050	0.05	0	76.4	55 - 125	0.03862	1.15	30	
Chrysene	0.038	0.0050	0.05	0	76.6	55 - 125	0.03824	0.172	30	
Di-n-butyl phthalate	0.039	0.0050	0.05	0	78.4	55 - 125	0.04004	2.1	30	
Fluorene	0.035	0.0050	0.05	0	70.9	55 - 120	0.03660	3.17	30	
Hexachlorobenzene	0.037	0.0050	0.05	0	73.4	55 - 120	0.03596	2	30	
Hexachlorobutadiene	0.033	0.0050	0.05	0	65.6	55 - 120	0.03180	3.07	30	
Hexachloroethane	0.036	0.0050	0.05	0	72.6	55 - 120	0.03590	1.07	30	
Naphthalene	0.036	0.0050	0.05	0	71.9	55 - 120	0.03565	0.797	30	
Nitrobenzene	0.041	0.0050	0.05	0	82.6	55 - 120	0.04127	0.0644	30	
Pentachlorophenol	0.071	0.0050	0.1	0	71.0	50 - 135	0.06955	2.07	30	
Phenanthrene	0.038	0.0050	0.05	0	75.7	55 - 120	0.03821	0.908	30	
Phenol	0.079	0.0050	0.1	0	78.7	50 - 120	0.07952	0.984	30	
Pyrene	0.039	0.0050	0.05	0	78.5	55 - 125	0.03939	0.315	30	
Pyridine	0.030	0.0050	0.05	0	59.6	30 - 120	0.03007	0.851	30	
Cresols, Total	0.21	0.0050	0.25	0	82.3	48 - 115	0.2180	5.72	30	
Surr: 2,4,6-Tribromophenol	0.057	0.0050	0.1	0	57.1	39 - 153	0.06047	5.69	30	
Surr: 2-Fluorobiphenyl	0.070	0.0050	0.1	0	70.5	40 - 147	0.06835	3.05	30	
Surr: 2-Fluorophenol	0.064	0.0050	0.1	0	63.9	21 - 110	0.06393	0.0346	30	
Surr: 4-Terphenyl-d14	0.071	0.0050	0.1	0	71.4	39 - 141	0.07130	0.103	30	
Surr: Nitrobenzene-d5	0.082	0.0050	0.1	0	82.2	37 - 140	0.08192	0.33	30	
Surr: Phenol-d6	0.073	0.0050	0.1	0	72.9	11 - 110	0.07459	2.32	30	

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202996 (1) **Instrument:** SV-4 **Method:** TCLP SEMIVOLATILES

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202923 (0)		Instrument: VOA13		Method: TCLP VOLATILES BY SW8260C					
MBLK	Sample ID: MBLK-202923	Units: mg/L			Analysis Date: 03-Nov-2023 15:01				
Client ID:	Run ID: VOA13_450848	SeqNo: 7652197		PrepDate: 02-Nov-2023		DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,1-Dichloroethene	U	0.10							
1,2-Dichloroethane	U	0.10							
1,4-Dichlorobenzene	U	0.10							
2-Butanone	U	0.20							
Acetone	U	0.20							
Benzene	U	0.10							
Carbon tetrachloride	U	0.10							
Chlorobenzene	U	0.10							
Chloroform	U	0.10							
Ethyl methacrylate	U	0.10							
Ethylbenzene	U	0.10							
Tetrachloroethene	U	0.10							
Toluene	U	0.10							
Trichloroethene	U	0.10							
Vinyl chloride	U	0.040							
Xylenes, Total	U	0.10							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1.1</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>114</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>105</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1.2</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>117</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>102</i>	<i>81 - 120</i>			

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202923 (0) **Instrument:** VOA13 **Method:** TCLP VOLATILES BY SW8260C

LCS		Sample ID: VLCSW-231103			Units: mg/L		Analysis Date: 03-Nov-2023 09:56			
Client ID:		Run ID: VOA13_450848			SeqNo: 7650435		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.019	0.0050	0.02	0	95.4	70 - 130				
1,2-Dichloroethane	0.015	0.0050	0.02	0	75.8	70 - 124				
1,4-Dichlorobenzene	0.019	0.0050	0.02	0	96.4	79 - 113				
2-Butanone	0.041	0.010	0.04	0	101	70 - 130				
Acetone	0.035	0.010	0.04	0	87.2	70 - 130				
Benzene	0.018	0.0050	0.02	0	87.7	74 - 120				
Carbon tetrachloride	0.020	0.0050	0.02	0	97.5	71 - 125				
Chlorobenzene	0.018	0.0050	0.02	0	88.5	76 - 113				
Chloroform	0.019	0.0050	0.02	0	94.4	71 - 121				
Ethyl methacrylate	0.017	0.0050	0.02	0	86.9	65 - 135				
Ethylbenzene	0.018	0.0050	0.02	0	91.8	77 - 117				
Tetrachloroethene	0.021	0.0050	0.02	0	103	76 - 119				
Toluene	0.018	0.0050	0.02	0	91.3	77 - 118				
Trichloroethene	0.019	0.0050	0.02	0	93.9	77 - 121				
Vinyl chloride	0.020	0.0020	0.02	0	102	70 - 130				
Xylenes, Total	0.056	0.0050	0.06	0	94.0	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.053</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>106</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.053</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>106</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.052</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>105</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.053</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>106</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202923 (0) **Instrument:** VOA13 **Method:** TCLP VOLATILES BY SW8260C

MS	Sample ID: HS23110034-07MS	Units: mg/L			Analysis Date: 03-Nov-2023 12:18					
Client ID:	Run ID: VOA13_450848	SeqNo: 7650438	PrepDate:	DF: 50						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.81	0.25	1	0	80.6	70 - 130				
1,2-Dichloroethane	0.81	0.25	1	0	80.9	70 - 127				
1,4-Dichlorobenzene	0.82	0.25	1	0	81.8	70 - 114				
2-Butanone	1.7	0.50	2	0	86.6	70 - 130				
Acetone	1.3	0.50	2	0	67.0	70 - 130				S
Benzene	0.80	0.25	1	0	79.7	70 - 127				
Carbon tetrachloride	0.90	0.25	1	0	90.4	70 - 130				
Chlorobenzene	0.76	0.25	1	0	75.8	70 - 114				
Chloroform	0.79	0.25	1	0	79.1	70 - 125				
Ethyl methacrylate	0.75	0.25	1	0	74.6	70 - 130				
Ethylbenzene	0.76	0.25	1	0	75.9	70 - 124				
Tetrachloroethene	0.88	0.25	1	0	88.4	70 - 130				
Toluene	0.79	0.25	1	0	79.0	70 - 123				
Trichloroethene	0.86	0.25	1	0	85.8	70 - 129				
Vinyl chloride	0.70	0.10	1	0	70.1	70 - 130				
Xylenes, Total	2.4	0.25	3	0	80.4	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	2.7	0.25	2.5	0	107	70 - 126				
<i>Surr: 4-Bromofluorobenzene</i>	2.6	0.25	2.5	0	105	82 - 124				
<i>Surr: Dibromofluoromethane</i>	2.5	0.25	2.5	0	99.3	77 - 123				
<i>Surr: Toluene-d8</i>	2.5	0.25	2.5	0	101	82 - 127				

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450583 (0)	Instrument: VOA5	Method: VOLATILES BY SW8260C
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MBLK	Sample ID: VBLKS1-103123	Units: mg/Kg	Analysis Date: 01-Nov-2023 09:42							
Client ID:	Run ID: VOA5_450583	SeqNo: 7644258	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

1,1-Dichloroethene	U	0.0050								
1,2-Dichloroethane	U	0.0050								
1,4-Dichlorobenzene	U	0.0050								
2-Butanone	U	0.010								
Acetone	U	0.020								
Benzene	U	0.0050								
Carbon tetrachloride	U	0.0050								
Chlorobenzene	U	0.0050								
Chloroform	U	0.0050								
Ethyl methacrylate	U	0.0050								
Ethylbenzene	U	0.0050								
Tetrachloroethene	U	0.0050								
Toluene	U	0.0050								
Trichloroethene	U	0.0050								
Vinyl chloride	U	0.0050								
Xylenes, Total	U	0.015								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.053</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>106</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.046</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>91.5</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>98.2</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>0.046</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>92.8</i>	<i>81 - 118</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450583 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

LCS		Sample ID: VLCSS1-110123			Units: mg/Kg		Analysis Date: 01-Nov-2023 08:37			
Client ID:		Run ID: VOA5_450583			SeqNo: 7644257		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.048	0.0050	0.05	0	95.8	72 - 130				
1,2-Dichloroethane	0.049	0.0050	0.05	0	98.5	77 - 120				
1,4-Dichlorobenzene	0.045	0.0050	0.05	0	89.5	78 - 120				
2-Butanone	0.097	0.010	0.1	0	96.7	70 - 128				
Acetone	0.10	0.020	0.1	0	104	70 - 130				
Benzene	0.049	0.0050	0.05	0	98.5	75 - 124				
Carbon tetrachloride	0.048	0.0050	0.05	0	96.3	72 - 128				
Chlorobenzene	0.044	0.0050	0.05	0	89.0	78 - 122				
Chloroform	0.054	0.0050	0.05	0	108	73 - 127				
Ethyl methacrylate	0.047	0.0050	0.05	0	94.3	72 - 128				
Ethylbenzene	0.043	0.0050	0.05	0	85.4	70 - 123				
Tetrachloroethene	0.042	0.0050	0.05	0	84.6	70 - 130				
Toluene	0.045	0.0050	0.05	0	89.8	76 - 122				
Trichloroethene	0.046	0.0050	0.05	0	91.9	78 - 125				
Vinyl chloride	0.040	0.0050	0.05	0	80.0	70 - 130				
Xylenes, Total	0.13	0.015	0.15	0	84.6	77 - 128				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.058</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>115</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.048</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>95.8</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.053</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>106</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>0.044</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>88.0</i>	<i>81 - 118</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450583 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

MS	Sample ID: HS23101854-01MS	Units: mg/Kg			Analysis Date: 01-Nov-2023 12:12					
Client ID:	Run ID: VOA5_450583	SeqNo: 7644584	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.049	0.0048	0.0485	0	101	70 - 130				
1,2-Dichloroethane	0.050	0.0048	0.0485	0	103	70 - 130				
1,4-Dichlorobenzene	0.049	0.0048	0.0485	0	101	70 - 130				
2-Butanone	0.068	0.0097	0.097	0	70.0	70 - 130				
Acetone	0.077	0.019	0.097	0	79.1	70 - 130				
Benzene	0.053	0.0048	0.0485	0	110	70 - 130				
Carbon tetrachloride	0.049	0.0048	0.0485	0	100	70 - 130				
Chlorobenzene	0.050	0.0048	0.0485	0	103	70 - 130				
Chloroform	0.055	0.0048	0.0485	0	112	70 - 130				
Ethyl methacrylate	0.045	0.0048	0.0485	0	93.3	72 - 128				
Ethylbenzene	0.048	0.0048	0.0485	0	99.6	70 - 130				
Tetrachloroethene	0.048	0.0048	0.0485	0	98.6	70 - 130				
Toluene	0.053	0.0048	0.0485	0	109	70 - 130				
Trichloroethene	0.049	0.0048	0.0485	0	102	70 - 130				
Vinyl chloride	0.042	0.0048	0.0485	0	87.6	70 - 130				
Xylenes, Total	0.15	0.015	0.1455	0	99.9	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.049</i>	<i>0</i>	<i>0.0485</i>	<i>0</i>	<i>101</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.049</i>	<i>0</i>	<i>0.0485</i>	<i>0</i>	<i>101</i>	<i>70 - 130</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.046</i>	<i>0</i>	<i>0.0485</i>	<i>0</i>	<i>95.9</i>	<i>70 - 130</i>				
<i>Surr: Toluene-d8</i>	<i>0.049</i>	<i>0</i>	<i>0.0485</i>	<i>0</i>	<i>100</i>	<i>70 - 130</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450583 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

MSD	Sample ID: HS23101854-01MSD	Units: mg/Kg			Analysis Date: 01-Nov-2023 12:33					
Client ID:	Run ID: VOA5_450583	SeqNo: 7644585		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.045	0.0049	0.049	0	91.9	70 - 130	0.04894	8.28	30	
1,2-Dichloroethane	0.047	0.0049	0.049	0	96.2	70 - 130	0.05013	6.16	30	
1,4-Dichlorobenzene	0.044	0.0049	0.049	0	89.8	70 - 130	0.04888	10.5	30	
2-Butanone	0.069	0.0098	0.098	0	70.1	70 - 130	0.06792	1.13	30	
Acetone	0.088	0.020	0.098	0	89.8	70 - 130	0.07673	13.7	30	
Benzene	0.050	0.0049	0.049	0	102	70 - 130	0.05336	6.51	30	
Carbon tetrachloride	0.048	0.0049	0.049	0	97.2	70 - 130	0.04867	2.15	30	
Chlorobenzene	0.046	0.0049	0.049	0	93.1	70 - 130	0.05012	9.39	30	
Chloroform	0.052	0.0049	0.049	0	106	70 - 130	0.05454	5.19	30	
Ethyl methacrylate	0.038	0.0049	0.049	0	78.4	72 - 128	0.04524	16.3	30	
Ethylbenzene	0.044	0.0049	0.049	0	90.8	70 - 130	0.04831	8.25	30	
Tetrachloroethene	0.044	0.0049	0.049	0	89.4	70 - 130	0.04781	8.72	30	
Toluene	0.048	0.0049	0.049	0	97.7	70 - 130	0.05298	10.1	30	
Trichloroethene	0.046	0.0049	0.049	0	94.2	70 - 130	0.04935	6.66	30	
Vinyl chloride	0.039	0.0049	0.049	0	79.1	70 - 130	0.04250	9.15	30	
Xylenes, Total	0.13	0.015	0.147	0	88.6	70 - 130	0.1453	11	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.050</i>	<i>0</i>	<i>0.049</i>	<i>0</i>	<i>101</i>	<i>70 - 126</i>	<i>0.04900</i>	<i>1.32</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.047</i>	<i>0</i>	<i>0.049</i>	<i>0</i>	<i>96.4</i>	<i>70 - 130</i>	<i>0.04882</i>	<i>3.34</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>0.048</i>	<i>0</i>	<i>0.049</i>	<i>0</i>	<i>97.0</i>	<i>70 - 130</i>	<i>0.04649</i>	<i>2.18</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>0.048</i>	<i>0</i>	<i>0.049</i>	<i>0</i>	<i>97.6</i>	<i>70 - 130</i>	<i>0.04852</i>	<i>1.44</i>	<i>30</i>	

The following samples were analyzed in this batch: HS23101863-01

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450656 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C						
MBLK	Sample ID: VBLKW-231101	Units: mg/L			Analysis Date: 01-Nov-2023 12:30					
Client ID:	Run ID: VOA6_450656	SeqNo: 7645909		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	U	0.0050								
1,2-Dichloroethane	U	0.0050								
1,4-Dichlorobenzene	U	0.0050								
2-Butanone	U	0.010								
Acetone	U	0.010								
Benzene	U	0.0050								
Carbon tetrachloride	U	0.0050								
Chlorobenzene	U	0.0050								
Chloroform	U	0.0050								
Ethyl methacrylate	U	0.0050								
Ethylbenzene	U	0.0050								
Tetrachloroethene	U	0.0050								
Toluene	U	0.0050								
Trichloroethene	U	0.0050								
Vinyl chloride	U	0.0020								
Xylenes, Total	U	0.015								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>89.4</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>101</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>94.8</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450656 (0) **Instrument:** VOA6 **Method:** VOLATILES - SW8260C

LCS		Sample ID: VLCSW-231101			Units: mg/L		Analysis Date: 01-Nov-2023 11:49			
Client ID:		Run ID: VOA6_450656			SeqNo: 7645908		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.018	0.0050	0.02	0	89.5	70 - 130				
1,2-Dichloroethane	0.019	0.0050	0.02	0	93.1	70 - 124				
1,4-Dichlorobenzene	0.018	0.0050	0.02	0	91.4	79 - 113				
2-Butanone	0.041	0.010	0.04	0	103	70 - 130				
Acetone	0.045	0.010	0.04	0	111	70 - 130				
Benzene	0.020	0.0050	0.02	0	99.5	74 - 120				
Carbon tetrachloride	0.019	0.0050	0.02	0	96.0	71 - 125				
Chlorobenzene	0.020	0.0050	0.02	0	98.2	76 - 113				
Chloroform	0.018	0.0050	0.02	0	88.0	71 - 121				
Ethyl methacrylate	0.021	0.0050	0.02	0	103	65 - 135				
Ethylbenzene	0.020	0.0050	0.02	0	99.6	77 - 117				
Tetrachloroethene	0.021	0.0050	0.02	0	107	76 - 119				
Toluene	0.020	0.0050	0.02	0	98.0	77 - 118				
Trichloroethene	0.020	0.0050	0.02	0	100	77 - 121				
Vinyl chloride	0.020	0.0020	0.02	0	101	70 - 130				
Xylenes, Total	0.059	0.015	0.06	0	99.2	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.043</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>86.8</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.051</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>102</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>94.5</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450656 (0) **Instrument:** VOA6 **Method:** VOLATILES - SW8260C

MS		Sample ID: HS23101828-01MS			Units: mg/L		Analysis Date: 01-Nov-2023 13:52			
Client ID:		Run ID: VOA6_450656			SeqNo: 7645911		PrepDate:		DF: 1000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19	5.0	20	0	96.8	70 - 130				
1,2-Dichloroethane	18	5.0	20	0	90.2	70 - 127				
1,4-Dichlorobenzene	18	5.0	20	0	92.0	70 - 114				
2-Butanone	36	10	40	0	89.5	70 - 130				
Acetone	30	10	40	0	75.6	70 - 130				
Benzene	20	5.0	20	0	99.7	70 - 127				
Carbon tetrachloride	22	5.0	20	0	108	70 - 130				
Chlorobenzene	19	5.0	20	0	95.6	70 - 114				
Chloroform	18	5.0	20	0	89.0	70 - 125				
Ethyl methacrylate	21	5.0	20	0	104	70 - 130				
Ethylbenzene	20	5.0	20	0	102	70 - 124				
Tetrachloroethene	23	5.0	20	0	114	70 - 130				
Toluene	20	5.0	20	0	98.1	70 - 123				
Trichloroethene	21	5.0	20	0	105	70 - 129				
Vinyl chloride	20	2.0	20	0	100	70 - 130				
Xylenes, Total	60	15	60	0	101	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	45	0	50	0	89.9	70 - 126				
<i>Surr: 4-Bromofluorobenzene</i>	52	0	50	0	104	82 - 124				
<i>Surr: Dibromofluoromethane</i>	47	0	50	0	94.8	77 - 123				
<i>Surr: Toluene-d8</i>	49	0	50	0	97.8	82 - 127				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450656 (0) **Instrument:** VOA6 **Method:** VOLATILES - SW8260C

MSD		Sample ID: HS23101828-01MSD			Units: mg/L		Analysis Date: 01-Nov-2023 14:12			
Client ID:		Run ID: VOA6_450656			SeqNo: 7645912		PrepDate:		DF: 1000	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18	5.0	20	0	91.9	70 - 130	19.37	5.19	20	
1,2-Dichloroethane	18	5.0	20	0	89.2	70 - 127	18.03	1.02	20	
1,4-Dichlorobenzene	19	5.0	20	0	94.1	70 - 114	18.39	2.28	20	
2-Butanone	35	10	40	0	88.3	70 - 130	35.80	1.38	20	
Acetone	29	10	40	0	71.8	70 - 130	30.24	5.22	20	
Benzene	19	5.0	20	0	97.1	70 - 127	19.94	2.7	20	
Carbon tetrachloride	21	5.0	20	0	103	70 - 130	21.61	4.42	20	
Chlorobenzene	19	5.0	20	0	97.2	70 - 114	19.11	1.68	20	
Chloroform	17	5.0	20	0	85.5	70 - 125	17.80	4.04	20	
Ethyl methacrylate	21	5.0	20	0	104	70 - 130	20.72	0.265	20	
Ethylbenzene	20	5.0	20	0	102	70 - 124	20.42	0.358	20	
Tetrachloroethene	22	5.0	20	0	112	70 - 130	22.85	1.88	20	
Toluene	20	5.0	20	0	97.7	70 - 123	19.61	0.349	20	
Trichloroethene	20	5.0	20	0	99.6	70 - 129	20.92	4.94	20	
Vinyl chloride	19	2.0	20	0	96.1	70 - 130	20.08	4.41	20	
Xylenes, Total	61	15	60	0	101	70 - 130	60.50	0.403	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	44	0	50	0	88.9	70 - 126	44.96	1.15	20	
<i>Surr: 4-Bromofluorobenzene</i>	51	0	50	0	102	82 - 124	51.78	1.36	20	
<i>Surr: Dibromofluoromethane</i>	47	0	50	0	94.9	77 - 123	47.39	0.174	20	
<i>Surr: Toluene-d8</i>	50	0	50	0	99.9	82 - 127	48.89	2.12	20	

The following samples were analyzed in this batch: HS23101863-03

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450780 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

MBLK Sample ID: **VBLKS1-110223** Units: **mg/Kg** Analysis Date: **02-Nov-2023 14:36**
 Client ID: Run ID: **VOA5_450780** SeqNo: **7648874** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

1,1-Dichloroethene	U	0.0050								
1,2-Dichloroethane	U	0.0050								
1,4-Dichlorobenzene	U	0.0050								
2-Butanone	U	0.010								
Acetone	U	0.020								
Benzene	U	0.0050								
Carbon tetrachloride	U	0.0050								
Chlorobenzene	U	0.0050								
Chloroform	U	0.0050								
Ethyl methacrylate	U	0.0050								
Ethylbenzene	U	0.0050								
Tetrachloroethene	U	0.0050								
Toluene	U	0.0050								
Trichloroethene	U	0.0050								
Vinyl chloride	U	0.0010								
Xylenes, Total	U	0.015								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.046</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>91.1</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>90.6</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>93.2</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>98.8</i>	<i>81 - 118</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450780 (0)		Instrument: VOA5			Method: VOLATILES BY SW8260C					
LCS	Sample ID: VLCSS1-110223	Units: mg/Kg			Analysis Date: 02-Nov-2023 13:32					
Client ID:	Run ID: VOA5_450780	SeqNo: 7648872			PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.043	0.0050	0.05	0	86.4	72 - 130				
1,2-Dichloroethane	0.041	0.0050	0.05	0	82.2	77 - 120				
1,4-Dichlorobenzene	0.043	0.0050	0.05	0	85.8	78 - 120				
2-Butanone	0.080	0.010	0.1	0	79.7	70 - 128				
Acetone	0.087	0.020	0.1	0	86.5	70 - 130				
Benzene	0.045	0.0050	0.05	0	90.6	75 - 124				
Carbon tetrachloride	0.042	0.0050	0.05	0	83.3	72 - 128				
Chlorobenzene	0.043	0.0050	0.05	0	86.3	78 - 122				
Chloroform	0.046	0.0050	0.05	0	91.0	73 - 127				
Ethyl methacrylate	0.039	0.0050	0.05	0	78.5	72 - 128				
Ethylbenzene	0.042	0.0050	0.05	0	83.8	70 - 123				
Tetrachloroethene	0.042	0.0050	0.05	0	84.1	70 - 130				
Toluene	0.043	0.0050	0.05	0	85.2	76 - 122				
Trichloroethene	0.042	0.0050	0.05	0	84.8	78 - 125				
Vinyl chloride	0.045	0.0010	0.05	0	90.7	70 - 130				
Xylenes, Total	0.13	0.015	0.15	0	83.8	77 - 128				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.048</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>96.0</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>94.8</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.051</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>102</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>93.4</i>	<i>81 - 118</i>				

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450780 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
LCSD		Sample ID: VLCSDS1-110223		Units: mg/Kg		Analysis Date: 02-Nov-2023 13:53				
Client ID:		Run ID: VOA5_450780		SeqNo: 7648873		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,1-Dichloroethene	0.047	0.0050	0.05	0	94.6	72 - 130	0.04322	8.98	20	
1,2-Dichloroethane	0.046	0.0050	0.05	0	91.8	77 - 120	0.04110	11	20	
1,4-Dichlorobenzene	0.049	0.0050	0.05	0	98.5	78 - 120	0.04288	13.9	20	
2-Butanone	0.077	0.010	0.1	0	77.1	70 - 128	0.07973	3.39	20	
Acetone	0.082	0.020	0.1	0	81.6	70 - 130	0.08653	5.86	20	
Benzene	0.050	0.0050	0.05	0	99.7	75 - 124	0.04532	9.52	20	
Carbon tetrachloride	0.048	0.0050	0.05	0	95.9	72 - 128	0.04166	14	20	
Chlorobenzene	0.049	0.0050	0.05	0	97.2	78 - 122	0.04316	11.9	20	
Chloroform	0.050	0.0050	0.05	0	100.0	73 - 127	0.04550	9.39	20	
Ethyl methacrylate	0.038	0.0050	0.05	0	75.1	72 - 128	0.03925	4.43	20	
Ethylbenzene	0.047	0.0050	0.05	0	94.5	70 - 123	0.04192	12	20	
Tetrachloroethene	0.047	0.0050	0.05	0	93.7	70 - 130	0.04203	10.8	20	
Toluene	0.047	0.0050	0.05	0	93.7	76 - 122	0.04261	9.48	20	
Trichloroethene	0.047	0.0050	0.05	0	94.3	78 - 125	0.04242	10.6	20	
Vinyl chloride	0.049	0.0010	0.05	0	97.8	70 - 130	0.04537	7.52	20	
Xylenes, Total	0.14	0.015	0.15	0	94.8	77 - 128	0.1257	12.3	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>98.0</i>	<i>76 - 125</i>	<i>0.04801</i>	<i>2.03</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>97.4</i>	<i>80 - 120</i>	<i>0.04741</i>	<i>2.65</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>0.051</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>103</i>	<i>80 - 119</i>	<i>0.05082</i>	<i>1.15</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>97.5</i>	<i>81 - 118</i>	<i>0.04668</i>	<i>4.34</i>	<i>20</i>	

The following samples were analyzed in this batch: HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 202917 (0)	Instrument: WetChem_HS	Method: LEACHED SULFIDE
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MBLK	Sample ID: MBLK-202917	Units: mg/Kg	Analysis Date: 02-Nov-2023 14:15							
Client ID:	Run ID: WetChem_HS_450733	SeqNo: 7647620	PrepDate: 01-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide U 5.00

LCS	Sample ID: LCS-202917	Units: mg/Kg	Analysis Date: 02-Nov-2023 14:15							
Client ID:	Run ID: WetChem_HS_450733	SeqNo: 7647618	PrepDate: 01-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 109.6 5.00 125 0 87.7 70 - 130

LCSD	Sample ID: LCSD-202917	Units: mg/Kg	Analysis Date: 02-Nov-2023 14:15							
Client ID:	Run ID: WetChem_HS_450733	SeqNo: 7647619	PrepDate: 01-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 108.6 5.00 125 0 86.9 70 - 130 109.6 0.917 30

MS	Sample ID: HS23101863-02MS	Units: mg/Kg	Analysis Date: 02-Nov-2023 14:15							
Client ID: DUP-04-SL-20231026	Run ID: WetChem_HS_450733	SeqNo: 7647617	PrepDate: 01-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 108.5 5.00 124.9 -8.388 93.6 70 - 130

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203055 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK-203055** Units: **mg/Kg** Analysis Date: **07-Nov-2023 10:01**
 Client ID: Run ID: **ICS-Integrion_451189** SeqNo: **7658046** PrepDate: **06-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value RPD %RPD Limit Qual

Fluoride U 1.00

LCS Sample ID: **LCS-203055** Units: **mg/Kg** Analysis Date: **07-Nov-2023 10:07**
 Client ID: Run ID: **ICS-Integrion_451189** SeqNo: **7658047** PrepDate: **06-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value RPD %RPD Limit Qual

Fluoride 42.86 1.00 40 0 107 80 - 120

MS Sample ID: **HS23101905-01MS** Units: **mg/Kg** Analysis Date: **07-Nov-2023 10:24**
 Client ID: Run ID: **ICS-Integrion_451189** SeqNo: **7658049** PrepDate: **06-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value RPD %RPD Limit Qual

Fluoride 22.05 0.994 19.89 5.198 84.7 80 - 120

MSD Sample ID: **HS23101905-01MSD** Units: **mg/Kg** Analysis Date: **07-Nov-2023 10:30**
 Client ID: Run ID: **ICS-Integrion_451189** SeqNo: **7658050** PrepDate: **06-Nov-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value RPD %RPD Limit Qual

Fluoride 22.4 0.995 19.89 5.198 86.5 80 - 120 22.05 1.59 20

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: 203308 (0)	Instrument: UV-2450	Method: CYANIDE BY SW-846 9014
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MBLK	Sample ID: MBLK-203308	Units: mg/Kg	Analysis Date: 09-Nov-2023 17:13							
Client ID:	Run ID: UV-2450_451495	SeqNo: 7666551	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide U 2.00

LCS	Sample ID: LCS-203308	Units: mg/Kg	Analysis Date: 09-Nov-2023 17:13							
Client ID:	Run ID: UV-2450_451495	SeqNo: 7666550	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 9.15 2.00 10 0 91.5 80 - 120

MS	Sample ID: HS23101863-02MS	Units: mg/Kg	Analysis Date: 09-Nov-2023 17:13							
Client ID: DUP-04-SL-20231026	Run ID: UV-2450_451495	SeqNo: 7666548	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 8.981 1.94 9.709 0.09524 91.5 75 - 125

MSD	Sample ID: HS23101863-02MSD	Units: mg/Kg	Analysis Date: 09-Nov-2023 17:13							
Client ID: DUP-04-SL-20231026	Run ID: UV-2450_451495	SeqNo: 7666549	PrepDate: 09-Nov-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 8.585 1.89 9.434 0.09524 90.0 75 - 125 8.981 4.51 30

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R450640 (0)		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS23101690-03DUP	Units: °F		Analysis Date: 01-Nov-2023 14:30					
Client ID:	Run ID: WetChem_HS_450640	SeqNo: 7645361	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Flash Point	>212	50.0					0	0	30
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The following samples were analyzed in this batch:

HS23101863-01	HS23101863-02
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ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R451406 (0) **Instrument:** WetChem_HS **Method:** PH SOIL BY SW9045D

DUP	Sample ID: HS23101966-02DUP	Units: pH Units		Analysis Date: 09-Nov-2023 09:07						
Client ID:	Run ID: WetChem_HS_451406	SeqNo: 7664228		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.24	0.100					8.22	0.243	10	
Temp Deg C @pH	22.7	0					22.8	0.44	10	

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R451409 (0) **Instrument:** WetChem_HS **Method:** REACTIVE SULFIDE

MBLK Sample ID: **MBLK-R451409** Units: **mg/Kg** Analysis Date: **09-Nov-2023 13:30**
 Client ID: Run ID: **WetChem_HS_451409** SeqNo: **7664259** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Reactive Sulfide U 100

LCS Sample ID: **LCS-R451409** Units: **mg/Kg** Analysis Date: **09-Nov-2023 13:30**
 Client ID: Run ID: **WetChem_HS_451409** SeqNo: **7664258** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Reactive Sulfide 68 100 100 0 68.0 20 - 120 J

MS Sample ID: **HS23101863-02MS** Units: **mg/Kg** Analysis Date: **09-Nov-2023 13:30**
 Client ID: **DUP-04-SL-20231026** Run ID: **WetChem_HS_451409** SeqNo: **7664260** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Reactive Sulfide 64 100 100 0 64.0 20 - 120 J

The following samples were analyzed in this batch: HS23101863-01 HS23101863-02

ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R451410 (0)		Instrument: UV-2450		Method: REACTIVE CYANIDE					
MBLK	Sample ID: MBLK-R451410	Units: mg/Kg		Analysis Date: 09-Nov-2023 14:30					
Client ID:	Run ID: UV-2450_451410	SeqNo: 7664282		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Cyanide	U	100							
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LCS	Sample ID: LCS-R451410	Units: mg/Kg		Analysis Date: 09-Nov-2023 14:30					
Client ID:	Run ID: UV-2450_451410	SeqNo: 7664281		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Cyanide	0.61	100	10	0	6.10	5 - 100			J
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MS	Sample ID: HS23101863-02MS	Units: mg/Kg		Analysis Date: 09-Nov-2023 14:30					
Client ID: DUP-04-SL-20231026	Run ID: UV-2450_451410	SeqNo: 7664283		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Cyanide	0.63	100	10	0	6.30	5 - 100			J
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The following samples were analyzed in this batch:

HS23101863-01	HS23101863-02
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ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

QC BATCH REPORT

Batch ID: R451496 (0)	Instrument: Balance1	Method: MOISTURE - ASTM D2216
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DUP	Sample ID: HS23101921-02DUP	Units: wt%	Analysis Date: 09-Nov-2023 16:41						
Client ID:	Run ID: Balance1_451496	SeqNo: 7666572	PrepDate: DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Percent Moisture	5.55	0.0100	5.61	1.08	20
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The following samples were analyzed in this batch:

HS23101863-01	HS23101863-02
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ALS Houston, US

Date: 15-Dec-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23101863

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected
mg/L	Milligrams per Liter

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 15-Dec-23

Sample Receipt Checklist

Work Order ID: HS23101863

Date/Time Received: 27-Oct-2023 09:05

Client Name: ERMSW-HOU

Received by: Malcolm Burleson

Completed By: <u>/S/ Corey Grandits</u>	28-Oct-2023 18:33	Reviewed by: <u>/S/ Bernadette A. Fini</u>	29-Oct-2023 19:15
eSignature	Date/Time	eSignature	Date/Time

Matrices: S/TB Carrier name: FedEx

- | | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 1 Page(s) |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | COC IDs:305671 |
| Samplers name present on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Temperature(s)/Thermometer(s):	3.2UC/3.1C	IR31
Cooler(s)/Kit(s):	51454	
Date/Time sample(s) sent to storage:	10/27/23 19:00	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
pH adjusted by:		

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 1111

Fort Collins, CO
+1 970 221 1111

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form
Received, Clerk's Office 04/28/2025

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 206 266 7700

Page 1 of 1

COC ID: 305671



ALS Project Manager:

ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	0647752	Project Name	Preliminary Joliet Delisting	A	1311_8250_W (TCLP VOA)/1311_8270_W (TCLP SVOA)										
Work Order		Project Number		B	1311_METALS_HS (TCLP Metals 12+Hg) (3 diff pHs)										
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.	C	1311_8081_Pest (TCLP Pest)/1311_8151 (TCLP Herbs)										
Send Report To	Cecilia Anderson	Invoice Attn	Accounts Payable	D	8270_S (SVOA 8270 Special list)/8081_S (Pest 8081)										
Address	CityCentre Four	Address	CityCentre Four	E	8260_S (VOA 8260 Special list)										
	840 W. Sam Houston Pkwy., Suite 6		840 W. Sam Houston Pkwy. Suite 6	F	ICP_S_Low (16 metals)/VHG_S_Low/PCB 8082										
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	9056_S (F)/CN_TS (Cyanide)/Moisture										
Phone	(281) 600-1000	Phone	(281) 600-1000	H	Water Leached Sulfide (Sulfide)										
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SUB_DIOXINS/FURANS (Diox/Furans ALS High Res Lab)										
e-Mail Address	Cecilia.Anderson@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J	SUB_Herbicides (1,4,5-T (Silvex) 8151 Eurofins)										

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PTS-04-SL-20231026	10/26/23	9:26	S	Y/N	29	X	X	X	X	X	X	X	X	X	X	X
2	D.P-04-SL-20231026	10/26/23	9:31	S	Y/N	29	X	X	X	X	X	X	X	X	X	X	X
3	TB-04-SL-20231026	10/26/23	-	W	Y	2					X						
4																	
5																	
6																	
7																	
8																	
9																	
10																	

HS23101863


Environmental Resources Mgmt.
Preliminary Joliet Delisting




Sampler(s) Please Print & Sign <i>Heidi Muller Lemele</i>		Shipment Method FSD EX		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>Lemele</i>	Date: 10/26/23	Time: 11:13	Received by: <i>[Signature]</i>	Date: 10/13/23	Notes: ERM Preliminary Joliet Delisting				
Relinquished by: <i>[Signature]</i>	Date: 10/26/23	Time: 11:13	Received by (Laboratory): <i>[Signature]</i>	Date: 10/27/2023	Cooler ID 51454	Cooler Temp. 12.3	QC Package: (Check One Box Below)		
Logged by (Laboratory): <i>[Signature]</i>	Date: 10/26/23	Time: 11:13	Checked by (Laboratory): <i>[Signature]</i>	Date: 10/27/2023			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Check or	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							<input type="checkbox"/> Level III Std QORaw Date	<input type="checkbox"/> TRRP Low pH	
							<input type="checkbox"/> Level IV SWM/SCLP		
							<input type="checkbox"/> Other		

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	Electronic Filing: Received, Clerk's Office 04/28/2025 51454	Date: 10/27/23 Time: 11:13 Name: Heidi Mahall Company: Exxon Mobil	Sent Broken By: gm Date: 10/27/23
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51454 OCT 27 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL 51454	Sent Broken By: gm Date: 10/27/23
	Date: 10/27/23 Time: 11:13 Name: Heidi Mahall Company: Exxon Mobil	Date: 10/27/23



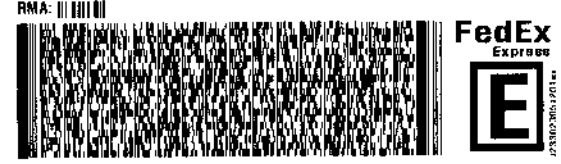
51454

ORIGIN ID:SGRA (630) 335-1573
 HEIDI MULHALL
 EXXONMOBIL JOLIET REFINERY
 25915 S. FRONTAGE RD
 CHANNAHON, IL 60410
 UNITED STATES US

SHIP DATE: 11OCT23
 ACTWGT: 1.00 LB MAN
 CAD: 0221247/DAFE3751
 DIMS: 19x16x13 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

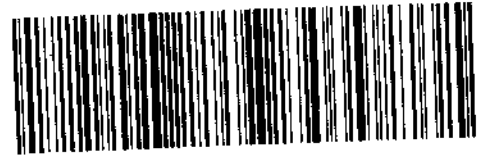
(281) 530-5656
 REF: JOILET DELISITING = BO 96149 - BF



FedEx
 TRACKING# 6862 6798 0374
 77099
 TX--US IA

FRI - 27 OCT 10:30A
 PRIORITY OVERNIGHT

AB SGRA





10-Nov-2023

Bernadette Fini
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS23101863**

Work Order: **23102716**

Dear Bernadette,

ALS Environmental received 2 samples on 31-Oct-2023 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chelsey Cook

Chelsey Cook
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group, USA

Date: 10-Nov-23

Client: ALS Environmental
Project: HS23101863
Work Order: 23102716

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
23102716-01	PTS-04-SL-20231026	Soil	HS23101863-01	10/26/2023 09:26	10/31/2023 09:30	<input type="checkbox"/>
23102716-02	DUP-04-SL-20231026	Soil	HS23101863-02	10/26/2023 09:31	10/31/2023 09:30	<input type="checkbox"/>

ALS Group, USA

Date: 10-Nov-23

Client: ALS Environmental
Project: HS23101863
WorkOrder: 23102716

**QUALIFIERS,
ACRONYMS, UNITS**

ALS Group, USA

Date: 10-Nov-23

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 10-Nov-23

Client: ALS Environmental
Project: HS23101863
Work Order: 23102716

Case Narrative

Samples for the above noted Work Order were received on 10/31/2023. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:

Batch 228457, Method SW8082A, Sample DUP-04-SL-20231026 (23102716-02A): Surrogate high due to matrix interference. Decachlorobiphenyl.

Batch 228457, Method SW3546, Samples (23102716-01A, -02A): Reduced for petrol odor.

No other deviations or anomalies were noted.

Wet Chemistry:

No deviations or anomalies were noted.

ALS Group, USA

Date: 10-Nov-23

Client: ALS Environmental
Project: HS23101863
Sample ID: PTS-04-SL-20231026
Collection Date: 10/26/2023 09:26 AM

Work Order: 23102716
Lab ID: 23102716-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			Method: SW8082A		Prep: SW3546 / 11/2/23		Analyst: SJB
Aroclor 1016	U		0.16	0.45	mg/Kg-dry	1	11/3/2023 01:58
Aroclor 1221	U		0.16	0.45	mg/Kg-dry	1	11/3/2023 01:58
Aroclor 1232	U		0.16	0.45	mg/Kg-dry	1	11/3/2023 01:58
Aroclor 1242	U		0.16	0.45	mg/Kg-dry	1	11/3/2023 01:58
Aroclor 1248	15		1.6	4.5	mg/Kg-dry	10	11/3/2023 23:24
Aroclor 1254	U		0.13	0.45	mg/Kg-dry	1	11/3/2023 01:58
Aroclor 1260	U		0.13	0.45	mg/Kg-dry	1	11/3/2023 01:58
Aroclor 1262	U		0.13	0.45	mg/Kg-dry	1	11/3/2023 01:58
Aroclor 1268	U		0.13	0.45	mg/Kg-dry	1	11/3/2023 01:58
PCBs, Total	15		1.3	4.5	mg/Kg-dry	10	11/3/2023 23:24
Surr: Decachlorobiphenyl	124			68-137	%REC	1	11/3/2023 01:58
Surr: Tetrachloro-m-xylene	77.5			71-126	%REC	1	11/3/2023 01:58
MOISTURE			Method: SW3550C				Analyst: SGH
Moisture	43		0.10	0.10	% of sample	1	11/1/2023 15:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 10-Nov-23

Client: ALS Environmental
Project: HS23101863
Sample ID: DUP-04-SL-20231026
Collection Date: 10/26/2023 09:31 AM

Work Order: 23102716
Lab ID: 23102716-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			Method: SW8082A		Prep: SW3546 / 11/2/23		Analyst: SJB
Aroclor 1016	U		0.18	0.54	mg/Kg-dry	1	11/3/2023 02:10
Aroclor 1221	U		0.18	0.54	mg/Kg-dry	1	11/3/2023 02:10
Aroclor 1232	U		0.18	0.54	mg/Kg-dry	1	11/3/2023 02:10
Aroclor 1242	U		0.18	0.54	mg/Kg-dry	1	11/3/2023 02:10
Aroclor 1248	5.9		0.18	0.54	mg/Kg-dry	1	11/3/2023 02:10
Aroclor 1254	U		0.15	0.54	mg/Kg-dry	1	11/3/2023 02:10
Aroclor 1260	U		0.15	0.54	mg/Kg-dry	1	11/3/2023 02:10
Aroclor 1262	U		0.15	0.54	mg/Kg-dry	1	11/3/2023 02:10
Aroclor 1268	U		0.15	0.54	mg/Kg-dry	1	11/3/2023 02:10
PCBs, Total	5.9		0.15	0.54	mg/Kg-dry	1	11/3/2023 02:10
Surr: Decachlorobiphenyl	142	S		68-137	%REC	1	11/3/2023 02:10
Surr: Tetrachloro-m-xylene	90.3			71-126	%REC	1	11/3/2023 02:10
MOISTURE			Method: SW3550C				Analyst: SGH
Moisture	44		0.10	0.10	% of sample	1	11/1/2023 15:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Client: ALS Environmental
 Work Order: 23102716
 Project: HS23101863

QC BATCH REPORT

Batch ID: **228457** Instrument ID **GC14** Method: **SW8082A**

MBLK		Sample ID: PBLKS1-228457-228457				Units: µg/Kg		Analysis Date: 11/2/2023 11:12 PM			
Client ID:		Run ID: GC14_231102B				SeqNo: 10162076		Prep Date: 11/2/2023		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	23	67								
Aroclor 1221	U	23	67								
Aroclor 1232	U	23	67								
Aroclor 1242	U	23	67								
Aroclor 1248	U	23	67								
Aroclor 1254	U	19	67								
Aroclor 1260	U	19	67								
Aroclor 1262	U	19	67								
Aroclor 1268	U	19	67								
PCBs, Total	U	19	67								
<i>Surr: Decachlorobiphenyl</i>	37.47	0	0	33.3	0	113	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	29.73	0	0	33.3	0	89.3	71-126	0			

LCS		Sample ID: PLCSS1-228457-228457				Units: µg/Kg		Analysis Date: 11/2/2023 11:25 PM			
Client ID:		Run ID: GC14_231102B				SeqNo: 10162077		Prep Date: 11/2/2023		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	765.6	23	67	833	0	91.9	75-129	0			
Aroclor 1260	851.8	19	67	833	0	102	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	32.93	0	0	33.3	0	98.9	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	28.05	0	0	33.3	0	84.2	71-126	0			

MS		Sample ID: 23102673-02B MS				Units: µg/Kg		Analysis Date: 11/2/2023 11:36 PM			
Client ID:		Run ID: GC14_231102B				SeqNo: 10162079		Prep Date: 11/2/2023		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	830.9	22	65	812.9	0	102	75-129	0			
Aroclor 1260	918.1	18	65	812.9	0	113	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	37.95	0	0	32.5	0	117	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	30.07	0	0	32.5	0	92.5	71-126	0			

MSD		Sample ID: 23102673-02B MSD				Units: µg/Kg		Analysis Date: 11/2/2023 11:48 PM			
Client ID:		Run ID: GC14_231102B				SeqNo: 10162080		Prep Date: 11/2/2023		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	798.9	22	65	809.8	0	98.7	75-129	830.9	3.92	20	
Aroclor 1260	888.1	18	65	809.8	0	110	69-127	918.1	3.33	20	
<i>Surr: Decachlorobiphenyl</i>	36.94	0	0	32.37	0	114	68-137	37.95	2.69	20	
<i>Surr: Tetrachloro-m-xylene</i>	30.07	0	0	32.37	0	92.9	71-126	30.07	0.012	20	

The following samples were analyzed in this batch: 23102716-01A 23102716-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental

QC BATCH REPORT

Work Order: 23102716

Project: HS23101863

Batch ID: **R387102** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R387102				Units: % of sample			Analysis Date: 11/1/2023 03:33 PM		
Client ID:		Run ID: MOIST_231101B				SeqNo: 10156802		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.1	0.10								

LCS		Sample ID: LCS-R387102				Units: % of sample			Analysis Date: 11/1/2023 03:33 PM		
Client ID:		Run ID: MOIST_231101B				SeqNo: 10156801		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.1	0.10	100	0	100	98-102	0			

DUP		Sample ID: 23102373-04A DUP				Units: % of sample			Analysis Date: 11/1/2023 03:33 PM		
Client ID:		Run ID: MOIST_231101B				SeqNo: 10156769		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	84.31	0.1	0.10	0	0	0	0-0	84.84	0.627	10	

DUP		Sample ID: 23110009-05A DUP				Units: % of sample			Analysis Date: 11/1/2023 03:33 PM		
Client ID:		Run ID: MOIST_231101B				SeqNo: 10156775		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.06	0.1	0.10	0	0	0	0-0	15.32	1.71	10	

The following samples were analyzed in this batch: 23102716-01A 23102716-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS - HOUSTON: ALS Environmental
Project: HS23101863



10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 23646

SUBCONTRACT TO:

ALS Laboratory Group
3352 128th Ave.
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23101863
TSR: Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
1. HS23101863-01	PTS-04-SL-20231026	Soil	26 Oct 2023 09:26
PCB-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			10 Nov 2023
2. HS23101863-02	DUP-04-SL-20231026	Soil	26 Oct 2023 09:31
PCB-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			10 Nov 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By:

Date/Time:

Received By:

Date/Time:

Cooler ID(s):

Temperature(s):

Handwritten signature

IR3

10-30-23 1800
10/31/23 0930
2.8°C

Feedix

ALS Group, USA
Holland, Michigan

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **31-Oct-23 09:30**

Work Order: **23102716**

Received by: **KYB**

Checklist completed by Karly Yablonski 31-Oct-23
eSignature Date

Reviewed by: Chelsey Cook 01-Nov-23
eSignature Date

Matrices: Soil
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 2.8/3.8C IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 10/31/2023 12:32:17 PM

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



December 15, 2023

Service Request No:E2301004

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23101863

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory October 28, 2023
For your reference, these analyses have been assigned our service request number **E2301004**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental



Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com



Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request No.: E2301004
Date Received: 10/28/23

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two samples were received for analysis at ALS Environmental in Houston on 10/28/23.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300543: Laboratory Control Spike Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

Y flags – Cleanup Standard

The recoveries for the cleanup standard, 37Cl-2,3,7,8-TCDD are below control limits. The sample results are not affected since this labeled standard is provided as a means of demonstrating that both the sample extraction and subsequent cleanup steps performed as expected, and is not used in quantitation of target analytes.

Y flags – Labeled Standards

Quantification of the native 2,3,7,8-substituted congeners is based on isotopic dilution, which automatically corrects for variation in extraction efficiency and provides accurate values even with poor recovery. Samples that had recoveries of labeled standards outside the acceptance limits are qualified with 'Y' flags on the Labeled Compound summary pages. In all cases, the signal-to-noise ratios are greater than 10:1 and detection limits were below the Method Reporting Limits.

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

2378-TCDF

Samples analyzed on the DB-5MSUI column were analyzed under conditions where sufficient separation between 2,3,7,8-TCDF and its closest eluter was achieved. Confirmation of this result was not required.

MRL

Sample results are reported to the Method Reporting Limit (MRL) established by the analytical method. Results that were not detected at concentrations greater than the MRL are reported as "ND" and are flagged appropriately.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

Holding Time

SW-846 Update VI, December 2018. (Table 4-1, Section 4.1.4.3) eliminates holding times for Dioxins/Furans with proper sample storage as PCDDs and PCDFs are extremely stable in a variety of matrices.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)
- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US

Service Request: E2301004

Project: HS23101863

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2301004-001	PTS-04-SL-20231026	10/26/2023	0926
E2301004-002	DUP-04-SL-20231026	10/26/2023	0931

Electronic File Service Request Summary 04/28/2025

Folder #: E2301004
Client Name: ALS Environmental - US
Project Name: HS23101863
Project Number:
Report To: Bernadette Fini
 ALS Laboratory Group
 10450 Stancliff Road
 Houston, TX 77099-4338
 USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 10/28/23
Internal Due Date: 12/21/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: N
P.O. Number: HS23101863
EDD: EQUIS EFWEDD ERM
 Global High-res

4 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: SMO
Pressure Gas:

Semivoa GCMS	
PCDD PCDF/8290A	Total Solids/ALS SOP

Lab Samp No.	Client Samp No	Matrix	Collected	PCDD PCDF/8290A	Total Solids/ALS SOP
E2301004-001	PTS-04-SL-20231026	Soil	10/26/23 0926		
E2301004-002	DUP-04-SL-20231026	Soil	10/26/23 0931		

Folder #: E2301004
Client Name: ALS Environmental - US
Project Name: HS23101863
Project Number:
Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 10/28/23
Internal Due Date: 12/21/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: N
P.O. Number: HS23101863
EDD: EQUIS EFWEDD ERM
Global High-res

4 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: SMO
Pressure Gas:

Data Qualifiers

HRMS Qualifier Set

- * Indicates the samples were extracted outside of the recommended holding time.
- B Indicates the associated analyte was found in the method blank at >1/10th the reported value.
- E Estimated value. The reported concentration is above the calibration range of the instrument.
- J Estimated value. The reported concentration is below the MRL.
- K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits. The concentration of this analyte should be considered as an estimate.
- P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
- Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.
- S Signal saturated detector. Result reported from dilution.
- U Compound was analyzed for, but was not detected (ND).
- X See Case Narrative.
- Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-noise ratios are greater than 10:1, making the recoveries acceptable.
 - i The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCEntration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient



State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Department of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Conservation	TN04016-2023	4/30/2024
Texas Commission on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E2301004

DB-5MSUI

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
12/12/23	LKL	001 PL

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
12/13/23	SL	001 PL

ALS ENVIRONMENTAL – Houston

Data Processing/Form Production and Peer Review Signatures

SR# Unique ID

DB-5MSUI

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
12/14/23	LKL	002DL

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
12/14/23	SL	002DL



Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com



10450 Stancliff Rd, Ste 210
 Houston, TX 77099
 T: +1 281 530 5656
 F: +1 281 530 5887
 www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 23644

SUBCONTRACT TO:

ALS Environmental
 10450 Stancliff Road Suite 210
 Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23101863
TSR: Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS23101863-01	PTS-04-SL-20231026	Soil	26 Oct 2023 09:26
	Diox/Furans -Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			10 Nov 2023
2.	HS23101863-02	DUP-04-SL-20231026	Soil	26 Oct 2023 09:31
	Diox/Furans -Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			10 Nov 2023

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

E2301004

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ALS Laboratory Group
 HS23101863



Relinquished By:

[Handwritten Signature]

Date/Time:

Received By:

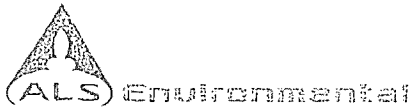
[Handwritten Signature]

Date/Time:

10-28-23 *[Signature]*

Cooler ID(s):

Temperature(s):



Cooler Receipt Form

Project Chemist H

Client/Project ALS Thermometer ID 1021

Date/Time Received: 10-28-25 Initials: ry Date/Time Logged in: 10-28-25 Initials: ry

1. Method of delivery: US Mail Fed Ex UPS DHL ^{ALS} Courier Client

2. Samples received in: Cooler Box Envelope Other

3. Were custody seals on coolers? Yes No
 Were they intact? Yes No N/A
 Were they signed and dated? Yes No N/A
 If yes, how many and where?

4. Packing Material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other

5. Foreign or Regulated Soil? Yes No Location of Sampling: _____

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		10-28-25	2006	ry	5.0	<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

6. Were custody papers properly filled out (ink, signed, dated, etc)? Yes No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? Yes No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? Yes No

9. Were appropriate bottles/containers and volumes received for the requested tests? Yes No

10. Did sample labels and tags agree with custody documents? Yes No

Notes, Discrepancies, & Resolutions:

Service request Label:

E2301004
 ALS Laboratory Group
 HS23101863

5





SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample. The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report



Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet
 Electronic Filing: Received, Clerk's Office 04/28/2025

Prep Run#: 429713
 Team: Semivoa GCMS/CALLIAW

Prep Workflow: OrgExtDioxS(30)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 11/9/23 11:29

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2301004-001	PTS-04-SL-20231026	.01	8290A/PCDD PCDF			Soil	10.179g	brown soil
2	E2301004-002	DUP-04-SL-20231026	.01	8290A/PCDD PCDF			Soil	10.210g	brown soil
3	E2301019-001	Furnace Ash	.01	8290/PCDD PCDF			Solid	10.098g	black rock
4	E2301038-001	BC-PN10-01-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.163g	brown soil
5	E2301038-002	BC-PN10-02-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.261g	brown soil
6	E2301038-003	BC-PN3-01-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.176g	brown sludge
7	E2301038-004	BC-PN3-02-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.179g	brown sludge
8	E2301038-005	BC-PN5-01-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.274g	brown sludge
9	E2301038-006	BC-PN5-02-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.176g	ligh brown sludge
10	E2301038-007	BC-PN8-01-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.201g	ligh brown sludge
11	E2301038-008	BC-PN8-02-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.241g	ligh brown sludge
12	E2301038-009	BC-PN9-01-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.015g	brown sludge
13	E2301038-010	BC-PN9-02-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.167g	light brown sludge
14	E2301038-011	BC-PS1-01-20231030-52	.01	8290A/PCDD PCDF			Sediment	10.019g	brown soil
15	E2301038-012	BC-PS1-02-20231030-52	.01	8290A/PCDD PCDF			Sediment	10.006g	brown soil
16	E2301038-013	BC-PS2-01-20231030-52	.01	8290A/PCDD PCDF			Sediment	10.006g	brown soil
17	E2301038-014	BC-PS2-02-20231030-52	.01	8290A/PCDD PCDF			Sediment	10.273g	brown soil
18	E2301061-004	BW-SO09-0002-100423TA	.01	8290/PCDD PCDF			Soil	10.072g	brown soil
19	E2301061-005	BW-SO09-0002-100423TB	.01	8290/PCDD PCDF			Soil	10.013g	brown soil
20	E2301061-006	BW-SO09-0002-100423TC	.01	8290/PCDD PCDF			Soil	10.016g	brown soil
21	EQ2300543-01	MB		8290A/PCDD PCDF			Solid	10.066g	
22	EQ2300543-02	LCS		8290A/PCDD PCDF			Solid	10.088g	
23	EQ2300543-03	DLCS		8290A/PCDD PCDF			Solid	10.100g	

Spiking Solutions

Name: 8290/1613B Cleanup Working Standard	Inventory ID 232054	Logbook Ref: JS 11/3/2023 CWS @8 ng/mL	Expires On: 03/13/2024
---	---------------------	--	------------------------

E2301004-001 100.00µL	E2301004-002 100.00µL	E2301019-001 100.00µL	E2301038-001 100.00µL	E2301038-002 100.00µL	E2301038-003 100.00µL
E2301038-004 100.00µL	E2301038-005 100.00µL	E2301038-006 100.00µL	E2301038-007 100.00µL	E2301038-008 100.00µL	E2301038-009 100.00µL
E2301038-010 100.00µL	E2301038-011 100.00µL	E2301038-012 100.00µL	E2301038-013 100.00µL	E2301038-014 100.00µL	E2301061-004 100.00µL
E2301061-005 100.00µL	E2301061-006 100.00µL	EQ2300543-01 100.00µL	EQ2300543-01 100.00µL	EQ2300543-02 100.00µL	EQ2300543-02 100.00µL
EQ2300543-03 100.00µL	EQ2300543-03 100.00µL				

Name: 1613B Labeled Working Standard	Inventory ID 232142	Logbook Ref: OO/11/8/23@LWS@2-4ng/ml	Expires On: 02/25/2024
--------------------------------------	---------------------	--------------------------------------	------------------------

E2301004-001 1,000.00µL	E2301004-002 1,000.00µL	E2301019-001 1,000.00µL	E2301038-001 1,000.00µL	E2301038-002 1,000.00µL	E2301038-003 1,000.00µL
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Preparation Information Benchsheet
 Electronic Filing: Received, Clerk's Office 04/28/2025

Prep Run#: 429713

Prep WorkFlow: OrgExtDioxS(30)

Status: Prepped

Team: Semivoa GCMS/CALLIAW

Prep Method: Method

Prep Date/Time: 11/9/23 11:29

E2301038-004	1,000.00µL	E2301038-005	1,000.00µL	E2301038-006	1,000.00µL	E2301038-007	1,000.00µL	E2301038-008	1,000.00µL	E2301038-009	1,000.00µL
E2301038-010	1,000.00µL	E2301038-011	1,000.00µL	E2301038-012	1,000.00µL	E2301038-013	1,000.00µL	E2301038-014	1,000.00µL	E2301061-004	1,000.00µL
E2301061-005	1,000.00µL	E2301061-006	1,000.00µL	EQ2300543-01	1,000.00µL	EQ2300543-01	1,000.00µL	EQ2300543-02	1,000.00µL	EQ2300543-02	1,000.00µL
EQ2300543-03	1,000.00µL	EQ2300543-03	1,000.00µL								

Name: 1613B Matrix Working Standard	Inventory ID 232166	Logbook Ref: OO 11/8/23@Matrix working	Expires On: 05/06/2024
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E2301004-001	100.00µL	E2301004-002	100.00µL	E2301019-001	100.00µL	E2301038-001	100.00µL	E2301038-002	100.00µL	E2301038-003	100.00µL
E2301038-004	100.00µL	E2301038-005	100.00µL	E2301038-006	100.00µL	E2301038-007	100.00µL	E2301038-008	100.00µL	E2301038-009	100.00µL
E2301038-010	100.00µL	E2301038-011	100.00µL	E2301038-012	100.00µL	E2301038-013	100.00µL	E2301038-014	100.00µL	E2301061-004	100.00µL
E2301061-005	100.00µL	E2301061-006	100.00µL	EQ2300543-01	100.00µL	EQ2300543-01	100.00µL	EQ2300543-02	100.00µL	EQ2300543-02	100.00µL
EQ2300543-03	100.00µL	EQ2300543-03	100.00µL								

Preparation Steps

Step: Extraction	Step: Acid Clean	Step: Silica Gel Clean	Step: Final Volume
Started: 11/9/23 11:29	Started: 11/10/23 08:50	Started: 11/10/23 10:10	Started: 11/13/23 11:05
Finished: 11/10/23 09:00	Finished: 11/10/23 09:50	Finished: 11/10/23 14:00	Finished: 11/13/23 15:00
By: OOLUJIMI	By: DDO	By: DDO	By: DDO
Comments	Comments	Comments	Comments

Comments: _____

Reviewed By: _____ **Date:** _____

Chain of Custody

Relinquished By: _____	Date: _____	Extracts Examined
Received By: _____	Date: _____	Yes No



Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: 10/26/23 09:26
Date Received: 10/28/23 20:06

Sample Name: PTS-04-SL-20231026
Lab Code: E2301004-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.179g

Date Analyzed: 12/07/23 16:33
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08

Data File Name: P638824
ICAL Date: 11/13/23

GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638816

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.00000439	U	0.00000439	5
1,2,3,7,8-PeCDD	0.0000219	U	0.0000219	5
1,2,3,6,7,8-HxCDD	0.0000219	U	0.0000219	5
1,2,3,4,7,8-HxCDD	0.0000219	U	0.0000219	5
1,2,3,7,8,9-HxCDD	0.0000219	U	0.0000219	5
1,2,3,4,6,7,8-HpCDD	0.0000396		0.0000219	5
OCDD	0.000364		0.0000439	5
2,3,7,8-TCDF	0.00000439	U	0.00000439	5
1,2,3,7,8-PeCDF	0.0000219	U	0.0000219	5
2,3,4,7,8-PeCDF	0.0000219	U	0.0000219	5
1,2,3,6,7,8-HxCDF	0.0000219	U	0.0000219	5
1,2,3,7,8,9-HxCDF	0.0000219	U	0.0000219	5
1,2,3,4,7,8-HxCDF	0.0000219	U	0.0000219	5
2,3,4,6,7,8-HxCDF	0.0000219	U	0.0000219	5
1,2,3,4,6,7,8-HpCDF	0.0000219	U	0.0000219	5
1,2,3,4,7,8,9-HpCDF	0.0000219	U	0.0000219	5
OCDF	0.0000506		0.0000439	5

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: 10/26/23 09:26
Date Received: 10/28/23 20:06

Sample Name: PTS-04-SL-20231026
Lab Code: E2301004-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.179g

Data File Name: P638824
ICAL Date: 11/13/23

Date Analyzed: 12/07/23 16:33
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638816

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.00000439	U	0.00000439	5
Total Penta-Dioxins	0.0000219	U	0.0000219	5
Total Hexa-Dioxins	0.0000219	U	0.0000219	5
Total Hepta-Dioxins	0.0000512		0.0000219	5
Total Tetra-Furans	0.00000439	U	0.00000439	5
Total Penta-Furans	0.0000219	U	0.0000219	5
Total Hexa-Furans	0.0000219	U	0.0000219	5
Total Hepta-Furans	0.0000628		0.0000219	5

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: 10/26/23 09:26
Date Received: 10/28/23 20:06

Sample Name: PTS-04-SL-20231026
Lab Code: E2301004-001

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.179g

Data File Name: P638824
ICAL Date: 11/13/23

Date Analyzed: 12/07/23 16:33
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638816

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1477.075	74		40-135	0.77	1.020
13C-1,2,3,7,8-PeCDD	2000	1507.477	75		40-135	1.59	1.179
13C-1,2,3,4,7,8-HxCDD	2000	2376.704	119		40-135	1.21	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1529.226	76		40-135	1.21	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1369.469	68		40-135	1.07	1.065
13C-OCDD	4000	2435.627	61		40-135	0.88	1.141
13C-2,3,7,8-TCDF	2000	1531.578	77		40-135	0.77	0.995
13C-1,2,3,7,8-PeCDF	2000	1387.874	69		40-135	1.60	1.138
13C-2,3,4,7,8-PeCDF	2000	1470.355	74		40-135	1.57	1.169
13C-1,2,3,4,7,8-HxCDF	2000	1836.710	92		40-135	0.49	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1384.196	69		40-135	0.51	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1377.354	69		40-135	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1432.810	72		40-135	0.49	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1304.189	65		40-135	0.45	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1254.759	63		40-135	0.43	1.078
37Cl-2,3,7,8-TCDD	160	34.727	22	Y	40-135	NA	1.021

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: 10/26/23 09:26
Date Received: 10/28/23 20:06

Sample Name: PTS-04-SL-20231026
Lab Code: E2301004-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL		Dilution Factor		
2,3,7,8-TCDD	0.00000439	0.00000151	0.00000439	5	1	
1,2,3,7,8-PeCDD	0.0000219	0.00000047	0.0000219	5	1	
1,2,3,6,7,8-HxCDD	0.0000219	0.00000019	0.0000219	5	0.1	
1,2,3,4,7,8-HxCDD	0.0000219	0.00000014	0.0000219	5	0.1	
1,2,3,7,8,9-HxCDD	0.0000219	0.00000015	0.0000219	5	0.1	
1,2,3,4,6,7,8-HpCDD	0.0000396	0.00000110	0.0000219	5	0.01	0.000000396
OCDD	0.000364	0.00000105	0.0000439	5	0.0003	0.000000109
2,3,7,8-TCDF	0.00000439	0.00000257	0.00000439	5	0.1	
1,2,3,7,8-PeCDF	0.0000219	0.00000064	0.0000219	5	0.03	
2,3,4,7,8-PeCDF	0.0000219	0.00000050	0.0000219	5	0.3	
1,2,3,6,7,8-HxCDF	0.0000219	0.00000019	0.0000219	5	0.1	
1,2,3,7,8,9-HxCDF	0.0000219	0.00000022	0.0000219	5	0.1	
1,2,3,4,7,8-HxCDF	0.0000219	0.00000017	0.0000219	5	0.1	
2,3,4,6,7,8-HxCDF	0.0000219	0.00000019	0.0000219	5	0.1	
1,2,3,4,6,7,8-HpCDF	0.0000219	0.00000018	0.0000219	5	0.01	
1,2,3,4,7,8,9-HpCDF	0.0000219	0.00000022	0.0000219	5	0.01	
OCDF	0.0000506	0.00000266	0.0000439	5	0.0003	0.0000000152
Total TEQ						0.000000520

2005 WHO TEFs, ND = 0

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil
Sample Name: PTS-04-SL-20231026
Lab Code: E2301004-001

Service Request: E2301004
Date Collected: 10/26/23 09:26
Date Received: 10/28/23 20:06
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
 5.2204g

Date Analyzed: 11/08/23 10:18
 NA
 E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	56.0		-	-			1

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: 10/26/23 09:31
Date Received: 10/28/23 20:06

Sample Name: DUP-04-SL-20231026
Lab Code: E2301004-002

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.210g

Date Analyzed: 12/07/23 03:26
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638803

Data File Name: P638809
ICAL Date: 11/13/23

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.0000444	U	0.0000444	5
1,2,3,7,8-PeCDD	0.0000222	U	0.0000222	5
1,2,3,6,7,8-HxCDD	0.0000222	U	0.0000222	5
1,2,3,4,7,8-HxCDD	0.0000222	U	0.0000222	5
1,2,3,7,8,9-HxCDD	0.0000222	U	0.0000222	5
1,2,3,4,6,7,8-HpCDD	0.0000370K		0.0000222	5
OCDD	0.000429K		0.0000444	5
2,3,7,8-TCDF	0.0000444	U	0.0000444	5
1,2,3,7,8-PeCDF	0.0000222	U	0.0000222	5
2,3,4,7,8-PeCDF	0.0000222	U	0.0000222	5
1,2,3,6,7,8-HxCDF	0.0000222	U	0.0000222	5
1,2,3,7,8,9-HxCDF	0.0000222	U	0.0000222	5
1,2,3,4,7,8-HxCDF	0.0000222	U	0.0000222	5
2,3,4,6,7,8-HxCDF	0.0000222	U	0.0000222	5
1,2,3,4,6,7,8-HpCDF	0.0000222	U	0.0000222	5
1,2,3,4,7,8,9-HpCDF	0.0000222	U	0.0000222	5
OCDF	0.0000524		0.0000444	5

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: 10/26/23 09:31
Date Received: 10/28/23 20:06

Sample Name: DUP-04-SL-20231026
Lab Code: E2301004-002

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.210g

Data File Name: P638809
ICAL Date: 11/13/23

Date Analyzed: 12/07/23 03:26
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638803

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.00000444	U	0.00000444	5
Total Penta-Dioxins	0.0000222	U	0.0000222	5
Total Hexa-Dioxins	0.0000222	U	0.0000222	5
Total Hepta-Dioxins	0.0000222	U	0.0000222	5
Total Tetra-Furans	0.00000444	U	0.00000444	5
Total Penta-Furans	0.0000222	U	0.0000222	5
Total Hexa-Furans	0.0000222	U	0.0000222	5
Total Hepta-Furans	0.0000222	U	0.0000222	5

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: 10/26/23 09:31
Date Received: 10/28/23 20:06

Sample Name: DUP-04-SL-20231026
Lab Code: E2301004-002

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.210g

Data File Name: P638809
ICAL Date: 11/13/23

Date Analyzed: 12/07/23 03:26
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638803

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1349.740	67		40-135	0.77	1.020
13C-1,2,3,7,8-PeCDD	2000	1039.130	52		40-135	1.65	1.178
13C-1,2,3,4,7,8-HxCDD	2000	2204.903	110		40-135	1.24	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1434.785	72		40-135	1.26	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	820.624	41		40-135	1.02	1.065
13C-OCDD	4000	957.587	24	Y	40-135	0.85	1.140
13C-2,3,7,8-TCDF	2000	1422.373	71		40-135	0.78	0.994
13C-1,2,3,7,8-PeCDF	2000	1060.124	53		40-135	1.62	1.138
13C-2,3,4,7,8-PeCDF	2000	1053.232	53		40-135	1.62	1.169
13C-1,2,3,4,7,8-HxCDF	2000	1856.006	93		40-135	0.51	0.973
13C-1,2,3,6,7,8-HxCDF	2000	1415.857	71		40-135	0.54	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1260.378	63		40-135	0.49	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1387.792	69		40-135	0.50	0.989
13C-1,2,3,4,6,7,8-HpCDF	2000	898.420	45		40-135	0.44	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	734.692	37	Y	40-135	0.46	1.078
37Cl-2,3,7,8-TCDD	160	8.495	5	Y	40-135	NA	1.021

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: 10/26/23 09:31
Date Received: 10/28/23 20:06

Sample Name: DUP-04-SL-20231026
Lab Code: E2301004-002

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL		Dilution Factor		
2,3,7,8-TCDD	0.0000444	0.0000160	0.0000444	5	1	
1,2,3,7,8-PeCDD	0.0000222	0.0000121	0.0000222	5	1	
1,2,3,6,7,8-HxCDD	0.0000222	0.0000122	0.0000222	5	0.1	
1,2,3,4,7,8-HxCDD	0.0000222	0.0000092	0.0000222	5	0.1	
1,2,3,7,8,9-HxCDD	0.0000222	0.0000098	0.0000222	5	0.1	
1,2,3,4,6,7,8-HpCDD	0.0000370	0.0000305	0.0000222	5	0.01	0.000000370
OCDD	0.000429	0.0000345	0.0000444	5	0.0003	0.000000129
2,3,7,8-TCDF	0.0000444	0.0000204	0.0000444	5	0.1	
1,2,3,7,8-PeCDF	0.0000222	0.0000191	0.0000222	5	0.03	
2,3,4,7,8-PeCDF	0.0000222	0.0000162	0.0000222	5	0.3	
1,2,3,6,7,8-HxCDF	0.0000222	0.0000063	0.0000222	5	0.1	
1,2,3,7,8,9-HxCDF	0.0000222	0.0000081	0.0000222	5	0.1	
1,2,3,4,7,8-HxCDF	0.0000222	0.0000058	0.0000222	5	0.1	
2,3,4,6,7,8-HxCDF	0.0000222	0.0000070	0.0000222	5	0.1	
1,2,3,4,6,7,8-HpCDF	0.0000222	0.0000156	0.0000222	5	0.01	
1,2,3,4,7,8,9-HpCDF	0.0000222	0.0000221	0.0000222	5	0.01	
OCDF	0.0000524	0.0000126	0.0000444	5	0.0003	0.0000000157
Total TEQ						0.000000515

2005 WHO TEFs, ND = 0

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil
Sample Name: DUP-04-SL-20231026
Lab Code: E2301004-002

Service Request: E2301004
Date Collected: 10/26/23 09:31
Date Received: 10/28/23 20:06
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
 5.795g

Date Analyzed: 11/08/23 10:18
 NA
 E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	55.1		-	-			1

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300543-01

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.066g

Data File Name: P638665
ICAL Date: 11/13/23

Date Analyzed: 12/01/23 21:42
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.00000497	U	0.00000497	1
1,2,3,7,8-PeCDD	0.00000248	U	0.00000248	1
1,2,3,6,7,8-HxCDD	0.00000248	U	0.00000248	1
1,2,3,4,7,8-HxCDD	0.00000248	U	0.00000248	1
1,2,3,7,8,9-HxCDD	0.00000248	U	0.00000248	1
1,2,3,4,6,7,8-HpCDD	0.00000248	U	0.00000248	1
OCDD	0.00000497	U	0.00000497	1
2,3,7,8-TCDF	0.00000497	U	0.00000497	1
1,2,3,7,8-PeCDF	0.00000248	U	0.00000248	1
2,3,4,7,8-PeCDF	0.00000248	U	0.00000248	1
1,2,3,6,7,8-HxCDF	0.00000248	U	0.00000248	1
1,2,3,7,8,9-HxCDF	0.00000248	U	0.00000248	1
1,2,3,4,7,8-HxCDF	0.00000248	U	0.00000248	1
2,3,4,6,7,8-HxCDF	0.00000248	U	0.00000248	1
1,2,3,4,6,7,8-HpCDF	0.00000248	U	0.00000248	1
1,2,3,4,7,8,9-HpCDF	0.00000248	U	0.00000248	1
OCDF	0.00000497	U	0.00000497	1

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300543-01

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.066g

Data File Name: P638665
ICAL Date: 11/13/23

Date Analyzed: 12/01/23 21:42
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.000000497	U	0.000000497	1
Total Penta-Dioxins	0.00000248	U	0.00000248	1
Total Hexa-Dioxins	0.00000248	U	0.00000248	1
Total Hepta-Dioxins	0.00000248	U	0.00000248	1
Total Tetra-Furans	0.000000497	U	0.000000497	1
Total Penta-Furans	0.00000248	U	0.00000248	1
Total Hexa-Furans	0.00000248	U	0.00000248	1
Total Hepta-Furans	0.00000248	U	0.00000248	1

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300543-01

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.066g

Date Analyzed: 12/01/23 21:42
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Data File Name: P638665
ICAL Date: 11/13/23

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1214.264	61		40-135	0.79	1.019
13C-1,2,3,7,8-PeCDD	2000	999.845	50		40-135	1.59	1.171
13C-1,2,3,4,7,8-HxCDD	2000	1634.587	82		40-135	1.30	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1323.127	66		40-135	1.18	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	799.997	40		40-135	1.10	1.066
13C-OCDD	4000	857.159	21	Y	40-135	0.91	1.142
13C-2,3,7,8-TCDF	2000	1281.925	64		40-135	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	1080.937	54		40-135	1.56	1.131
13C-2,3,4,7,8-PeCDF	2000	999.332	50		40-135	1.55	1.162
13C-1,2,3,4,7,8-HxCDF	2000	1603.453	80		40-135	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1271.760	64		40-135	0.53	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1044.439	52		40-135	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1223.035	61		40-135	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	841.516	42		40-135	0.46	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	753.571	38	Y	40-135	0.46	1.079
37Cl-2,3,7,8-TCDD	800	457.473	57		40-135	NA	1.019



Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
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QA/QC Report

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Analyzed: 12/02/23
Date Extracted: 11/09/23

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Units: mg/Kg
Basis: Dry
Analysis Lot: 826110

Lab Control Sample
EQ2300543-02

Duplicate Lab Control Sample
EQ2300543-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	0.000115	0.0000991	117	0.000118	0.0000990	119	70-130	2	25
1,2,3,4,7,8-HxCDD	0.0000757	0.0000991	76	0.0000745	0.0000990	75	70-130	2	25
1,2,3,6,7,8-HxCDD	0.0000827	0.0000991	83	0.0000819	0.0000990	83	70-130	<1	25
1,2,3,7,8,9-HxCDD	0.0000846	0.0000991	85	0.0000795	0.0000990	80	70-130	6	25
1,2,3,7,8-PeCDD	0.000101	0.0000991	101	0.0000966	0.0000990	98	70-130	4	25
2,3,7,8-TCDD	0.0000173	0.0000198	87	0.0000183	0.0000198	92	70-130	6	25
OCDD	0.000439	0.000198	221 *	0.000412	0.000198	208 *	70-130	6	25
1,2,3,4,6,7,8-HpCDF	0.000110	0.0000991	111	0.000110	0.0000990	111	70-130	<1	25
1,2,3,4,7,8,9-HpCDF	0.0000991	0.0000991	100	0.0000975	0.0000990	98	70-130	2	25
1,2,3,4,7,8-HxCDF	0.0000921	0.0000991	93	0.0000896	0.0000990	91	70-130	3	25
1,2,3,6,7,8-HxCDF	0.0000962	0.0000991	97	0.0000986	0.0000990	100	70-130	2	25
1,2,3,7,8,9-HxCDF	0.0000972	0.0000991	98	0.0000992	0.0000990	100	70-130	2	25
1,2,3,7,8-PeCDF	0.0000995	0.0000991	100	0.0000978	0.0000990	99	70-130	2	25
2,3,4,6,7,8-HxCDF	0.0000980	0.0000991	99	0.000104	0.0000990	105	70-130	6	25
2,3,4,7,8-PeCDF	0.000100	0.0000991	101	0.0000948	0.0000990	96	70-130	6	25
2,3,7,8-TCDF	0.0000181	0.0000198	91	0.0000188	0.0000198	95	70-130	4	25
OCDF	0.000225	0.000198	114	0.000237	0.000198	120	70-130	5	25

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300543-02

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.088g

Date Analyzed: 12/02/23 02:41
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Data File Name: P638671
ICAL Date: 11/13/23

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.000173		0.000000496	1
1,2,3,7,8-PeCDD	0.000101		0.00000248	1
1,2,3,6,7,8-HxCDD	0.0000827		0.00000248	1
1,2,3,4,7,8-HxCDD	0.0000757		0.00000248	1
1,2,3,7,8,9-HxCDD	0.0000846		0.00000248	1
1,2,3,4,6,7,8-HpCDD	0.000115		0.00000248	1
OCDD	0.000439		0.00000496	1
2,3,7,8-TCDF	0.0000181		0.000000496	1
1,2,3,7,8-PeCDF	0.0000995		0.00000248	1
2,3,4,7,8-PeCDF	0.000100		0.00000248	1
1,2,3,6,7,8-HxCDF	0.0000962		0.00000248	1
1,2,3,7,8,9-HxCDF	0.0000972		0.00000248	1
1,2,3,4,7,8-HxCDF	0.0000921		0.00000248	1
2,3,4,6,7,8-HxCDF	0.0000980		0.00000248	1
1,2,3,4,6,7,8-HpCDF	0.000110		0.00000248	1
1,2,3,4,7,8,9-HpCDF	0.0000991		0.00000248	1
OCDF	0.000225		0.00000496	1

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300543-02

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.088g

Data File Name: P638671
ICAL Date: 11/13/23

Date Analyzed: 12/02/23 02:41
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.0000173		0.000000496	1
Total Penta-Dioxins	0.000101		0.00000248	1
Total Hexa-Dioxins	0.000244		0.00000248	1
Total Hepta-Dioxins	0.000132		0.00000248	1
Total Tetra-Furans	0.0000181		0.000000496	1
Total Penta-Furans	0.000200		0.00000248	1
Total Hexa-Furans	0.000387		0.00000248	1
Total Hepta-Furans	0.000222		0.00000248	1

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300543-02

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.088g

Data File Name: P638671
ICAL Date: 11/13/23

Date Analyzed: 12/02/23 02:41
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1336.399	67		40-135	0.79	1.019
13C-1,2,3,7,8-PeCDD	2000	1401.924	70		40-135	1.55	1.172
13C-1,2,3,4,7,8-HxCDD	2000	1716.597	86		40-135	1.26	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1418.678	71		40-135	1.23	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1084.988	54		40-135	1.02	1.066
13C-OCDD	4000	1201.697	30	Y	40-135	0.90	1.142
13C-2,3,7,8-TCDF	2000	1396.316	70		40-135	0.80	0.994
13C-1,2,3,7,8-PeCDF	2000	1489.686	74		40-135	1.59	1.132
13C-2,3,4,7,8-PeCDF	2000	1442.819	72		40-135	1.59	1.162
13C-1,2,3,4,7,8-HxCDF	2000	1611.072	81		40-135	0.50	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1316.207	66		40-135	0.50	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1274.750	64		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1275.708	64		40-135	0.49	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1036.956	52		40-135	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1076.695	54		40-135	0.42	1.079
37Cl-2,3,7,8-TCDD	800	600.736	75		40-135	NA	1.020

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300543-03

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.100g

Data File Name: P638672
ICAL Date: 11/13/23

Date Analyzed: 12/02/23 03:31
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.0000183		0.000000495	1
1,2,3,7,8-PeCDD	0.0000966		0.00000248	1
1,2,3,6,7,8-HxCDD	0.0000819		0.00000248	1
1,2,3,4,7,8-HxCDD	0.0000745		0.00000248	1
1,2,3,7,8,9-HxCDD	0.0000795		0.00000248	1
1,2,3,4,6,7,8-HpCDD	0.000118		0.00000248	1
OCDD	0.000412		0.00000495	1
2,3,7,8-TCDF	0.0000188		0.000000495	1
1,2,3,7,8-PeCDF	0.0000978		0.00000248	1
2,3,4,7,8-PeCDF	0.0000948		0.00000248	1
1,2,3,6,7,8-HxCDF	0.0000986		0.00000248	1
1,2,3,7,8,9-HxCDF	0.0000992		0.00000248	1
1,2,3,4,7,8-HxCDF	0.0000896		0.00000248	1
2,3,4,6,7,8-HxCDF	0.000104		0.00000248	1
1,2,3,4,6,7,8-HpCDF	0.000110		0.00000248	1
1,2,3,4,7,8,9-HpCDF	0.0000975		0.00000248	1
OCDF	0.000237		0.00000495	1

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300543-03

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.100g

Data File Name: P638672
ICAL Date: 11/13/23

Date Analyzed: 12/02/23 03:31
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.0000184		0.000000495	1
Total Penta-Dioxins	0.0000969		0.00000248	1
Total Hexa-Dioxins	0.000237		0.00000248	1
Total Hepta-Dioxins	0.000137		0.00000248	1
Total Tetra-Furans	0.0000188		0.000000495	1
Total Penta-Furans	0.000193		0.00000248	1
Total Hexa-Furans	0.000396		0.00000248	1
Total Hepta-Furans	0.000223		0.00000248	1

Client: ALS Environmental - US
Project: HS23101863
Sample Matrix: Soil

Service Request: E2301004
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300543-03

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.100g

Data File Name: P638672
ICAL Date: 11/13/23

Date Analyzed: 12/02/23 03:31
Date Extracted: 11/9/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638665
Cal Ver. File Name: P638661

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	629.191	31	Y	40-135	0.77	1.019
13C-1,2,3,7,8-PeCDD	2000	637.976	32	Y	40-135	1.62	1.172
13C-1,2,3,4,7,8-HxCDD	2000	860.269	43		40-135	1.26	0.991
13C-1,2,3,6,7,8-HxCDD	2000	698.372	35	Y	40-135	1.22	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	494.488	25	Y	40-135	1.01	1.066
13C-OCDD	4000	555.607	14	Y	40-135	0.88	1.141
13C-2,3,7,8-TCDF	2000	676.694	34	Y	40-135	0.78	0.994
13C-1,2,3,7,8-PeCDF	2000	683.761	34	Y	40-135	1.67	1.132
13C-2,3,4,7,8-PeCDF	2000	672.629	34	Y	40-135	1.64	1.163
13C-1,2,3,4,7,8-HxCDF	2000	800.070	40		40-135	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	654.410	33	Y	40-135	0.53	0.975
13C-1,2,3,7,8,9-HxCDF	2000	596.090	30	Y	40-135	0.48	1.008
13C-2,3,4,6,7,8-HxCDF	2000	637.229	32	Y	40-135	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	516.688	26	Y	40-135	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	490.987	25	Y	40-135	0.41	1.079
37Cl-2,3,7,8-TCDD	800	269.520	34	Y	40-135	NA	1.020

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bernadette Fini
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston, Texas 77099

Generated 11/13/2023 12:33:35 PM Revision 1

JOB DESCRIPTION

HS23101863

JOB NUMBER

410-149200-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Authorized for release by
Kelly Bauer, Project Manager
Kelly.Bauer@et.eurofinsus.com
(717)556-7262

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Revision 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Client: ALS Group USA, Corp
 Project/Site: HS23101863

Job ID: 410-149200-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: ALS Group USA, Corp
Project/Site: HS23101863

Job ID: 410-149200-1

Job ID: 410-149200-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

**Job Narrative
410-149200-1**

REVISION

The report being provided is a revision of the original report sent on 11/7/2023. The report (revision 1) is being revised due to units were updated to mg/kg per the client's request.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/31/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Herbicides

Method 8151A: The laboratory control sample (LCS) for preparation batch 410-439106 and analytical batch 410-439791 recovered outside control limits bias low for the following analyte: Dinoseb. The recovery for the analyte is 6% (the limit is 10-115%) but Dinoseb is a problematic compound to recover. The associated sample was not detected; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client: ALS Group USA, Corp
Project/Site: HS23101863

Job ID: 410-149200-1

Client Sample ID: HS23101863-01 PTS-04-SL-20231026

Lab Sample ID: 410-149200-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2,4,5-T (2C)	0.0056	J*3	0.0085		0.0041	mg/Kg	5		8151A	Total/NA

Client Sample ID: HS23101863-02 DUP-04-SL-20231026

Lab Sample ID: 410-149200-2

No Detections.

This Detection Summary does not include radiochemical test results.



Client: ALS Group USA, Corp
 Project/Site: HS23101863

Job ID: 410-149200-1

Client Sample ID: HS23101863-01 PTS-04-SL-20231026

Lab Sample ID: 410-149200-1

Date Collected: 10/26/23 09:26

Matrix: Solid

Date Received: 10/31/23 09:55

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,5-T (2C)	0.0056	J *3	0.0085		0.0041	mg/Kg		11/07/23 03:50	5
Silvex (2,4,5-TP) (1C)	<0.0037		0.0085		0.0037	mg/Kg		11/07/23 03:50	5
2,4-D (2C)	<0.060	*3	0.18		0.060	mg/Kg		11/07/23 03:50	5
2,4-DB (2C)	<0.060	*3	0.12		0.060	mg/Kg		11/07/23 03:50	5
Dichlorprop (1C)	<0.045		0.10		0.045	mg/Kg		11/07/23 03:50	5
Dalapon (1C)	<0.24		0.50		0.24	mg/Kg		11/07/23 03:50	5
Dicamba (1C)	<0.070		0.14		0.070	mg/Kg		11/07/23 03:50	5
Dinoseb (2C)	<0.045	*3 *- cn	0.12		0.045	mg/Kg		11/07/23 03:50	5
MCPD (1C)	<19		38		19	mg/Kg		11/07/23 03:50	5
MCPA (1C)	<3.8		12		3.8	mg/Kg		11/07/23 03:50	5
Pentachlorophenol (1C)	<0.0016		0.0085		0.0016	mg/Kg		11/07/23 03:50	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	138		54 - 140				11/03/23 00:30	11/07/23 03:50	5
2,4-Dichlorophenylacetic acid (Surr) (2C)	89	p *3	54 - 140				11/03/23 00:30	11/07/23 03:50	5

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	44.2		1.0		1.0	%		11/01/23 06:32	1

Client Sample ID: HS23101863-02 DUP-04-SL-20231026

Lab Sample ID: 410-149200-2

Date Collected: 10/26/23 09:31

Matrix: Solid

Date Received: 10/31/23 09:55

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,5-T (2C)	<0.016		0.034		0.016	mg/Kg		11/07/23 04:24	20
Silvex (2,4,5-TP) (1C)	<0.015		0.034		0.015	mg/Kg		11/07/23 04:24	20
2,4-D (1C)	<0.24		0.72		0.24	mg/Kg		11/07/23 04:24	20
2,4-DB (2C)	<0.24		0.50		0.24	mg/Kg		11/07/23 04:24	20
Dichlorprop (1C)	<0.18		0.40		0.18	mg/Kg		11/07/23 04:24	20
Dalapon (1C)	<0.98		2.0		0.98	mg/Kg		11/07/23 04:24	20
Dicamba (1C)	<0.28		0.58		0.28	mg/Kg		11/07/23 04:24	20
Dinoseb (2C)	<0.18	*- cn	0.48		0.18	mg/Kg		11/07/23 04:24	20
MCPD (1C)	<76		150		76	mg/Kg		11/07/23 04:24	20
MCPA (1C)	<15		50		15	mg/Kg		11/07/23 04:24	20
Pentachlorophenol (1C)	<0.0066		0.034		0.0066	mg/Kg		11/07/23 04:24	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	236	S1+	54 - 140				11/03/23 00:30	11/07/23 04:24	20
2,4-Dichlorophenylacetic acid (Surr) (2C)	166	S1+	54 - 140				11/03/23 00:30	11/07/23 04:24	20

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	44.3		1.0		1.0	%		11/01/23 06:32	1

Client: ALS Group USA, Corp
 Project/Site: HS23101863

Job ID: 410-149200-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA1 (54-140)	DCPAA2 (54-140)
410-149200-1	HS23101863-01 PTS-04-SL-202	138	89 p *3
410-149200-2	HS23101863-02 DUP-04-SL-20231026	236 S1+	166 S1+
LCS 410-439106/2-A	Lab Control Sample	57	62
MB 410-439106/1-A	Method Blank	65	71

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client: ALS Group USA, Corp
 Project/Site: HS23101863

Job ID: 410-149200-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-439106/1-A
Matrix: Solid
Analysis Batch: 439791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439106

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,5-T (1C)	<0.00082		0.0017		0.00082	mg/Kg		11/06/23 05:09	1
Silvex (2,4,5-TP) (1C)	<0.00075		0.0017		0.00075	mg/Kg		11/06/23 05:09	1
2,4-D (1C)	<0.012		0.036		0.012	mg/Kg		11/06/23 05:09	1
2,4-DB (1C)	<0.012		0.025		0.012	mg/Kg		11/06/23 05:09	1
Dichlorprop (1C)	<0.0090		0.020		0.0090	mg/Kg		11/06/23 05:09	1
Dalapon (1C)	<0.049		0.10		0.049	mg/Kg		11/06/23 05:09	1
Dicamba (1C)	<0.014		0.029		0.014	mg/Kg		11/06/23 05:09	1
Dinoseb (1C)	<0.0090		0.024		0.0090	mg/Kg		11/06/23 05:09	1
MCPPP (1C)	<3.8		7.7		3.8	mg/Kg		11/06/23 05:09	1
MCPA (1C)	<0.76		2.5		0.76	mg/Kg		11/06/23 05:09	1
Pentachlorophenol (1C)	<0.00033		0.0017		0.00033	mg/Kg		11/06/23 05:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	65		54 - 140	11/03/23 00:30	11/06/23 05:09	1
2,4-Dichlorophenylacetic acid (Surr) (2C)	71		54 - 140	11/03/23 00:30	11/06/23 05:09	1

Lab Sample ID: LCS 410-439106/2-A
Matrix: Solid
Analysis Batch: 439791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-T (1C)	0.00833	0.00426		mg/Kg		51	41 - 151
Silvex (2,4,5-TP) (1C)	0.00833	0.00471		mg/Kg		57	52 - 152
2,4-D (1C)	0.0837	0.0474		mg/Kg		57	40 - 138
2,4-DB (1C)	0.0837	0.0434		mg/Kg		52	45 - 155
Dichlorprop (1C)	0.0834	0.0473		mg/Kg		57	51 - 130
Dalapon (1C)	0.208	0.155		mg/Kg		74	15 - 115
Dicamba (1C)	0.00833	<0.014		mg/Kg		52	48 - 129
Dinoseb (2C)	0.0417	<0.0090	*-	mg/Kg		6	10 - 115
MCPPP (1C)	8.37	5.27	J	mg/Kg		63	40 - 162
MCPA (1C)	8.36	4.46		mg/Kg		53	41 - 130
Pentachlorophenol (1C)	0.00662	0.00451		mg/Kg		68	45 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr) (1C)	57		54 - 140
2,4-Dichlorophenylacetic acid (Surr) (2C)	62		54 - 140

Client: ALS Group USA, Corp
 Project/Site: HS23101863

Job ID: 410-149200-1

GC Semi VOA

Prep Batch: 439106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149200-1	HS23101863-01 PTS-04-SL-20231026	Total/NA	Solid	8151A	
410-149200-2	HS23101863-02 DUP-04-SL-20231026	Total/NA	Solid	8151A	
MB 410-439106/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 410-439106/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 439791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149200-1	HS23101863-01 PTS-04-SL-20231026	Total/NA	Solid	8151A	439106
410-149200-2	HS23101863-02 DUP-04-SL-20231026	Total/NA	Solid	8151A	439106
MB 410-439106/1-A	Method Blank	Total/NA	Solid	8151A	439106
LCS 410-439106/2-A	Lab Control Sample	Total/NA	Solid	8151A	439106

General Chemistry

Analysis Batch: 438110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-149200-1	HS23101863-01 PTS-04-SL-20231026	Total/NA	Solid	Moisture	
410-149200-2	HS23101863-02 DUP-04-SL-20231026	Total/NA	Solid	Moisture	



Client: ALS Group USA, Corp
 Project/Site: HS23101863

Job ID: 410-149200-1

Client Sample ID: HS23101863-01 PTS-04-SL-20231026

Lab Sample ID: 410-149200-1

Date Collected: 10/26/23 09:26

Matrix: Solid

Date Received: 10/31/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			439106	USL7	ELLE	11/03/23 00:30
Total/NA	Analysis	8151A		5	439791	UAMZ	ELLE	11/07/23 03:50
Total/NA	Analysis	Moisture		1	438110	UVJN	ELLE	11/01/23 06:32

Client Sample ID: HS23101863-02 DUP-04-SL-20231026

Lab Sample ID: 410-149200-2

Date Collected: 10/26/23 09:31

Matrix: Solid

Date Received: 10/31/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			439106	USL7	ELLE	11/03/23 00:30
Total/NA	Analysis	8151A		20	439791	UAMZ	ELLE	11/07/23 04:24
Total/NA	Analysis	Moisture		1	438110	UVJN	ELLE	11/01/23 06:32

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client: ALS Group USA, Corp
 Project/Site: HS23101863

Job ID: 410-149200-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Louisiana (All)	NELAP	02055	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Texas	NELAP	T104704194-23-46	08-31-24
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture



Client: ALS Group USA, Corp
Project/Site: HS23101863

Job ID: 410-149200-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
8151A	Extraction (Herbicides)	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Client: ALS Group USA, Corp
Project/Site: HS23101863

Job ID: 410-149200-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
410-149200-1	HS23101863-01 PTS-04-SL-20231026	Solid	10/26/23 09:26	10/31/23 09:55
410-149200-2	HS23101863-02 DUP-04-SL-20231026	Solid	10/26/23 09:31	10/31/23 09:55

- 1
- 2
- 3
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- 5
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- 11
- 12
- 13
- 14
- 15



410-149200 Chain of Custody

10450 Stancliff Rd, Ste 210
Houston, TX 77099
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F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 23645

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Env't Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23101863
TSR: Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS23101863-01	PTS-04-SL-20231026	Soil	26 Oct 2023 09:26
	Herbs 8151-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			10 Nov 2023
2.	HS23101863-02	DUP-04-SL-20231026	Soil	26 Oct 2023 09:31
	Herbs 8151-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			10 Nov 2023

Comments: Need 4 file EQUIS EDD

Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: *[Signature]* Date/Time: 10-30-23 18:00
 Received By: *Debra A. Bya* Date/Time: 10-31-23 09:55
 Cooler ID(s): _____ Temperature(s): _____

RIGHT SOLUTIONS | RIGHT PARTNER Raw 2.3 - COR 2.4



m?



10450 Stancliff Rd, Ste 210
 Houston, TX 77099
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 www.alsglobal.com

Purchase Order

PO: HS23101863

VENDOR:

Eurofins Lancaster Laboratories Env't Testing
 2425 New Holland Pike
 Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: 23645
TSR: Ron Martino

Item	Catalog No	Unit Price	Quantity	Ext Price
1. Herbs 8151-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL	NA	\$266.00	2	\$532.00

Order Total: \$532.00

RIGHT SOLUTIONS | RIGHT PARTNER

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-149200-1

Login Number: 149200

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Ballard, Megan

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	





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November 30, 2023

Cecilia Anderson
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS23091749**

Laboratory Results for: **Preliminary Joliet Delisting**

Dear Cecilia Anderson,

ALS Environmental received 2 sample(s) on Sep 28, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,



Generated By: DAYNA.FISHER
Bernadette A. Fini
Project Manager

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23091749

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23091749-01	PTS-03-SL-20230926	Soil		26-Sep-2023 09:35	28-Sep-2023 09:15	<input type="checkbox"/>
HS23091749-02	TB-03-SL-20230926	Water	cg-071023-1079	26-Sep-2023 00:00	28-Sep-2023 09:15	<input type="checkbox"/>

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23091749

CASE NARRATIVE

Work Order Comments

- The analyses of SW8151 Herbicides was subcontracted to Eurofins Lancaster, PA. Final report attached.
- The analysis for Dioxins/Furans was subcontracted to our ALS Houston TX, High Resolution Lab. Final report attached
- The analysis for PCBs was subcontracted to ALS Environmental in Holland, MI. Final report attached.

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier. The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

ECD Organics by Method SW8082

Batch ID: 201711

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: PTS-03-SL-20230926 (HS23091749-01MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.
- The RPD between the MS and MSD was outside of the control limit. Aroclor 1016

ECD Organics by Method SW8151A

Batch ID: 201609

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ECD Organics by Method SW8081

Batch ID: 201753

Sample ID: LCS-201753

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS.

Sample ID: MBLK-201753

- Eval result for Endrin breakdown was above control limits; however sample was non-detect for all compounds

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23091749

CASE NARRATIVE

ECD Organics by Method SW8081

Batch ID: 201249

Sample ID: LCS-201249

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS.

Sample ID: PTS-03-SL-20230926 (HS23091749-01)

- This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the MS/MSD.
- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: PTS-03-SL-20230926 (HS23091749-01MSD)

- MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria. 4,4'-DDD
- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.

GCMS Semivolatiles by Method SW8270

Batch ID: 201576

Sample ID: LCS-201576

- The Famphur has poor extraction efficiency and the recovery was below the default lower control limit. All sample results in the batch were non-detect.

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: PTS-03-SL-20230926 (HS23091749-01MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.
- The RPD between the MS and MSD was outside of the control limit.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23091749

CASE NARRATIVE

GCMS Semivolatiles by Method SW8270

Batch ID: 201478

Sample ID: PTS-03-SL-20230926 (HS23091749-01)

- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: PTS-03-SL-20230926 (HS23091749-01MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.
- The RPD between the MS and MSD was outside of the control limit.

Sample ID: LCS-201478

- The 1- Naphthylamine , 2- Naphthylamine and Famphur have poor extraction efficiency and the recovery was below the default lower control limit . All sample results in the batch were non-detect.

GCMS Volatiles by Method SW8260

Batch ID: R447679

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- MS/MSD failed QC and RPD limits for some compounds.

Batch ID: 201324

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- MS recovered outside control limits for multiple compounds

Batch ID: R447941

Sample ID: HS23091753-01MS

- MS and MSD are for an unrelated sample

Metals by Method SW7470A

Batch ID: 201776

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7040

Batch ID: 201782,201784

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW1311/6020

Batch ID: 201658,201668

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23091749

CASE NARRATIVE

Metals by Method SW1311/6020

Batch ID: 201640

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- Thallium, Zinc and Tin failed for MS/MSD but passed for PDS.

Metals by Method SW7471B

Batch ID: 201627

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount.

Metals by Method SW6020A

Batch ID: 201582

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- Antimony and Chromium failed on the MS\MSD but passed on the PDS. Lead and Selenium failed on the MS but passed on the MSD and PDS.
- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Barium, Nickel, Vanadium, Zinc.

Sample ID: PTS-03-SL-20230926 (HS23091749-01MSD)

- Due to non-homogeneity of the soil sample matrix the MS/MSD RPD were outside the control limits for Lead.

WetChemistry by Method SW7.3.4.2

Batch ID: R448768

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2

Batch ID: R448771

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D2216

Batch ID: R448867

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D92-12b

Batch ID: R448625

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9014

Batch ID: 201701

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23091749

CASE NARRATIVE

WetChemistry by Method SW9045D

Batch ID: R448546

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

WetChemistry by Method SW9056

Batch ID: 201521

Sample ID: PTS-03-SL-20230926 (HS23091749-01MS)

- The recovery of the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) associated with this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS/MSD may be due to sample matrix interference. (Fluoride)
-

WetChemistry by Method SM4500 S2-F

Batch ID: 201276

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT
 WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method: SW8260		Leache: SW1311 / 03-Oct-2023	Prep: SW1311 / 03-Oct-2023		Analyst: KDN
1,1,1,2-Tetrachloroethane	U		0.0060	0.10	mg/L	20	03-Oct-2023 23:30
1,1,1-Trichloroethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
1,1,2,2-Tetrachloroethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
1,1,2-Trichloroethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
1,1-Dichloroethane	U		0.0080	0.10	mg/L	20	03-Oct-2023 23:30
1,1-Dichloroethene	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
1,2-Dibromoethane	U		0.0080	0.10	mg/L	20	03-Oct-2023 23:30
1,2-Dichlorobenzene	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
1,2-Dichloroethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
1,2-Dichloropropane	U		0.014	0.10	mg/L	20	03-Oct-2023 23:30
1,3-Dichlorobenzene	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
1,4-Dichlorobenzene	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
1,4-Dioxane	U		0.82	2.0	mg/L	20	03-Oct-2023 23:30
2-Butanone	U		0.020	0.20	mg/L	20	03-Oct-2023 23:30
2-Chloro-1,3-butadiene	U		0.020	0.10	mg/L	20	03-Oct-2023 23:30
2-Hexanone	U		0.020	0.20	mg/L	20	03-Oct-2023 23:30
4-Methyl-2-pentanone	U		0.020	0.20	mg/L	20	03-Oct-2023 23:30
Acetone	U		0.040	0.20	mg/L	20	03-Oct-2023 23:30
Acetonitrile	U		0.50	1.0	mg/L	20	03-Oct-2023 23:30
Acrolein	U		0.12	0.40	mg/L	20	03-Oct-2023 23:30
Acrylonitrile	U		0.10	0.20	mg/L	20	03-Oct-2023 23:30
Allyl Chloride	U		0.060	0.20	mg/L	20	03-Oct-2023 23:30
Benzene	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Bromodichloromethane	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Bromoform	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Bromomethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Carbon disulfide	U		0.018	0.20	mg/L	20	03-Oct-2023 23:30
Carbon tetrachloride	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Chlorobenzene	U		0.0080	0.10	mg/L	20	03-Oct-2023 23:30
Chloroethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Chloroform	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Chloromethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
cis-1,3-Dichloropropene	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Dibromochloromethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Dibromomethane	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Dichlorodifluoromethane	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Ethyl methacrylate	U		0.020	0.10	mg/L	20	03-Oct-2023 23:30
Ethylbenzene	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Iodomethane	U		0.040	0.20	mg/L	20	03-Oct-2023 23:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT
 WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method: SW8260		Leache: SW1311 / 03-Oct-2023	Prep: SW1311 / 03-Oct-2023		Analyst: KDN
Isobutyl alcohol	U		0.52	2.0	mg/L	20	03-Oct-2023 23:30
Methacrylonitrile	U		0.020	0.10	mg/L	20	03-Oct-2023 23:30
Methyl methacrylate	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Methylene chloride	U		0.020	0.20	mg/L	20	03-Oct-2023 23:30
Propionitrile	U		0.40	1.0	mg/L	20	03-Oct-2023 23:30
Styrene	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Tetrachloroethene	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Toluene	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
trans-1,2-Dichloroethene	U		0.0080	0.10	mg/L	20	03-Oct-2023 23:30
trans-1,3-Dichloropropene	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
trans-1,4-Dichloro-2-butene	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Trichloroethene	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Trichlorofluoromethane	U		0.012	0.10	mg/L	20	03-Oct-2023 23:30
Vinyl acetate	U		0.050	0.20	mg/L	20	03-Oct-2023 23:30
Vinyl chloride	U		0.0080	0.040	mg/L	20	03-Oct-2023 23:30
Xylenes, Total	U		0.010	0.10	mg/L	20	03-Oct-2023 23:30
Surr: 1,2-Dichloroethane-d4	98.2			70-126	%REC	20	03-Oct-2023 23:30
Surr: 4-Bromofluorobenzene	94.8			82-124	%REC	20	03-Oct-2023 23:30
Surr: Dibromofluoromethane	98.1			77-123	%REC	20	03-Oct-2023 23:30
Surr: Toluene-d8	102			82-127	%REC	20	03-Oct-2023 23:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method: SW8260					Analyst: WLR
1,1,1,2-Tetrachloroethane	U		0.0014	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,1,1-Trichloroethane	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,1,2,2-Tetrachloroethane	U		0.0019	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,1,2-Trichloroethane	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,1-Dichloroethane	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,1-Dichloroethene	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,2-Dibromoethane	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,2-Dichlorobenzene	U		0.0024	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,2-Dichloroethane	U		0.0014	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,2-Dichloropropane	U		0.0019	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,3-Dichlorobenzene	U		0.0024	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,4-Dichlorobenzene	U		0.0024	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
1,4-Dioxane	U		0.048	0.24	mg/Kg-dry	1	29-Sep-2023 11:50
2-Butanone	U		0.0031	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
2-Chloro-1,3-butadiene	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
2-Hexanone	U		0.0034	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
4-Methyl-2-pentanone	U		0.0048	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
Acetone	U		0.0048	0.048	mg/Kg-dry	1	29-Sep-2023 11:50
Acetonitrile	U		0.048	0.12	mg/Kg-dry	1	29-Sep-2023 11:50
Acrolein	U		0.0048	0.048	mg/Kg-dry	1	29-Sep-2023 11:50
Acrylonitrile	U		0.0058	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
Allyl Chloride	U		0.0024	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
Benzene	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Bromodichloromethane	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Bromoform	U		0.0014	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Bromomethane	U		0.0024	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
Carbon disulfide	U		0.0014	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
Carbon tetrachloride	U		0.0014	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Chlorobenzene	U		0.0014	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Chloroethane	U		0.0019	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
Chloroform	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Chloromethane	U		0.0012	0.024	mg/Kg-dry	1	29-Sep-2023 11:50
cis-1,3-Dichloropropene	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Dibromochloromethane	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Dibromomethane	U		0.0022	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Dichlorodifluoromethane	U		0.0017	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Ethyl methacrylate	U		0.0024	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Ethylbenzene	U		0.0017	0.012	mg/Kg-dry	1	29-Sep-2023 11:50
Iodomethane	U		0.0017	0.024	mg/Kg-dry	1	29-Sep-2023 11:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT

WorkOrder:HS23091749
 Lab ID:HS23091749-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
VOLATILES BY SW8260C		Method:SW8260			Analyst: WLR			
Isobutyl alcohol	U		0.12	0.24	mg/Kg-dry	1	29-Sep-2023 11:50	
Methacrylonitrile	U		0.012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Methyl methacrylate	U		0.012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Methylene chloride	U		0.0024	0.024	mg/Kg-dry	1	29-Sep-2023 11:50	
Propionitrile	U		0.12	0.12	mg/Kg-dry	1	29-Sep-2023 11:50	
Styrene	U		0.0017	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Tetrachloroethene	U		0.0017	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Toluene	U		0.0014	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
trans-1,2-Dichloroethene	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
trans-1,3-Dichloropropene	U		0.0014	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
trans-1,4-Dichloro-2-butene	U		0.0024	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Trichloroethene	U		0.0014	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Trichlorofluoromethane	U		0.0012	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Vinyl acetate	U		0.0024	0.024	mg/Kg-dry	1	29-Sep-2023 11:50	
Vinyl chloride	U		0.0019	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Xylenes, Total	0.083		0.0024	0.012	mg/Kg-dry	1	29-Sep-2023 11:50	
Surr: 1,2-Dichloroethane-d4	80.3			70-126	%REC	1	29-Sep-2023 11:50	
Surr: 4-Bromofluorobenzene	96.5			70-130	%REC	1	29-Sep-2023 11:50	
Surr: Dibromofluoromethane	96.9			70-130	%REC	1	29-Sep-2023 11:50	
Surr: Toluene-d8	108			70-130	%REC	1	29-Sep-2023 11:50	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 03-Oct-2023	Prep: SW3510 / 06-Oct-2023		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
1,2,4-Trichlorobenzene	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
1,3-Dinitrobenzene	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
1,4-Dioxane	U		0.0025	0.0050	mg/L	1	09-Oct-2023 18:57
1,4-Naphthoquinone	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
1-Naphthylamine	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
2,3,4,6-Tetrachlorophenol	U		0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
2,4,5-Trichlorophenol	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
2,4,6-Trichlorophenol	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
2,4-Dichlorophenol	U		0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
2,4-Dimethylphenol	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
2,4-Dinitrophenol	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
2,4-Dinitrotoluene	U		0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
2,6-Dichlorophenol	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
2,6-Dinitrotoluene	U		0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
2-Acetylaminofluorene	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
2-Chloronaphthalene	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
2-Chlorophenol	U		0.0010	0.0050	mg/L	1	09-Oct-2023 18:57
2-Methylnaphthalene	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
2-Methylphenol	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
2-Naphthylamine	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
2-Nitroaniline	U		0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
2-Nitrophenol	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
2-Picoline	U		0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
3&4-Methylphenol	0.0026	J	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
3,3'-Dichlorobenzidine	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
3,3'-Dimethylbenzidine	U		0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
3-Methylcholanthrene	U		0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
3-Nitroaniline	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
4,6-Dinitro-2-methylphenol	U		0.00090	0.0050	mg/L	1	09-Oct-2023 18:57
4-Aminobiphenyl	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
4-Chloroaniline	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
4-Chlorophenyl phenyl ether	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
4-Nitroaniline	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
4-Nitrophenol	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
4-Nitroquinoline-1-oxide	U		0.0016	0.0050	mg/L	1	09-Oct-2023 18:57
5-Nitro-o-toluidine	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
7,12-Dimethylbenz(a)anthracene	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
a,a-Dimethylphenethylamine	U		0.00090	0.0050	mg/L	1	09-Oct-2023 18:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT
 WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 03-Oct-2023	Prep: SW3510 / 06-Oct-2023		Analyst: GEY
Acenaphthene	0.0011	J	0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Acenaphthylene		U	0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Acetophenone	0.0013	J	0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Aniline		U	0.0014	0.0050	mg/L	1	09-Oct-2023 18:57
Anthracene		U	0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Aramite		U	0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Benz(a)anthracene		U	0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Benzo(a)pyrene		U	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Benzo(b)fluoranthene		U	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Benzo(g,h,i)perylene		U	0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Benzo(k)fluoranthene		U	0.00070	0.0050	mg/L	1	09-Oct-2023 18:57
Benzyl alcohol		U	0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Bis(2-chloroethoxy)methane		U	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Bis(2-chloroethyl)ether		U	0.00070	0.0050	mg/L	1	09-Oct-2023 18:57
Bis(2-chloroisopropyl)ether		U	0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
Bis(2-ethylhexyl)phthalate		U	0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
Butyl benzyl phthalate		U	0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Chlorobenzilate		U	0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Chrysene		U	0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
Di-n-butyl phthalate		U	0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
Di-n-octyl phthalate		U	0.0020	0.0050	mg/L	1	09-Oct-2023 18:57
Diallate		U	0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Dibenz(a,h)anthracene		U	0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Dibenzofuran		U	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Diethyl phthalate		U	0.00070	0.0050	mg/L	1	09-Oct-2023 18:57
Dimethoate		U	0.00070	0.0050	mg/L	1	09-Oct-2023 18:57
Dimethyl phthalate		U	0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Dinoseb		U	0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Diphenylamine		U	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Disulfoton		U	0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Ethyl methanesulfonate		U	0.00090	0.0050	mg/L	1	09-Oct-2023 18:57
Ethyl parathion		U	0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Famphur		U	0.0050	0.0050	mg/L	1	09-Oct-2023 18:57
Fluoranthene		U	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Fluorene		U	0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Hexachlorobenzene		U	0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Hexachlorobutadiene		U	0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Hexachlorocyclopentadiene		U	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Hexachloroethane		U	0.00080	0.0050	mg/L	1	09-Oct-2023 18:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT
 WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 03-Oct-2023	Prep: SW3510 / 06-Oct-2023		Analyst: GEY
Hexachlorophene	U		0.0090	0.025	mg/L	1	09-Oct-2023 18:57
Hexachloropropene	U		0.00070	0.0050	mg/L	1	09-Oct-2023 18:57
Indeno(1,2,3-cd)pyrene	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Isodrin	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Isophorone	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Isosafrole	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Kepone	U		0.00070	0.0050	mg/L	1	09-Oct-2023 18:57
Methapyrilene	U		0.0017	0.0050	mg/L	1	09-Oct-2023 18:57
Methyl methanesulfonate	U		0.0014	0.0050	mg/L	1	09-Oct-2023 18:57
Methyl parathion	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
N-Nitroso-di-n-butylamine	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
N-Nitrosodiethylamine	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
N-Nitrosodimethylamine	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
N-Nitrosodiphenylamine	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
N-Nitrosomethylethylamine	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
N-Nitrosomorpholine	U		0.00070	0.0050	mg/L	1	09-Oct-2023 18:57
N-Nitrosopiperidine	U		0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
N-Nitrosopyrrolidine	U		0.00090	0.0050	mg/L	1	09-Oct-2023 18:57
Naphthalene	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Nitrobenzene	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
o-Toluidine	U		0.00070	0.0050	mg/L	1	09-Oct-2023 18:57
p-Dimethylaminoazobenzene	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
p-Phenylenediamine	U		0.0011	0.0050	mg/L	1	09-Oct-2023 18:57
Pentachlorobenzene	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Pentachloroethane	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Pentachloronitrobenzene	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Pentachlorophenol	U		0.00080	0.0050	mg/L	1	09-Oct-2023 18:57
Phenacetin	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Phenanthrene	0.0010	J	0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Phenol	U		0.00040	0.0050	mg/L	1	09-Oct-2023 18:57
Phorate	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Pronamide	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Pyrene	U		0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Pyridine	U		0.00030	0.0050	mg/L	1	09-Oct-2023 18:57
Safrole	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
Tetraethylthiopyrophosphate	U		0.00060	0.0050	mg/L	1	09-Oct-2023 18:57
Thionazin	U		0.00050	0.0050	mg/L	1	09-Oct-2023 18:57
<i>Surr: 2,4,6-Tribromophenol</i>	<i>69.9</i>			<i>39-153</i>	<i>%REC</i>	<i>1</i>	<i>09-Oct-2023 18:57</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>75.6</i>			<i>40-147</i>	<i>%REC</i>	<i>1</i>	<i>09-Oct-2023 18:57</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT
 WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES			Method: SW8270	Leache: SW1311 / 03-Oct-2023	Prep: SW3510 / 06-Oct-2023		Analyst: GEY
Surr: 2-Fluorophenol	66.0			21-110	%REC	1	09-Oct-2023 18:57
Surr: 4-Terphenyl-d14	79.5			39-141	%REC	1	09-Oct-2023 18:57
Surr: Nitrobenzene-d5	79.9			37-140	%REC	1	09-Oct-2023 18:57
Surr: Phenol-d6	85.9			11-110	%REC	1	09-Oct-2023 18:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 05-Oct-2023		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		1.5	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
1,2,4-Trichlorobenzene	U		0.57	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
1,3-Dinitrobenzene	U		0.36	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
1,4-Dioxane	U		3.0	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
1,4-Naphthoquinone	U		1.3	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
1-Naphthylamine	U		0.89	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,3,4,6-Tetrachlorophenol	U		0.54	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,4,5-Trichlorophenol	U		0.75	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,4,6-Trichlorophenol	U		0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,4-Dichlorophenol	U		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,4-Dimethylphenol	U		0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,4-Dinitrophenol	U		0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,4-Dinitrotoluene	U		0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,6-Dichlorophenol	U		1.4	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2,6-Dinitrotoluene	U		0.36	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Acetylaminofluorene	U		0.61	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Chloronaphthalene	U		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Chlorophenol	U		0.36	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Methylnaphthalene	7.6		0.97	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Methylphenol	U		0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Naphthylamine	U		0.68	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Nitroaniline	U		0.57	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Nitrophenol	U		0.64	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
2-Picoline	U		1.2	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
3&4-Methylphenol	4.2	J	0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
3,3'-Dichlorobenzidine	U		0.68	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
3,3'-Dimethylbenzidine	U		6.0	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
3-Methylcholanthrene	U		1.3	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
3-Nitroaniline	U		0.54	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
4,6-Dinitro-2-methylphenol	U		0.57	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
4-Aminobiphenyl	U		0.75	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
4-Chloroaniline	U		0.54	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
4-Chlorophenyl phenyl ether	U		0.57	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
4-Nitroaniline	U		0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
4-Nitrophenol	U		0.57	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
4-Nitroquinoline-1-oxide	U		1.6	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
5-Nitro-o-toluidine	U		0.82	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
7,12-Dimethylbenz(a)anthracene	U		2.1	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
a,a-Dimethylphenethylamine	U		1.1	6.0	mg/Kg-dry	10	09-Oct-2023 19:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 05-Oct-2023		Analyst: GEY
Acenaphthene	U		0.54	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Acenaphthylene	U		0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Acetophenone	U		0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Aniline	1.0	J	0.89	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Anthracene	7.2		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Aramite	U		1.3	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Benz(a)anthracene	8.5		0.36	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Benzo(a)pyrene	3.9	J	0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Benzo(b)fluoranthene	1.1	J	0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Benzo(g,h,i)perylene	2.0	J	0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Benzo(k)fluoranthene	1.8	J	0.54	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Benzyl alcohol	U		0.68	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Bis(2-chloroethoxy)methane	U		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Bis(2-chloroethyl)ether	U		0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Bis(2-chloroisopropyl)ether	U		0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Bis(2-ethylhexyl)phthalate	U		0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Butyl benzyl phthalate	U		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Chlorobenzilate	U		1.4	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Chrysene	12		0.61	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Di-n-butyl phthalate	U		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Di-n-octyl phthalate	U		0.68	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Diallate	U		1.6	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Dibenz(a,h)anthracene	U		0.54	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Dibenzofuran	U		0.50	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Diethyl phthalate	U		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Dimethoate	U		0.93	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Dimethyl phthalate	U		0.54	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Dinoseb	U		0.89	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Diphenylamine	U		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Disulfoton	U		1.4	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Ethyl methanesulfonate	U		1.4	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Ethyl parathion	U		6.0	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Famphur	U		6.0	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Fluoranthene	U		0.50	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Fluorene	8.8		0.61	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Hexachlorobenzene	U		0.54	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Hexachlorobutadiene	U		0.50	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Hexachlorocyclopentadiene	U		0.50	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Hexachloroethane	U		0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 05-Oct-2023		Analyst: GEY
Hexachlorophene	U		60	60	mg/Kg-dry	10	09-Oct-2023 19:41
Hexachloropropene	U		1.4	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Indeno(1,2,3-cd)pyrene	U		0.50	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Isodrin	U		6.0	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Isophorone	U		0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Isosafrole	U		1.3	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Kepone	U		1.5	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Methapyrilene	U		1.7	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Methyl methanesulfonate	U		1.7	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Methyl parathion	U		0.93	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
N-Nitroso-di-n-butylamine	U		1.7	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
N-Nitrosodiethylamine	U		1.1	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
N-Nitrosodimethylamine	U		1.9	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
N-Nitrosodiphenylamine	U		0.43	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
N-Nitrosomethylethylamine	U		1.4	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
N-Nitrosomorpholine	U		0.86	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
N-Nitrosopiperidine	U		0.82	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
N-Nitrosopyrrolidine	U		0.82	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Naphthalene	1.3	J	0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Nitrobenzene	U		0.50	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
o-Toluidine	U		0.79	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
p-Dimethylaminoazobenzene	U		0.75	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
p-Phenylenediamine	U		6.0	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Pentachlorobenzene	U		1.5	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Pentachloroethane	U		1.8	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Pentachloronitrobenzene	U		1.5	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Pentachlorophenol	U		0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Phenacetin	U		1.4	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Phenanthrene	33		0.50	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Phenol	2.3	J	0.39	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Phorate	U		1.1	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Pronamide	U		1.4	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Pyrene	20		1.5	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Pyridine	U		0.46	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Safrole	U		1.2	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Tetraethylthiopyrophosphate	U		0.86	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
Thionazin	U		1.1	6.0	mg/Kg-dry	10	09-Oct-2023 19:41
<i>Surr: 2,4,6-Tribromophenol</i>	<i>74.8</i>	<i>J</i>		<i>36-126</i>	<i>%REC</i>	<i>10</i>	<i>09-Oct-2023 19:41</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>94.6</i>	<i>J</i>		<i>43-125</i>	<i>%REC</i>	<i>10</i>	<i>09-Oct-2023 19:41</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT
 WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270		Prep: SW3541 / 05-Oct-2023		Analyst: GEY	
Surr: 2-Fluorophenol	39.6	J		37-125	%REC	10	09-Oct-2023 19:41
Surr: 4-Terphenyl-d14	97.4	J		32-125	%REC	10	09-Oct-2023 19:41
Surr: Nitrobenzene-d5	102			37-125	%REC	10	09-Oct-2023 19:41
Surr: Phenol-d6	59.7	J		40-125	%REC	10	09-Oct-2023 19:41
TCLP ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081		Leache: SW1311 / 03-Oct-2023		Prep: SW3510C / 11-Oct-2023	
4,4'-DDD	U		0.000020	0.00010	mg/L	1	11-Oct-2023 22:39
4,4'-DDE	U		0.000020	0.00010	mg/L	1	11-Oct-2023 22:39
4,4'-DDT	U		0.000020	0.00010	mg/L	1	11-Oct-2023 22:39
Aldrin	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
alpha-BHC	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
beta-BHC	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
Chlordane	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
delta-BHC	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
Dieldrin	U		0.000030	0.00010	mg/L	1	11-Oct-2023 22:39
Endosulfan I	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
Endosulfan II	U		0.000020	0.00010	mg/L	1	11-Oct-2023 22:39
Endosulfan sulfate	U		0.000030	0.00010	mg/L	1	11-Oct-2023 22:39
Endrin	U		0.000030	0.00010	mg/L	1	11-Oct-2023 22:39
Endrin aldehyde	U		0.000030	0.00010	mg/L	1	11-Oct-2023 22:39
gamma-BHC	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
Heptachlor	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
Heptachlor epoxide	U		0.000010	0.000050	mg/L	1	11-Oct-2023 22:39
Methoxychlor	U		0.00015	0.00050	mg/L	1	11-Oct-2023 22:39
Toxaphene	U		0.00019	0.00050	mg/L	1	11-Oct-2023 22:39
Surr: Decachlorobiphenyl	123			30-150	%REC	1	11-Oct-2023 22:39
Surr: Tetrachloro-m-xylene	84.0			30-150	%REC	1	11-Oct-2023 22:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081		Prep: SW3541 / 02-Oct-2023		Analyst: JBA	
4,4'-DDD	U		0.0045	0.030	mg/Kg-dry	5	04-Oct-2023 15:26
4,4'-DDE	0.080	P	0.0045	0.030	mg/Kg-dry	5	04-Oct-2023 15:26
4,4'-DDT	0.0050	J	0.0045	0.030	mg/Kg-dry	5	04-Oct-2023 15:26
Aldrin	U		0.0027	0.015	mg/Kg-dry	5	04-Oct-2023 15:26
alpha-BHC	U		0.0027	0.015	mg/Kg-dry	5	04-Oct-2023 15:26
beta-BHC	0.0078	J	0.0027	0.015	mg/Kg-dry	5	04-Oct-2023 15:26
Chlordane	U		0.018	0.15	mg/Kg-dry	5	04-Oct-2023 15:26
delta-BHC	0.0065	J	0.0018	0.015	mg/Kg-dry	5	04-Oct-2023 15:26
Dieldrin	U		0.0045	0.030	mg/Kg-dry	5	04-Oct-2023 15:26
Endosulfan I	U		0.0027	0.015	mg/Kg-dry	5	04-Oct-2023 15:26
Endosulfan II	U		0.0054	0.030	mg/Kg-dry	5	04-Oct-2023 15:26
Endosulfan sulfate	U		0.0054	0.030	mg/Kg-dry	5	04-Oct-2023 15:26
Endrin	0.011	J	0.0054	0.030	mg/Kg-dry	5	04-Oct-2023 15:26
Endrin aldehyde	0.013	J	0.0054	0.030	mg/Kg-dry	5	04-Oct-2023 15:26
gamma-BHC	0.0036	J	0.0018	0.015	mg/Kg-dry	5	04-Oct-2023 15:26
Heptachlor	U		0.0027	0.015	mg/Kg-dry	5	04-Oct-2023 15:26
Heptachlor epoxide	U		0.0027	0.015	mg/Kg-dry	5	04-Oct-2023 15:26
Methoxychlor	U		0.030	0.15	mg/Kg-dry	5	04-Oct-2023 15:26
Toxaphene	U		0.043	0.15	mg/Kg-dry	5	04-Oct-2023 15:26
<i>Surr: Decachlorobiphenyl</i>	<i>106</i>			<i>59-144</i>	<i>%REC</i>	<i>5</i>	<i>04-Oct-2023 15:26</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>118</i>			<i>56.9-130</i>	<i>%REC</i>	<i>5</i>	<i>04-Oct-2023 15:26</i>
PCBS BY SW8082A		Method: SW8082		Prep: SW3541/3665A / 10-Oct-2023		Analyst: PJM	
Aroclor 1016	U		0.0075	0.030	mg/Kg-dry	1	10-Oct-2023 20:05
Aroclor 1221	U		0.010	0.030	mg/Kg-dry	1	10-Oct-2023 20:05
Aroclor 1232	U		0.0080	0.030	mg/Kg-dry	1	10-Oct-2023 20:05
Aroclor 1242	U		0.011	0.030	mg/Kg-dry	1	10-Oct-2023 20:05
Aroclor 1248	U		0.011	0.030	mg/Kg-dry	1	10-Oct-2023 20:05
Aroclor 1254	U		0.0084	0.030	mg/Kg-dry	1	10-Oct-2023 20:05
Aroclor 1260	U		0.0071	0.030	mg/Kg-dry	1	10-Oct-2023 20:05
<i>Surr: Decachlorobiphenyl</i>	<i>131</i>			<i>54-143</i>	<i>%REC</i>	<i>1</i>	<i>10-Oct-2023 20:05</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>110</i>			<i>50-140</i>	<i>%REC</i>	<i>1</i>	<i>10-Oct-2023 20:05</i>
TCLP HERBICIDES BY SW8151A		Method: SW8151A		Leache: SW1311 / 03-Oct-2023	Prep: SW8151A / 09-Oct-2023		Analyst: JBA
2,4,5-TP (Silvex)	U		0.000050	0.00020	mg/L	1	12-Oct-2023 18:13
2,4-D	U		0.000060	0.00020	mg/L	1	12-Oct-2023 18:13
<i>Surr: DCAA</i>	<i>84.1</i>			<i>40-140</i>	<i>%REC</i>	<i>1</i>	<i>12-Oct-2023 18:13</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT
 WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 03-Oct-2023	Prep: SW3010A / 09-Oct-2023		Analyst: MSC
Antimony	0.0353	J	0.00400	0.0500	mg/L	1	09-Oct-2023 15:45
Arsenic	0.00684	J	0.00400	0.0500	mg/L	1	09-Oct-2023 15:45
Barium	0.213		0.0190	0.200	mg/L	1	09-Oct-2023 15:45
Beryllium		U	0.00200	0.0200	mg/L	1	09-Oct-2023 15:45
Cadmium		U	0.00200	0.0500	mg/L	1	09-Oct-2023 15:45
Chromium		U	0.00400	0.0500	mg/L	1	09-Oct-2023 15:45
Cobalt	0.00716	J	0.00200	0.0500	mg/L	1	09-Oct-2023 15:45
Copper		U	0.0100	0.0200	mg/L	1	09-Oct-2023 15:45
Lead		U	0.00600	0.0500	mg/L	1	09-Oct-2023 15:45
Nickel	0.0717		0.00600	0.0500	mg/L	1	09-Oct-2023 15:45
Selenium	0.0327	J	0.0110	0.0500	mg/L	1	09-Oct-2023 15:45
Silver		U	0.00200	0.0500	mg/L	1	09-Oct-2023 15:45
Thallium	0.00677	J	0.00200	0.0200	mg/L	1	09-Oct-2023 15:45
Tin		U	0.0150	0.0500	mg/L	1	09-Oct-2023 15:45
Vanadium	0.0102	J	0.00600	0.0500	mg/L	1	09-Oct-2023 15:45
Zinc	0.451		0.0200	0.0500	mg/L	1	09-Oct-2023 15:45
EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 03-Oct-2023	Prep: SW3010A / 09-Oct-2023		Analyst: JC
Antimony	0.0599		0.00400	0.0500	mg/L	1	10-Oct-2023 22:16
Arsenic	0.0112	J	0.00400	0.0500	mg/L	1	10-Oct-2023 22:16
Barium	0.0248	J	0.0190	0.200	mg/L	1	10-Oct-2023 22:16
Beryllium		U	0.00200	0.0200	mg/L	1	10-Oct-2023 22:16
Cadmium		U	0.00200	0.0500	mg/L	1	10-Oct-2023 22:16
Chromium	0.00950	J	0.00400	0.0500	mg/L	1	10-Oct-2023 22:16
Cobalt	0.00584	J	0.00200	0.0500	mg/L	1	10-Oct-2023 22:16
Copper		U	0.0100	0.0200	mg/L	1	10-Oct-2023 22:16
Lead		U	0.00600	0.0500	mg/L	1	10-Oct-2023 22:16
Nickel	0.0219	J	0.00600	0.0500	mg/L	1	10-Oct-2023 22:16
Selenium	0.189		0.0110	0.0500	mg/L	1	10-Oct-2023 22:16
Silver		U	0.00200	0.0500	mg/L	1	10-Oct-2023 22:16
Thallium	0.00959	J	0.00200	0.0200	mg/L	1	10-Oct-2023 22:16
Tin		U	0.0150	0.0500	mg/L	1	10-Oct-2023 22:16
Vanadium	0.0961		0.00600	0.0500	mg/L	1	10-Oct-2023 22:16
Zinc		U	0.0200	0.0500	mg/L	1	10-Oct-2023 22:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 03-Oct-2023	Prep: SW3010A / 09-Oct-2023		Analyst: JC
Antimony	0.0348	J	0.00400	0.0500	mg/L	1	10-Oct-2023 21:52
Arsenic	0.00676	J	0.00400	0.0500	mg/L	1	10-Oct-2023 21:52
Barium	0.0861	J	0.0190	0.200	mg/L	1	10-Oct-2023 21:52
Beryllium	U		0.00200	0.0200	mg/L	1	10-Oct-2023 21:52
Cadmium	U		0.00200	0.0500	mg/L	1	10-Oct-2023 21:52
Chromium	0.00430	J	0.00400	0.0500	mg/L	1	10-Oct-2023 21:52
Cobalt	0.00359	J	0.00200	0.0500	mg/L	1	10-Oct-2023 21:52
Copper	U		0.0100	0.0200	mg/L	1	10-Oct-2023 21:52
Lead	U		0.00600	0.0500	mg/L	1	10-Oct-2023 21:52
Nickel	0.0196	J	0.00600	0.0500	mg/L	1	10-Oct-2023 21:52
Selenium	0.0310	J	0.0110	0.0500	mg/L	1	10-Oct-2023 21:52
Silver	U		0.00200	0.0500	mg/L	1	10-Oct-2023 21:52
Thallium	0.00960	J	0.00200	0.0200	mg/L	1	10-Oct-2023 21:52
Tin	U		0.0150	0.0500	mg/L	1	10-Oct-2023 21:52
Vanadium	0.00809	J	0.00600	0.0500	mg/L	1	10-Oct-2023 21:52
Zinc	U		0.0200	0.0500	mg/L	1	10-Oct-2023 21:52
METALS BY SW6020A		Method: SW6020A			Prep: SW3050B / 09-Oct-2023		Analyst: JC
Antimony	6.24		0.113	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Arsenic	8.06		0.122	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Barium	177		0.0521	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Beryllium	0.183	J	0.0365	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Cadmium	0.604	J	0.0469	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Chromium	44.7		0.0399	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Cobalt	6.04		0.0260	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Copper	40.9		0.0660	0.347	mg/Kg-dry	1	09-Oct-2023 21:57
Lead	14.9		0.0226	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Nickel	70.1		0.0833	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Selenium	54.2		0.158	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Silver	0.341	J	0.0260	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Thallium	U		0.387	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Tin	8.73		0.111	1.74	mg/Kg-dry	1	09-Oct-2023 21:57
Vanadium	139		0.130	0.868	mg/Kg-dry	1	09-Oct-2023 21:57
Zinc	4,790		29.5	86.8	mg/Kg-dry	100	10-Oct-2023 13:15
TCLP MERCURY AT PH 10 BY SW7470A		Method: SW7040		Leache: SW1311 / 03-Oct-2023	Prep: SW7040 / 11-Oct-2023		Analyst: JS
Mercury	U		0.0000400	0.000200	mg/L	1	11-Oct-2023 17:15
TCLP MERCURY AT PH 7 BY SW7470A		Method: SW7040		Leache: SW1311 / 03-Oct-2023	Prep: SW7040 / 11-Oct-2023		Analyst: JS
Mercury	U		0.0000400	0.000200	mg/L	1	11-Oct-2023 17:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-03-SL-20230926
 Collection Date: 26-Sep-2023 09:35

ANALYTICAL REPORT
 WorkOrder: HS23091749
 Lab ID: HS23091749-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP MERCURY BY SW7470A		Method: SW7470A		Leache: SW1311 / 03-Oct-2023	Prep: SW7470A / 11-Oct-2023		Analyst: JS
Mercury	U		0.0000300	0.000200	mg/L	1	11-Oct-2023 14:28
MERCURY BY SW7471B		Method: SW7471B			Prep: SW7471B / 10-Oct-2023		Analyst: JS
Mercury	1.74		0.00174	0.0123	mg/Kg-dry	2	10-Oct-2023 12:05
MOISTURE - ASTM D2216		Method: ASTM D2216					Analyst: MR
Percent Moisture	44.3		0.0100	0.0100	wt%	1	11-Oct-2023 08:56
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B		Method: ASTM D92-12b					Analyst: MZD
Flash Point	>212		50.0	50.0	°F	1	10-Oct-2023 11:00
LEACHED SULFIDE		Method: SM4500 S2-F			Prep: ASTM Leachate / 02-Oct-2023		Analyst: CD
Sulfide	U		4.49	8.97	mg/Kg-dry	1	02-Oct-2023 15:06
REACTIVE CYANIDE		Method: SW7.3.3.2					Analyst: MZD
Reactive Cyanide	U		100	100	mg/Kg	1	11-Oct-2023 14:39
REACTIVE SULFIDE		Method: SW7.3.4.2					Analyst: MZD
Reactive Sulfide	U		100	100	mg/Kg	1	11-Oct-2023 14:30
CYANIDE BY SW-846 9014		Method: SW9014			Prep: SW9010C / 10-Oct-2023		Analyst: MZD
Cyanide	U		0.528	3.52	mg/Kg-dry	1	10-Oct-2023 10:39
PH SOIL BY SW9045D		Method: SW9045D					Analyst: MR
pH	7.08	H	0.100	0.100	pH Units	1	09-Oct-2023 15:06
Temp Deg C @pH	19.9	H	0	0	°C	1	09-Oct-2023 15:06
ANIONS BY SW9056A		Method: SW9056			Prep: SW9056 / 06-Oct-2023		Analyst: TH
Fluoride	3.78		0.509	1.70	mg/Kg-dry	1	07-Oct-2023 11:30
SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A		Method: NA					Analyst: SUB
Subcontract Analysis	See Attached		0			1	30-Nov-2023 15:35
SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES		Method: NA					Analyst: SUB
Subcontract Analysis	See Attached		0			1	13-Oct-2023 20:26
SUBCONTRACTED ANALYSIS		Method: NA					Analyst: SUBHO
Miscellaneous Analysis	See Attached		0		NA	1	12-Oct-2023 08:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: TB-03-SL-20230926
 Collection Date: 26-Sep-2023 00:00

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-02
 Matrix: Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
VOLATILES - SW8260C		Method: SW8260			Analyst: PC			
1,1,1,2-Tetrachloroethane	U		0.00030	0.0050	mg/L	1	02-Oct-2023 18:30	
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	02-Oct-2023 18:30	
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	02-Oct-2023 18:30	
1,2-Dichlorobenzene	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	02-Oct-2023 18:30	
1,3-Dichlorobenzene	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
1,4-Dichlorobenzene	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
1,4-Dioxane	U		0.0050	0.010	mg/L	1	02-Oct-2023 18:30	
2-Butanone	U		0.0010	0.010	mg/L	1	02-Oct-2023 18:30	
2-Chloro-1,3-butadiene	U		0.0010	0.0050	mg/L	1	02-Oct-2023 18:30	
2-Hexanone	U		0.0010	0.010	mg/L	1	02-Oct-2023 18:30	
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	02-Oct-2023 18:30	
Acetone	U		0.0020	0.010	mg/L	1	02-Oct-2023 18:30	
Acetonitrile	U		0.025	0.050	mg/L	1	02-Oct-2023 18:30	
Acrolein	U		0.0040	0.020	mg/L	1	02-Oct-2023 18:30	
Acrylonitrile	U		0.0040	0.010	mg/L	1	02-Oct-2023 18:30	
Allyl Chloride	U		0.0030	0.010	mg/L	1	02-Oct-2023 18:30	
Benzene	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Bromoform	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Bromomethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Carbon disulfide	U		0.00090	0.010	mg/L	1	02-Oct-2023 18:30	
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Chlorobenzene	U		0.00040	0.0050	mg/L	1	02-Oct-2023 18:30	
Chloroethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Chloroform	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Chloromethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Dibromomethane	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Dichlorodifluoromethane	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Ethyl methacrylate	U		0.00090	0.0050	mg/L	1	02-Oct-2023 18:30	
Ethylbenzene	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Iodomethane	U		0.0020	0.010	mg/L	1	02-Oct-2023 18:30	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: TB-03-SL-20230926
 Collection Date: 26-Sep-2023 00:00

ANALYTICAL REPORT

WorkOrder: HS23091749
 Lab ID: HS23091749-02
 Matrix: Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
VOLATILES - SW8260C		Method: SW8260			Analyst: PC			
Isobutyl alcohol	U		0.020	0.10	mg/L	1	02-Oct-2023 18:30	
Methacrylonitrile	U		0.0010	0.0050	mg/L	1	02-Oct-2023 18:30	
Methyl methacrylate	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Methylene chloride	U		0.0010	0.010	mg/L	1	02-Oct-2023 18:30	
Propionitrile	U		0.0050	0.050	mg/L	1	02-Oct-2023 18:30	
Styrene	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Toluene	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	02-Oct-2023 18:30	
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
trans-1,4-Dichloro-2-butene	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Trichloroethene	U		0.00050	0.0050	mg/L	1	02-Oct-2023 18:30	
Trichlorofluoromethane	U		0.00060	0.0050	mg/L	1	02-Oct-2023 18:30	
Vinyl acetate	U		0.0019	0.010	mg/L	1	02-Oct-2023 18:30	
Vinyl chloride	U		0.00040	0.0020	mg/L	1	02-Oct-2023 18:30	
Xylenes, Total	U		0.00050	0.015	mg/L	1	02-Oct-2023 18:30	
Surr: 1,2-Dichloroethane-d4	92.2			70-126	%REC	1	02-Oct-2023 18:30	
Surr: 4-Bromofluorobenzene	87.3			82-124	%REC	1	02-Oct-2023 18:30	
Surr: Dibromofluoromethane	89.1			77-123	%REC	1	02-Oct-2023 18:30	
Surr: Toluene-d8	111			82-127	%REC	1	02-Oct-2023 18:30	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

Batch ID: 6408 **Start Date:** 29 Sep 2023 08:12 **End Date:** 29 Sep 2023 08:12
Method: TCLP VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS23091749-01	1	3.74 (g)	5 (mL)	1.34	TerraCore (5035A)
HS23091749-01	1	3.74 (g)	5 (mL)	1.34	TerraCore (5035A)

Batch ID: 201187 **Start Date:** 29 Sep 2023 08:30 **End Date:** 29 Sep 2023 08:30
Method: CYANIDE PREP - SW9010C **Prep Code:** CN_TS_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1 (grams)	50 (mL)	50	8-oz glass, Neat

Batch ID: 201249 **Start Date:** 02 Oct 2023 08:00 **End Date:** 02 Oct 2023 08:00
Method: PEST SOXHLET EXTRACTION **Prep Code:** PESTPR_SOX

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		30.12 (g)	10 (mL)	0.332	8-oz glass, Neat

Batch ID: 201276 **Start Date:** 02 Oct 2023 08:30 **End Date:** 02 Oct 2023 08:30
Method: ASTM LEACH PROCEDURE **Prep Code:** ASTM LEACH PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		50.02 (g)	250 (mL)	4.998	8-oz glass, Neat

Batch ID: 201311 **Start Date:** 02 Oct 2023 15:00 **End Date:** 02 Oct 2023 15:00
Method: TCLP MERCURY EXTRACTION BY SW1311 **Prep Code:** 1311LHG EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 201314 **Start Date:** 02 Oct 2023 15:00 **End Date:** 02 Oct 2023 15:00
Method: TCLP METALS EXTRACTION BY SW1311 **Prep Code:** 1311LM EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 201317 **Start Date:** 02 Oct 2023 15:00 **End Date:** 02 Oct 2023 15:00
Method: TCLP SEMIVOLATILE EXTRACTION BY SW1311 **Prep Code:** 1311LO_SV

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 201324 **Start Date:** 02 Oct 2023 15:00 **End Date:** 02 Oct 2023 15:00
Method: TCLP VOLATILE ZERO HEADSPACE EXTRACTION BY SW1311 **Prep Code:** 1311ZHE_NR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.

Project: Preliminary Joliet Delisting

WorkOrder: HS23091749

Batch ID: 201328	Start Date: 02 Oct 2023 15:00	End Date: 02 Oct 2023 15:00
Method: TCLP WATER LEACH	Prep Code: 1311_WATER LEACH	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		25 (g)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 201329	Start Date: 02 Oct 2023 15:00	End Date: 02 Oct 2023 15:00
Method: TCLP SAMPLE LEACH DI WATER	Prep Code: 1311DI LEACH	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		25 (g)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 201330	Start Date: 02 Oct 2023 15:00	End Date: 02 Oct 2023 15:00
Method: TCLP HERBICIDE EXTRACTION BY SW1311	Prep Code: 1311LO_HERB	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		150 (grams)	3000 (mL)	20	1-L WM glass, Neat

Batch ID: 201331	Start Date: 02 Oct 2023 15:00	End Date: 02 Oct 2023 15:00
Method: TCLP PESTICIDE EXTRACTION BY SW1311	Prep Code: 1311LO_PEST	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		150 (grams)	3000 (mL)	20	1-L WM glass, Neat

Batch ID: 201333	Start Date: 02 Oct 2023 15:00	End Date: 02 Oct 2023 15:00
Method: TCLP MERCURY EXTRACTION AT PH 10 BY SW1311	Prep Code: 1311LHG PH 10 EXT	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 201361	Start Date: 02 Oct 2023 15:00	End Date: 02 Oct 2023 15:00
Method: TCLP MODIFIED METALS EXTRACTION AT PH 10 BY SW1311	Prep Code: 1311LM PH10 EXT	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		150 (grams)	3000 (mL)	20	1-L WM glass, Neat

Batch ID: 201478	Start Date: 05 Oct 2023 10:30	End Date: 05 Oct 2023 10:30
Method: SV SOXHLET EXTRACTION - SW3541	Prep Code: 3541_B	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		30.12 (grams)	2 (mL)	0.0664	8-oz glass, Neat

Batch ID: 201521	Start Date: 06 Oct 2023 08:30	End Date: 06 Oct 2023 08:30
Method: 9056 ANIONS SOIL PREP	Prep Code: 9056_S_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		5.2869 (g)	50 (mL)	9.457	8-oz glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.

Project: Preliminary Joliet Delisting

WorkOrder: HS23091749

Batch ID: 201576	Start Date: 06 Oct 2023 12:30	End Date: 06 Oct 2023 12:30
Method: SV AQ SEP FUNNEL EXTRACTION - SW3510C		Prep Code: 3510_B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1000 (mL)	1 (mL)	0.001	1-L WM glass, Neat

Batch ID: 201582	Start Date: 09 Oct 2023 08:00	End Date: 09 Oct 2023 08:00
Method: METALS PREP - SOLIDS - SW3050B		Prep Code: 3050_I_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		0.5171 (g)	50 (mL)	96.69	8-oz glass, Neat

Batch ID: 201609	Start Date: 09 Oct 2023 06:30	End Date: 09 Oct 2023 06:30
Method: HERBICIDE AQ SEP FUN EXTRACT-SW8151		Prep Code: 3510_H_1311

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat

Batch ID: 201611	Start Date: 09 Oct 2023 06:30	End Date: 09 Oct 2023 06:30
Method: PEST AQ SEP FUN EXTRACT-SW3510C		Prep Code: 3510_P_1311

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat

Batch ID: 201627	Start Date: 10 Oct 2023 08:00	End Date: 10 Oct 2023 08:00
Method: MERCURY PREP - SOLID - 7471B		Prep Code: HG_S_LOWPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		0.5834 (grams)	40 (mL)	68.56	8-oz glass, Neat

Batch ID: 201640	Start Date: 09 Oct 2023 08:30	End Date: 09 Oct 2023 08:30
Method: TCLP LEACHATE DIGESTION BY SW3010A		Prep Code: 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 201658	Start Date: 09 Oct 2023 16:00	End Date: 09 Oct 2023 16:00
Method: TCLP LEACHATE DIGESTION BY SW3010A		Prep Code: 3010A_TCLP_PH10

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 201668	Start Date: 09 Oct 2023 16:00	End Date: 09 Oct 2023 16:00
Method: TCLP LEACHATE DIGESTION BY SW3010A		Prep Code: 3010A_TCLP_PH7

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

Batch ID: 201701		Start Date: 10 Oct 2023 09:00		End Date: 10 Oct 2023 09:00	
Method: CYANIDE PREP - SW9010C		Prep Code: CN_TS_PR			
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1.02 (grams)	50 (mL)	49.02	8-oz glass, Neat
Batch ID: 201711		Start Date: 10 Oct 2023 12:00		End Date: 10 Oct 2023 12:00	
Method: PCB SOXHLET EXTRACTION		Prep Code: PCBPR_SOX			
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		30.25 (g)	10 (mL)	0.3306	8-oz glass, Neat
Batch ID: 201753		Start Date: 11 Oct 2023 08:30		End Date: 11 Oct 2023 08:30	
Method: PEST AQ SEP FUN EXTRACT-SW3510C		Prep Code: 3510_P_1311			
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat
Batch ID: 201776		Start Date: 11 Oct 2023 08:30		End Date: 11 Oct 2023 08:30	
Method: MERCURY TCLP PREP BY SW7470A		Prep Code: 1311_HGPR			
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		10 (mL)	10 (mL)	1	1-L WM glass, Neat
Batch ID: 201782		Start Date: 11 Oct 2023 10:00		End Date: 11 Oct 2023 10:00	
Method: MERCURY TCLP PREP BY SW7470A		Prep Code: 1311_HGPR_PH10			
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		40 (mL)	40 (mL)	1	1-L WM glass, Neat
Batch ID: 201784		Start Date: 11 Oct 2023 10:00		End Date: 11 Oct 2023 10:00	
Method: MERCURY TCLP PREP BY SW7470A		Prep Code: 1311_HGPR_PH7			
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23091749-01		40 (mL)	40 (mL)	1	1-L WM glass, Neat

Electronic Filing: Received, Clerk's Office 04/28/2025

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 201249 (0)		Test Name : ORGANOCHLORINE PESTICIDES BY SW8081B			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		02 Oct 2023 08:00	04 Oct 2023 15:26	5
Batch ID: 201276 (0)		Test Name : LEACHED SULFIDE			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		02 Oct 2023 08:30	02 Oct 2023 15:06	1
Batch ID: 201324 (0)		Test Name : TCLP VOLATILES BY SW8260C			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	03 Oct 2023 08:00	03 Oct 2023 23:30	20
Batch ID: 201478 (0)		Test Name : SEMIVOLATILES			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		05 Oct 2023 10:30	09 Oct 2023 19:41	10
Batch ID: 201521 (0)		Test Name : ANIONS BY SW9056A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		06 Oct 2023 08:30	07 Oct 2023 11:30	1
Batch ID: 201576 (1)		Test Name : TCLP SEMIVOLATILES			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	06 Oct 2023 12:30	09 Oct 2023 18:57	1
Batch ID: 201582 (0)		Test Name : METALS BY SW6020A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		09 Oct 2023 08:00	10 Oct 2023 13:15	100
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		09 Oct 2023 08:00	09 Oct 2023 21:57	1
Batch ID: 201609 (0)		Test Name : TCLP HERBICIDES BY SW8151A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	09 Oct 2023 06:30	12 Oct 2023 18:13	1
Batch ID: 201627 (0)		Test Name : MERCURY BY SW7471B			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		10 Oct 2023 08:00	10 Oct 2023 12:05	2
Batch ID: 201640 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	09 Oct 2023 08:30	09 Oct 2023 15:45	1
Batch ID: 201658 (0)		Test Name : EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	09 Oct 2023 16:00	10 Oct 2023 22:16	1
Batch ID: 201668 (0)		Test Name : EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	09 Oct 2023 16:00	10 Oct 2023 21:52	1
Batch ID: 201701 (0)		Test Name : CYANIDE BY SW-846 9014			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		10 Oct 2023 09:00	10 Oct 2023 10:39	1
Batch ID: 201711 (1)		Test Name : PCBS BY SW8082A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35		10 Oct 2023 12:00	10 Oct 2023 20:05	1
Batch ID: 201753 (0)		Test Name : TCLP ORGANOCHLORINE PESTICIDES BY SW8081B			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	11 Oct 2023 08:30	11 Oct 2023 22:39	1
Batch ID: 201776 (0)		Test Name : TCLP MERCURY BY SW7470A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	11 Oct 2023 08:30	11 Oct 2023 14:28	1
Batch ID: 201782 (0)		Test Name : TCLP MERCURY AT PH 10 BY SW7470A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	11 Oct 2023 10:00	11 Oct 2023 17:15	1

Electronic Filing: Received, Clerk's Office 04/28/2025

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 201784 (0)		Test Name : TCLP MERCURY AT PH 7 BY SW7470A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35	03 Oct 2023 08:00	11 Oct 2023 10:00	11 Oct 2023 17:30	1
Batch ID: R447679 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			29 Sep 2023 11:50	1
Batch ID: R447941 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS23091749-02	TB-03-SL-20230926	26 Sep 2023 00:00			02 Oct 2023 18:30	1
Batch ID: R448546 (0)		Test Name : PH SOIL BY SW9045D			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			09 Oct 2023 15:06	1
Batch ID: R448625 (0)		Test Name : FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			10 Oct 2023 11:00	1
Batch ID: R448768 (0)		Test Name : REACTIVE SULFIDE			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			11 Oct 2023 14:30	1
Batch ID: R448771 (0)		Test Name : REACTIVE CYANIDE			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			11 Oct 2023 14:39	1
Batch ID: R448814 (0)		Test Name : SUBCONTRACTED ANALYSIS			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			12 Oct 2023 08:31	1
Batch ID: R448867 (0)		Test Name : MOISTURE - ASTM D2216			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			11 Oct 2023 08:56	1
Batch ID: R449271 (0)		Test Name : SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			13 Oct 2023 20:26	1
Batch ID: R452960 (0)		Test Name : SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A			Matrix: Soil	
HS23091749-01	PTS-03-SL-20230926	26 Sep 2023 09:35			30 Nov 2023 15:35	1

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201249 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
MBLK	Sample ID: MBLK-201249	Units: mg/Kg			Analysis Date: 04-Oct-2023 17:42					
Client ID:	Run ID: ECD_15_448976	SeqNo: 7605939	PrepDate: 02-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.0033								
4,4'-DDE	U	0.0033								
4,4'-DDT	U	0.0033								
Aldrin	U	0.0017								
alpha-BHC	U	0.0017								
beta-BHC	U	0.0017								
Chlordane	U	0.017								
delta-BHC	U	0.0017								
Dieldrin	U	0.0033								
Endosulfan I	U	0.0017								
Endosulfan II	U	0.0033								
Endosulfan sulfate	U	0.0033								
Endrin	U	0.0033								
Endrin aldehyde	U	0.0033								
gamma-BHC	U	0.0017								
Heptachlor	U	0.0017								
Heptachlor epoxide	U	0.0017								
Methoxychlor	U	0.017								
Toxaphene	U	0.017								
Surr: Decachlorobiphenyl	0.0083	0	0.006667	0	124	59 - 144				
Surr: Tetrachloro-m-xylene	0.0076	0	0.006667	0	114	56.9 - 130				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201249 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
LCS	Sample ID: LCS-201249	Units: mg/Kg			Analysis Date: 04-Oct-2023 16:24					
Client ID:	Run ID: ECD_15_448976	SeqNo: 7605937	PrepDate: 02-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.020	0.0033	0.01667	0	119	53 - 138				
4,4'-DDE	0.019	0.0033	0.01667	0	116	57 - 136				
4,4'-DDT	0.015	0.0033	0.01667	0	92.0	53 - 139				
Aldrin	0.0097	0.0017	0.008333	0	117	52 - 130				
alpha-BHC	0.010	0.0017	0.008333	0	122	52 - 130				
beta-BHC	0.010	0.0017	0.008333	0	121	62 - 130				
delta-BHC	0.011	0.0017	0.008333	0	126	41 - 137				
Dieldrin	0.018	0.0033	0.01667	0	108	54 - 138				
Endosulfan I	0.0090	0.0017	0.008333	0	108	55 - 132				
Endosulfan II	0.017	0.0033	0.01667	0	101	59 - 134				
Endosulfan sulfate	0.018	0.0033	0.01667	0	111	54 - 141				
Endrin	0.019	0.0033	0.01667	0	116	60 - 157				
Endrin aldehyde	0.020	0.0033	0.01667	0	119	56 - 146				
gamma-BHC	0.0099	0.0017	0.008333	0	119	52 - 133				
Heptachlor	0.0096	0.0017	0.008333	0	115	54 - 134				
Heptachlor epoxide	0.0093	0.0017	0.008333	0	112	58 - 130				
Methoxychlor	0.081	0.017	0.0833	0	97.2	60 - 140				
<i>Surr: Decachlorobiphenyl</i>	<i>0.0087</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>130</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0080</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>120</i>	<i>56.9 - 130</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201249 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
LCSD	Sample ID: LCSD-201249	Units: mg/Kg			Analysis Date: 04-Oct-2023 16:43					
Client ID:	Run ID: ECD_15_448976	SeqNo: 7605938	PrepDate: 02-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.019	0.0033	0.01667	0	113	53 - 138	0.01989	5.4	30	
4,4'-DDE	0.017	0.0033	0.01667	0	101	57 - 136	0.01941	14.5	30	
4,4'-DDT	0.012	0.0033	0.01667	0	74.2	53 - 139	0.01534	21.5	30	
Aldrin	0.0085	0.0017	0.008333	0	102	52 - 130	0.009709	13.2	30	
alpha-BHC	0.0087	0.0017	0.008333	0	105	52 - 130	0.01020	15.6	30	
beta-BHC	0.0087	0.0017	0.008333	0	105	62 - 130	0.01008	14.3	30	
delta-BHC	0.0090	0.0017	0.008333	0	108	41 - 137	0.01053	15.2	30	
Dieldrin	0.017	0.0033	0.01667	0	99.2	54 - 138	0.01803	8.67	30	
Endosulfan I	0.0078	0.0017	0.008333	0	93.9	55 - 132	0.009011	14	30	
Endosulfan II	0.016	0.0033	0.01667	0	93.2	59 - 134	0.01688	8.34	30	
Endosulfan sulfate	0.017	0.0033	0.01667	0	103	54 - 141	0.01842	7.23	30	
Endrin	0.017	0.0033	0.01667	0	103	60 - 157	0.01932	12.1	30	
Endrin aldehyde	0.018	0.0033	0.01667	0	105	56 - 146	0.01978	12	30	
gamma-BHC	0.0087	0.0017	0.008333	0	105	52 - 133	0.009916	12.6	30	
Heptachlor	0.0084	0.0017	0.008333	0	101	54 - 134	0.009598	13.2	30	
Heptachlor epoxide	0.0083	0.0017	0.008333	0	99.8	58 - 130	0.009344	11.6	30	
Methoxychlor	0.068	0.017	0.0833	0	81.3	60 - 140	0.08097	17.9	30	
<i>Surr: Decachlorobiphenyl</i>	<i>0.0082</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>124</i>	<i>59 - 144</i>	<i>0.008674</i>	<i>5.03</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0085</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>128</i>	<i>56.9 - 130</i>	<i>0.008021</i>	<i>6.18</i>	<i>30</i>	

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201249 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
MS	Sample ID: HS23091749-01MS	Units: mg/Kg			Analysis Date: 04-Oct-2023 15:45					
Client ID: PTS-03-SL-20230926	Run ID: ECD_15_448976	SeqNo: 7606107	PrepDate: 02-Oct-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.0059	0.016	0.01651	0.0007769	31.3	53 - 138				JS
4,4'-DDE	0.045	0.016	0.01651	0.04433	5.92	57 - 136				S
4,4'-DDT	0.026	0.016	0.01651	0.002784	139	53 - 139				
Aldrin	0.0070	0.0083	0.008254	0	84.8	52 - 130				J
alpha-BHC	0.0079	0.0083	0.008254	0.0008964	85.2	52 - 130				J
beta-BHC	0.015	0.0083	0.008254	0.004354	134	62 - 130				S
delta-BHC	0.0073	0.0083	0.008254	0.003609	45.2	41 - 137				J
Dieldrin	0.0093	0.016	0.01651	0.0008981	50.9	54 - 138				JS
Endosulfan I	0.0082	0.0083	0.008254	0.00006640	98.6	55 - 132				J
Endosulfan II	0.0086	0.016	0.01651	0.0005561	49.0	59 - 134				JS
Endosulfan sulfate	0.013	0.016	0.01651	0.002218	62.4	54 - 141				J
Endrin	0.017	0.016	0.01651	0.006242	62.4	60 - 157				
Endrin aldehyde	0.019	0.016	0.01651	0.007341	69.8	56 - 146				
gamma-BHC	0.0037	0.0083	0.008254	0.002029	19.8	52 - 133				JS
Heptachlor	0.0041	0.0083	0.008254	0	50.1	54 - 134				JS
Heptachlor epoxide	0.0040	0.0083	0.008254	0.001142	34.0	58 - 130				JS
Methoxychlor	0.059	0.083	0.0825	0.002840	68.0	60 - 140				J
<i>Surr: Decachlorobiphenyl</i>	<i>0.0067</i>	<i>0</i>	<i>0.006603</i>	<i>0</i>	<i>102</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0066</i>	<i>0</i>	<i>0.006603</i>	<i>0</i>	<i>100</i>	<i>56.9 - 130</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201249 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
MSD		Sample ID: HS23091749-01MSD		Units: mg/Kg		Analysis Date: 04-Oct-2023 16:04				
Client ID: PTS-03-SL-20230926		Run ID: ECD_15_448976		SeqNo: 7606108		PrepDate: 02-Oct-2023		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.018	0.016	0.01649	0.0007769	106	53 - 138	0.005946	102	30	R
4,4'-DDE	0.054	0.016	0.01649	0.04433	59.7	57 - 136	0.04531	17.8	30	
4,4'-DDT	0.029	0.016	0.01649	0.002784	161	53 - 139	0.02570	13	30	S
Aldrin	0.0027	0.0083	0.008243	0	33.0	52 - 130	0.007001	0	30	JS
alpha-BHC	0.0087	0.0083	0.008243	0.0008964	94.8	52 - 130	0.007927	9.41	30	
beta-BHC	0.017	0.0083	0.008243	0.004354	159	62 - 130	0.01540	12.5	30	S
delta-BHC	0.0089	0.0083	0.008243	0.003609	63.9	41 - 137	0.007339	19	30	
Dieldrin	0.0082	0.016	0.01649	0.0008981	44.2	54 - 138	0.009303	0	30	JS
Endosulfan I	0.0088	0.0083	0.008243	0.00006640	106	55 - 132	0.008204	6.88	30	
Endosulfan II	0.011	0.016	0.01649	0.0005561	62.2	59 - 134	0.008640	0	30	J
Endosulfan sulfate	0.015	0.016	0.01649	0.002218	80.4	54 - 141	0.01252	0	30	J
Endrin	0.019	0.016	0.01649	0.006242	78.3	60 - 157	0.01655	14.6	30	
Endrin aldehyde	0.021	0.016	0.01649	0.007341	80.6	56 - 146	0.01885	8.98	30	
gamma-BHC	0.0041	0.0083	0.008243	0.002029	25.2	52 - 133	0.003666	0	30	JS
Heptachlor	0.0050	0.0083	0.008243	0	61.0	54 - 134	0.004132	0	30	J
Heptachlor epoxide	0.0047	0.0083	0.008243	0.001142	42.6	58 - 130	0.003952	0	30	JS
Methoxychlor	0.066	0.083	0.08239	0.002840	76.6	60 - 140	0.05896	0	30	J
<i>Surr: Decachlorobiphenyl</i>	<i>0.0067</i>	<i>0</i>	<i>0.006594</i>	<i>0</i>	<i>101</i>	<i>59 - 144</i>	<i>0.006713</i>	<i>0.452</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0071</i>	<i>0</i>	<i>0.006594</i>	<i>0</i>	<i>108</i>	<i>56.9 - 130</i>	<i>0.006636</i>	<i>6.74</i>	<i>30</i>	

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201609 (0)		Instrument: ECD_13		Method: TCLP HERBICIDES BY SW8151A						
MBLK	Sample ID: MBLK-201609	Units: mg/L			Analysis Date: 12-Oct-2023 20:52					
Client ID:	Run ID: ECD_13_449035	SeqNo: 7607158		PrepDate: 09-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	

2,4,5-TP (Silvex)	U	0.00020							
2,4-D	U	0.00020							
Surr: DCAA	0.0039	0.00020	0.005	0	78.1	40 - 140			

LCS	Sample ID: LCS-201609	Units: mg/L			Analysis Date: 12-Oct-2023 20:34				
Client ID:	Run ID: ECD_13_449035	SeqNo: 7607157		PrepDate: 09-Oct-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

2,4,5-TP (Silvex)	0.0022	0.00020	0.0025	0	87.2	40 - 140			
2,4-D	0.0022	0.00020	0.0025	0	86.2	20 - 125			
Surr: DCAA	0.0050	0.00020	0.005	0	99.2	40 - 140			

MS	Sample ID: HS23091749-01MS	Units: mg/L			Analysis Date: 12-Oct-2023 18:30				
Client ID: PTS-03-SL-20230926	Run ID: ECD_13_449035	SeqNo: 7607155		PrepDate: 09-Oct-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

2,4,5-TP (Silvex)	0.0015	0.00020	0.0025	0	61.3	40 - 140			
2,4-D	0.0015	0.00020	0.0025	0	58.5	20 - 125			
Surr: DCAA	0.0044	0.00020	0.005	0	88.7	40 - 140			

MSD	Sample ID: HS23091749-01MSD	Units: mg/L			Analysis Date: 12-Oct-2023 18:48				
Client ID: PTS-03-SL-20230926	Run ID: ECD_13_449035	SeqNo: 7607156		PrepDate: 09-Oct-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

2,4,5-TP (Silvex)	0.0014	0.00020	0.0025	0	57.6	40 - 140	0.001533	6.19	30
2,4-D	0.0014	0.00020	0.0025	0	55.7	20 - 125	0.001462	4.82	30
Surr: DCAA	0.0041	0.00020	0.005	0	82.8	40 - 140	0.004434	6.85	30

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201711 (1)	Instrument: ECD_7	Method: PCBS BY SW8082A
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MBLK	Sample ID: MBLK-201711	Units: mg/Kg		Analysis Date: 10-Oct-2023 21:58						
Client ID:	Run ID: ECD_7_448717	SeqNo: 7599788		PrepDate: 10-Oct-2023			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	0.017								
Aroclor 1221	U	0.017								
Aroclor 1232	U	0.017								
Aroclor 1242	U	0.017								
Aroclor 1248	U	0.017								
Aroclor 1254	U	0.017								
Aroclor 1260	U	0.017								
<i>Surr: Decachlorobiphenyl</i>	<i>0.0045</i>	<i>0.0016</i>	<i>0.006667</i>	<i>0</i>	<i>67.8</i>	<i>54 - 143</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0051</i>	<i>0.0016</i>	<i>0.006667</i>	<i>0</i>	<i>75.9</i>	<i>50 - 140</i>				

LCS	Sample ID: LCS-201711	Units: mg/Kg		Analysis Date: 10-Oct-2023 21:46						
Client ID:	Run ID: ECD_7_448717	SeqNo: 7599787		PrepDate: 10-Oct-2023			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	0.14	0.017	0.1667	0	82.4	53 - 135				
Aroclor 1260	0.14	0.017	0.1667	0	85.1	54 - 137				
<i>Surr: Decachlorobiphenyl</i>	<i>0.0046</i>	<i>0.0016</i>	<i>0.006667</i>	<i>0</i>	<i>69.5</i>	<i>54 - 143</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0051</i>	<i>0.0016</i>	<i>0.006667</i>	<i>0</i>	<i>77.2</i>	<i>50 - 140</i>				

MS	Sample ID: HS23091749-01MS	Units: mg/Kg		Analysis Date: 10-Oct-2023 20:17						
Client ID: PTS-03-SL-20230926	Run ID: ECD_7_448717	SeqNo: 7599785		PrepDate: 10-Oct-2023			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	0.23	0.017	0.166	0	137	53 - 135				S
Aroclor 1260	0.26	0.017	0.166	0	159	54 - 137				S
<i>Surr: Decachlorobiphenyl</i>	<i>0.0093</i>	<i>0.0016</i>	<i>0.006638</i>	<i>0</i>	<i>140</i>	<i>54 - 143</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0058</i>	<i>0.0016</i>	<i>0.006638</i>	<i>0</i>	<i>87.1</i>	<i>50 - 140</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201711 (1) **Instrument:** ECD_7 **Method:** PCBS BY SW8082A

MSD Sample ID: **HS23091749-01MSD** Units: **mg/Kg** Analysis Date: **10-Oct-2023 20:30**
 Client ID: **PTS-03-SL-20230926** Run ID: **ECD_7_448717** SeqNo: **7599786** PrepDate: **10-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Aroclor 1016	0.16	0.017	0.1647	0	97.6	53 - 135	0.2280	34.6	30	R
Aroclor 1260	0.26	0.017	0.1647	0	158	54 - 137	0.2636	1.52	30	S
Surr: Decachlorobiphenyl	0.0079	0.0016	0.006588	0	121	54 - 143	0.009267	15.3	30	
Surr: Tetrachloro-m-xylene	0.0063	0.0016	0.006588	0	95.2	50 - 140	0.005783	8.1	30	

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201753 (0)		Instrument: ECD_11		Method: TCLP ORGANOCHLORINE PESTICIDES BY SW8081B						
MBLK	Sample ID: MBLK-201753	Units: mg/L			Analysis Date: 12-Oct-2023 00:02					
Client ID:	Run ID: ECD_11_448908	SeqNo: 7604283	PrepDate: 11-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.00010								
4,4'-DDE	U	0.00010								
4,4'-DDT	U	0.00010								
Aldrin	U	0.000050								
alpha-BHC	U	0.000050								
beta-BHC	U	0.000050								
Chlordane	U	0.00050								
delta-BHC	U	0.000050								
Dieldrin	U	0.00010								
Endosulfan I	U	0.000050								
Endosulfan II	U	0.00010								
Endosulfan sulfate	U	0.00010								
Endrin	U	0.00010								
Endrin aldehyde	U	0.00010								
gamma-BHC	U	0.000050								
Heptachlor	U	0.000050								
Heptachlor epoxide	U	0.000050								
Methoxychlor	U	0.00050								
Toxaphene	U	0.00050								
Surr: Decachlorobiphenyl	0.00026	0.00010	0.0002	0	129	30 - 150				
Surr: Tetrachloro-m-xylene	0.00017	0.000050	0.0002	0	85.1	30 - 150				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201753 (0)		Instrument: ECD_11		Method: TCLP ORGANOCHLORINE PESTICIDES BY SW8081B						
LCS	Sample ID: LCS-201753	Units: mg/L			Analysis Date: 11-Oct-2023 23:42					
Client ID:	Run ID: ECD_11_448908	SeqNo: 7604282	PrepDate: 11-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00043	0.00010	0.0005	0	85.9	40 - 140				
4,4'-DDE	0.00044	0.00010	0.0005	0	88.7	40 - 140				
4,4'-DDT	0.00043	0.00010	0.0005	0	86.6	40 - 141				
Aldrin	0.00023	0.000050	0.00025	0	90.9	29 - 128				
alpha-BHC	0.00023	0.000050	0.00025	0	90.7	50 - 150				
beta-BHC	0.00021	0.000050	0.00025	0	85.4	50 - 150				
delta-BHC	0.00023	0.000050	0.00025	0	91.4	50 - 150				
Dieldrin	0.00044	0.00010	0.0005	0	87.4	54 - 124				
Endosulfan I	0.00020	0.000050	0.00025	0	80.6	50 - 150				
Endosulfan II	0.00043	0.00010	0.0005	0	86.8	50 - 150				
Endosulfan sulfate	0.00047	0.00010	0.0005	0	93.7	50 - 150				
Endrin	0.00050	0.00010	0.0005	0	100	54 - 148				
Endrin aldehyde	0.00047	0.00010	0.0005	0	94.9	50 - 150				
gamma-BHC	0.00022	0.000050	0.00025	0	90.0	58 - 130				
Heptachlor	0.00023	0.000050	0.00025	0	93.0	40 - 140				
Heptachlor epoxide	0.00022	0.000050	0.00025	0	89.0	40 - 140				
Methoxychlor	0.0023	0.00050	0.0025	0	90.4	50 - 150				
<i>Surr: Decachlorobiphenyl</i>	<i>0.00026</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>128</i>	<i>30 - 150</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00016</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>82.3</i>	<i>30 - 150</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201753 (0)		Instrument: ECD_11		Method: TCLP ORGANOCHLORINE PESTICIDES BY SW8081B						
MS	Sample ID: HS23091749-01MS	Units: mg/L			Analysis Date: 11-Oct-2023 23:00					
Client ID: PTS-03-SL-20230926	Run ID: ECD_11_448908	SeqNo: 7604280	PrepDate: 11-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00039	0.00010	0.0005	0	78.4	40 - 140				
4,4'-DDE	0.00040	0.00010	0.0005	0	80.2	40 - 140				
4,4'-DDT	0.00046	0.00010	0.0005	0	91.1	40 - 141				
Aldrin	0.00020	0.000050	0.00025	0	81.7	29 - 128				
alpha-BHC	0.00025	0.000050	0.00025	0	98.3	50 - 150				
beta-BHC	0.00019	0.000050	0.00025	0	74.3	50 - 150				
delta-BHC	0.00023	0.000050	0.00025	0	90.1	50 - 150				
Dieldrin	0.00041	0.00010	0.0005	0	81.1	54 - 124				
Endosulfan I	0.00019	0.000050	0.00025	0	75.5	50 - 150				
Endosulfan II	0.00041	0.00010	0.0005	0	82.7	50 - 150				
Endosulfan sulfate	0.00042	0.00010	0.0005	0	84.9	50 - 150				
Endrin	0.00064	0.00010	0.0005	0	128	54 - 148				
Endrin aldehyde	0.00041	0.00010	0.0005	0	81.9	50 - 150				
gamma-BHC	0.00021	0.000050	0.00025	0	83.8	58 - 130				
Heptachlor	0.00022	0.000050	0.00025	0	90.0	40 - 140				
Heptachlor epoxide	0.00021	0.000050	0.00025	0	83.6	40 - 140				
Methoxychlor	0.0023	0.00050	0.0025	0	91.0	50 - 150				
<i>Surr: Decachlorobiphenyl</i>	<i>0.00024</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>118</i>	<i>30 - 150</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00016</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>82.2</i>	<i>30 - 150</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201753 (0)		Instrument: ECD_11		Method: TCLP ORGANOCHLORINE PESTICIDES BY SW8081B						
MSD	Sample ID: HS23091749-01MSD	Units: mg/L			Analysis Date: 11-Oct-2023 23:21					
Client ID: PTS-03-SL-20230926	Run ID: ECD_11_448908	SeqNo: 7604281	PrepDate: 11-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00042	0.00010	0.0005	0	84.3	40 - 140	0.0003921	7.28	20	
4,4'-DDE	0.00042	0.00010	0.0005	0	85.0	40 - 140	0.0004009	5.84	20	
4,4'-DDT	0.00048	0.00010	0.0005	0	96.8	40 - 141	0.0004554	6.07	20	
Aldrin	0.00021	0.000050	0.00025	0	82.5	29 - 128	0.0002043	0.984	20	
alpha-BHC	0.00025	0.000050	0.00025	0	99.0	50 - 150	0.0002458	0.689	20	
beta-BHC	0.00018	0.000050	0.00025	0	73.7	50 - 150	0.0001856	0.762	20	
delta-BHC	0.00023	0.000050	0.00025	0	92.8	50 - 150	0.0002252	2.96	20	
Dieldrin	0.00042	0.00010	0.0005	0	84.6	54 - 124	0.0004055	4.25	20	
Endosulfan I	0.00020	0.000050	0.00025	0	79.1	50 - 150	0.0001888	4.66	20	
Endosulfan II	0.00044	0.00010	0.0005	0	88.1	50 - 150	0.0004133	6.39	20	
Endosulfan sulfate	0.00045	0.00010	0.0005	0	90.3	50 - 150	0.0004247	6.1	20	
Endrin	0.00067	0.00010	0.0005	0	133	54 - 148	0.0006393	4.22	20	
Endrin aldehyde	0.00043	0.00010	0.0005	0	86.7	50 - 150	0.0004093	5.7	20	
gamma-BHC	0.00021	0.000050	0.00025	0	84.7	58 - 130	0.0002096	0.987	20	
Heptachlor	0.00022	0.000050	0.00025	0	89.9	40 - 140	0.0002249	0.125	20	
Heptachlor epoxide	0.00021	0.000050	0.00025	0	85.5	40 - 140	0.0002091	2.23	20	
Methoxychlor	0.0025	0.00050	0.0025	0	98.1	50 - 150	0.002274	7.53	20	
<i>Surr: Decachlorobiphenyl</i>	<i>0.00026</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>129</i>	<i>30 - 150</i>	<i>0.0002358</i>	<i>8.88</i>	<i>20</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00017</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>82.8</i>	<i>30 - 150</i>	<i>0.0001643</i>	<i>0.806</i>	<i>20</i>	

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201582 (0) **Instrument:** ICPMS05 **Method:** METALS BY SW6020A

MBLK Sample ID: **MBLK-201582** Units: **mg/Kg** Analysis Date: **10-Oct-2023 12:14**
 Client ID: Run ID: **ICPMS05_448599** SeqNo: **7597130** PrepDate: **09-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Antimony	U	0.498								
Arsenic	U	0.498								
Barium	U	0.498								
Beryllium	U	0.498								
Cadmium	U	0.498								
Chromium	U	0.498								
Cobalt	U	0.498								
Copper	U	0.199								
Lead	U	0.498								
Nickel	U	0.498								
Selenium	U	0.498								
Silver	U	0.498								
Thallium	U	0.498								
Tin	U	0.997								
Vanadium	0.08541	0.498								J
Zinc	U	0.498								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201582 (0) **Instrument:** ICPMS05 **Method:** METALS BY SW6020A

LCS		Sample ID: LCS-201582			Units: mg/Kg		Analysis Date: 09-Oct-2023 21:55			
Client ID:		Run ID: ICPMS05_448527			SeqNo: 7595787		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	9.901	0.497	9.93	0	99.7	80 - 120				
Arsenic	10.01	0.497	9.93	0	101	80 - 120				
Barium	10.19	0.497	9.93	0	103	80 - 120				
Beryllium	9.037	0.497	9.93	0	91.0	80 - 120				
Cadmium	10.16	0.497	9.93	0	102	80 - 120				
Chromium	10.02	0.497	9.93	0	101	80 - 120				
Cobalt	9.897	0.497	9.93	0	99.7	80 - 120				
Copper	10.04	0.199	9.93	0	101	80 - 120				
Lead	10.16	0.497	9.93	0	102	80 - 120				
Nickel	10.01	0.497	9.93	0	101	80 - 120				
Selenium	9.825	0.497	9.93	0	98.9	80 - 120				
Silver	9.986	0.497	9.93	0	101	80 - 120				
Thallium	10.09	0.497	9.93	0	102	80 - 120				
Tin	11.46	0.993	9.93	0	115	80 - 120				
Vanadium	9.945	0.497	9.93	0	100	80 - 120				
Zinc	9.59	0.497	9.93	0	96.6	80 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201582 (0) **Instrument:** ICPMS05 **Method:** METALS BY SW6020A

MS Sample ID: **HS23091749-01MS** Units: **mg/Kg** Analysis Date: **09-Oct-2023 22:01**
Client ID: **PTS-03-SL-20230926** **Run ID:** **ICPMS05_448527** **SeqNo:** **7595755** **PrepDate:** **09-Oct-2023** **DF:** **1**
Analyte **Result** **PQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%RPD** **RPD Limit** **Qual**

Antimony	7.892	0.476	9.511	3.475	46.4	75 - 125				S
Arsenic	13.64	0.476	9.511	4.49	96.2	75 - 125				
Barium	95.74	0.476	9.511	98.75	-31.6	75 - 125				SO
Beryllium	8.496	0.476	9.511	0.1017	88.3	75 - 125				
Cadmium	8.752	0.476	9.511	0.3366	88.5	75 - 125				
Chromium	31.17	0.476	9.511	24.88	66.1	75 - 125				S
Cobalt	12.2	0.476	9.511	3.364	92.9	75 - 125				
Copper	30.24	0.190	9.511	22.76	78.7	75 - 125				
Lead	20.44	0.476	9.511	8.323	127	75 - 125				S
Nickel	50.47	0.476	9.511	39.07	120	75 - 125				O
Selenium	36.01	0.476	9.511	30.22	60.9	75 - 125				S
Silver	8.147	0.476	9.511	0.1898	83.7	75 - 125				
Thallium	8.669	0.476	9.511	0.1682	89.4	75 - 125				
Tin	12.08	0.951	9.511	4.861	75.9	75 - 125				
Vanadium	73.68	0.476	9.511	77.23	-37.3	75 - 125				SO
Zinc	954.8	0.476	9.511	1047	-964	75 - 125				SEO

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201582 (0)		Instrument: ICPMS05			Method: METALS BY SW6020A					
MSD		Sample ID: HS23091749-01MSD			Units: mg/Kg		Analysis Date: 09-Oct-2023 22:03			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS05_448527			SeqNo: 7595756		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	7.752	0.476	9.518	3.475	44.9	75 - 125	7.892	1.8	20	S
Arsenic	13.73	0.476	9.518	4.49	97.1	75 - 125	13.64	0.683	20	
Barium	99.47	0.476	9.518	98.75	7.57	75 - 125	95.74	3.82	20	SO
Beryllium	8.101	0.476	9.518	0.1017	84.0	75 - 125	8.496	4.76	20	
Cadmium	8.612	0.476	9.518	0.3366	86.9	75 - 125	8.752	1.61	20	
Chromium	31.58	0.476	9.518	24.88	70.4	75 - 125	31.17	1.31	20	S
Cobalt	12.05	0.476	9.518	3.364	91.2	75 - 125	12.2	1.25	20	
Copper	29.55	0.190	9.518	22.76	71.4	75 - 125	30.24	2.29	20	S
Lead	16.41	0.476	9.518	8.323	84.9	75 - 125	20.44	21.9	20	R
Nickel	44.88	0.476	9.518	39.07	61.0	75 - 125	50.47	11.7	20	SO
Selenium	37.44	0.476	9.518	30.22	75.9	75 - 125	36.01	3.91	20	
Silver	7.953	0.476	9.518	0.1898	81.6	75 - 125	8.147	2.4	20	
Thallium	8.499	0.476	9.518	0.1682	87.5	75 - 125	8.669	1.98	20	
Tin	12.48	0.952	9.518	4.861	80.1	75 - 125	12.08	3.29	20	
Vanadium	79.47	0.476	9.518	77.23	23.6	75 - 125	73.68	7.56	20	SO
Zinc	1032	0.476	9.518	1047	-153	75 - 125	954.8	7.76	20	SEO

PDS		Sample ID: HS23091749-01PDS			Units: mg/Kg		Analysis Date: 10-Oct-2023 12:16			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS05_448599			SeqNo: 7597131		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	14.18	0.483	9.669	3.475	111	75 - 125				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201582 (0) **Instrument:** ICPMS05 **Method:** METALS BY SW6020A

PDS		Sample ID: HS23091749-01PDS			Units: mg/Kg		Analysis Date: 09-Oct-2023 22:05			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS05_448527			SeqNo: 7595757		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	109.6	0.483	9.669	98.75	113	75 - 125				O
Beryllium	10.54	0.483	9.669	0.1017	108	75 - 125				
Cadmium	11.26	0.483	9.669	0.3366	113	75 - 125				
Chromium	35.75	0.483	9.669	24.88	112	75 - 125				
Cobalt	14.65	0.483	9.669	3.364	117	75 - 125				
Copper	33.35	0.193	9.669	22.76	110	75 - 125				
Lead	19.47	0.483	9.669	8.323	115	75 - 125				
Nickel	50.35	0.483	9.669	39.07	117	75 - 125				O
Selenium	41.84	0.483	9.669	30.22	120	75 - 125				
Thallium	11.49	0.483	9.669	0.1682	117	75 - 125				
Tin	16.5	0.967	9.669	4.861	120	75 - 125				
Vanadium	87.64	0.483	9.669	77.23	108	75 - 125				O

PDS		Sample ID: HS23091749-01PDS			Units: mg/Kg		Analysis Date: 10-Oct-2023 13:19			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS05_448599			SeqNo: 7597320		PrepDate: 09-Oct-2023		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	2702	48.3	966.9	2669	3.39	75 - 125				S

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201582 (0)		Instrument: ICPMS05		Method: METALS BY SW6020A					
SD	Sample ID: HS23091749-01SD		Units: mg/Kg		Analysis Date: 09-Oct-2023 21:59				
Client ID: PTS-03-SL-20230926	Run ID: ICPMS05_448527		SeqNo: 7595789		PrepDate: 09-Oct-2023		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual

Antimony	3.531	2.42					3.475	1.61	10
Arsenic	4.523	2.42					4.49	0.743	10
Barium	99.88	2.42					98.75	1.15	10
Beryllium	0.1316	2.42					0.1017	0	10 J
Cadmium	0.339	2.42					0.3366	0	10 J
Chromium	24.58	2.42					24.88	1.2	10
Cobalt	3.419	2.42					3.364	1.63	10
Copper	23.89	0.967					22.76	4.99	10
Lead	8.587	2.42					8.323	3.16	10
Nickel	40.84	2.42					39.07	4.53	10
Selenium	30	2.42					30.22	0.715	10
Silver	0.1914	2.42					0.1898	0	10 J
Thallium	U	2.42					0.1682	0	10
Tin	4.915	4.83					4.861	1.1	10
Vanadium	75.99	2.42					77.23	1.6	10

SD	Sample ID: HS23091749-01SD		Units: mg/Kg		Analysis Date: 10-Oct-2023 13:17				
Client ID: PTS-03-SL-20230926	Run ID: ICPMS05_448599		SeqNo: 7597319		PrepDate: 09-Oct-2023		DF: 500		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual

Zinc	2758	242					2669	3.35	10
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The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201627 (0)	Instrument: HG04	Method: MERCURY BY SW7471B		
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MBLK	Sample ID: MBLK-201627		Units: mg/Kg	Analysis Date: 10-Oct-2023 11:55					
Client ID:		Run ID: HG04_448612		SeqNo: 7597085	PrepDate: 10-Oct-2023	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual	

Mercury U 0.00332

LCS	Sample ID: LCS-201627		Units: mg/Kg	Analysis Date: 10-Oct-2023 11:56					
Client ID:		Run ID: HG04_448612		SeqNo: 7597086	PrepDate: 10-Oct-2023	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual	

Mercury 0.350 0.00332 0.3333 0 105 85 - 115

MS	Sample ID: HS23091749-01MS		Units: mg/Kg	Analysis Date: 10-Oct-2023 12:07					
Client ID: PTS-03-SL-20230926		Run ID: HG04_448612		SeqNo: 7597088	PrepDate: 10-Oct-2023	DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual	

Mercury 1.22 0.00666 0.334 0.9681 74.1 85 - 115 S

MSD	Sample ID: HS23091749-01MSD		Units: mg/Kg	Analysis Date: 10-Oct-2023 12:09					
Client ID: PTS-03-SL-20230926		Run ID: HG04_448612		SeqNo: 7597089	PrepDate: 10-Oct-2023	DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit Qual	

Mercury 1.14 0.00684 0.3428 0.9681 49.6 85 - 115 1.216 6.59 20 S

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)	Instrument: ICPMS07	Method: TCLP METALS BY SW6020A								
MBLK	Sample ID: MBLKT2-201587	Units: mg/L	Analysis Date: 09-Oct-2023 15:20							
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7595303	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)	Instrument: ICPMS07	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT4-201169	Units: mg/L	Analysis Date: 09-Oct-2023 15:24							
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7595305	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)		Instrument: ICPMS07		Method: TCLP METALS BY SW6020A						
MBLK	Sample ID: MBLKT6-201314	Units: mg/L		Analysis Date: 09-Oct-2023 15:29						
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7595307		PrepDate: 09-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)	Instrument: ICPMS07	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT5-201171	Units: mg/L	Analysis Date: 09-Oct-2023 15:27							
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7595306	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc		0.06703								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)	Instrument: ICPMS07	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT3-201588	Units: mg/L	Analysis Date: 09-Oct-2023 15:22							
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7595304	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)	Instrument: ICPMS07	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT1-201469	Units: mg/L	Analysis Date: 09-Oct-2023 15:17							
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7595302	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)		Instrument: ICPMS07		Method: TCLP METALS BY SW6020A						
MBLK	Sample ID: MBLK-201640	Units: mg/L		Analysis Date: 09-Oct-2023 15:15						
Client ID:	Run ID: ICPMS07_448499	SeqNo: 7595301		PrepDate: 09-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Thallium	U	0.00200								
Tin	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00500								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)	Instrument: ICPMS07	Method: TCLP METALS BY SW6020A
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LCS		Sample ID: LCS-201640			Units: mg/L		Analysis Date: 09-Oct-2023 15:40			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7595310		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05874	0.00500	0.05	0	117	80 - 120				
Arsenic	0.05623	0.00500	0.05	0	112	80 - 120				
Barium	0.05225	0.0200	0.05	0	105	80 - 120				
Beryllium	0.05272	0.00200	0.05	0	105	80 - 120				
Cadmium	0.05074	0.00500	0.05	0	101	80 - 120				
Chromium	0.05264	0.00500	0.05	0	105	80 - 120				
Cobalt	0.05291	0.00500	0.05	0	106	80 - 120				
Copper	0.05385	0.00200	0.05	0	108	80 - 120				
Lead	0.0479	0.00500	0.05	0	95.8	80 - 120				
Nickel	0.0535	0.00500	0.05	0	107	80 - 120				
Selenium	0.05492	0.00500	0.05	0	110	80 - 120				
Silver	0.05124	0.00500	0.05	0	102	80 - 120				
Tin	0.1017	0.00500	0.1	0	102	80 - 120				
Vanadium	0.05204	0.00500	0.05	0	104	80 - 120				
Zinc	0.05399	0.00500	0.05	0	108	80 - 120				

LCS		Sample ID: LCS-201640			Units: mg/L		Analysis Date: 09-Oct-2023 18:23			
Client ID:		Run ID: ICPMS07_448499			SeqNo: 7595658		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	0.04427	0.00200	0.05	0	88.5	80 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)		Instrument: ICPMS07		Method: TCLP METALS BY SW6020A						
MS	Sample ID: HS23091749-01MS	Units: mg/L			Analysis Date: 09-Oct-2023 15:49					
Client ID: PTS-03-SL-20230926	Run ID: ICPMS07_448499	SeqNo: 7595314	PrepDate: 09-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.6201	0.0500	0.5	0.03526	117	80 - 120				
Arsenic	0.5704	0.0500	0.5	0.00684	113	80 - 120				
Barium	0.7999	0.200	0.5	0.2132	117	80 - 120				
Beryllium	0.5151	0.0200	0.5	0.00004	103	80 - 120				
Cadmium	0.4976	0.0500	0.5	0.00007	99.5	80 - 120				
Chromium	0.5161	0.0500	0.5	0.00122	103	80 - 120				
Cobalt	0.5247	0.0500	0.5	0.00716	104	80 - 120				
Copper	0.5208	0.0200	0.5	0.00199	104	80 - 120				
Lead	0.4948	0.0500	0.5	0.00075	98.8	80 - 120				
Nickel	0.6034	0.0500	0.5	0.07167	106	80 - 120				
Selenium	0.5978	0.0500	0.5	0.03266	113	80 - 120				
Silver	0.4985	0.0500	0.5	0.00033	99.6	80 - 120				
Thallium	0.3777	0.0200	0.5	0.00677	74.2	80 - 120				S
Tin	1.01	0.0500	0.5	0.00316	201	80 - 120				S
Vanadium	0.5386	0.0500	0.5	0.01021	106	80 - 120				
Zinc	1.077	0.0500	0.5	0.451	125	80 - 120				S

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0)		Instrument: ICPMS07			Method: TCLP METALS BY SW6020A					
MSD		Sample ID: HS23091749-01MSD			Units: mg/L		Analysis Date: 09-Oct-2023 15:51			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS07_448499			SeqNo: 7595315		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.6196	0.0500	0.5	0.03526	117	80 - 120	0.6201	0.092	20	
Arsenic	0.5727	0.0500	0.5	0.00684	113	80 - 120	0.5704	0.42	20	
Barium	0.8065	0.200	0.5	0.2132	119	80 - 120	0.7999	0.818	20	
Beryllium	0.5156	0.0200	0.5	0.00004	103	80 - 120	0.5151	0.109	20	
Cadmium	0.5038	0.0500	0.5	0.00007	101	80 - 120	0.4976	1.24	20	
Chromium	0.5177	0.0500	0.5	0.00122	103	80 - 120	0.5161	0.31	20	
Cobalt	0.5251	0.0500	0.5	0.00716	104	80 - 120	0.5247	0.0781	20	
Copper	0.5232	0.0200	0.5	0.00199	104	80 - 120	0.5208	0.458	20	
Lead	0.5045	0.0500	0.5	0.00075	101	80 - 120	0.4948	1.93	20	
Nickel	0.6003	0.0500	0.5	0.07167	106	80 - 120	0.6034	0.517	20	
Selenium	0.5756	0.0500	0.5	0.03266	109	80 - 120	0.5978	3.78	20	
Silver	0.5049	0.0500	0.5	0.00033	101	80 - 120	0.4985	1.28	20	
Thallium	0.3646	0.0200	0.5	0.00677	71.6	80 - 120	0.3777	3.53	20	S
Tin	1.006	0.0500	0.5	0.00316	200	80 - 120	1.01	0.423	20	S
Vanadium	0.5292	0.0500	0.5	0.01021	104	80 - 120	0.5386	1.77	20	
Zinc	1.053	0.0500	0.5	0.451	120	80 - 120	1.077	2.29	20	S

PDS		Sample ID: HS23091749-01PDS			Units: mg/L		Analysis Date: 09-Oct-2023 18:21			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS07_448499			SeqNo: 7595657		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	1.161	0.0500	1	0.03526	113	75 - 125				
Arsenic	1.175	0.0500	1	0.00684	117	75 - 125				
Barium	1.334	0.200	1	0.2132	112	75 - 125				
Selenium	1.215	0.0500	1	0.03266	118	75 - 125				
Zinc	1.647	0.0500	1	0.451	120	75 - 125				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201640 (0) **Instrument:** ICPMS07 **Method:** TCLP METALS BY SW6020A

PDS		Sample ID: HS23091749-01PDS			Units: mg/L		Analysis Date: 09-Oct-2023 15:54			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS07_448499			SeqNo: 7595316		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	1.216	0.0200	1	0.00004	122	75 - 125				
Cadmium	1.188	0.0500	1	0.00007	119	75 - 125				
Chromium	1.229	0.0500	1	0.00122	123	75 - 125				
Cobalt	1.234	0.0500	1	0.00716	123	75 - 125				
Copper	1.244	0.0200	1	0.00199	124	75 - 125				
Lead	1.171	0.0500	1	0.00075	117	75 - 125				
Nickel	1.304	0.0500	1	0.07167	123	75 - 125				
Thallium	1.149	0.0200	1	0.00677	114	75 - 125				
Tin	1.211	0.0500	1	0.00316	121	75 - 125				
Vanadium	1.255	0.0500	1	0.01021	124	75 - 125				

SD		Sample ID: HS23091749-01SD			Units: mg/L		Analysis Date: 09-Oct-2023 15:47			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS07_448499			SeqNo: 7595313		PrepDate: 09-Oct-2023		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Antimony	0.02888	0.250					0.03526	0 10		J
Arsenic	U	0.250					0.00684	0 10		
Barium	0.2202	1.00					0.2132	0 10		J
Beryllium	U	0.100					0.00004	0 10		
Cadmium	U	0.250					0.00007	0 10		
Chromium	U	0.250					0.00122	0 10		
Cobalt	U	0.250					0.00716	0 10		
Copper	U	0.100					0.00199	0 10		
Lead	U	0.250					0.00075	0 10		
Nickel	0.06379	0.250					0.07167	0 10		J
Selenium	U	0.250					0.03266	0 10		
Silver	U	0.250					0.00033	0 10		
Thallium	U	0.100					0.00677	0 10		
Tin	U	0.250					0.00316	0 10		
Vanadium	U	0.250					0.01021	0 10		
Zinc	0.4414	0.250					0.451	2.14 10		

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201658 (0)	Instrument: ICPMS05	Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A
MBLK	Sample ID: MBLKT1-201361	Units: mg/L
Client ID:	Run ID: ICPMS05_448599	SeqNo: 7598421
		PrepDate: 09-Oct-2023
		DF: 1
Analyte	Result	PQL
		SPK Val
		SPK Ref Value
		%REC
		Control Limit
		RPD Ref Value
		%RPD
		RPD Limit Qual

Antimony	U	0.0500
Arsenic	U	0.0500
Barium	U	0.200
Beryllium	U	0.0200
Cadmium	U	0.0500
Chromium	U	0.0500
Cobalt	U	0.0500
Copper	U	0.0200
Lead	U	0.0500
Nickel	U	0.0500
Selenium	U	0.0500
Silver	U	0.0500
Thallium	U	0.0200
Tin	U	0.0500
Vanadium	U	0.0500
Zinc	0.05844	0.0500

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201658 (0) **Instrument:** ICPMS05 **Method:** EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A

MBLK Sample ID: **MBLK-201658** Units: **mg/L** Analysis Date: **10-Oct-2023 22:09**
 Client ID: Run ID: **ICPMS05_448599** SeqNo: **7598420** PrepDate: **09-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	0.000881	0.00500								J
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Thallium	U	0.00200								
Tin	0.003909	0.00500								J
Vanadium	U	0.00500								
Zinc	U	0.00500								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201658 (0)		Instrument: ICPMS05		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
LCS	Sample ID: LCS-201658	Units: mg/L			Analysis Date: 10-Oct-2023 22:13					
Client ID:	Run ID: ICPMS05_448599	SeqNo: 7598422	PrepDate: 09-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.0501	0.00500	0.05	0	100	80 - 120				
Arsenic	0.05367	0.00500	0.05	0	107	80 - 120				
Barium	0.05053	0.0200	0.05	0	101	80 - 120				
Beryllium	0.04989	0.00200	0.05	0	99.8	80 - 120				
Cadmium	0.05255	0.00500	0.05	0	105	80 - 120				
Chromium	0.05024	0.00500	0.05	0	100	80 - 120				
Cobalt	0.05054	0.00500	0.05	0	101	80 - 120				
Copper	0.0521	0.00200	0.05	0	104	80 - 120				
Lead	0.05002	0.00500	0.05	0	100	80 - 120				
Nickel	0.05062	0.00500	0.05	0	101	80 - 120				
Selenium	0.05273	0.00500	0.05	0	105	80 - 120				
Silver	0.04962	0.00500	0.05	0	99.2	80 - 120				
Thallium	0.04676	0.00200	0.05	0	93.5	80 - 120				
Tin	0.09284	0.00500	0.1	0	92.8	80 - 120				
Vanadium	0.04975	0.00500	0.05	0	99.5	80 - 120				
Zinc	0.05372	0.00500	0.05	0	107	80 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201658 (0) **Instrument:** ICPMS05 **Method:** EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A

MS Sample ID: **HS23091749-01MS** Units: **mg/L** Analysis Date: **10-Oct-2023 22:20**
Client ID: **PTS-03-SL-20230926** **Run ID:** **ICPMS05_448599** **SeqNo:** **7598425** **PrepDate:** **09-Oct-2023** **DF:** **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5446	0.0500	0.5	0.05987	97.0	80 - 120				
Arsenic	0.5451	0.0500	0.5	0.0112	107	80 - 120				
Barium	0.5138	0.200	0.5	0.02479	97.8	80 - 120				
Beryllium	0.4901	0.0200	0.5	0	98.0	80 - 120				
Cadmium	0.4979	0.0500	0.5	0	99.6	80 - 120				
Chromium	0.4943	0.0500	0.5	0.0095	97.0	80 - 120				
Cobalt	0.4993	0.0500	0.5	0.00584	98.7	80 - 120				
Copper	0.4975	0.0200	0.5	0	99.5	80 - 120				
Lead	0.4891	0.0500	0.5	0	97.8	80 - 120				
Nickel	0.5112	0.0500	0.5	0.02194	97.9	80 - 120				
Selenium	0.7178	0.0500	0.5	0.1891	106	80 - 120				
Silver	0.4583	0.0500	0.5	0	91.7	80 - 120				
Thallium	0.4585	0.0200	0.5	0.00959	89.8	80 - 120				
Tin	0.9771	0.0500	1	0	97.7	80 - 120				
Vanadium	0.5876	0.0500	0.5	0.09613	98.3	80 - 120				
Zinc	0.5257	0.0500	0.5	0	105	80 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201658 (0)		Instrument: ICPMS05		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
MSD		Sample ID: HS23091749-01MSD		Units: mg/L		Analysis Date: 10-Oct-2023 22:22				
Client ID: PTS-03-SL-20230926		Run ID: ICPMS05_448599		SeqNo: 7598426		PrepDate: 09-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	0.5447	0.0500	0.5	0.05987	97.0	80 - 120	0.5446	0.011	20	
Arsenic	0.5399	0.0500	0.5	0.0112	106	80 - 120	0.5451	0.949	20	
Barium	0.5095	0.200	0.5	0.02479	96.9	80 - 120	0.5138	0.835	20	
Beryllium	0.4909	0.0200	0.5	0	98.2	80 - 120	0.4901	0.161	20	
Cadmium	0.4872	0.0500	0.5	0	97.4	80 - 120	0.4979	2.18	20	
Chromium	0.4872	0.0500	0.5	0.0095	95.5	80 - 120	0.4943	1.44	20	
Cobalt	0.4948	0.0500	0.5	0.00584	97.8	80 - 120	0.4993	0.909	20	
Copper	0.4972	0.0200	0.5	0	99.4	80 - 120	0.4975	0.0704	20	
Lead	0.4906	0.0500	0.5	0	98.1	80 - 120	0.4891	0.306	20	
Nickel	0.5072	0.0500	0.5	0.02194	97.1	80 - 120	0.5112	0.785	20	
Selenium	0.7122	0.0500	0.5	0.1891	105	80 - 120	0.7178	0.79	20	
Silver	0.4576	0.0500	0.5	0	91.5	80 - 120	0.4583	0.155	20	
Thallium	0.468	0.0200	0.5	0.00959	91.7	80 - 120	0.4585	2.06	20	
Tin	0.9808	0.0500	1	0	98.1	80 - 120	0.9771	0.373	20	
Vanadium	0.5861	0.0500	0.5	0.09613	98.0	80 - 120	0.5876	0.25	20	
Zinc	0.5228	0.0500	0.5	0	105	80 - 120	0.5257	0.563	20	

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201658 (0)		Instrument: ICPMS05		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
PDS		Sample ID: HS23091749-01PDS		Units: mg/L		Analysis Date: 10-Oct-2023 22:24				
Client ID: PTS-03-SL-20230926		Run ID: ICPMS05_448599		SeqNo: 7598427		PrepDate: 09-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	1.062	0.0500	1	0.05987	100	75 - 125				
Arsenic	1.186	0.0500	1	0.0112	117	75 - 125				
Barium	1.112	0.200	1	0.02479	109	75 - 125				
Beryllium	1.043	0.0200	1	0.00083	104	75 - 125				
Cadmium	1.07	0.0500	1	0.00034	107	75 - 125				
Chromium	1.078	0.0500	1	0.0095	107	75 - 125				
Cobalt	1.088	0.0500	1	0.00584	108	75 - 125				
Copper	1.097	0.0200	1	0.00477	109	75 - 125				
Lead	1.063	0.0500	1	0.00084	106	75 - 125				
Nickel	1.092	0.0500	1	0.02194	107	75 - 125				
Selenium	1.336	0.0500	1	0.1891	115	75 - 125				
Silver	0.9914	0.0500	1	0.00018	99.1	75 - 125				
Thallium	1.059	0.0200	1	0.00959	105	75 - 125				
Vanadium	1.205	0.0500	1	0.09613	111	75 - 125				
Zinc	1.206	0.0500	1	0.0118	119	75 - 125				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201658 (0)	Instrument: ICPMS05	Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A
SD	Sample ID: HS23091749-01SD	Units: mg/L
Client ID: PTS-03-SL-20230926	Run ID: ICPMS05_448599	SeqNo: 7598424
		PrepDate: 09-Oct-2023
		DF: 5
Analysis Date: 10-Oct-2023 22:18		
Analyte	Result	PQL
		SPK Val
		SPK Ref Value
		%REC
		Control Limit
		RPD Ref Value
		%D
		Limit Qual

Antimony	0.06663	0.250				0.05987	0	10	J
Arsenic	U	0.250				0.0112	0	10	
Barium	U	1.00				0.02479	0	10	
Beryllium	U	0.100				0.00083	0	10	
Cadmium	U	0.250				0.00034	0	10	
Chromium	U	0.250				0.0095	0	10	
Cobalt	U	0.250				0.00584	0	10	
Copper	U	0.100				0.00477	0	10	
Lead	U	0.250				0.00084	0	10	
Nickel	U	0.250				0.02194	0	10	
Selenium	0.19	0.250				0.1891	0	10	J
Silver	U	0.250				0.00018	0	10	
Thallium	U	0.100				0.00959	0	10	
Tin	U	0.250				0.01276	0	10	
Vanadium	0.08685	0.250				0.09613	0	10	J
Zinc	U	0.250				0.0118	0	10	

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201668 (0)	Instrument: ICPMS05	Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A								
MBLK	Sample ID: MBLKT1-201239	Units: mg/L	Analysis Date: 10-Oct-2023 21:48							
Client ID:	Run ID: ICPMS05_448599	SeqNo: 7598414	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	0.00619	0.0500								J
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	0.02018	0.0500								J

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201668 (0)	Instrument: ICPMS05	Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A								
MBLK	Sample ID: MBLK-201668	Units: mg/L	Analysis Date: 10-Oct-2023 21:45							
Client ID:	Run ID: ICPMS05_448599	SeqNo: 7598413	PrepDate: 09-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Thallium	U	0.00200								
Tin	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00500								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201668 (0)		Instrument: ICPMS05		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
LCS	Sample ID: LCS-201668	Units: mg/L			Analysis Date: 10-Oct-2023 21:50					
Client ID:	Run ID: ICPMS05_448599	SeqNo: 7598415	PrepDate: 09-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05028	0.00500	0.05	0	101	80 - 120				
Arsenic	0.0536	0.00500	0.05	0	107	80 - 120				
Barium	0.0501	0.0200	0.05	0	100	80 - 120				
Beryllium	0.04833	0.00200	0.05	0	96.7	80 - 120				
Cadmium	0.05148	0.00500	0.05	0	103	80 - 120				
Chromium	0.05038	0.00500	0.05	0	101	80 - 120				
Cobalt	0.05075	0.00500	0.05	0	101	80 - 120				
Copper	0.05156	0.00200	0.05	0	103	80 - 120				
Lead	0.04927	0.00500	0.05	0	98.5	80 - 120				
Nickel	0.0515	0.00500	0.05	0	103	80 - 120				
Selenium	0.05318	0.00500	0.05	0	106	80 - 120				
Silver	0.04861	0.00500	0.05	0	97.2	80 - 120				
Thallium	0.04572	0.00200	0.05	0	91.4	80 - 120				
Tin	0.09784	0.00500	0.1	0	97.8	80 - 120				
Vanadium	0.04974	0.00500	0.05	0	99.5	80 - 120				
Zinc	0.05793	0.00500	0.05	0	116	80 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201668 (0) **Instrument:** ICPMS05 **Method:** EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A

MS		Sample ID: HS23091749-01MS			Units: mg/L		Analysis Date: 10-Oct-2023 21:56			
Client ID: PTS-03-SL-20230926		Run ID: ICPMS05_448599			SeqNo: 7598418		PrepDate: 09-Oct-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.493	0.0500	0.5	0.03479	91.6	80 - 120				
Arsenic	0.5123	0.0500	0.5	0.00676	101	80 - 120				
Barium	0.5403	0.200	0.5	0.08611	90.8	80 - 120				
Beryllium	0.464	0.0200	0.5	0	92.8	80 - 120				
Cadmium	0.4663	0.0500	0.5	0	93.3	80 - 120				
Chromium	0.4552	0.0500	0.5	0.0043	90.2	80 - 120				
Cobalt	0.4614	0.0500	0.5	0.00359	91.6	80 - 120				
Copper	0.4654	0.0200	0.5	0	93.1	80 - 120				
Lead	0.451	0.0500	0.5	0	90.2	80 - 120				
Nickel	0.4761	0.0500	0.5	0.01959	91.3	80 - 120				
Selenium	0.5324	0.0500	0.5	0.03101	100	80 - 120				
Silver	0.443	0.0500	0.5	0	88.6	80 - 120				
Thallium	0.4197	0.0200	0.5	0.0096	82.0	80 - 120				
Tin	0.9389	0.0500	1	0	93.9	80 - 120				
Vanadium	0.4599	0.0500	0.5	0.00809	90.4	80 - 120				
Zinc	0.4815	0.0500	0.5	0	96.3	80 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201668 (0) **Instrument:** ICPMS05 **Method:** EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A

MSD Sample ID: **HS23091749-01MSD** Units: **mg/L** Analysis Date: **10-Oct-2023 21:58**
Client ID: **PTS-03-SL-20230926** **Run ID:** **ICPMS05_448599** **SeqNo:** **7598419** **PrepDate:** **09-Oct-2023** **DF:** **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5051	0.0500	0.5	0.03479	94.1	80 - 120	0.493	2.43	20	
Arsenic	0.5174	0.0500	0.5	0.00676	102	80 - 120	0.5123	0.987	20	
Barium	0.5437	0.200	0.5	0.08611	91.5	80 - 120	0.5403	0.629	20	
Beryllium	0.4612	0.0200	0.5	0	92.2	80 - 120	0.464	0.61	20	
Cadmium	0.4687	0.0500	0.5	0	93.7	80 - 120	0.4663	0.507	20	
Chromium	0.4547	0.0500	0.5	0.0043	90.1	80 - 120	0.4552	0.112	20	
Cobalt	0.4675	0.0500	0.5	0.00359	92.8	80 - 120	0.4614	1.32	20	
Copper	0.4679	0.0200	0.5	0	93.6	80 - 120	0.4654	0.536	20	
Lead	0.4529	0.0500	0.5	0	90.6	80 - 120	0.451	0.429	20	
Nickel	0.4792	0.0500	0.5	0.01959	91.9	80 - 120	0.4761	0.659	20	
Selenium	0.5283	0.0500	0.5	0.03101	99.5	80 - 120	0.5324	0.777	20	
Silver	0.4434	0.0500	0.5	0	88.7	80 - 120	0.443	0.079	20	
Thallium	0.4324	0.0200	0.5	0.0096	84.6	80 - 120	0.4197	2.96	20	
Tin	0.9582	0.0500	1	0	95.8	80 - 120	0.9389	2.04	20	
Vanadium	0.4613	0.0500	0.5	0.00809	90.6	80 - 120	0.4599	0.297	20	
Zinc	0.4882	0.0500	0.5	0	97.6	80 - 120	0.4815	1.38	20	

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201668 (0)		Instrument: ICPMS05		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
PDS		Sample ID: HS23091749-01PDS		Units: mg/L		Analysis Date: 10-Oct-2023 22:00				
Client ID: PTS-03-SL-20230926		Run ID: ICPMS05_448599		SeqNo: 7598393		PrepDate: 09-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	0.9461	0.0500	1	0.03479	91.1	75 - 125				
Arsenic	1.086	0.0500	1	0.00676	108	75 - 125				
Barium	1.073	0.200	1	0.08611	98.7	75 - 125				
Beryllium	0.9346	0.0200	1	0.00057	93.4	75 - 125				
Cadmium	0.9976	0.0500	1	0.00024	99.7	75 - 125				
Chromium	0.996	0.0500	1	0.0043	99.2	75 - 125				
Cobalt	0.9881	0.0500	1	0.00359	98.5	75 - 125				
Copper	1.011	0.0200	1	0.00299	101	75 - 125				
Lead	0.9654	0.0500	1	0.00094	96.4	75 - 125				
Nickel	1.02	0.0500	1	0.01959	100	75 - 125				
Selenium	1.118	0.0500	1	0.03101	109	75 - 125				
Silver	0.9318	0.0500	1	0.00023	93.2	75 - 125				
Thallium	0.9741	0.0200	1	0.0096	96.5	75 - 125				
Tin	1.226	0.0500	1	0.01106	122	75 - 125				
Vanadium	0.9863	0.0500	1	0.00809	97.8	75 - 125				
Zinc	1.089	0.0500	1	0.01677	107	75 - 125				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201668 (0)		Instrument: ICPMS05		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
SD	Sample ID: HS23091749-01SD	Units: mg/L			Analysis Date: 10-Oct-2023 21:54					
Client ID: PTS-03-SL-20230926	Run ID: ICPMS05_448599	SeqNo: 7598417	PrepDate: 09-Oct-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual	
Antimony	0.0367	0.250					0.03479	0 10	J	
Arsenic	U	0.250					0.00676	0 10		
Barium	U	1.00					0.08611	0 10		
Beryllium	U	0.100					0.00057	0 10		
Cadmium	U	0.250					0.00024	0 10		
Chromium	U	0.250					0.0043	0 10		
Cobalt	U	0.250					0.00359	0 10		
Copper	U	0.100					0.00299	0 10		
Lead	U	0.250					0.00094	0 10		
Nickel	U	0.250					0.01959	0 10		
Selenium	U	0.250					0.03101	0 10		
Silver	U	0.250					0.00023	0 10		
Thallium	U	0.100					0.0096	0 10		
Tin	U	0.250					0.01106	0 10		
Vanadium	U	0.250					0.00809	0 10		
Zinc	U	0.250					0.01677	0 10		

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201776 (0)	Instrument: HG04	Method: TCLP MERCURY BY SW7470A
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MBLK	Sample ID: MBLKT2-201586	Units: mg/L	Analysis Date: 11-Oct-2023 14:15							
Client ID:	Run ID: HG04_448759	SeqNo: 7600680	PrepDate: 11-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT4-201687	Units: mg/L	Analysis Date: 11-Oct-2023 14:19							
Client ID:	Run ID: HG04_448759	SeqNo: 7600682	PrepDate: 11-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT6-201391	Units: mg/L	Analysis Date: 11-Oct-2023 14:22							
Client ID:	Run ID: HG04_448759	SeqNo: 7600684	PrepDate: 11-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT5-201463	Units: mg/L	Analysis Date: 11-Oct-2023 14:20							
Client ID:	Run ID: HG04_448759	SeqNo: 7600683	PrepDate: 11-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT3-201311	Units: mg/L	Analysis Date: 11-Oct-2023 14:17							
Client ID:	Run ID: HG04_448759	SeqNo: 7600681	PrepDate: 11-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT1-201585	Units: mg/L	Analysis Date: 11-Oct-2023 14:14							
Client ID:	Run ID: HG04_448759	SeqNo: 7600679	PrepDate: 11-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201776 (0) **Instrument:** HG04 **Method:** TCLP MERCURY BY SW7470A

MBLK Sample ID: **MBLK-201776** Units: **mg/L** Analysis Date: **11-Oct-2023 14:08**
 Client ID: Run ID: **HG04_448759** SeqNo: **7600677** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury U 0.000200

LCS Sample ID: **LCS-201776** Units: **mg/L** Analysis Date: **11-Oct-2023 14:12**
 Client ID: Run ID: **HG04_448759** SeqNo: **7600678** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.00489 0.000200 0.005 0 97.8 80 - 120

MS Sample ID: **HS23091749-01MS** Units: **mg/L** Analysis Date: **11-Oct-2023 14:32**
 Client ID: **PTS-03-SL-20230926** Run ID: **HG04_448759** SeqNo: **7600688** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.00537 0.000200 0.005 0.000004 107 75 - 125

MSD Sample ID: **HS23091749-01MSD** Units: **mg/L** Analysis Date: **11-Oct-2023 14:36**
 Client ID: **PTS-03-SL-20230926** Run ID: **HG04_448759** SeqNo: **7600689** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.0054 0.000200 0.005 0.000004 108 75 - 125 0.00537 0.557 20

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201782 (0) **Instrument:** HG04 **Method:** TCLP MERCURY AT PH 10 BY SW7470A

MBLK Sample ID: **MBLKT1-201333** Units: **mg/L** Analysis Date: **11-Oct-2023 17:14**
 Client ID: Run ID: **HG04_448759** SeqNo: **7601407** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury U 0.000200

MBLK Sample ID: **MBLK-201782** Units: **mg/L** Analysis Date: **11-Oct-2023 17:01**
 Client ID: Run ID: **HG04_448759** SeqNo: **7601403** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury U 0.000200

LCS Sample ID: **LCS-201782** Units: **mg/L** Analysis Date: **11-Oct-2023 17:05**
 Client ID: Run ID: **HG04_448759** SeqNo: **7601404** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00487 0.000200 0.005 0 97.4 80 - 124

MS Sample ID: **HS23091749-01MS** Units: **mg/L** Analysis Date: **11-Oct-2023 17:19**
 Client ID: **PTS-03-SL-20230926** Run ID: **HG04_448759** SeqNo: **7601409** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00524 0.000200 0.005 0.000017 104 80 - 124

MSD Sample ID: **HS23091749-01MSD** Units: **mg/L** Analysis Date: **11-Oct-2023 17:23**
 Client ID: **PTS-03-SL-20230926** Run ID: **HG04_448759** SeqNo: **7601410** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00499 0.000200 0.005 0.000017 99.5 80 - 124 0.00524 4.89 20

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201784 (0) **Instrument:** HG04 **Method:** TCLP MERCURY AT PH 7 BY SW7470A

MBLK Sample ID: **MBLKT1-201329** Units: **mg/L** Analysis Date: **11-Oct-2023 17:28**
 Client ID: Run ID: **HG04_448759** SeqNo: **7601413** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury U 0.000200

MBLK Sample ID: **MBLK-201784** Units: **mg/L** Analysis Date: **11-Oct-2023 17:25**
 Client ID: Run ID: **HG04_448759** SeqNo: **7601411** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury U 0.000200

LCS Sample ID: **LCS-201784** Units: **mg/L** Analysis Date: **11-Oct-2023 17:26**
 Client ID: Run ID: **HG04_448759** SeqNo: **7601412** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00561 0.000200 0.005 0 112 80 - 124

MS Sample ID: **HS23091749-01MS** Units: **mg/L** Analysis Date: **11-Oct-2023 17:34**
 Client ID: **PTS-03-SL-20230926** Run ID: **HG04_448759** SeqNo: **7601415** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00498 0.000200 0.005 0.000008 99.4 80 - 124

MSD Sample ID: **HS23091749-01MSD** Units: **mg/L** Analysis Date: **11-Oct-2023 17:36**
 Client ID: **PTS-03-SL-20230926** Run ID: **HG04_448759** SeqNo: **7601416** PrepDate: **11-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD
 Value %REC Limit Value %RPD Limit Qual

Mercury 0.00486 0.000200 0.005 0.000008 97.0 80 - 124 0.00498 2.44 20

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILES

MBLK Sample ID: **MBLK-201478** Units: **mg/Kg** Analysis Date: **09-Oct-2023 13:51**
 Client ID: Run ID: **SV-4_448534** SeqNo: **7600308** PrepDate: **05-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

1,2,4,5-Tetrachlorobenzene	U	0.17								
1,2,4-Trichlorobenzene	U	0.17								
1,3-Dinitrobenzene	U	0.17								
1,4-Dioxane	U	0.17								
1,4-Naphthoquinone	U	0.17								
1-Naphthylamine	U	0.17								
2,3,4,6-Tetrachlorophenol	U	0.17								
2,4,5-Trichlorophenol	U	0.17								
2,4,6-Trichlorophenol	U	0.17								
2,4-Dichlorophenol	U	0.17								
2,4-Dimethylphenol	U	0.17								
2,4-Dinitrophenol	U	0.17								
2,4-Dinitrotoluene	U	0.17								
2,6-Dichlorophenol	U	0.17								
2,6-Dinitrotoluene	U	0.17								
2-Acetylaminofluorene	U	0.17								
2-Chloronaphthalene	U	0.17								
2-Chlorophenol	U	0.17								
2-Methylnaphthalene	U	0.17								
2-Methylphenol	U	0.17								
2-Naphthylamine	U	0.17								
2-Nitroaniline	U	0.17								
2-Nitrophenol	U	0.17								
2-Picoline	U	0.17								
3&4-Methylphenol	U	0.17								
3,3'-Dichlorobenzidine	U	0.17								
3,3'-Dimethylbenzidine	U	0.17								
3-Methylcholanthrene	U	0.17								
3-Nitroaniline	U	0.17								
4,6-Dinitro-2-methylphenol	U	0.17								
4-Aminobiphenyl	U	0.17								
4-Chloroaniline	U	0.17								
4-Chlorophenyl phenyl ether	U	0.17								
4-Nitroaniline	U	0.17								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MBLK	Sample ID: MBLK-201478	Units: mg/Kg			Analysis Date: 09-Oct-2023 13:51					
Client ID:	Run ID: SV-4_448534	SeqNo: 7600308	PrepDate: 05-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4-Nitrophenol	U	0.17								
4-Nitroquinoline-1-oxide	U	0.17								
5-Nitro-o-toluidine	U	0.17								
7,12-Dimethylbenz(a)anthracene	U	0.17								
a,a-Dimethylphenethylamine	U	0.17								
Acenaphthene	U	0.17								
Acenaphthylene	U	0.17								
Acetophenone	U	0.17								
Aniline	U	0.17								
Anthracene	U	0.17								
Aramite	U	0.17								
Benz(a)anthracene	U	0.17								
Benzo(a)pyrene	U	0.17								
Benzo(b)fluoranthene	U	0.17								
Benzo(g,h,i)perylene	U	0.17								
Benzo(k)fluoranthene	U	0.17								
Benzyl alcohol	U	0.17								
Bis(2-chloroethoxy)methane	U	0.17								
Bis(2-chloroethyl)ether	U	0.17								
Bis(2-chloroisopropyl)ether	U	0.17								
Bis(2-ethylhexyl)phthalate	U	0.17								
Butyl benzyl phthalate	U	0.17								
Chlorobenzilate	U	0.17								
Chrysene	U	0.17								
Diallate	U	0.17								
Dibenz(a,h)anthracene	U	0.17								
Dibenzofuran	U	0.17								
Diethyl phthalate	U	0.17								
Dimethoate	U	0.17								
Dimethyl phthalate	U	0.17								
Di-n-butyl phthalate	U	0.17								
Di-n-octyl phthalate	U	0.17								
Dinoseb	U	0.17								
Diphenylamine	U	0.17								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILES

MBLK Sample ID: **MBLK-201478** Units: **mg/Kg** Analysis Date: **09-Oct-2023 13:51**
 Client ID: Run ID: **SV-4_448534** SeqNo: **7600308** PrepDate: **05-Oct-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Disulfoton	U	0.17								
Ethyl methanesulfonate	U	0.17								
Ethyl parathion	U	0.17								
Famphur	U	0.17								
Fluoranthene	U	0.17								
Fluorene	U	0.17								
Hexachlorobenzene	U	0.17								
Hexachlorobutadiene	U	0.17								
Hexachlorocyclopentadiene	U	0.17								
Hexachloroethane	U	0.17								
Hexachlorophene	U	1.7								
Hexachloropropene	U	0.17								
Indeno(1,2,3-cd)pyrene	U	0.17								
Isodrin	U	0.17								
Isophorone	U	0.17								
Isosafrole	U	0.17								
Kepone	U	0.17								
Methapyrilene	U	0.17								
Methyl methanesulfonate	U	0.17								
Methyl parathion	U	0.17								
Naphthalene	U	0.17								
Nitrobenzene	U	0.17								
N-Nitrosodiethylamine	U	0.17								
N-Nitrosodimethylamine	U	0.17								
N-Nitroso-di-n-butylamine	U	0.17								
N-Nitrosodiphenylamine	U	0.17								
N-Nitrosomethylethylamine	U	0.17								
N-Nitrosomorpholine	U	0.17								
N-Nitrosopiperidine	U	0.17								
N-Nitrosopyrrolidine	U	0.17								
o-Toluidine	U	0.17								
p-Dimethylaminoazobenzene	U	0.17								
Pentachlorobenzene	U	0.17								
Pentachloroethane	U	0.17								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)	Instrument: SV-4	Method: SEMIVOLATILES
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MBLK	Sample ID: MBLK-201478	Units: mg/Kg	Analysis Date: 09-Oct-2023 13:51							
Client ID:	Run ID: SV-4_448534	SeqNo: 7600308	PrepDate: 05-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Pentachloronitrobenzene	U	0.17								
Pentachlorophenol	U	0.17								
Phenacetin	U	0.17								
Phenanthrene	U	0.17								
Phenol	U	0.17								
Phorate	U	0.17								
p-Phenylenediamine	U	0.17								
Pronamide	U	0.17								
Pyrene	U	0.17								
Pyridine	U	0.17								
Safrole	U	0.17								
Tetraethyldithiopyrophosphate	U	0.17								
Thionazin	U	0.17								
<i>Surr: 2,4,6-Tribromophenol</i>	2.6	0.17	3.333	0	77.1	36 - 126				
<i>Surr: 2-Fluorobiphenyl</i>	2.8	0.17	3.333	0	82.9	43 - 125				
<i>Surr: 2-Fluorophenol</i>	2.3	0.17	3.333	0	69.1	37 - 125				
<i>Surr: 4-Terphenyl-d14</i>	3.0	0.17	3.333	0	90.7	32 - 125				
<i>Surr: Nitrobenzene-d5</i>	2.9	0.17	3.333	0	88.3	37 - 125				
<i>Surr: Phenol-d6</i>	2.6	0.17	3.333	0	78.8	40 - 125				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-201478	Units: mg/Kg			Analysis Date: 09-Oct-2023 13:07					
Client ID:	Run ID: SV-4_448534	SeqNo: 7600307	PrepDate: 05-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	1.1	0.17	1.667	0	65.2	55 - 120				
1,2,4-Trichlorobenzene	1.3	0.17	1.667	0	79.6	55 - 120				
1,3-Dinitrobenzene	1.4	0.17	1.667	0	85.9	55 - 120				
1,4-Dioxane	0.87	0.17	1.667	0	52.4	15 - 120				
1,4-Naphthoquinone	1.0	0.17	1.667	0	62.0	55 - 120				
1-Naphthylamine	0.47	0.17	1.667	0	28.0	40 - 130				S
2,3,4,6-Tetrachlorophenol	2.7	0.17	3.333	0	82.2	55 - 120				
2,4,5-Trichlorophenol	2.6	0.17	3.333	0	79.3	55 - 120				
2,4,6-Trichlorophenol	3.1	0.17	3.333	0	93.5	55 - 120				
2,4-Dichlorophenol	2.8	0.17	3.333	0	83.9	55 - 120				
2,4-Dimethylphenol	2.9	0.17	3.333	0	85.9	55 - 125				
2,4-Dinitrophenol	2.8	0.17	3.333	0	85.1	40 - 125				
2,4-Dinitrotoluene	1.5	0.17	1.667	0	89.0	55 - 125				
2,6-Dichlorophenol	2.4	0.17	3.333	0	71.8	55 - 120				
2,6-Dinitrotoluene	1.5	0.17	1.667	0	89.3	55 - 120				
2-Acetylaminofluorene	1.3	0.17	1.667	0	77.1	40 - 130				
2-Chloronaphthalene	1.7	0.17	1.667	0	101	55 - 145				
2-Chlorophenol	2.8	0.17	3.333	0	85.2	55 - 120				
2-Methylnaphthalene	1.4	0.17	1.667	0	83.5	55 - 120				
2-Methylphenol	2.9	0.17	3.333	0	86.9	55 - 120				
2-Naphthylamine	0.65	0.17	1.667	0	38.8	40 - 130				S
2-Nitroaniline	1.9	0.17	1.667	0	114	55 - 130				
2-Nitrophenol	2.8	0.17	3.333	0	83.1	55 - 120				
2-Picoline	1.1	0.17	1.667	0	65.2	40 - 130				
3&4-Methylphenol	3.3	0.17	5	0	65.1	55 - 120				
3,3'-Dichlorobenzidine	1.2	0.17	1.667	0	73.0	32 - 125				
3,3'-Dimethylbenzidine	0.73	0.17	1.667	0	43.5	20 - 120				
3-Methylcholanthrene	1.3	0.17	1.667	0	77.5	55 - 125				
3-Nitroaniline	0.98	0.17	1.667	0	58.9	43 - 120				
4,6-Dinitro-2-methylphenol	3.1	0.17	3.333	0	93.4	50 - 130				
4-Aminobiphenyl	1.0	0.17	1.667	0	61.1	20 - 120				
4-Chloroaniline	1.0	0.17	1.667	0	60.2	30 - 120				
4-Chlorophenyl phenyl ether	1.4	0.17	1.667	0	84.2	55 - 120				
4-Nitroaniline	1.2	0.17	1.667	0	71.2	55 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-201478	Units: mg/Kg			Analysis Date: 09-Oct-2023 13:07					
Client ID:	Run ID: SV-4_448534	SeqNo: 7600307	PrepDate: 05-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4-Nitrophenol	3.5	0.17	3.333	0	106	50 - 130				
4-Nitroquinoline-1-oxide	0.89	0.17	1.667	0	53.5	50 - 150				
5-Nitro-o-toluidine	0.89	0.17	1.667	0	53.5	40 - 130				
7,12-Dimethylbenz(a)anthracene	1.6	0.17	1.667	0	98.4	55 - 120				
a,a-Dimethylphenethylamine	1.0	0.17	1.667	0	61.6	40 - 130				
Acenaphthene	1.4	0.17	1.667	0	85.6	55 - 120				
Acenaphthylene	1.5	0.17	1.667	0	87.1	55 - 120				
Acetophenone	1.4	0.17	1.667	0	85.6	54 - 120				
Aniline	0.76	0.17	1.667	0	45.7	25 - 120				
Anthracene	1.4	0.17	1.667	0	86.6	55 - 120				
Aramite	1.1	0.17	1.667	0	67.4	55 - 142				
Benz(a)anthracene	1.4	0.17	1.667	0	81.5	55 - 125				
Benzo(a)pyrene	1.6	0.17	1.667	0	93.4	55 - 120				
Benzo(b)fluoranthene	1.4	0.17	1.667	0	81.4	55 - 125				
Benzo(g,h,i)perylene	1.4	0.17	1.667	0	86.5	55 - 120				
Benzo(k)fluoranthene	1.6	0.17	1.667	0	94.2	55 - 130				
Benzyl alcohol	1.4	0.17	1.667	0	83.2	55 - 120				
Bis(2-chloroethoxy)methane	1.9	0.17	1.667	0	112	55 - 120				
Bis(2-chloroethyl)ether	1.7	0.17	1.667	0	99.6	55 - 120				
Bis(2-chloroisopropyl)ether	1.6	0.17	1.667	0	93.8	55 - 120				
Bis(2-ethylhexyl)phthalate	1.5	0.17	1.667	0	88.5	55 - 125				
Butyl benzyl phthalate	1.5	0.17	1.667	0	89.3	55 - 125				
Chlorobenzilate	1.3	0.17	1.667	0	79.0	55 - 130				
Chrysene	1.5	0.17	1.667	0	87.3	55 - 125				
Diallate	1.2	0.17	1.667	0	73.4	50 - 140				
Dibenz(a,h)anthracene	1.4	0.17	1.667	0	85.0	55 - 120				
Dibenzofuran	1.4	0.17	1.667	0	86.1	55 - 120				
Diethyl phthalate	1.5	0.17	1.667	0	87.3	55 - 120				
Dimethoate	1.0	0.17	1.667	0	60.7	40 - 130				
Dimethyl phthalate	1.4	0.17	1.667	0	84.6	55 - 120				
Di-n-butyl phthalate	1.5	0.17	1.667	0	88.7	55 - 125				
Di-n-octyl phthalate	1.6	0.17	1.667	0	94.8	55 - 130				
Dinoseb	1.4	0.17	1.667	0	81.6	40 - 130				
Diphenylamine	1.5	0.17	1.667	0	88.3	55 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-201478	Units: mg/Kg			Analysis Date: 09-Oct-2023 13:07					
Client ID:	Run ID: SV-4_448534	SeqNo: 7600307		PrepDate: 05-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Disulfoton	1.5	0.17	1.667	0	91.8	40 - 130				
Ethyl methanesulfonate	1.3	0.17	1.667	0	80.2	55 - 120				
Ethyl parathion	1.4	0.17	1.667	0	85.0	40 - 130				
Famphur	0.17	0.17	1.667	0	10.4	40 - 130			S	
Fluoranthene	1.5	0.17	1.667	0	88.8	55 - 125				
Fluorene	1.4	0.17	1.667	0	85.8	55 - 120				
Hexachlorobenzene	1.4	0.17	1.667	0	82.9	55 - 120				
Hexachlorobutadiene	1.3	0.17	1.667	0	78.1	55 - 120				
Hexachlorocyclopentadiene	1.1	0.17	1.667	0	64.1	50 - 120				
Hexachloroethane	1.4	0.17	1.667	0	83.9	55 - 120				
Hexachlorophene	6.9	1.7	8.335	0	83.2	20 - 125				
Hexachloropropene	1.2	0.17	1.667	0	73.1	55 - 120				
Indeno(1,2,3-cd)pyrene	1.5	0.17	1.667	0	88.1	55 - 125				
Isodrin	1.1	0.17	1.667	0	67.0	55 - 120				
Isophorone	1.4	0.17	1.667	0	85.7	55 - 120				
Isosafrole	1.1	0.17	1.667	0	67.0	45 - 140				
Kepone	0.89	0.17	1.667	0	53.4	15 - 110				
Methapyrilene	1.4	0.17	1.667	0	82.7	40 - 130				
Methyl methanesulfonate	1.4	0.17	1.667	0	85.9	55 - 120				
Methyl parathion	1.2	0.17	1.667	0	71.1	40 - 130				
Naphthalene	1.4	0.17	1.667	0	83.1	55 - 120				
Nitrobenzene	1.5	0.17	1.667	0	89.3	55 - 120				
N-Nitrosodiethylamine	1.2	0.17	1.667	0	72.1	50 - 130				
N-Nitrosodimethylamine	1.4	0.17	1.667	0	86.7	45 - 120				
N-Nitroso-di-n-butylamine	1.3	0.17	1.667	0	79.0	40 - 130				
N-Nitrosodiphenylamine	1.5	0.17	1.667	0	88.3	55 - 120				
N-Nitrosomethylethylamine	1.2	0.17	1.667	0	74.2	40 - 130				
N-Nitrosomorpholine	1.6	0.17	1.667	0	98.8	40 - 130				
N-Nitrosopiperidine	1.1	0.17	1.667	0	68.4	40 - 130				
N-Nitrosopyrrolidine	1.3	0.17	1.667	0	78.4	40 - 130				
o-Toluidine	0.95	0.17	1.667	0	57.0	30 - 120				
p-Dimethylaminoazobenzene	1.2	0.17	1.667	0	70.2	40 - 130				
Pentachlorobenzene	1.1	0.17	1.667	0	68.4	55 - 120				
Pentachloroethane	1.2	0.17	1.667	0	71.5	55 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-201478	Units: mg/Kg			Analysis Date: 09-Oct-2023 13:07					
Client ID:	Run ID: SV-4_448534	SeqNo: 7600307		PrepDate: 05-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Pentachloronitrobenzene	1.5	0.17	1.667	0	88.5	55 - 140				
Pentachlorophenol	2.9	0.17	3.333	0	87.4	50 - 135				
Phenacetin	1.3	0.17	1.667	0	80.3	55 - 125				
Phenanthrene	1.4	0.17	1.667	0	83.1	55 - 120				
Phenol	2.9	0.17	3.333	0	87.5	50 - 120				
Phorate	1.9	0.17	1.667	0	114	40 - 130				
p-Phenylenediamine	0.40	0.17	1.667	0	24.0	20 - 120				
Pronamide	1.2	0.17	1.667	0	70.1	55 - 125				
Pyrene	1.4	0.17	1.667	0	86.3	55 - 125				
Pyridine	1.2	0.17	1.667	0	71.4	30 - 120				
Safrole	1.1	0.17	1.667	0	68.8	55 - 120				
Tetraethyldithiopyrophosphate	1.1	0.17	1.667	0	67.8	40 - 130				
Thionazin	1.3	0.17	1.667	0	79.2	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	2.3	0.17	3.333	0	69.9	36 - 126				
<i>Surr: 2-Fluorobiphenyl</i>	2.7	0.17	3.333	0	81.1	43 - 125				
<i>Surr: 2-Fluorophenol</i>	2.5	0.17	3.333	0	76.1	37 - 125				
<i>Surr: 4-Terphenyl-d14</i>	2.6	0.17	3.333	0	78.2	32 - 125				
<i>Surr: Nitrobenzene-d5</i>	2.8	0.17	3.333	0	85.2	37 - 125				
<i>Surr: Phenol-d6</i>	2.7	0.17	3.333	0	80.5	40 - 125				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MS	Sample ID: HS23091749-01MS	Units: mg/Kg			Analysis Date: 09-Oct-2023 20:02					
Client ID: PTS-03-SL-20230926	Run ID: SV-4_448534	SeqNo: 7600310	PrepDate: 05-Oct-2023	DF: 10						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	0.91	3.3	1.653	0	55.2	55 - 120				J
1,2,4-Trichlorobenzene	1.1	3.3	1.653	0	68.1	55 - 120				J
1,3-Dinitrobenzene	1.2	3.3	1.653	0	75.5	55 - 120				J
1,4-Dioxane	U	3.3	1.653	0	0	15 - 120				S
1,4-Naphthoquinone	0.72	3.3	1.653	0	43.4	55 - 120				JS
1-Naphthylamine	1.4	3.3	1.653	0	81.8	40 - 130				J
2,3,4,6-Tetrachlorophenol	2.0	3.3	3.305	0	59.1	55 - 120				J
2,4,5-Trichlorophenol	3.3	3.3	3.305	0	101	55 - 120				J
2,4,6-Trichlorophenol	2.9	3.3	3.305	0	86.3	55 - 120				J
2,4-Dichlorophenol	2.4	3.3	3.305	0	72.8	55 - 120				J
2,4-Dimethylphenol	2.2	3.3	3.305	0	66.2	55 - 125				J
2,4-Dinitrophenol	U	3.3	3.305	0	0	40 - 125				S
2,4-Dinitrotoluene	2.1	3.3	1.653	0	130	55 - 125				JS
2,6-Dichlorophenol	U	3.3	3.305	0	0	55 - 120				S
2,6-Dinitrotoluene	2.7	3.3	1.653	0	163	55 - 120				JS
2-Acetylaminofluorene	1.4	3.3	1.653	0	81.7	40 - 130				J
2-Chloronaphthalene	1.8	3.3	1.653	0	110	55 - 145				J
2-Chlorophenol	1.7	3.3	3.305	0	52.2	55 - 120				JS
2-Methylnaphthalene	5.6	3.3	1.653	4.231	84.9	55 - 120				J
2-Methylphenol	2.6	3.3	3.305	0	77.6	55 - 120				J
2-Naphthylamine	1.8	3.3	1.653	0	107	40 - 130				J
2-Nitroaniline	1.9	3.3	1.653	0	114	55 - 130				J
2-Nitrophenol	2.1	3.3	3.305	0	62.6	55 - 120				J
2-Picoline	U	3.3	1.653	0	0	40 - 130				S
3&4-Methylphenol	5.5	3.3	4.959	2.338	63.9	55 - 120				J
3,3'-Dichlorobenzidine	0.77	3.3	1.653	0	46.3	32 - 125				J
3,3'-Dimethylbenzidine	U	3.3	1.653	0	0	20 - 120				S
3-Methylcholanthrene	1.4	3.3	1.653	0	87.0	55 - 125				J
3-Nitroaniline	1.3	3.3	1.653	0	77.4	43 - 120				J
4,6-Dinitro-2-methylphenol	0.70	3.3	3.305	0	21.2	50 - 130				JS
4-Aminobiphenyl	U	3.3	1.653	0	0	20 - 120				S
4-Chloroaniline	1.1	3.3	1.653	0	66.4	30 - 120				J
4-Chlorophenyl phenyl ether	1.1	3.3	1.653	0	66.4	55 - 120				J
4-Nitroaniline	1.3	3.3	1.653	0	80.9	55 - 120				J

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Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MS		Sample ID: HS23091749-01MS		Units: mg/Kg		Analysis Date: 09-Oct-2023 20:02				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7600310		PrepDate: 05-Oct-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
4-Nitrophenol	5.5	3.3	3.305	0	165	50 - 130			S	
4-Nitroquinoline-1-oxide	3.2	3.3	1.653	0	191	50 - 150			JS	
5-Nitro-o-toluidine	1.0	3.3	1.653	0	62.8	40 - 130			J	
7,12-Dimethylbenz(a)anthracene	2.7	3.3	1.653	0	165	55 - 120			JS	
a,a-Dimethylphenethylamine	0.74	3.3	1.653	0	45.0	40 - 130			J	
Acenaphthene	5.9	3.3	1.653	0	355	55 - 120			S	
Acenaphthylene	2.3	3.3	1.653	0	138	55 - 120			JS	
Acetophenone	3.2	3.3	1.653	0	194	54 - 120			JS	
Aniline	1.4	3.3	1.653	0.5806	48.8	25 - 120			J	
Anthracene	4.9	3.3	1.653	3.985	55.1	55 - 120				
Aramite	1.3	3.3	1.653	0	75.9	55 - 142			J	
Benz(a)anthracene	6.3	3.3	1.653	4.731	94.3	55 - 125				
Benzo(a)pyrene	3.5	3.3	1.653	2.185	77.8	55 - 120				
Benzo(b)fluoranthene	1.9	3.3	1.653	0.6140	80.5	55 - 125			J	
Benzo(g,h,i)perylene	2.2	3.3	1.653	1.101	66.9	55 - 120			J	
Benzo(k)fluoranthene	1.9	3.3	1.653	0.9854	58.3	55 - 130			J	
Benzyl alcohol	1.1	3.3	1.653	0	65.2	55 - 120			J	
Bis(2-chloroethoxy)methane	0.94	3.3	1.653	0	56.7	55 - 120			J	
Bis(2-chloroethyl)ether	1.5	3.3	1.653	0	88.7	55 - 120			J	
Bis(2-chloroisopropyl)ether	1.3	3.3	1.653	0	75.8	55 - 120			J	
Bis(2-ethylhexyl)phthalate	2.1	3.3	1.653	0	126	55 - 125			JS	
Butyl benzyl phthalate	1.3	3.3	1.653	0	78.6	55 - 125			J	
Chlorobenzilate	1.7	3.3	1.653	0	101	55 - 130			J	
Chrysene	8.0	3.3	1.653	6.804	72.2	55 - 125			O	
Diallate	3.1	3.3	1.653	0	186	50 - 140			JS	
Dibenz(a,h)anthracene	1.6	3.3	1.653	0	95.0	55 - 120			J	
Dibenzofuran	3.0	3.3	1.653	0	185	55 - 120			JS	
Diethyl phthalate	1.3	3.3	1.653	0	77.4	55 - 120			J	
Dimethoate	0.70	3.3	1.653	0	42.1	40 - 130			J	
Dimethyl phthalate	1.9	3.3	1.653	0	117	55 - 120			J	
Di-n-butyl phthalate	1.3	3.3	1.653	0	77.7	55 - 125			J	
Di-n-octyl phthalate	1.6	3.3	1.653	0	95.1	55 - 130			J	
Dinoseb	3.5	3.3	1.653	0	212	40 - 130			S	
Diphenylamine	3.9	3.3	1.653	0	236	55 - 120			S	

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Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MS		Sample ID: HS23091749-01MS		Units: mg/Kg		Analysis Date: 09-Oct-2023 20:02				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7600310		PrepDate: 05-Oct-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Disulfoton	1.8	3.3	1.653	0	108	40 - 130				J
Ethyl methanesulfonate	0.99	3.3	1.653	0	60.0	55 - 120				J
Ethyl parathion	U	3.3	1.653	0	0	40 - 130				S
Famphur	U	3.3	1.653	0	0	40 - 130				S
Fluoranthene	3.2	3.3	1.653	0	195	55 - 125				JS
Fluorene	5.6	3.3	1.653	4.892	41.9	55 - 120				S
Hexachlorobenzene	1.2	3.3	1.653	0	72.2	55 - 120				J
Hexachlorobutadiene	1.1	3.3	1.653	0	66.1	55 - 120				J
Hexachlorocyclopentadiene	U	3.3	1.653	0	0	50 - 120				S
Hexachloroethane	4.5	3.3	1.653	0	270	55 - 120				S
Hexachlorophene	U	33	8.266	0	0	20 - 125				S
Hexachloropropene	U	3.3	1.653	0	0	55 - 120				S
Indeno(1,2,3-cd)pyrene	1.7	3.3	1.653	0	101	55 - 125				J
Isodrin	U	3.3	1.653	0	0	55 - 120				S
Isophorone	1.9	3.3	1.653	0	117	55 - 120				J
Isosafrole	1.8	3.3	1.653	0	106	45 - 140				J
Kepone	U	3.3	1.653	0	0	15 - 110				S
Methapyrilene	1.4	3.3	1.653	0	83.8	40 - 130				J
Methyl methanesulfonate	U	3.3	1.653	0	0	55 - 120				S
Methyl parathion	1.5	3.3	1.653	0	91.2	40 - 130				J
Naphthalene	1.6	3.3	1.653	0.7483	51.1	55 - 120				JS
Nitrobenzene	1.6	3.3	1.653	0	95.5	55 - 120				J
N-Nitrosodiethylamine	0.73	3.3	1.653	0	44.3	50 - 130				JS
N-Nitrosodimethylamine	U	3.3	1.653	0	0	45 - 120				S
N-Nitroso-di-n-butylamine	U	3.3	1.653	0	0	40 - 130				S
N-Nitrosodiphenylamine	2.5	3.3	1.653	0	153	55 - 120				JS
N-Nitrosomethylethylamine	U	3.3	1.653	0	0	40 - 130				S
N-Nitrosomorpholine	1.7	3.3	1.653	0	100	40 - 130				J
N-Nitrosopiperidine	1.0	3.3	1.653	0	60.7	40 - 130				J
N-Nitrosopyrrolidine	1.1	3.3	1.653	0	67.0	40 - 130				J
o-Toluidine	1.1	3.3	1.653	0	64.6	30 - 120				J
p-Dimethylaminoazobenzene	2.5	3.3	1.653	0	151	40 - 130				JS
Pentachlorobenzene	1.1	3.3	1.653	0	67.6	55 - 120				J
Pentachloroethane	U	3.3	1.653	0	0	55 - 120				S

ALS Houston, US

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QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MS		Sample ID: HS23091749-01MS		Units: mg/Kg		Analysis Date: 09-Oct-2023 20:02				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7600310		PrepDate: 05-Oct-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Pentachloronitrobenzene	1.4	3.3	1.653	0	83.4	55 - 140			J	
Pentachlorophenol	1.2	3.3	3.305	0	35.6	50 - 135			JS	
Phenacetin	1.3	3.3	1.653	0	81.1	55 - 125			J	
Phenanthrene	21	3.3	1.653	18.31	146	55 - 120			SO	
Phenol	3.0	3.3	3.305	1.267	52.6	50 - 120			J	
Phorate	0.79	3.3	1.653	0	47.6	40 - 130			J	
p-Phenylenediamine	U	3.3	1.653	0	0	20 - 120			S	
Pronamide	1.7	3.3	1.653	0	102	55 - 125			J	
Pyrene	11	3.3	1.653	10.88	13.6	55 - 125			SO	
Pyridine	0.59	3.3	1.653	0	35.7	30 - 120			J	
Safrole	3.2	3.3	1.653	0	192	55 - 120			JS	
Tetraethyldithiopyrophosphate	1.1	3.3	1.653	0	69.0	40 - 130			J	
Thionazin	1.1	3.3	1.653	0	69.5	40 - 130			J	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2.1</i>	<i>3.3</i>	<i>3.305</i>	<i>0</i>	<i>63.1</i>	<i>36 - 126</i>			<i>J</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>2.6</i>	<i>3.3</i>	<i>3.305</i>	<i>0</i>	<i>77.6</i>	<i>43 - 125</i>			<i>J</i>	
<i>Surr: 2-Fluorophenol</i>	<i>1.3</i>	<i>3.3</i>	<i>3.305</i>	<i>0</i>	<i>39.6</i>	<i>37 - 125</i>			<i>J</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>2.8</i>	<i>3.3</i>	<i>3.305</i>	<i>0</i>	<i>84.1</i>	<i>32 - 125</i>			<i>J</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>3.0</i>	<i>3.3</i>	<i>3.305</i>	<i>0</i>	<i>89.6</i>	<i>37 - 125</i>			<i>J</i>	
<i>Surr: Phenol-d6</i>	<i>1.9</i>	<i>3.3</i>	<i>3.305</i>	<i>0</i>	<i>56.0</i>	<i>40 - 125</i>			<i>J</i>	

ALS Houston, US

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Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MSD		Sample ID: HS23091749-01MSD		Units: mg/Kg		Analysis Date: 09-Oct-2023 20:24				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7600311		PrepDate: 05-Oct-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	1.3	3.3	1.647	0	76.6	55 - 120	0.9130	0	30	J
1,2,4-Trichlorobenzene	1.4	3.3	1.647	0	86.3	55 - 120	1.125	0	30	J
1,3-Dinitrobenzene	4.0	3.3	1.647	0	241	55 - 120	1.248	104	30	SR
1,4-Dioxane	U	3.3	1.647	0	0	15 - 120	0	0	30	S
1,4-Naphthoquinone	0.93	3.3	1.647	0	56.7	55 - 120	0.7171	0	30	J
1-Naphthylamine	1.6	3.3	1.647	0	94.6	40 - 130	1.352	0	30	J
2,3,4,6-Tetrachlorophenol	2.8	3.3	3.293	0	86.4	55 - 120	1.954	0	30	J
2,4,5-Trichlorophenol	4.0	3.3	3.293	0	122	55 - 120	3.344	18.5	30	S
2,4,6-Trichlorophenol	3.6	3.3	3.293	0	109	55 - 120	2.852	22.8	30	
2,4-Dichlorophenol	3.1	3.3	3.293	0	93.6	55 - 120	2.405	0	30	J
2,4-Dimethylphenol	2.8	3.3	3.293	0	86.4	55 - 125	2.187	0	30	J
2,4-Dinitrophenol	0.37	3.3	3.293	0	11.4	40 - 125	0	0	30	JS
2,4-Dinitrotoluene	4.1	3.3	1.647	0	246	55 - 125	2.145	61.7	30	SR
2,6-Dichlorophenol	2.8	3.3	3.293	0	86.0	55 - 120	0	0	30	J
2,6-Dinitrotoluene	3.4	3.3	1.647	0	204	55 - 120	2.692	22	30	S
2-Acetylaminofluorene	1.7	3.3	1.647	0	102	40 - 130	1.351	0	30	J
2-Chloronaphthalene	2.2	3.3	1.647	0	135	55 - 145	1.815	0	30	J
2-Chlorophenol	2.4	3.3	3.293	0	71.6	55 - 120	1.725	0	30	J
2-Methylnaphthalene	5.1	3.3	1.647	4.231	50.5	55 - 120	5.635	10.7	30	S
2-Methylphenol	3.0	3.3	3.293	0	91.1	55 - 120	2.564	0	30	J
2-Naphthylamine	2.5	3.3	1.647	0	153	40 - 130	1.766	0	30	JS
2-Nitroaniline	2.5	3.3	1.647	0	154	55 - 130	1.879	0	30	JS
2-Nitrophenol	2.9	3.3	3.293	0	88.7	55 - 120	2.069	0	30	J
2-Picoline	0.72	3.3	1.647	0	43.6	40 - 130	0	0	30	J
3&4-Methylphenol	6.4	3.3	4.941	2.338	82.8	55 - 120	5.506	15.5	30	
3,3'-Dichlorobenzidine	1.2	3.3	1.647	0	71.0	32 - 125	0.7660	0	30	J
3,3'-Dimethylbenzidine	U	3.3	1.647	0	0	20 - 120	0	0	30	S
3-Methylcholanthrene	1.7	3.3	1.647	0	101	55 - 125	1.438	0	30	J
3-Nitroaniline	1.4	3.3	1.647	0	86.7	43 - 120	1.279	0	30	J
4,6-Dinitro-2-methylphenol	U	3.3	3.293	0	0	50 - 130	0.7000	0	30	S
4-Aminobiphenyl	3.0	3.3	1.647	0	184	20 - 120	0	0	30	JS
4-Chloroaniline	1.5	3.3	1.647	0	88.7	30 - 120	1.098	0	30	J
4-Chlorophenyl phenyl ether	1.7	3.3	1.647	0	100	55 - 120	1.098	0	30	J
4-Nitroaniline	2.0	3.3	1.647	0	120	55 - 120	1.337	0	30	J

ALS Houston, US

Date: 30-Nov-23

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Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MSD		Sample ID: HS23091749-01MSD		Units: mg/Kg		Analysis Date: 09-Oct-2023 20:24				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7600311		PrepDate: 05-Oct-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4-Nitrophenol	0.87	3.3	3.293	0	26.6	50 - 130	5.463	0	30	JS
4-Nitroquinoline-1-oxide	3.1	3.3	1.647	0	185	50 - 150	3.158	0	30	JS
5-Nitro-o-toluidine	0.81	3.3	1.647	0	48.9	40 - 130	1.039	0	30	J
7,12-Dimethylbenz(a)anthracene	U	3.3	1.647	0	0	55 - 120	2.733	0	30	S
a,a-Dimethylphenethylamine	U	3.3	1.647	0	0	40 - 130	0.7440	0	30	S
Acenaphthene	5.9	3.3	1.647	0	361	55 - 120	5.864	1.38	30	S
Acenaphthylene	2.4	3.3	1.647	0	146	55 - 120	2.289	0	30	JS
Acetophenone	3.3	3.3	1.647	0	203	54 - 120	3.210	4.11	30	S
Aniline	1.7	3.3	1.647	0.5806	68.5	25 - 120	1.387	0	30	J
Anthracene	4.9	3.3	1.647	3.985	55.9	55 - 120	4.896	0.209	30	
Aramite	2.2	3.3	1.647	0	131	55 - 142	1.255	0	30	J
Benz(a)anthracene	5.4	3.3	1.647	4.731	37.9	55 - 125	6.291	16.1	30	S
Benzo(a)pyrene	3.7	3.3	1.647	2.185	90.5	55 - 120	3.470	5.72	30	
Benzo(b)fluoranthene	2.4	3.3	1.647	0.6140	106	55 - 125	1.944	0	30	J
Benzo(g,h,i)perylene	2.4	3.3	1.647	1.101	78.4	55 - 120	2.207	0	30	J
Benzo(k)fluoranthene	1.9	3.3	1.647	0.9854	56.8	55 - 130	1.949	0	30	J
Benzyl alcohol	1.4	3.3	1.647	0	82.4	55 - 120	1.078	0	30	J
Bis(2-chloroethoxy)methane	1.5	3.3	1.647	0	90.9	55 - 120	0.9372	0	30	J
Bis(2-chloroethyl)ether	1.7	3.3	1.647	0	104	55 - 120	1.467	0	30	J
Bis(2-chloroisopropyl)ether	1.6	3.3	1.647	0	96.0	55 - 120	1.254	0	30	J
Bis(2-ethylhexyl)phthalate	2.3	3.3	1.647	0	140	55 - 125	2.090	0	30	JS
Butyl benzyl phthalate	1.8	3.3	1.647	0	110	55 - 125	1.299	0	30	J
Chlorobenzilate	1.9	3.3	1.647	0	116	55 - 130	1.677	0	30	J
Chrysene	7.6	3.3	1.647	6.804	49.9	55 - 125	7.997	4.76	30	SO
Diallate	3.4	3.3	1.647	0	208	50 - 140	3.080	10.6	30	S
Dibenz(a,h)anthracene	1.9	3.3	1.647	0	117	55 - 120	1.570	0	30	J
Dibenzofuran	2.7	3.3	1.647	0	165	55 - 120	3.050	0	30	JS
Diethyl phthalate	1.7	3.3	1.647	0	104	55 - 120	1.279	0	30	J
Dimethoate	0.99	3.3	1.647	0	60.3	40 - 130	0.6955	0	30	J
Dimethyl phthalate	2.4	3.3	1.647	0	144	55 - 120	1.930	0	30	JS
Di-n-butyl phthalate	1.8	3.3	1.647	0	109	55 - 125	1.285	0	30	J
Di-n-octyl phthalate	1.9	3.3	1.647	0	118	55 - 130	1.573	0	30	J
Dinoseb	3.6	3.3	1.647	0	221	40 - 130	3.500	3.89	30	S
Diphenylamine	1.0	3.3	1.647	0	62.0	55 - 120	3.901	0	30	J

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Date: 30-Nov-23

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Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MSD		Sample ID: HS23091749-01MSD		Units: mg/Kg		Analysis Date: 09-Oct-2023 20:24				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7600311		PrepDate: 05-Oct-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Disulfoton	2.5	3.3	1.647	0	152	40 - 130	1.784	0	30	JS
Ethyl methanesulfonate	1.3	3.3	1.647	0	77.4	55 - 120	0.9926	0	30	J
Ethyl parathion	U	3.3	1.647	0	0	40 - 130	0	0	30	S
Famphur	3.4	3.3	1.647	0	208	40 - 130	0	12.5	30	S
Fluoranthene	3.4	3.3	1.647	0	208	55 - 125	3.218	6.3	30	S
Fluorene	6.0	3.3	1.647	4.892	68.7	55 - 120	5.585	7.55	30	
Hexachlorobenzene	1.6	3.3	1.647	0	95.9	55 - 120	1.194	0	30	J
Hexachlorobutadiene	1.3	3.3	1.647	0	81.4	55 - 120	1.092	0	30	J
Hexachlorocyclopentadiene	U	3.3	1.647	0	0	50 - 120	0	0	30	S
Hexachloroethane	4.2	3.3	1.647	0	257	55 - 120	4.471	5.45	30	S
Hexachlorophene	U	33	8.236	0	0	20 - 125	0	0	30	S
Hexachloropropene	U	3.3	1.647	0	0	55 - 120	0	0	30	S
Indeno(1,2,3-cd)pyrene	2.1	3.3	1.647	0	130	55 - 125	1.665	0	30	JS
Isodrin	U	3.3	1.647	0	0	55 - 120	0	0	30	S
Isophorone	2.4	3.3	1.647	0	145	55 - 120	1.934	0	30	JS
Isosafrole	2.7	3.3	1.647	0	163	45 - 140	1.755	0	30	JS
Kepone	1.1	3.3	1.647	0	66.3	15 - 110	0	0	30	J
Methapyrilene	2.6	3.3	1.647	0	157	40 - 130	1.385	0	30	JS
Methyl methanesulfonate	1.0	3.3	1.647	0	63.6	55 - 120	0	0	30	J
Methyl parathion	1.9	3.3	1.647	0	117	40 - 130	1.508	0	30	J
Naphthalene	1.8	3.3	1.647	0.7483	61.8	55 - 120	1.593	0	30	J
Nitrobenzene	1.7	3.3	1.647	0	102	55 - 120	1.579	0	30	J
N-Nitrosodiethylamine	1.1	3.3	1.647	0	65.2	50 - 130	0.7330	0	30	J
N-Nitrosodimethylamine	U	3.3	1.647	0	0	45 - 120	0	0	30	S
N-Nitroso-di-n-butylamine	3.6	3.3	1.647	0	221	40 - 130	0	127	30	SR
N-Nitrosodiphenylamine	14	3.3	1.647	0	832	55 - 120	2.527	138	30	SR
N-Nitrosomethylethylamine	1.1	3.3	1.647	0	65.4	40 - 130	0	0	30	J
N-Nitrosomorpholine	1.1	3.3	1.647	0	67.3	40 - 130	1.659	0	30	J
N-Nitrosopiperidine	1.3	3.3	1.647	0	76.6	40 - 130	1.003	0	30	J
N-Nitrosopyrrolidine	1.4	3.3	1.647	0	85.6	40 - 130	1.108	0	30	J
o-Toluidine	1.3	3.3	1.647	0	78.6	30 - 120	1.069	0	30	J
p-Dimethylaminoazobenzene	2.4	3.3	1.647	0	145	40 - 130	2.488	0	30	JS
Pentachlorobenzene	1.3	3.3	1.647	0	81.7	55 - 120	1.118	0	30	J
Pentachloroethane	U	3.3	1.647	0	0	55 - 120	0	0	30	S

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201478 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MSD		Sample ID: HS23091749-01MSD		Units: mg/Kg		Analysis Date: 09-Oct-2023 20:24				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7600311		PrepDate: 05-Oct-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Pentachloronitrobenzene	U	3.3	1.647	0	0	55 - 140	1.379	0	30	S
Pentachlorophenol	2.1	3.3	3.293	0	64.0	50 - 135	1.178	0	30	J
Phenacetin	1.8	3.3	1.647	0	107	55 - 125	1.342	0	30	J
Phenanthrene	16	3.3	1.647	18.31	-132	55 - 120	20.73	25	30	SO
Phenol	3.7	3.3	3.293	1.267	75.3	50 - 120	3.006	22	30	
Phorate	1.5	3.3	1.647	0	93.3	40 - 130	0.7868	0	30	J
p-Phenylenediamine	U	3.3	1.647	0	0	20 - 120	0	0	30	S
Pronamide	2.1	3.3	1.647	0	124	55 - 125	1.690	0	30	J
Pyrene	7.8	3.3	1.647	10.88	-188	55 - 125	11.10	35.2	30	SRO
Pyridine	0.77	3.3	1.647	0	46.6	30 - 120	0.5907	0	30	J
Safrole	3.0	3.3	1.647	0	183	55 - 120	3.175	0	30	JS
Tetraethyldithiopyrophosphate	1.5	3.3	1.647	0	88.8	40 - 130	1.140	0	30	J
Thionazin	2.2	3.3	1.647	0	134	40 - 130	1.148	0	30	JS
<i>Surr: 2,4,6-Tribromophenol</i>	2.7	3.3	3.293	0	80.5	36 - 126	2.086	0	30	J
<i>Surr: 2-Fluorobiphenyl</i>	3.3	3.3	3.293	0	99.8	43 - 125	2.566	0	30	J
<i>Surr: 2-Fluorophenol</i>	1.8	3.3	3.293	0	54.3	37 - 125	1.309	0	30	J
<i>Surr: 4-Terphenyl-d14</i>	3.3	3.3	3.293	0	100.0	32 - 125	2.780	0	30	J
<i>Surr: Nitrobenzene-d5</i>	3.0	3.3	3.293	0	91.5	37 - 125	2.960	0	30	J
<i>Surr: Phenol-d6</i>	2.5	3.3	3.293	0	76.3	40 - 125	1.853	0	30	J

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MBLK	Sample ID: MBLK-201576	Units: mg/L			Analysis Date: 09-Oct-2023 10:56					
Client ID:	Run ID: SV-4_448534	SeqNo: 7604106	PrepDate: 06-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	U	0.0050								
1,2,4-Trichlorobenzene	U	0.0050								
1,3-Dinitrobenzene	U	0.0050								
1,4-Dioxane	U	0.0050								
1,4-Naphthoquinone	U	0.0050								
1-Naphthylamine	U	0.0050								
2,3,4,6-Tetrachlorophenol	U	0.0050								
2,4,5-Trichlorophenol	U	0.0050								
2,4,6-Trichlorophenol	U	0.0050								
2,4-Dichlorophenol	U	0.0050								
2,4-Dimethylphenol	U	0.0050								
2,4-Dinitrophenol	U	0.0050								
2,4-Dinitrotoluene	U	0.0050								
2,6-Dichlorophenol	U	0.0050								
2,6-Dinitrotoluene	U	0.0050								
2-Acetylaminofluorene	U	0.0050								
2-Chloronaphthalene	U	0.0050								
2-Chlorophenol	U	0.0050								
2-Methylnaphthalene	U	0.0050								
2-Methylphenol	U	0.0050								
2-Naphthylamine	U	0.0050								
2-Nitroaniline	U	0.0050								
2-Nitrophenol	U	0.0050								
2-Picoline	U	0.0050								
3&4-Methylphenol	U	0.0050								
3,3'-Dichlorobenzidine	U	0.0050								
3,3'-Dimethylbenzidine	U	0.0050								
3-Methylcholanthrene	U	0.0050								
3-Nitroaniline	U	0.0050								
4,6-Dinitro-2-methylphenol	U	0.0050								
4-Aminobiphenyl	U	0.0050								
4-Chloroaniline	U	0.0050								
4-Chlorophenyl phenyl ether	U	0.0050								
4-Nitroaniline	U	0.0050								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)	Instrument: SV-4	Method: TCLP SEMIVOLATILES
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MBLK	Sample ID: MBLK-201576	Units: mg/L	Analysis Date: 09-Oct-2023 10:56							
Client ID:	Run ID: SV-4_448534	SeqNo: 7604106	PrepDate: 06-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

4-Nitrophenol	U	0.0050								
4-Nitroquinoline-1-oxide	U	0.0050								
5-Nitro-o-toluidine	U	0.0050								
7,12-Dimethylbenz(a)anthracene	U	0.0050								
a,a-Dimethylphenethylamine	U	0.0050								
Acenaphthene	U	0.0050								
Acenaphthylene	U	0.0050								
Acetophenone	U	0.0050								
Aniline	U	0.0050								
Anthracene	U	0.0050								
Aramite	U	0.0050								
Benz(a)anthracene	U	0.0050								
Benzo(a)pyrene	U	0.0050								
Benzo(b)fluoranthene	U	0.0050								
Benzo(g,h,i)perylene	U	0.0050								
Benzo(k)fluoranthene	U	0.0050								
Benzyl alcohol	U	0.0050								
Bis(2-chloroethoxy)methane	U	0.0050								
Bis(2-chloroethyl)ether	U	0.0050								
Bis(2-chloroisopropyl)ether	U	0.0050								
Bis(2-ethylhexyl)phthalate	U	0.0050								
Butyl benzyl phthalate	U	0.0050								
Chlorobenzilate	U	0.0050								
Chrysene	U	0.0050								
Diallate	U	0.0050								
Dibenz(a,h)anthracene	U	0.0050								
Dibenzofuran	U	0.0050								
Diethyl phthalate	U	0.0050								
Dimethoate	U	0.0050								
Dimethyl phthalate	U	0.0050								
Di-n-butyl phthalate	U	0.0050								
Di-n-octyl phthalate	U	0.0050								
Dinoseb	U	0.0050								
Diphenylamine	U	0.0050								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MBLK	Sample ID: MBLK-201576	Units: mg/L			Analysis Date: 09-Oct-2023 10:56					
Client ID:	Run ID: SV-4_448534	SeqNo: 7604106		PrepDate: 06-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Disulfoton	U	0.0050								
Ethyl methanesulfonate	U	0.0050								
Ethyl parathion	U	0.0050								
Famphur	U	0.0050								
Fluoranthene	U	0.0050								
Fluorene	U	0.0050								
Hexachlorobenzene	U	0.0050								
Hexachlorobutadiene	U	0.0050								
Hexachlorocyclopentadiene	U	0.0050								
Hexachloroethane	U	0.0050								
Hexachlorophene	U	0.025								
Hexachloropropene	U	0.0050								
Indeno(1,2,3-cd)pyrene	U	0.0050								
Isodrin	U	0.0050								
Isophorone	U	0.0050								
Isosafrole	U	0.0050								
Kepone	U	0.0050								
Methapyrilene	U	0.0050								
Methyl methanesulfonate	U	0.0050								
Methyl parathion	U	0.0050								
Naphthalene	U	0.0050								
Nitrobenzene	U	0.0050								
N-Nitrosodiethylamine	U	0.0050								
N-Nitrosodimethylamine	U	0.0050								
N-Nitroso-di-n-butylamine	U	0.0050								
N-Nitrosodiphenylamine	U	0.0050								
N-Nitrosomethylethylamine	U	0.0050								
N-Nitrosomorpholine	U	0.0050								
N-Nitrosopiperidine	U	0.0050								
N-Nitrosopyrrolidine	U	0.0050								
o-Toluidine	U	0.0050								
p-Dimethylaminoazobenzene	U	0.0050								
Pentachlorobenzene	U	0.0050								
Pentachloroethane	U	0.0050								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)	Instrument: SV-4	Method: TCLP SEMIVOLATILES
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MBLK	Sample ID: MBLK-201576	Units: mg/L	Analysis Date: 09-Oct-2023 10:56							
Client ID:	Run ID: SV-4_448534	SeqNo: 7604106	PrepDate: 06-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Pentachloronitrobenzene	U	0.0050								
Pentachlorophenol	U	0.0050								
Phenacetin	U	0.0050								
Phenanthrene	U	0.0050								
Phenol	U	0.0050								
Phorate	U	0.0050								
p-Phenylenediamine	U	0.0050								
Pronamide	U	0.0050								
Pyrene	U	0.0050								
Pyridine	U	0.0050								
Safrole	U	0.0050								
Tetraethyldithiopyrophosphate	U	0.0050								
Thionazin	U	0.0050								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.066</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>65.7</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.076</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>75.7</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.063</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>62.5</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.076</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>76.2</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.079</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>78.6</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.068</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>68.3</i>	<i>11 - 110</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4			Method: TCLP SEMIVOLATILES					
LCS	Sample ID: LCS-201576	Units: mg/L			Analysis Date: 09-Oct-2023 11:18					
Client ID:	Run ID: SV-4_448534	SeqNo: 7604107		PrepDate: 06-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	0.032	0.0050	0.05	0	64.1	55 - 120				
1,2,4-Trichlorobenzene	0.039	0.0050	0.05	0	78.8	55 - 120				
1,3-Dinitrobenzene	0.044	0.0050	0.05	0	87.4	55 - 120				
1,4-Dioxane	0.026	0.0050	0.05	0	51.0	15 - 120				
1,4-Naphthoquinone	0.030	0.0050	0.05	0	59.4	55 - 120				
1-Naphthylamine	0.016	0.0050	0.05	0	31.1	10 - 80				
2,3,4,6-Tetrachlorophenol	0.083	0.0050	0.1	0	83.3	55 - 120				
2,4,5-Trichlorophenol	0.081	0.0050	0.1	0	81.4	55 - 120				
2,4,6-Trichlorophenol	0.087	0.0050	0.1	0	87.1	55 - 120				
2,4-Dichlorophenol	0.083	0.0050	0.1	0	83.3	55 - 120				
2,4-Dimethylphenol	0.079	0.0050	0.1	0	79.1	55 - 125				
2,4-Dinitrophenol	0.084	0.0050	0.1	0	84.0	40 - 125				
2,4-Dinitrotoluene	0.045	0.0050	0.05	0	89.1	55 - 125				
2,6-Dichlorophenol	0.071	0.0050	0.1	0	70.5	55 - 120				
2,6-Dinitrotoluene	0.043	0.0050	0.05	0	85.3	55 - 120				
2-Acetylaminofluorene	0.039	0.0050	0.05	0	77.5	40 - 130				
2-Chloronaphthalene	0.049	0.0050	0.05	0	97.4	55 - 145				
2-Chlorophenol	0.085	0.0050	0.1	0	84.9	55 - 120				
2-Methylnaphthalene	0.041	0.0050	0.05	0	82.6	55 - 120				
2-Methylphenol	0.087	0.0050	0.1	0	87.2	55 - 120				
2-Naphthylamine	0.022	0.0050	0.05	0	43.8	40 - 130				
2-Nitroaniline	0.057	0.0050	0.05	0	114	55 - 130				
2-Nitrophenol	0.083	0.0050	0.1	0	82.9	55 - 120				
2-Picoline	0.032	0.0050	0.05	0	63.9	40 - 130				
3&4-Methylphenol	0.12	0.0050	0.15	0	77.6	55 - 120				
3,3'-Dichlorobenzidine	0.037	0.0050	0.05	0	74.2	32 - 125				
3,3'-Dimethylbenzidine	0.022	0.0050	0.05	0	44.2	20 - 120				
3-Methylcholanthrene	0.039	0.0050	0.05	0	77.4	55 - 125				
3-Nitroaniline	0.031	0.0050	0.05	0	62.6	43 - 120				
4,6-Dinitro-2-methylphenol	0.092	0.0050	0.1	0	92.4	50 - 130				
4-Aminobiphenyl	0.033	0.0050	0.05	0	65.7	20 - 120				
4-Chloroaniline	0.027	0.0050	0.05	0	53.5	30 - 120				
4-Chlorophenyl phenyl ether	0.042	0.0050	0.05	0	84.1	55 - 120				
4-Nitroaniline	0.041	0.0050	0.05	0	82.3	55 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-201576	Units: mg/L			Analysis Date: 09-Oct-2023 11:18					
Client ID:	Run ID: SV-4_448534	SeqNo: 7604107	PrepDate: 06-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4-Nitrophenol	0.11	0.0050	0.1	0	108	50 - 130				
4-Nitroquinoline-1-oxide	0.031	0.0050	0.05	0	61.2	50 - 150				
5-Nitro-o-toluidine	0.028	0.0050	0.05	0	56.6	40 - 130				
7,12-Dimethylbenz(a)anthracene	0.049	0.0050	0.05	0	98.8	55 - 120				
a,a-Dimethylphenethylamine	0.033	0.0050	0.05	0	65.0	40 - 130				
Acenaphthene	0.043	0.0050	0.05	0	85.3	55 - 120				
Acenaphthylene	0.043	0.0050	0.05	0	86.0	55 - 120				
Acetophenone	0.042	0.0050	0.05	0	85.0	54 - 120				
Aniline	0.027	0.0050	0.05	0	54.8	25 - 120				
Anthracene	0.044	0.0050	0.05	0	88.0	55 - 120				
Aramite	0.034	0.0050	0.05	0	68.0	55 - 142				
Benz(a)anthracene	0.040	0.0050	0.05	0	80.7	55 - 125				
Benzo(a)pyrene	0.046	0.0050	0.05	0	92.9	55 - 120				
Benzo(b)fluoranthene	0.038	0.0050	0.05	0	76.8	55 - 125				
Benzo(g,h,i)perylene	0.043	0.0050	0.05	0	87.0	55 - 120				
Benzo(k)fluoranthene	0.050	0.0050	0.05	0	99.1	55 - 130				
Benzyl alcohol	0.042	0.0050	0.05	0	83.9	55 - 120				
Bis(2-chloroethoxy)methane	0.055	0.0050	0.05	0	111	55 - 120				
Bis(2-chloroethyl)ether	0.043	0.0050	0.05	0	86.2	55 - 120				
Bis(2-chloroisopropyl)ether	0.047	0.0050	0.05	0	93.9	55 - 120				
Bis(2-ethylhexyl)phthalate	0.046	0.0050	0.05	0	91.1	55 - 125				
Butyl benzyl phthalate	0.045	0.0050	0.05	0	90.5	55 - 125				
Chlorobenzilate	0.041	0.0050	0.05	0	82.0	55 - 130				
Chrysene	0.043	0.0050	0.05	0	85.5	55 - 125				
Diallate	0.037	0.0050	0.05	0	74.3	50 - 140				
Dibenz(a,h)anthracene	0.041	0.0050	0.05	0	82.0	55 - 120				
Dibenzofuran	0.043	0.0050	0.05	0	86.6	55 - 120				
Diethyl phthalate	0.044	0.0050	0.05	0	88.0	55 - 120				
Dimethoate	0.029	0.0050	0.05	0	58.5	40 - 130				
Dimethyl phthalate	0.043	0.0050	0.05	0	85.5	55 - 120				
Di-n-butyl phthalate	0.046	0.0050	0.05	0	91.4	55 - 125				
Di-n-octyl phthalate	0.049	0.0050	0.05	0	98.1	55 - 130				
Dinoseb	0.053	0.0050	0.05	0	107	40 - 130				
Diphenylamine	0.044	0.0050	0.05	0	87.0	55 - 120				

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Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-201576	Units: mg/L			Analysis Date: 09-Oct-2023 11:18					
Client ID:	Run ID: SV-4_448534	SeqNo: 7604107	PrepDate: 06-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Disulfoton	0.045	0.0050	0.05	0	90.7	40 - 130				
Ethyl methanesulfonate	0.040	0.0050	0.05	0	79.7	55 - 120				
Ethyl parathion	0.042	0.0050	0.05	0	84.8	40 - 130				
Famphur	U	0.0050	0.05	0	0	40 - 130				S
Fluoranthene	0.044	0.0050	0.05	0	88.2	55 - 125				
Fluorene	0.043	0.0050	0.05	0	86.1	55 - 120				
Hexachlorobenzene	0.042	0.0050	0.05	0	83.8	55 - 120				
Hexachlorobutadiene	0.039	0.0050	0.05	0	78.5	55 - 120				
Hexachlorocyclopentadiene	0.031	0.0050	0.05	0	62.4	50 - 120				
Hexachloroethane	0.041	0.0050	0.05	0	82.9	55 - 120				
Hexachlorophene	0.19	0.025	0.25	0	74.0	20 - 125				
Hexachloropropene	0.036	0.0050	0.05	0	72.1	55 - 120				
Indeno(1,2,3-cd)pyrene	0.044	0.0050	0.05	0	88.6	55 - 125				
Isodrin	0.034	0.0050	0.05	0	67.2	55 - 120				
Isophorone	0.042	0.0050	0.05	0	83.9	55 - 120				
Isosafrole	0.033	0.0050	0.05	0	65.5	45 - 140				
Kepone	0.028	0.0050	0.05	0	56.9	15 - 110				
Methapyrilene	0.038	0.0050	0.05	0	76.3	40 - 130				
Methyl methanesulfonate	0.042	0.0050	0.05	0	84.0	55 - 120				
Methyl parathion	0.033	0.0050	0.05	0	65.4	40 - 130				
Naphthalene	0.041	0.0050	0.05	0	82.1	55 - 120				
Nitrobenzene	0.044	0.0050	0.05	0	87.1	55 - 120				
N-Nitrosodiethylamine	0.036	0.0050	0.05	0	71.4	50 - 130				
N-Nitrosodimethylamine	0.042	0.0050	0.05	0	84.2	45 - 120				
N-Nitroso-di-n-butylamine	0.038	0.0050	0.05	0	76.4	40 - 130				
N-Nitrosodiphenylamine	0.044	0.0050	0.05	0	87.0	55 - 120				
N-Nitrosomethylethylamine	0.037	0.0050	0.05	0	73.6	40 - 130				
N-Nitrosomorpholine	0.048	0.0050	0.05	0	96.8	40 - 130				
N-Nitrosopiperidine	0.034	0.0050	0.05	0	67.2	40 - 130				
N-Nitrosopyrrolidine	0.038	0.0050	0.05	0	76.8	40 - 130				
o-Toluidine	0.029	0.0050	0.05	0	57.0	30 - 120				
p-Dimethylaminoazobenzene	0.036	0.0050	0.05	0	71.7	40 - 130				
Pentachlorobenzene	0.034	0.0050	0.05	0	68.2	55 - 120				
Pentachloroethane	0.035	0.0050	0.05	0	69.0	40 - 140				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-201576	Units: mg/L			Analysis Date: 09-Oct-2023 11:18					
Client ID:	Run ID: SV-4_448534	SeqNo: 7604107		PrepDate: 06-Oct-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Pentachloronitrobenzene	0.045	0.0050	0.05	0	90.0	55 - 140				
Pentachlorophenol	0.088	0.0050	0.1	0	88.4	50 - 135				
Phenacetin	0.041	0.0050	0.05	0	81.9	55 - 125				
Phenanthrene	0.043	0.0050	0.05	0	86.6	55 - 120				
Phenol	0.087	0.0050	0.1	0	87.4	50 - 120				
Phorate	0.056	0.0050	0.05	0	112	40 - 130				
p-Phenylenediamine	0.011	0.0050	0.05	0	22.3	10 - 61				
Pronamide	0.035	0.0050	0.05	0	70.0	55 - 125				
Pyrene	0.043	0.0050	0.05	0	86.3	55 - 125				
Pyridine	0.035	0.0050	0.05	0	69.8	30 - 120				
Safrole	0.034	0.0050	0.05	0	67.5	55 - 120				
Tetraethyldithiopyrophosphate	0.034	0.0050	0.05	0	67.9	40 - 130				
Thionazin	0.039	0.0050	0.05	0	78.1	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.071</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>71.0</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.080</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>79.5</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.076</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>76.2</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.080</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>79.7</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.084</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>84.1</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.080</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>80.2</i>	<i>11 - 110</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS	Sample ID: HS23091749-01MS	Units: mg/L			Analysis Date: 09-Oct-2023 18:13					
Client ID: PTS-03-SL-20230926	Run ID: SV-4_448534	SeqNo: 7604108	PrepDate: 06-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	0.031	0.0050	0.05	0	62.0	55 - 120				
1,2,4-Trichlorobenzene	0.037	0.0050	0.05	0	74.4	55 - 120				
1,3-Dinitrobenzene	0.042	0.0050	0.05	0	83.7	55 - 120				
1,4-Dioxane	0.021	0.0050	0.05	0	42.2	15 - 120				
1,4-Naphthoquinone	0.024	0.0050	0.05	0	48.6	55 - 120				S
1-Naphthylamine	0.016	0.0050	0.05	0	32.4	10 - 80				
2,3,4,6-Tetrachlorophenol	0.080	0.0050	0.1	0	79.7	55 - 120				
2,4,5-Trichlorophenol	0.082	0.0050	0.1	0	81.8	55 - 120				
2,4,6-Trichlorophenol	0.087	0.0050	0.1	0	86.5	55 - 120				
2,4-Dichlorophenol	0.084	0.0050	0.1	0	84.3	55 - 120				
2,4-Dimethylphenol	0.085	0.0050	0.1	0	85.2	55 - 125				
2,4-Dinitrophenol	0.075	0.0050	0.1	0	74.5	40 - 125				
2,4-Dinitrotoluene	0.042	0.0050	0.05	0	84.8	55 - 125				
2,6-Dichlorophenol	0.072	0.0050	0.1	0	71.6	55 - 120				
2,6-Dinitrotoluene	0.042	0.0050	0.05	0	83.8	55 - 120				
2-Acetylaminofluorene	0.032	0.0050	0.05	0	63.8	40 - 130				
2-Chloronaphthalene	0.047	0.0050	0.05	0	94.5	55 - 145				
2-Chlorophenol	0.092	0.0050	0.1	0	91.6	55 - 120				
2-Methylnaphthalene	0.042	0.0050	0.05	0	84.4	55 - 120				
2-Methylphenol	0.097	0.0050	0.1	0	97.4	55 - 120				
2-Naphthylamine	0.014	0.0050	0.05	0	28.9	40 - 130				S
2-Nitroaniline	0.057	0.0050	0.05	0	114	55 - 130				
2-Nitrophenol	0.080	0.0050	0.1	0	80.4	55 - 120				
2-Picoline	0.030	0.0050	0.05	0	60.9	40 - 130				
3&4-Methylphenol	0.17	0.0050	0.15	0.002648	114	55 - 120				
3,3'-Dichlorobenzidine	0.034	0.0050	0.05	0	67.4	32 - 125				
3,3'-Dimethylbenzidine	0.0068	0.0050	0.05	0	13.7	20 - 120				S
3-Methylcholanthrene	0.041	0.0050	0.05	0	81.4	55 - 125				
3-Nitroaniline	0.034	0.0050	0.05	0	67.5	43 - 120				
4,6-Dinitro-2-methylphenol	0.088	0.0050	0.1	0	87.7	50 - 130				
4-Aminobiphenyl	0.011	0.0050	0.05	0	22.2	20 - 120				
4-Chloroaniline	0.028	0.0050	0.05	0	55.7	30 - 120				
4-Chlorophenyl phenyl ether	0.041	0.0050	0.05	0	82.0	55 - 120				
4-Nitroaniline	0.033	0.0050	0.05	0	66.1	55 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS		Sample ID: HS23091749-01MS		Units: mg/L		Analysis Date: 09-Oct-2023 18:13				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7604108		PrepDate: 06-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
4-Nitrophenol	0.090	0.0050	0.1	0	89.9	50 - 130				
4-Nitroquinoline-1-oxide	0.023	0.0050	0.05	0	45.7	50 - 150			S	
5-Nitro-o-toluidine	0.021	0.0050	0.05	0	42.6	40 - 130				
7,12-Dimethylbenz(a)anthracene	0.050	0.0050	0.05	0	100	55 - 120				
a,a-Dimethylphenethylamine	0.036	0.0050	0.05	0	71.0	40 - 130				
Acenaphthene	0.043	0.0050	0.05	0.001092	83.7	55 - 120				
Acenaphthylene	0.043	0.0050	0.05	0	85.6	55 - 120				
Acetophenone	0.042	0.0050	0.05	0.001294	82.3	54 - 120				
Aniline	0.038	0.0050	0.05	0	75.5	25 - 120				
Anthracene	0.043	0.0050	0.05	0	85.7	55 - 120				
Aramite	0.036	0.0050	0.05	0	71.9	55 - 142				
Benz(a)anthracene	0.040	0.0050	0.05	0	80.3	55 - 125				
Benzo(a)pyrene	0.047	0.0050	0.05	0	93.6	55 - 120				
Benzo(b)fluoranthene	0.039	0.0050	0.05	0	77.7	55 - 125				
Benzo(g,h,i)perylene	0.046	0.0050	0.05	0	91.5	55 - 120				
Benzo(k)fluoranthene	0.051	0.0050	0.05	0	102	55 - 130				
Benzyl alcohol	0.047	0.0050	0.05	0	93.4	55 - 120				
Bis(2-chloroethoxy)methane	0.053	0.0050	0.05	0	106	55 - 120				
Bis(2-chloroethyl)ether	0.055	0.0050	0.05	0	111	55 - 120				
Bis(2-chloroisopropyl)ether	0.049	0.0050	0.05	0	97.4	55 - 120				
Bis(2-ethylhexyl)phthalate	0.048	0.0050	0.05	0	96.8	55 - 125				
Butyl benzyl phthalate	0.047	0.0050	0.05	0	93.2	55 - 125				
Chlorobenzilate	0.043	0.0050	0.05	0	86.0	55 - 130				
Chrysene	0.042	0.0050	0.05	0	83.4	55 - 125				
Diallate	0.038	0.0050	0.05	0	76.2	50 - 140				
Dibenz(a,h)anthracene	0.045	0.0050	0.05	0	90.5	55 - 120				
Dibenzofuran	0.042	0.0050	0.05	0	83.6	55 - 120				
Diethyl phthalate	0.042	0.0050	0.05	0	85.0	55 - 120				
Dimethoate	0.026	0.0050	0.05	0	51.6	40 - 130				
Dimethyl phthalate	0.042	0.0050	0.05	0	83.2	55 - 120				
Di-n-butyl phthalate	0.044	0.0050	0.05	0	87.4	55 - 125				
Di-n-octyl phthalate	0.053	0.0050	0.05	0	107	55 - 130				
Dinoseb	0.065	0.0050	0.05	0	130	40 - 130			S	
Diphenylamine	0.045	0.0050	0.05	0	89.0	55 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS	Sample ID: HS23091749-01MS	Units: mg/L			Analysis Date: 09-Oct-2023 18:13					
Client ID: PTS-03-SL-20230926	Run ID: SV-4_448534	SeqNo: 7604108	PrepDate: 06-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Disulfoton	0.040	0.0050	0.05	0	80.9	40 - 130				
Ethyl methanesulfonate	0.043	0.0050	0.05	0	86.8	55 - 120				
Ethyl parathion	0.036	0.0050	0.05	0	72.1	40 - 130				
Famphur	U	0.0050	0.05	0	0	40 - 130				S
Fluoranthene	0.040	0.0050	0.05	0	80.8	55 - 125				
Fluorene	0.042	0.0050	0.05	0	84.2	55 - 120				
Hexachlorobenzene	0.041	0.0050	0.05	0	82.6	55 - 120				
Hexachlorobutadiene	0.036	0.0050	0.05	0	71.5	55 - 120				
Hexachlorocyclopentadiene	0.028	0.0050	0.05	0	55.6	50 - 120				
Hexachloroethane	0.041	0.0050	0.05	0	82.2	55 - 120				
Hexachlorophene	0.076	0.025	0.25	0	30.4	20 - 125				
Hexachloropropene	0.034	0.0050	0.05	0	67.1	55 - 120				
Indeno(1,2,3-cd)pyrene	0.046	0.0050	0.05	0	92.8	55 - 125				
Isodrin	0.034	0.0050	0.05	0	67.4	55 - 120				
Isophorone	0.043	0.0050	0.05	0	85.1	55 - 120				
Isosafrole	0.033	0.0050	0.05	0	66.4	45 - 140				
Kepone	0.022	0.0050	0.05	0	44.0	15 - 110				
Methapyrilene	0.033	0.0050	0.05	0	66.6	40 - 130				
Methyl methanesulfonate	0.046	0.0050	0.05	0	91.6	55 - 120				
Methyl parathion	0.030	0.0050	0.05	0	60.8	40 - 130				
Naphthalene	0.040	0.0050	0.05	0	79.3	55 - 120				
Nitrobenzene	0.043	0.0050	0.05	0	86.2	55 - 120				
N-Nitrosodiethylamine	0.032	0.0050	0.05	0	63.8	50 - 130				
N-Nitrosodimethylamine	0.040	0.0050	0.05	0	79.5	45 - 120				
N-Nitroso-di-n-butylamine	0.034	0.0050	0.05	0	68.0	40 - 130				
N-Nitrosodiphenylamine	0.045	0.0050	0.05	0	89.0	55 - 120				
N-Nitrosomethylethylamine	0.032	0.0050	0.05	0	64.0	40 - 130				
N-Nitrosomorpholine	0.051	0.0050	0.05	0	102	40 - 130				
N-Nitrosopiperidine	0.029	0.0050	0.05	0	58.7	40 - 130				
N-Nitrosopyrrolidine	0.039	0.0050	0.05	0	77.1	40 - 130				
o-Toluidine	0.020	0.0050	0.05	0	40.3	30 - 120				
p-Dimethylaminoazobenzene	0.032	0.0050	0.05	0	64.0	40 - 130				
Pentachlorobenzene	0.033	0.0050	0.05	0	66.2	55 - 120				
Pentachloroethane	0.033	0.0050	0.05	0	66.7	40 - 140				

ALS Houston, US

Date: 30-Nov-23

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Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS		Sample ID: HS23091749-01MS		Units: mg/L		Analysis Date: 09-Oct-2023 18:13				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7604108		PrepDate: 06-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Pentachloronitrobenzene	0.043	0.0050	0.05	0	86.5	55 - 140				
Pentachlorophenol	0.083	0.0050	0.1	0	82.8	50 - 135				
Phenacetin	0.039	0.0050	0.05	0	78.4	55 - 125				
Phenanthrene	0.044	0.0050	0.05	0.001037	85.3	55 - 120				
Phenol	0.097	0.0050	0.1	0	97.3	50 - 120				
Phorate	0.049	0.0050	0.05	0	98.8	40 - 130				
p-Phenylenediamine	0.0061	0.0050	0.05	0	12.2	10 - 61				
Pronamide	0.034	0.0050	0.05	0	67.4	55 - 125				
Pyrene	0.045	0.0050	0.05	0	90.8	55 - 125				
Pyridine	0.038	0.0050	0.05	0	75.8	30 - 120				
Safrole	0.034	0.0050	0.05	0	67.6	55 - 120				
Tetraethyldithiopyrophosphate	0.029	0.0050	0.05	0	58.7	40 - 130				
Thionazin	0.033	0.0050	0.05	0	65.9	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.067</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>66.8</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.078</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>78.2</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.079</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>79.2</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.083</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>83.0</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.080</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>80.3</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.089</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>88.6</i>	<i>11 - 110</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MSD		Sample ID: HS23091749-01MSD		Units: mg/L		Analysis Date: 09-Oct-2023 18:35				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7604109		PrepDate: 06-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	0.030	0.0050	0.05	0	59.8	55 - 120	0.03101	3.58	30	
1,2,4-Trichlorobenzene	0.037	0.0050	0.05	0	73.7	55 - 120	0.03718	0.909	30	
1,3-Dinitrobenzene	0.042	0.0050	0.05	0	84.4	55 - 120	0.04187	0.813	30	
1,4-Dioxane	0.021	0.0050	0.05	0	41.8	15 - 120	0.02112	1.09	30	
1,4-Naphthoquinone	0.025	0.0050	0.05	0	49.1	55 - 120	0.02432	0.897	30	S
1-Naphthylamine	0.017	0.0050	0.05	0	33.5	10 - 80	0.01621	3.24	30	
2,3,4,6-Tetrachlorophenol	0.082	0.0050	0.1	0	81.6	55 - 120	0.07967	2.41	30	
2,4,5-Trichlorophenol	0.081	0.0050	0.1	0	80.8	55 - 120	0.08178	1.21	30	
2,4,6-Trichlorophenol	0.087	0.0050	0.1	0	86.7	55 - 120	0.08655	0.168	30	
2,4-Dichlorophenol	0.087	0.0050	0.1	0	87.0	55 - 120	0.08430	3.14	30	
2,4-Dimethylphenol	0.088	0.0050	0.1	0	88.0	55 - 125	0.08524	3.15	30	
2,4-Dinitrophenol	0.080	0.0050	0.1	0	79.7	40 - 125	0.07454	6.65	30	
2,4-Dinitrotoluene	0.043	0.0050	0.05	0	85.9	55 - 125	0.04240	1.3	30	
2,6-Dichlorophenol	0.074	0.0050	0.1	0	74.1	55 - 120	0.07162	3.39	30	
2,6-Dinitrotoluene	0.043	0.0050	0.05	0	85.1	55 - 120	0.04191	1.49	30	
2-Acetylaminofluorene	0.032	0.0050	0.05	0	63.3	40 - 130	0.03192	0.915	30	
2-Chloronaphthalene	0.047	0.0050	0.05	0	94.5	55 - 145	0.04726	0.0308	30	
2-Chlorophenol	0.095	0.0050	0.1	0	94.9	55 - 120	0.09157	3.6	30	
2-Methylnaphthalene	0.043	0.0050	0.05	0	86.5	55 - 120	0.04220	2.51	30	
2-Methylphenol	0.10	0.0050	0.1	0	103	55 - 120	0.09741	5.58	30	
2-Naphthylamine	0.014	0.0050	0.05	0	28.9	40 - 130	0.01444	0.0973	30	S
2-Nitroaniline	0.057	0.0050	0.05	0	114	55 - 130	0.05722	0.0133	30	
2-Nitrophenol	0.082	0.0050	0.1	0	81.7	55 - 120	0.08038	1.62	30	
2-Picoline	0.031	0.0050	0.05	0	61.6	40 - 130	0.03044	1.21	30	
3&4-Methylphenol	0.18	0.0050	0.15	0.002648	121	55 - 120	0.1737	6.06	30	S
3,3'-Dichlorobenzidine	0.034	0.0050	0.05	0	68.9	32 - 125	0.03369	2.22	30	
3,3'-Dimethylbenzidine	0.0067	0.0050	0.05	0	13.5	20 - 120	0.006825	1.15	30	S
3-Methylcholanthrene	0.041	0.0050	0.05	0	81.8	55 - 125	0.04070	0.486	30	
3-Nitroaniline	0.036	0.0050	0.05	0	71.4	43 - 120	0.03377	5.54	30	
4,6-Dinitro-2-methylphenol	0.086	0.0050	0.1	0	86.4	50 - 130	0.08767	1.44	30	
4-Aminobiphenyl	0.0096	0.0050	0.05	0	19.3	20 - 120	0.01112	14.4	30	S
4-Chloroaniline	0.027	0.0050	0.05	0	54.9	30 - 120	0.02783	1.34	30	
4-Chlorophenyl phenyl ether	0.041	0.0050	0.05	0	81.8	55 - 120	0.04101	0.297	30	
4-Nitroaniline	0.034	0.0050	0.05	0	68.8	55 - 120	0.03307	3.96	30	

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MSD		Sample ID: HS23091749-01MSD		Units: mg/L		Analysis Date: 09-Oct-2023 18:35				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7604109		PrepDate: 06-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4-Nitrophenol	0.098	0.0050	0.1	0	97.7	50 - 130	0.08989	8.28	30	
4-Nitroquinoline-1-oxide	0.015	0.0050	0.05	0	30.5	50 - 150	0.02286	40	30	SR
5-Nitro-o-toluidine	0.022	0.0050	0.05	0	43.2	40 - 130	0.02132	1.29	30	
7,12-Dimethylbenz(a)anthracene	0.051	0.0050	0.05	0	102	55 - 120	0.05005	1.63	30	
a,a-Dimethylphenethylamine	0.039	0.0050	0.05	0	78.1	40 - 130	0.03551	9.49	30	
Acenaphthene	0.043	0.0050	0.05	0.001092	83.4	55 - 120	0.04296	0.437	30	
Acenaphthylene	0.042	0.0050	0.05	0	84.6	55 - 120	0.04280	1.15	30	
Acetophenone	0.043	0.0050	0.05	0.001294	82.7	54 - 120	0.04243	0.467	30	
Aniline	0.025	0.0050	0.05	0	50.0	25 - 120	0.03774	40.7	30	R
Anthracene	0.043	0.0050	0.05	0	86.4	55 - 120	0.04285	0.782	30	
Aramite	0.036	0.0050	0.05	0	72.5	55 - 142	0.03594	0.808	30	
Benz(a)anthracene	0.040	0.0050	0.05	0	80.6	55 - 125	0.04017	0.309	30	
Benzo(a)pyrene	0.047	0.0050	0.05	0	94.1	55 - 120	0.04679	0.567	30	
Benzo(b)fluoranthene	0.040	0.0050	0.05	0	79.2	55 - 125	0.03886	1.82	30	
Benzo(g,h,i)perylene	0.045	0.0050	0.05	0	90.2	55 - 120	0.04577	1.47	30	
Benzo(k)fluoranthene	0.052	0.0050	0.05	0	103	55 - 130	0.05075	1.93	30	
Benzyl alcohol	0.049	0.0050	0.05	0	98.3	55 - 120	0.04671	5.12	30	
Bis(2-chloroethoxy)methane	0.054	0.0050	0.05	0	108	55 - 120	0.05296	1.65	30	
Bis(2-chloroethyl)ether	0.051	0.0050	0.05	0	102	55 - 120	0.05540	7.81	30	
Bis(2-chloroisopropyl)ether	0.051	0.0050	0.05	0	101	55 - 120	0.04868	3.77	30	
Bis(2-ethylhexyl)phthalate	0.048	0.0050	0.05	0	96.5	55 - 125	0.04841	0.286	30	
Butyl benzyl phthalate	0.047	0.0050	0.05	0	94.6	55 - 125	0.04658	1.48	30	
Chlorobenzilate	0.044	0.0050	0.05	0	87.5	55 - 130	0.04300	1.73	30	
Chrysene	0.042	0.0050	0.05	0	83.5	55 - 125	0.04170	0.0687	30	
Diallate	0.038	0.0050	0.05	0	75.1	50 - 140	0.03808	1.45	30	
Dibenz(a,h)anthracene	0.045	0.0050	0.05	0	90.4	55 - 120	0.04523	0.0602	30	
Dibenzofuran	0.042	0.0050	0.05	0	83.7	55 - 120	0.04179	0.142	30	
Diethyl phthalate	0.043	0.0050	0.05	0	86.1	55 - 120	0.04248	1.3	30	
Dimethoate	0.024	0.0050	0.05	0	48.8	40 - 130	0.02578	5.42	30	
Dimethyl phthalate	0.042	0.0050	0.05	0	84.0	55 - 120	0.04160	0.988	30	
Di-n-butyl phthalate	0.043	0.0050	0.05	0	86.7	55 - 125	0.04372	0.792	30	
Di-n-octyl phthalate	0.055	0.0050	0.05	0	110	55 - 130	0.05335	3.02	30	
Dinoseb	0.064	0.0050	0.05	0	127	40 - 130	0.06506	2.11	30	
Diphenylamine	0.043	0.0050	0.05	0	86.9	55 - 120	0.04451	2.39	30	

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MSD		Sample ID: HS23091749-01MSD		Units: mg/L		Analysis Date: 09-Oct-2023 18:35				
Client ID: PTS-03-SL-20230926		Run ID: SV-4_448534		SeqNo: 7604109		PrepDate: 06-Oct-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Disulfoton	0.041	0.0050	0.05	0	81.4	40 - 130	0.04043	0.663	30	
Ethyl methanesulfonate	0.045	0.0050	0.05	0	89.8	55 - 120	0.04340	3.36	30	
Ethyl parathion	0.036	0.0050	0.05	0	71.6	40 - 130	0.03603	0.633	30	
Famphur	0.0059	0.0050	0.05	0	11.8	40 - 130	0	200	30	SR
Fluoranthene	0.040	0.0050	0.05	0	79.8	55 - 125	0.04042	1.26	30	
Fluorene	0.043	0.0050	0.05	0	85.4	55 - 120	0.04209	1.38	30	
Hexachlorobenzene	0.041	0.0050	0.05	0	81.2	55 - 120	0.04129	1.71	30	
Hexachlorobutadiene	0.035	0.0050	0.05	0	69.5	55 - 120	0.03574	2.76	30	
Hexachlorocyclopentadiene	0.025	0.0050	0.05	0	49.6	50 - 120	0.02779	11.4	30	S
Hexachloroethane	0.041	0.0050	0.05	0	81.7	55 - 120	0.04110	0.609	30	
Hexachlorophene	0.14	0.025	0.25	0	57.8	20 - 125	0.07591	62.2	30	R
Hexachloropropene	0.032	0.0050	0.05	0	64.5	55 - 120	0.03353	3.84	30	
Indeno(1,2,3-cd)pyrene	0.046	0.0050	0.05	0	91.5	55 - 125	0.04639	1.39	30	
Isodrin	0.034	0.0050	0.05	0	67.6	55 - 120	0.03371	0.266	30	
Isophorone	0.044	0.0050	0.05	0	87.7	55 - 120	0.04256	3.03	30	
Isosafrole	0.032	0.0050	0.05	0	64.9	45 - 140	0.03318	2.24	30	
Kepone	0.021	0.0050	0.05	0	41.2	15 - 110	0.02200	6.67	30	
Methapyrilene	0.032	0.0050	0.05	0	64.3	40 - 130	0.03329	3.49	30	
Methyl methanesulfonate	0.047	0.0050	0.05	0	93.9	55 - 120	0.04580	2.45	30	
Methyl parathion	0.029	0.0050	0.05	0	58.8	40 - 130	0.03041	3.32	30	
Naphthalene	0.040	0.0050	0.05	0	80.4	55 - 120	0.03965	1.34	30	
Nitrobenzene	0.043	0.0050	0.05	0	85.7	55 - 120	0.04309	0.518	30	
N-Nitrosodiethylamine	0.033	0.0050	0.05	0	65.5	50 - 130	0.03190	2.67	30	
N-Nitrosodimethylamine	0.040	0.0050	0.05	0	79.8	45 - 120	0.03973	0.416	30	
N-Nitroso-di-n-butylamine	0.036	0.0050	0.05	0	71.7	40 - 130	0.03402	5.26	30	
N-Nitrosodiphenylamine	0.043	0.0050	0.05	0	86.9	55 - 120	0.04451	2.39	30	
N-Nitrosomethylethylamine	0.032	0.0050	0.05	0	63.7	40 - 130	0.03201	0.561	30	
N-Nitrosomorpholine	0.054	0.0050	0.05	0	108	40 - 130	0.05101	5.42	30	
N-Nitrosopiperidine	0.030	0.0050	0.05	0	59.6	40 - 130	0.02935	1.58	30	
N-Nitrosopyrrolidine	0.029	0.0050	0.05	0	58.9	40 - 130	0.03857	26.9	30	
o-Toluidine	0.018	0.0050	0.05	0	36.7	30 - 120	0.02015	9.29	30	
p-Dimethylaminoazobenzene	0.032	0.0050	0.05	0	63.4	40 - 130	0.03199	0.85	30	
Pentachlorobenzene	0.033	0.0050	0.05	0	66.1	55 - 120	0.03311	0.13	30	
Pentachloroethane	0.034	0.0050	0.05	0	67.2	40 - 140	0.03333	0.797	20	

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201576 (1)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MSD	Sample ID: HS23091749-01MSD	Units: mg/L			Analysis Date: 09-Oct-2023 18:35					
Client ID: PTS-03-SL-20230926	Run ID: SV-4_448534	SeqNo: 7604109	PrepDate: 06-Oct-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Pentachloronitrobenzene	0.043	0.0050	0.05	0	85.7	55 - 140	0.04324	0.915	30	
Pentachlorophenol	0.084	0.0050	0.1	0	84.4	50 - 135	0.08277	1.9	30	
Phenacetin	0.039	0.0050	0.05	0	78.6	55 - 125	0.03921	0.265	30	
Phenanthrene	0.043	0.0050	0.05	0.001037	84.6	55 - 120	0.04367	0.766	30	
Phenol	0.10	0.0050	0.1	0	101	50 - 120	0.09727	4.05	30	
Phorate	0.048	0.0050	0.05	0	95.7	40 - 130	0.04942	3.27	30	
p-Phenylenediamine	0.0067	0.0050	0.05	0	13.3	10 - 61	0.006084	9.16	30	
Pronamide	0.034	0.0050	0.05	0	67.2	55 - 125	0.03370	0.295	30	
Pyrene	0.046	0.0050	0.05	0	91.5	55 - 125	0.04540	0.723	30	
Pyridine	0.038	0.0050	0.05	0	75.3	30 - 120	0.03791	0.651	30	
Safrole	0.035	0.0050	0.05	0	69.2	55 - 120	0.03379	2.34	30	
Tetraethyldithiopyrophosphate	0.029	0.0050	0.05	0	58.0	40 - 130	0.02935	1.18	30	
Thionazin	0.033	0.0050	0.05	0	66.6	40 - 130	0.03293	1.13	30	
Surr: 2,4,6-Tribromophenol	0.068	0.0050	0.1	0	68.4	39 - 153	0.06679	2.35	30	
Surr: 2-Fluorobiphenyl	0.076	0.0050	0.1	0	76.2	40 - 147	0.07821	2.56	30	
Surr: 2-Fluorophenol	0.081	0.0050	0.1	0	81.0	21 - 110	0.07923	2.17	30	
Surr: 4-Terphenyl-d14	0.085	0.0050	0.1	0	85.0	39 - 141	0.08305	2.31	30	
Surr: Nitrobenzene-d5	0.080	0.0050	0.1	0	79.9	37 - 140	0.08027	0.482	30	
Surr: Phenol-d6	0.093	0.0050	0.1	0	92.9	11 - 110	0.08863	4.66	30	

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201324 (0) **Instrument:** VOA11 **Method:** TCLP VOLATILES BY SW8260C

MBLK Sample ID: **MBLK-201324** Units: **mg/L** Analysis Date: **03-Oct-2023 23:09**
 Client ID: Run ID: **VOA11_448078** SeqNo: **7583554** PrepDate: **03-Oct-2023** DF: **20**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

1,1,1,2-Tetrachloroethane	U	0.10								
1,1,1-Trichloroethane	U	0.10								
1,1,2,2-Tetrachloroethane	U	0.10								
1,1,2-Trichloroethane	U	0.10								
1,1-Dichloroethane	U	0.10								
1,1-Dichloroethene	U	0.10								
1,2-Dibromoethane	U	0.10								
1,2-Dichlorobenzene	U	0.10								
1,2-Dichloroethane	U	0.10								
1,2-Dichloropropane	U	0.10								
1,3-Dichlorobenzene	U	0.10								
1,4-Dichlorobenzene	U	0.10								
1,4-Dioxane	U	2.0								
2-Butanone	U	0.20								
2-Chloro-1,3-butadiene	U	0.10								
2-Hexanone	U	0.20								
4-Methyl-2-pentanone	U	0.20								
Acetone	U	0.20								
Acetonitrile	U	1.0								
Acrolein	U	0.40								
Acrylonitrile	U	0.20								
Allyl Chloride	U	0.20								
Benzene	U	0.10								
Bromodichloromethane	U	0.10								
Bromoform	U	0.10								
Bromomethane	U	0.10								
Carbon disulfide	U	0.20								
Carbon tetrachloride	U	0.10								
Chlorobenzene	U	0.10								
Chloroethane	U	0.10								
Chloroform	U	0.10								
Chloromethane	U	0.10								
cis-1,3-Dichloropropene	U	0.10								
Dibromochloromethane	U	0.10								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201324 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
MBLK	Sample ID: MBLK-201324	Units: mg/L			Analysis Date: 03-Oct-2023 23:09					
Client ID:	Run ID: VOA11_448078	SeqNo: 7583554	PrepDate: 03-Oct-2023	DF: 20						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	U	0.10								
Dichlorodifluoromethane	U	0.10								
Ethyl methacrylate	U	0.10								
Ethylbenzene	U	0.10								
Iodomethane	U	0.20								
Isobutyl alcohol	U	2.0								
Methacrylonitrile	U	0.10								
Methyl methacrylate	U	0.10								
Methylene chloride	U	0.20								
Propionitrile	U	1.0								
Styrene	U	0.10								
Tetrachloroethene	U	0.10								
Toluene	U	0.10								
trans-1,2-Dichloroethene	U	0.10								
trans-1,3-Dichloropropene	U	0.10								
trans-1,4-Dichloro-2-butene	U	0.10								
Trichloroethene	U	0.10								
Trichlorofluoromethane	U	0.10								
Vinyl acetate	U	0.20								
Vinyl chloride	U	0.040								
Xylenes, Total	U	0.10								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.99</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>99.5</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.96</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>95.6</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.99</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>98.6</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>1.00</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>100.0</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201324 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
LCS	Sample ID: VLCSW-231003	Units: mg/L			Analysis Date: 03-Oct-2023 21:03					
Client ID:	Run ID: VOA11_448078	SeqNo: 7583552	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.021	0.0050	0.02	0	104	77 - 118				
1,1,1-Trichloroethane	0.020	0.0050	0.02	0	101	70 - 130				
1,1,2,2-Tetrachloroethane	0.019	0.0050	0.02	0	94.6	70 - 120				
1,1,2-Trichloroethane	0.020	0.0050	0.02	0	100	77 - 113				
1,1-Dichloroethane	0.021	0.0050	0.02	0	103	71 - 122				
1,1-Dichloroethene	0.022	0.0050	0.02	0	109	70 - 130				
1,2-Dibromoethane	0.021	0.0050	0.02	0	104	76 - 123				
1,2-Dichlorobenzene	0.020	0.0050	0.02	0	101	77 - 113				
1,2-Dichloroethane	0.019	0.0050	0.02	0	96.4	70 - 124				
1,2-Dichloropropane	0.020	0.0050	0.02	0	102	72 - 119				
1,3-Dichlorobenzene	0.020	0.0050	0.02	0	102	78 - 118				
1,4-Dichlorobenzene	0.020	0.0050	0.02	0	100	79 - 113				
1,4-Dioxane	0.37	0.10	0.4	0	92.9	60 - 154				
2-Butanone	0.036	0.010	0.04	0	91.1	70 - 130				
2-Chloro-1,3-butadiene	0.019	0.0050	0.02	0	95.8	70 - 130				
2-Hexanone	0.045	0.010	0.04	0	112	70 - 130				
4-Methyl-2-pentanone	0.040	0.010	0.04	0	101	70 - 130				
Acetone	0.042	0.010	0.04	0	106	70 - 130				
Acetonitrile	0.20	0.050	0.2	0	98.3	70 - 130				
Acrolein	0.051	0.020	0.04	0	127	70 - 130				
Acrylonitrile	0.040	0.010	0.04	0	100	70 - 130				
Allyl Chloride	0.019	0.010	0.02	0	97.3	70 - 130				
Benzene	0.020	0.0050	0.02	0	99.4	74 - 120				
Bromodichloromethane	0.020	0.0050	0.02	0	101	74 - 122				
Bromoform	0.018	0.0050	0.02	0	89.2	73 - 128				
Bromomethane	0.023	0.0050	0.02	0	116	70 - 130				
Carbon disulfide	0.041	0.010	0.04	0	103	70 - 130				
Carbon tetrachloride	0.019	0.0050	0.02	0	93.8	71 - 125				
Chlorobenzene	0.020	0.0050	0.02	0	101	76 - 113				
Chloroethane	0.021	0.0050	0.02	0	105	70 - 130				
Chloroform	0.021	0.0050	0.02	0	103	71 - 121				
Chloromethane	0.019	0.0050	0.02	0	96.0	70 - 129				
cis-1,3-Dichloropropene	0.018	0.0050	0.02	0	91.0	73 - 127				
Dibromochloromethane	0.019	0.0050	0.02	0	93.5	77 - 122				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201324 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
LCS	Sample ID: VLCSW-231003	Units: mg/L			Analysis Date: 03-Oct-2023 21:03					
Client ID:	Run ID: VOA11_448078	SeqNo: 7583552	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.021	0.0050	0.02	0	104	78 - 121				
Dichlorodifluoromethane	0.020	0.0050	0.02	0	102	70 - 130				
Ethyl methacrylate	0.019	0.0050	0.02	0	96.6	65 - 135				
Ethylbenzene	0.021	0.0050	0.02	0	106	77 - 117				
Iodomethane	0.037	0.010	0.04	0	91.6	70 - 130				
Isobutyl alcohol	0.35	0.10	0.4	0	87.6	70 - 130				
Methacrylonitrile	0.019	0.0050	0.02	0	96.4	70 - 130				
Methyl methacrylate	0.020	0.0050	0.02	0	102	73 - 139				
Methylene chloride	0.021	0.010	0.02	0	105	70 - 127				
Propionitrile	0.20	0.050	0.2	0	97.6	70 - 130				
Styrene	0.021	0.0050	0.02	0	107	72 - 126				
Tetrachloroethene	0.021	0.0050	0.02	0	104	76 - 119				
Toluene	0.020	0.0050	0.02	0	99.6	77 - 118				
trans-1,2-Dichloroethene	0.021	0.0050	0.02	0	107	72 - 127				
trans-1,3-Dichloropropene	0.017	0.0050	0.02	0	85.6	77 - 119				
trans-1,4-Dichloro-2-butene	0.020	0.0050	0.02	0	100.0	70 - 126				
Trichloroethene	0.021	0.0050	0.02	0	103	77 - 121				
Trichlorofluoromethane	0.022	0.0050	0.02	0	109	70 - 130				
Vinyl acetate	0.040	0.010	0.04	0	98.8	70 - 130				
Vinyl chloride	0.022	0.0020	0.02	0	109	70 - 130				
Xylenes, Total	0.062	0.0050	0.06	0	104	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.048</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>95.8</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.049</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>98.5</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.050</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>99.3</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.050</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>99.8</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201324 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
MS		Sample ID: HS23091749-01MS		Units: mg/L		Analysis Date: 03-Oct-2023 23:51				
Client ID: PTS-03-SL-20230926		Run ID: VOA11_448078		SeqNo: 7583556		PrepDate: 03-Oct-2023		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,1,1,2-Tetrachloroethane	0.35	0.10	0.4	0	86.9	70 - 120				
1,1,1-Trichloroethane	0.34	0.10	0.4	0	84.5	70 - 130				
1,1,2,2-Tetrachloroethane	0.30	0.10	0.4	0	73.8	70 - 123				
1,1,2-Trichloroethane	0.33	0.10	0.4	0	82.9	70 - 117				
1,1-Dichloroethane	0.34	0.10	0.4	0	85.8	70 - 127				
1,1-Dichloroethene	0.36	0.10	0.4	0	88.9	70 - 130				
1,2-Dibromoethane	0.35	0.10	0.4	0	86.8	70 - 124				
1,2-Dichlorobenzene	0.33	0.10	0.4	0	81.5	70 - 115				
1,2-Dichloroethane	0.32	0.10	0.4	0	78.9	70 - 127				
1,2-Dichloropropane	0.34	0.10	0.4	0	84.8	70 - 122				
1,3-Dichlorobenzene	0.32	0.10	0.4	0	81.1	70 - 119				
1,4-Dichlorobenzene	0.32	0.10	0.4	0	79.9	70 - 114				
1,4-Dioxane	6.5	2.0	8	0	81.7	60 - 154				
2-Butanone	0.63	0.20	0.8	0	78.9	70 - 130				
2-Chloro-1,3-butadiene	0.35	0.10	0.4	0	88.4	70 - 130				
2-Hexanone	0.67	0.20	0.8	0	83.7	70 - 130				
4-Methyl-2-pentanone	0.69	0.20	0.8	0	86.3	70 - 130				
Acetone	0.88	0.20	0.8	0	110	70 - 130				
Acetonitrile	3.5	1.0	4	0	86.9	70 - 130				
Acrolein	1.2	0.40	0.8	0	153	70 - 130			S	
Acrylonitrile	0.74	0.20	0.8	0	93.0	70 - 130				
Allyl Chloride	0.34	0.20	0.4	0	84.3	70 - 130				
Benzene	0.34	0.10	0.4	0	84.0	70 - 127				
Bromodichloromethane	0.32	0.10	0.4	0	81.2	70 - 124				
Bromoform	0.30	0.10	0.4	0	75.7	70 - 129				
Bromomethane	0.39	0.10	0.4	0	97.3	70 - 130				
Carbon disulfide	0.76	0.20	0.8	0	95.3	70 - 130				
Carbon tetrachloride	0.31	0.10	0.4	0	78.4	70 - 130				
Chlorobenzene	0.34	0.10	0.4	0	85.3	70 - 114				
Chloroethane	0.35	0.10	0.4	0	88.1	70 - 130				
Chloroform	0.34	0.10	0.4	0	85.7	70 - 125				
Chloromethane	0.28	0.10	0.4	0	70.8	70 - 130				
cis-1,3-Dichloropropene	0.29	0.10	0.4	0	71.7	70 - 125				
Dibromochloromethane	0.31	0.10	0.4	0	77.2	70 - 124				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201324 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
MS		Sample ID: HS23091749-01MS		Units: mg/L		Analysis Date: 03-Oct-2023 23:51				
Client ID: PTS-03-SL-20230926		Run ID: VOA11_448078		SeqNo: 7583556		PrepDate: 03-Oct-2023		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Dibromomethane	0.34	0.10	0.4	0	85.2	70 - 124				
Dichlorodifluoromethane	0.26	0.10	0.4	0	65.0	70 - 130			S	
Ethyl methacrylate	0.30	0.10	0.4	0	75.2	70 - 130				
Ethylbenzene	0.36	0.10	0.4	0	89.6	70 - 124				
Iodomethane	0.63	0.20	0.8	0	79.1	70 - 130				
Isobutyl alcohol	5.8	2.0	8	0	72.6	70 - 130				
Methacrylonitrile	0.37	0.10	0.4	0	93.2	70 - 130				
Methyl methacrylate	0.35	0.10	0.4	0	87.1	73 - 139				
Methylene chloride	0.37	0.20	0.4	0	92.7	70 - 128				
Propionitrile	3.5	1.0	8	0	43.7	70 - 130			S	
Styrene	0.35	0.10	0.4	0	86.7	70 - 130				
Tetrachloroethene	0.36	0.10	0.4	0	90.2	70 - 130				
Toluene	0.34	0.10	0.4	0	84.3	70 - 123				
trans-1,2-Dichloroethene	0.35	0.10	0.4	0	86.7	70 - 130				
trans-1,3-Dichloropropene	0.27	0.10	0.4	0	68.4	70 - 121			S	
trans-1,4-Dichloro-2-butene	0.34	0.10	0.4	0	86.0	70 - 130				
Trichloroethene	0.34	0.10	0.4	0	85.4	70 - 129				
Trichlorofluoromethane	0.38	0.10	0.4	0	94.0	70 - 130				
Vinyl acetate	0.70	0.20	0.8	0	87.4	70 - 130				
Vinyl chloride	0.33	0.040	0.4	0	82.6	70 - 130				
Xylenes, Total	1.0	0.10	1.2	0	87.4	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.93</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>92.6</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.98</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>97.9</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.97</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>96.6</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>				

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447679 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKS1-092923	Units: mg/Kg		Analysis Date: 29-Sep-2023 08:55					
Client ID:	Run ID: VOA8_447679	SeqNo: 7573680		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,1,1,2-Tetrachloroethane	U	0.0050							
1,1,1-Trichloroethane	U	0.0050							
1,1,2,2-Tetrachloroethane	U	0.0050							
1,1,2-Trichloroethane	U	0.0050							
1,1-Dichloroethane	U	0.0050							
1,1-Dichloroethene	U	0.0050							
1,2-Dibromoethane	U	0.0050							
1,2-Dichlorobenzene	U	0.0050							
1,2-Dichloroethane	U	0.0050							
1,2-Dichloropropane	U	0.0050							
1,3-Dichlorobenzene	U	0.0050							
1,4-Dichlorobenzene	U	0.0050							
1,4-Dioxane	U	0.10							
2-Butanone	U	0.010							
2-Chloro-1,3-butadiene	U	0.0050							
2-Hexanone	U	0.010							
4-Methyl-2-pentanone	U	0.010							
Acetone	U	0.020							
Acetonitrile	U	0.050							
Acrolein	U	0.020							
Acrylonitrile	U	0.010							
Allyl Chloride	U	0.010							
Benzene	U	0.0050							
Bromodichloromethane	U	0.0050							
Bromoform	U	0.0050							
Bromomethane	U	0.010							
Carbon disulfide	U	0.010							
Carbon tetrachloride	U	0.0050							
Chlorobenzene	U	0.0050							
Chloroethane	U	0.010							
Chloroform	U	0.0050							
Chloromethane	U	0.010							
cis-1,3-Dichloropropene	U	0.0050							
Dibromochloromethane	U	0.0050							

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447679 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C						
MBLK	Sample ID: VBLKS1-092923	Units: mg/Kg			Analysis Date: 29-Sep-2023 08:55					
Client ID:	Run ID: VOA8_447679	SeqNo: 7573680		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	U	0.0050								
Dichlorodifluoromethane	U	0.0050								
Ethyl methacrylate	U	0.0050								
Ethylbenzene	U	0.0050								
Iodomethane	U	0.010								
Isobutyl alcohol	U	0.10								
Methacrylonitrile	U	0.0050								
Methyl methacrylate	U	0.0050								
Methylene chloride	U	0.010								
Propionitrile	U	0.050								
Styrene	U	0.0050								
Tetrachloroethene	U	0.0050								
Toluene	U	0.0050								
trans-1,2-Dichloroethene	U	0.0050								
trans-1,3-Dichloropropene	U	0.0050								
trans-1,4-Dichloro-2-butene	U	0.0050								
Trichloroethene	U	0.0050								
Trichlorofluoromethane	U	0.0050								
Vinyl acetate	U	0.010								
Vinyl chloride	U	0.0050								
Xylenes, Total	U	0.015								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.040</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>80.1</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>100</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>90.0</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>99.4</i>	<i>81 - 118</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447679 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C						
LCS	Sample ID: VLCSS1-092923	Units: mg/Kg			Analysis Date: 29-Sep-2023 08:11					
Client ID:	Run ID: VOA8_447679	SeqNo: 7573679		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.048	0.0050	0.05	0	96.9	79 - 121				
1,1,1-Trichloroethane	0.047	0.0050	0.05	0	94.0	72 - 130				
1,1,2,2-Tetrachloroethane	0.046	0.0050	0.05	0	92.9	71 - 124				
1,1,2-Trichloroethane	0.042	0.0050	0.05	0	84.2	78 - 117				
1,1-Dichloroethane	0.050	0.0050	0.05	0	99.0	76 - 128				
1,1-Dichloroethene	0.047	0.0050	0.05	0	93.6	72 - 130				
1,2-Dibromoethane	0.045	0.0050	0.05	0	89.3	78 - 120				
1,2-Dichlorobenzene	0.053	0.0050	0.05	0	106	79 - 121				
1,2-Dichloroethane	0.048	0.0050	0.05	0	96.8	77 - 120				
1,2-Dichloropropane	0.044	0.0050	0.05	0	88.9	77 - 121				
1,3-Dichlorobenzene	0.054	0.0050	0.05	0	107	78 - 121				
1,4-Dichlorobenzene	0.053	0.0050	0.05	0	106	78 - 120				
1,4-Dioxane	0.99	0.10	1	0	98.9	64 - 135				
2-Butanone	0.081	0.010	0.1	0	81.4	70 - 128				
2-Chloro-1,3-butadiene	0.048	0.0050	0.05	0	97.0	72 - 126				
2-Hexanone	0.087	0.010	0.1	0	87.5	72 - 127				
4-Methyl-2-pentanone	0.083	0.010	0.1	0	82.9	70 - 128				
Acetone	0.078	0.020	0.1	0	78.5	70 - 130				
Acetonitrile	0.46	0.050	0.5	0	92.9	70 - 130				
Acrolein	0.080	0.020	0.1	0	80.5	76 - 120				
Acrylonitrile	0.085	0.010	0.1	0	85.1	72 - 126				
Allyl Chloride	0.047	0.010	0.05	0	93.5	72 - 130				
Benzene	0.053	0.0050	0.05	0	106	75 - 124				
Bromodichloromethane	0.045	0.0050	0.05	0	90.6	78 - 122				
Bromoform	0.046	0.0050	0.05	0	93.0	74 - 120				
Bromomethane	0.055	0.010	0.05	0	110	70 - 130				
Carbon disulfide	0.11	0.010	0.1	0	110	70 - 122				
Carbon tetrachloride	0.047	0.0050	0.05	0	93.6	72 - 128				
Chlorobenzene	0.053	0.0050	0.05	0	105	78 - 122				
Chloroethane	0.051	0.010	0.05	0	102	70 - 130				
Chloroform	0.052	0.0050	0.05	0	104	73 - 127				
Chloromethane	0.051	0.010	0.05	0	103	70 - 130				
cis-1,3-Dichloropropene	0.043	0.0050	0.05	0	86.2	78 - 122				
Dibromochloromethane	0.047	0.0050	0.05	0	93.4	78 - 120				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447679 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C						
LCS	Sample ID: VLCSS1-092923	Units: mg/Kg			Analysis Date: 29-Sep-2023 08:11					
Client ID:	Run ID: VOA8_447679	SeqNo: 7573679		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.050	0.0050	0.05	0	100.0	78 - 120				
Dichlorodifluoromethane	0.052	0.0050	0.05	0	105	70 - 130				
Ethyl methacrylate	0.050	0.0050	0.05	0	99.4	72 - 128				
Ethylbenzene	0.055	0.0050	0.05	0	109	70 - 123				
Iodomethane	0.10	0.010	0.1	0	104	72 - 130				
Isobutyl alcohol	0.87	0.10	1	0	86.7	60 - 136				
Methacrylonitrile	0.045	0.0050	0.05	0	90.5	69 - 131				
Methyl methacrylate	0.044	0.0050	0.05	0	88.5	73 - 122				
Methylene chloride	0.046	0.010	0.05	0	91.1	71 - 125				
Propionitrile	0.47	0.050	0.5	0	93.7	67 - 135				
Styrene	0.054	0.0050	0.05	0	109	80 - 123				
Tetrachloroethene	0.056	0.0050	0.05	0	111	70 - 130				
Toluene	0.053	0.0050	0.05	0	105	76 - 122				
trans-1,2-Dichloroethene	0.052	0.0050	0.05	0	103	75 - 128				
trans-1,3-Dichloropropene	0.043	0.0050	0.05	0	86.1	75 - 123				
trans-1,4-Dichloro-2-butene	0.046	0.0050	0.05	0	91.5	70 - 127				
Trichloroethene	0.046	0.0050	0.05	0	92.3	78 - 125				
Trichlorofluoromethane	0.054	0.0050	0.05	0	108	70 - 130				
Vinyl acetate	0.084	0.010	0.1	0	84.3	70 - 130				
Vinyl chloride	0.056	0.0050	0.05	0	111	70 - 130				
Xylenes, Total	0.16	0.015	0.15	0	110	77 - 128				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.053</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>105</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>100</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.051</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>101</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>99.1</i>	<i>81 - 118</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447679 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C						
MS	Sample ID: HS23091749-01MS	Units: mg/Kg			Analysis Date: 29-Sep-2023 12:12					
Client ID: PTS-03-SL-20230926	Run ID: VOA8_447679	SeqNo: 7574080	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.035	0.0064	0.064	0	55.0	70 - 130				S
1,1,1-Trichloroethane	0.038	0.0064	0.064	0	59.1	70 - 130				S
1,1,2,2-Tetrachloroethane	0.22	0.0064	0.064	0	342	70 - 130				S
1,1,2-Trichloroethane	0.050	0.0064	0.064	0	77.9	70 - 130				
1,1-Dichloroethane	0.054	0.0064	0.064	0	83.6	70 - 130				
1,1-Dichloroethene	0.047	0.0064	0.064	0	73.1	70 - 130				
1,2-Dibromoethane	0.039	0.0064	0.064	0	61.7	70 - 120				S
1,2-Dichlorobenzene	0.029	0.0064	0.064	0	45.9	70 - 130				S
1,2-Dichloroethane	0.053	0.0064	0.064	0	82.6	70 - 130				
1,2-Dichloropropane	0.035	0.0064	0.064	0	54.0	70 - 130				S
1,3-Dichlorobenzene	0.034	0.0064	0.064	0	53.1	70 - 130				S
1,4-Dichlorobenzene	0.032	0.0064	0.064	0	49.3	70 - 130				S
1,4-Dioxane	1.6	0.13	1.28	0	125	64 - 135				
2-Butanone	0.14	0.013	0.128	0	111	70 - 130				
2-Chloro-1,3-butadiene	0.088	0.0064	0.064	0	137	72 - 126				S
2-Hexanone	0.096	0.013	0.128	0	74.8	70 - 130				
4-Methyl-2-pentanone	0.40	0.013	0.128	0	311	70 - 128				S
Acetone	0.97	0.026	0.128	0	757	70 - 130				SE
Acetonitrile	0.51	0.064	0.64	0	79.7	70 - 130				
Acrolein	0.13	0.026	0.128	0	99.7	70 - 130				
Acrylonitrile	0.15	0.013	0.128	0	120	70 - 130				
Allyl Chloride	0.059	0.013	0.064	0	91.8	72 - 130				
Benzene	0.042	0.0064	0.064	0	65.6	70 - 130				S
Bromodichloromethane	0.034	0.0064	0.064	0	52.4	70 - 130				S
Bromoform	0.035	0.0064	0.064	0	54.0	70 - 130				S
Bromomethane	0.075	0.013	0.064	0	117	70 - 130				
Carbon disulfide	0.11	0.013	0.128	0	88.5	70 - 130				
Carbon tetrachloride	0.033	0.0064	0.064	0	51.4	70 - 130				S
Chlorobenzene	0.033	0.0064	0.064	0	51.8	70 - 130				S
Chloroethane	0.078	0.013	0.064	0	122	70 - 130				
Chloroform	0.049	0.0064	0.064	0	76.8	70 - 130				
Chloromethane	0.085	0.013	0.064	0	133	70 - 130				S
cis-1,3-Dichloropropene	0.030	0.0064	0.064	0	47.5	70 - 130				S
Dibromochloromethane	0.033	0.0064	0.064	0	52.0	70 - 130				S

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447679 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C						
MS		Sample ID: HS23091749-01MS		Units: mg/Kg		Analysis Date: 29-Sep-2023 12:12				
Client ID: PTS-03-SL-20230926		Run ID: VOA8_447679		SeqNo: 7574080		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Dibromomethane	0.051	0.0064	0.064	0	80.1	70 - 130				
Dichlorodifluoromethane	0.068	0.0064	0.064	0	106	70 - 130				
Ethyl methacrylate	0.12	0.0064	0.064	0	186	72 - 128			S	
Ethylbenzene	0.054	0.0064	0.064	0	83.9	70 - 130				
Iodomethane	0.086	0.013	0.128	0	67.4	65 - 135				
Isobutyl alcohol	12	0.13	1.28	0	920	60 - 136			SE	
Methacrylonitrile	0.073	0.0064	0.064	0	113	69 - 131				
Methyl methacrylate	0.055	0.0064	0.064	0	85.3	73 - 122				
Methylene chloride	0.064	0.013	0.064	0	99.4	70 - 130				
Propionitrile	0.89	0.064	0.64	0	139	67 - 135			S	
Styrene	0.034	0.0064	0.064	0	53.2	70 - 130			S	
Tetrachloroethene	0.041	0.0064	0.064	0	63.9	70 - 130			S	
Toluene	0.052	0.0064	0.064	0	81.5	70 - 130				
trans-1,2-Dichloroethene	0.045	0.0064	0.064	0	70.6	70 - 130				
trans-1,3-Dichloropropene	0.031	0.0064	0.064	0	49.1	70 - 130			S	
trans-1,4-Dichloro-2-butene	0.11	0.0064	0.064	0	167	70 - 130			S	
Trichloroethene	0.030	0.0064	0.064	0	47.2	70 - 130			S	
Trichlorofluoromethane	0.051	0.0064	0.064	0	79.3	70 - 130				
Vinyl acetate	0.054	0.013	0.128	0	42.5	70 - 130			S	
Vinyl chloride	0.080	0.0064	0.064	0	126	70 - 130				
Xylenes, Total	0.31	0.019	0.192	0.04622	135	70 - 130			S	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.071</i>	<i>0</i>	<i>0.064</i>	<i>0</i>	<i>110</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.053</i>	<i>0</i>	<i>0.064</i>	<i>0</i>	<i>83.3</i>	<i>70 - 130</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.071</i>	<i>0</i>	<i>0.064</i>	<i>0</i>	<i>111</i>	<i>70 - 130</i>				
<i>Surr: Toluene-d8</i>	<i>0.071</i>	<i>0</i>	<i>0.064</i>	<i>0</i>	<i>111</i>	<i>70 - 130</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447679 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C							
MSD		Sample ID: HS23091749-01MSD		Units: mg/Kg		Analysis Date: 29-Sep-2023 12:33					
Client ID: PTS-03-SL-20230926		Run ID: VOA8_447679		SeqNo: 7574081		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1,2-Tetrachloroethane	0.036	0.0062	0.0625	0	58.0	70 - 130	0.03517	2.97	30	S	
1,1,1-Trichloroethane	0.034	0.0062	0.0625	0	55.1	70 - 130	0.03780	9.32	30	S	
1,1,2,2-Tetrachloroethane	0.18	0.0062	0.0625	0	295	70 - 130	0.2188	17	30	S	
1,1,2-Trichloroethane	0.046	0.0062	0.0625	0	73.3	70 - 130	0.04988	8.48	30		
1,1-Dichloroethane	0.050	0.0062	0.0625	0	80.4	70 - 130	0.05351	6.22	30		
1,1-Dichloroethene	0.046	0.0062	0.0625	0	73.5	70 - 130	0.04679	1.79	30		
1,2-Dibromoethane	0.041	0.0062	0.0625	0	65.0	70 - 120	0.03947	2.87	30	S	
1,2-Dichlorobenzene	0.030	0.0062	0.0625	0	48.7	70 - 130	0.02940	3.51	30	S	
1,2-Dichloroethane	0.053	0.0062	0.0625	0	85.3	70 - 130	0.05285	0.89	30		
1,2-Dichloropropane	0.032	0.0062	0.0625	0	50.8	70 - 130	0.03459	8.63	30	S	
1,3-Dichlorobenzene	0.033	0.0062	0.0625	0	53.3	70 - 130	0.03400	2.01	30	S	
1,4-Dichlorobenzene	0.031	0.0062	0.0625	0	49.6	70 - 130	0.03155	1.77	30	S	
1,4-Dioxane	1.7	0.12	1.25	0	132	64 - 135	1.600	3.42	30		
2-Butanone	0.13	0.012	0.125	0	102	70 - 130	0.1420	11	30		
2-Chloro-1,3-butadiene	0.076	0.0062	0.0625	0	122	72 - 126	0.08763	14	30		
2-Hexanone	0.11	0.012	0.125	0	85.5	70 - 130	0.09579	10.9	30		
4-Methyl-2-pentanone	0.27	0.012	0.125	0	215	70 - 128	0.3978	38.6	30	SR	
Acetone	0.94	0.025	0.125	0	748	70 - 130	0.9685	3.5	30	SE	
Acetonitrile	0.46	0.062	0.625	0	72.9	70 - 130	0.5103	11.3	30		
Acrolein	0.12	0.025	0.125	0	95.6	70 - 130	0.1277	6.61	30		
Acrylonitrile	0.14	0.012	0.125	0	109	70 - 130	0.1531	11.9	30		
Allyl Chloride	0.055	0.012	0.0625	0	87.3	72 - 130	0.05872	7.34	30		
Benzene	0.042	0.0062	0.0625	0	67.5	70 - 130	0.04201	0.434	30	S	
Bromodichloromethane	0.033	0.0062	0.0625	0	52.3	70 - 130	0.03351	2.57	30	S	
Bromoform	0.036	0.0062	0.0625	0	57.4	70 - 130	0.03458	3.65	30	S	
Bromomethane	0.065	0.012	0.0625	0	105	70 - 130	0.07496	13.6	30		
Carbon disulfide	0.10	0.012	0.125	0	82.3	70 - 130	0.1133	9.69	30		
Carbon tetrachloride	0.031	0.0062	0.0625	0	49.3	70 - 130	0.03292	6.68	30	S	
Chlorobenzene	0.035	0.0062	0.0625	0	56.4	70 - 130	0.03313	6.26	30	S	
Chloroethane	0.069	0.012	0.0625	0	111	70 - 130	0.07810	12	30		
Chloroform	0.046	0.0062	0.0625	0	74.1	70 - 130	0.04916	5.94	30		
Chloromethane	0.078	0.012	0.0625	0	125	70 - 130	0.08540	8.5	30		
cis-1,3-Dichloropropene	0.030	0.0062	0.0625	0	48.7	70 - 130	0.03042	0.116	30	S	
Dibromochloromethane	0.034	0.0062	0.0625	0	54.8	70 - 130	0.03326	2.89	30	S	

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447679 (0)		Instrument: VOA8		Method: VOLATILES BY SW8260C						
MSD	Sample ID: HS23091749-01MSD	Units: mg/Kg			Analysis Date: 29-Sep-2023 12:33					
Client ID: PTS-03-SL-20230926	Run ID: VOA8_447679	SeqNo: 7574081	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.050	0.0062	0.0625	0	79.3	70 - 130	0.05125	3.38	30	
Dichlorodifluoromethane	0.067	0.0062	0.0625	0	107	70 - 130	0.06773	1.31	30	
Ethyl methacrylate	0.10	0.0062	0.0625	0	166	72 - 128	0.1189	13.9	30	S
Ethylbenzene	0.046	0.0062	0.0625	0	74.0	70 - 130	0.05370	14.9	30	
Iodomethane	0.092	0.012	0.125	0	73.8	65 - 135	0.08629	6.63	30	
Isobutyl alcohol	5.3	0.12	1.25	0	420	60 - 136	11.77	76.6	30	SRE
Methacrylonitrile	0.047	0.0062	0.0625	0	74.4	69 - 131	0.07258	43.8	30	R
Methyl methacrylate	0.046	0.0062	0.0625	0	73.0	73 - 122	0.05457	17.8	30	
Methylene chloride	0.058	0.012	0.0625	0	93.1	70 - 130	0.06360	8.93	30	
Propionitrile	0.80	0.062	0.625	0	128	67 - 135	0.8927	10.8	30	
Styrene	0.033	0.0062	0.0625	0	53.3	70 - 130	0.03408	2.25	30	S
Tetrachloroethene	0.039	0.0062	0.0625	0	62.4	70 - 130	0.04087	4.61	30	S
Toluene	0.048	0.0062	0.0625	0	77.3	70 - 130	0.05215	7.63	30	
trans-1,2-Dichloroethene	0.044	0.0062	0.0625	0	69.6	70 - 130	0.04521	3.78	30	S
trans-1,3-Dichloropropene	0.032	0.0062	0.0625	0	50.5	70 - 130	0.03142	0.41	30	S
trans-1,4-Dichloro-2-butene	0.073	0.0062	0.0625	0	116	70 - 130	0.1069	38.2	30	R
Trichloroethene	0.031	0.0062	0.0625	0	48.9	70 - 130	0.03023	1.01	30	S
Trichlorofluoromethane	0.046	0.0062	0.0625	0	74.1	70 - 130	0.05076	9.21	30	
Vinyl acetate	0.050	0.012	0.125	0	39.8	70 - 130	0.05439	8.88	30	S
Vinyl chloride	0.074	0.0062	0.0625	0	119	70 - 130	0.08037	7.75	30	
Xylenes, Total	0.20	0.019	0.1875	0.04622	82.3	70 - 130	0.3057	41.6	30	R
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.068</i>	<i>0</i>	<i>0.0625</i>	<i>0</i>	<i>109</i>	<i>70 - 126</i>	<i>0.07054</i>	<i>3.71</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.049</i>	<i>0</i>	<i>0.0625</i>	<i>0</i>	<i>78.4</i>	<i>70 - 130</i>	<i>0.05332</i>	<i>8.38</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>0.065</i>	<i>0</i>	<i>0.0625</i>	<i>0</i>	<i>105</i>	<i>70 - 130</i>	<i>0.07085</i>	<i>8.12</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>0.070</i>	<i>0</i>	<i>0.0625</i>	<i>0</i>	<i>112</i>	<i>70 - 130</i>	<i>0.07101</i>	<i>1.32</i>	<i>30</i>	

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447941 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MBLK	Sample ID: VBLKW-231002	Units: mg/L			Analysis Date: 02-Oct-2023 12:54					
Client ID:	Run ID: VOA9_447941	SeqNo: 7579837	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	U	0.0050								
1,1,1-Trichloroethane	U	0.0050								
1,1,2,2-Tetrachloroethane	U	0.0050								
1,1,2-Trichloroethane	U	0.0050								
1,1-Dichloroethane	U	0.0050								
1,1-Dichloroethene	U	0.0050								
1,2-Dibromoethane	U	0.0050								
1,2-Dichlorobenzene	U	0.0050								
1,2-Dichloroethane	U	0.0050								
1,2-Dichloropropane	U	0.0050								
1,3-Dichlorobenzene	U	0.0050								
1,4-Dichlorobenzene	U	0.0050								
1,4-Dioxane	U	0.010								
2-Butanone	U	0.010								
2-Chloro-1,3-butadiene	U	0.0050								
2-Hexanone	U	0.010								
4-Methyl-2-pentanone	U	0.010								
Acetone	U	0.010								
Acetonitrile	U	0.050								
Acrolein	U	0.020								
Acrylonitrile	U	0.010								
Allyl Chloride	U	0.010								
Benzene	U	0.0050								
Bromodichloromethane	U	0.0050								
Bromoform	U	0.0050								
Bromomethane	U	0.0050								
Carbon disulfide	U	0.010								
Carbon tetrachloride	U	0.0050								
Chlorobenzene	U	0.0050								
Chloroethane	U	0.0050								
Chloroform	U	0.0050								
Chloromethane	U	0.0050								
cis-1,3-Dichloropropene	U	0.0050								
Dibromochloromethane	U	0.0050								

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447941 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MBLK	Sample ID: VBLKW-231002	Units: mg/L			Analysis Date: 02-Oct-2023 12:54					
Client ID:	Run ID: VOA9_447941	SeqNo: 7579837		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	U	0.0050								
Dichlorodifluoromethane	U	0.0050								
Ethyl methacrylate	U	0.0050								
Ethylbenzene	U	0.0050								
Iodomethane	U	0.010								
Isobutyl alcohol	U	0.10								
Methacrylonitrile	U	0.0050								
Methyl methacrylate	U	0.0050								
Methylene chloride	U	0.010								
Propionitrile	U	0.050								
Styrene	U	0.0050								
Tetrachloroethene	U	0.0050								
Toluene	U	0.0050								
trans-1,2-Dichloroethene	U	0.0050								
trans-1,3-Dichloropropene	U	0.0050								
trans-1,4-Dichloro-2-butene	U	0.0050								
Trichloroethene	U	0.0050								
Trichlorofluoromethane	U	0.0050								
Vinyl acetate	U	0.010								
Vinyl chloride	U	0.0020								
Xylenes, Total	U	0.015								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>89.3</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>89.7</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.044</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>87.4</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.055</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>111</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447941 (0)		Instrument: VOA9			Method: VOLATILES - SW8260C					
LCS	Sample ID: VLCSW-231002	Units: mg/L			Analysis Date: 02-Oct-2023 12:10					
Client ID:	Run ID: VOA9_447941	SeqNo: 7579836		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.018	0.0050	0.02	0	90.3	77 - 118				
1,1,1-Trichloroethane	0.017	0.0050	0.02	0	87.3	70 - 130				
1,1,2,2-Tetrachloroethane	0.021	0.0050	0.02	0	103	70 - 120				
1,1,2-Trichloroethane	0.020	0.0050	0.02	0	101	77 - 113				
1,1-Dichloroethane	0.019	0.0050	0.02	0	94.8	71 - 122				
1,1-Dichloroethene	0.018	0.0050	0.02	0	91.1	70 - 130				
1,2-Dibromoethane	0.019	0.0050	0.02	0	94.7	76 - 123				
1,2-Dichlorobenzene	0.019	0.0050	0.02	0	97.2	77 - 113				
1,2-Dichloroethane	0.020	0.0050	0.02	0	99.4	70 - 124				
1,2-Dichloropropane	0.019	0.0050	0.02	0	92.6	72 - 119				
1,3-Dichlorobenzene	0.020	0.0050	0.02	0	99.8	78 - 118				
1,4-Dichlorobenzene	0.019	0.0050	0.02	0	97.0	79 - 113				
1,4-Dioxane	0.35	0.010	0.4	0	88.1	60 - 154				
2-Butanone	0.035	0.010	0.04	0	86.7	70 - 130				
2-Chloro-1,3-butadiene	0.017	0.0050	0.02	0	84.6	70 - 130				
2-Hexanone	0.038	0.010	0.04	0	96.0	70 - 130				
4-Methyl-2-pentanone	0.036	0.010	0.04	0	91.1	70 - 130				
Acetone	0.038	0.010	0.04	0	94.7	70 - 130				
Acetonitrile	0.18	0.050	0.2	0	89.2	70 - 130				
Acrolein	0.037	0.020	0.04	0	93.0	70 - 130				
Acrylonitrile	0.038	0.010	0.04	0	94.9	70 - 130				
Allyl Chloride	0.017	0.010	0.02	0	86.4	70 - 130				
Benzene	0.019	0.0050	0.02	0	93.2	74 - 120				
Bromodichloromethane	0.018	0.0050	0.02	0	89.3	74 - 122				
Bromoform	0.016	0.0050	0.02	0	81.0	73 - 128				
Bromomethane	0.021	0.0050	0.02	0	105	70 - 130				
Carbon disulfide	0.037	0.010	0.04	0	92.4	70 - 130				
Carbon tetrachloride	0.018	0.0050	0.02	0	89.0	71 - 125				
Chlorobenzene	0.019	0.0050	0.02	0	96.2	76 - 113				
Chloroethane	0.019	0.0050	0.02	0	93.7	70 - 130				
Chloroform	0.019	0.0050	0.02	0	96.1	71 - 121				
Chloromethane	0.018	0.0050	0.02	0	88.9	70 - 129				
cis-1,3-Dichloropropene	0.018	0.0050	0.02	0	90.1	73 - 127				
Dibromochloromethane	0.018	0.0050	0.02	0	88.7	77 - 122				

ALS Houston, US

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Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447941 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
LCS	Sample ID: VLCSW-231002	Units: mg/L			Analysis Date: 02-Oct-2023 12:10					
Client ID:	Run ID: VOA9_447941	SeqNo: 7579836		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.019	0.0050	0.02	0	94.6	78 - 121				
Dichlorodifluoromethane	0.020	0.0050	0.02	0	99.7	70 - 130				
Ethyl methacrylate	0.017	0.0050	0.02	0	86.9	65 - 135				
Ethylbenzene	0.020	0.0050	0.02	0	98.7	77 - 117				
Iodomethane	0.043	0.010	0.04	0	107	70 - 130				
Isobutyl alcohol	0.34	0.10	0.4	0	85.0	70 - 130				
Methacrylonitrile	0.015	0.0050	0.02	0	76.0	70 - 130				
Methyl methacrylate	0.016	0.0050	0.02	0	81.5	73 - 139				
Methylene chloride	0.021	0.010	0.02	0	103	70 - 127				
Propionitrile	0.17	0.050	0.2	0	87.3	70 - 130				
Styrene	0.020	0.0050	0.02	0	98.1	72 - 126				
Tetrachloroethene	0.020	0.0050	0.02	0	102	76 - 119				
Toluene	0.020	0.0050	0.02	0	99.5	77 - 118				
trans-1,2-Dichloroethene	0.018	0.0050	0.02	0	91.8	72 - 127				
trans-1,3-Dichloropropene	0.018	0.0050	0.02	0	87.5	77 - 119				
trans-1,4-Dichloro-2-butene	0.018	0.0050	0.02	0	89.9	70 - 126				
Trichloroethene	0.020	0.0050	0.02	0	97.7	77 - 121				
Trichlorofluoromethane	0.018	0.0050	0.02	0	90.9	70 - 130				
Vinyl acetate	0.038	0.010	0.04	0	96.2	70 - 130				
Vinyl chloride	0.017	0.0020	0.02	0	84.8	70 - 130				
Xylenes, Total	0.053	0.015	0.06	0	87.5	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>97.6</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.048</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>95.9</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>98.4</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.053</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>106</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447941 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MS	Sample ID: HS23091753-01MS	Units: mg/L			Analysis Date: 02-Oct-2023 17:23					
Client ID:	Run ID: VOA9_447941	SeqNo: 7579839	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.018	0.0050	0.02	0	88.0	70 - 120				
1,1,1-Trichloroethane	0.017	0.0050	0.02	0	85.2	70 - 130				
1,1,2,2-Tetrachloroethane	0.022	0.0050	0.02	0	111	70 - 123				
1,1,2-Trichloroethane	0.020	0.0050	0.02	0	102	70 - 117				
1,1-Dichloroethane	0.018	0.0050	0.02	0	91.8	70 - 127				
1,1-Dichloroethene	0.016	0.0050	0.02	0	82.2	70 - 130				
1,2-Dibromoethane	0.020	0.0050	0.02	0	97.5	70 - 124				
1,2-Dichlorobenzene	0.019	0.0050	0.02	0	96.3	70 - 115				
1,2-Dichloroethane	0.020	0.0050	0.02	0	99.2	70 - 127				
1,2-Dichloropropane	0.018	0.0050	0.02	0	90.8	70 - 122				
1,3-Dichlorobenzene	0.020	0.0050	0.02	0	99.0	70 - 119				
1,4-Dichlorobenzene	0.018	0.0050	0.02	0	90.2	70 - 114				
1,4-Dioxane	0.32	0.010	0.4	0	78.8	60 - 154				
2-Butanone	0.038	0.010	0.04	0	94.9	70 - 130				
2-Chloro-1,3-butadiene	0.016	0.0050	0.02	0	82.3	70 - 130				
2-Hexanone	0.049	0.010	0.04	0	123	70 - 130				
4-Methyl-2-pentanone	0.044	0.010	0.04	0	111	70 - 130				
Acetone	0.052	0.010	0.04	0	129	70 - 130				
Acetonitrile	0.19	0.050	0.2	0	96.8	70 - 130				
Acrolein	0.045	0.020	0.04	0	112	70 - 130				
Acrylonitrile	0.038	0.010	0.04	0	95.1	70 - 130				
Allyl Chloride	0.019	0.010	0.02	0	93.0	70 - 130				
Benzene	0.019	0.0050	0.02	0	95.0	70 - 127				
Bromodichloromethane	0.017	0.0050	0.02	0	83.0	70 - 124				
Bromoform	0.016	0.0050	0.02	0	80.9	70 - 129				
Bromomethane	0.017	0.0050	0.02	0	86.4	70 - 130				
Carbon disulfide	0.030	0.010	0.04	0	75.3	70 - 130				
Carbon tetrachloride	0.019	0.0050	0.02	0	95.1	70 - 130				
Chlorobenzene	0.019	0.0050	0.02	0	96.1	70 - 114				
Chloroethane	0.014	0.0050	0.02	0	71.4	70 - 130				
Chloroform	0.018	0.0050	0.02	0	87.8	70 - 125				
Chloromethane	0.011	0.0050	0.02	0	54.4	70 - 130				S
cis-1,3-Dichloropropene	0.017	0.0050	0.02	0	83.0	70 - 125				
Dibromochloromethane	0.017	0.0050	0.02	0	86.0	70 - 124				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447941 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MS	Sample ID: HS23091753-01MS	Units: mg/L			Analysis Date: 02-Oct-2023 17:23					
Client ID:	Run ID: VOA9_447941	SeqNo: 7579839	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.019	0.0050	0.02	0	97.4	70 - 124				
Dichlorodifluoromethane	0.0041	0.0050	0.02	0	20.7	70 - 130				JS
Ethyl methacrylate	0.021	0.0050	0.02	0	106	70 - 130				
Ethylbenzene	0.020	0.0050	0.02	0	101	70 - 124				
Iodomethane	0.029	0.010	0.04	0	71.8	70 - 130				
Isobutyl alcohol	0.34	0.10	0.4	0	85.3	70 - 130				
Methacrylonitrile	0.019	0.0050	0.02	0	92.6	70 - 130				
Methyl methacrylate	0.016	0.0050	0.02	0	81.9	73 - 139				
Methylene chloride	0.018	0.010	0.02	0	91.2	70 - 128				
Propionitrile	0.18	0.050	0.4	0	44.1	70 - 130				S
Styrene	0.019	0.0050	0.02	0	94.8	70 - 130				
Tetrachloroethene	0.022	0.0050	0.02	0	109	70 - 130				
Toluene	0.020	0.0050	0.02	0	100	70 - 123				
trans-1,2-Dichloroethene	0.018	0.0050	0.02	0	90.1	70 - 130				
trans-1,3-Dichloropropene	0.017	0.0050	0.02	0	84.6	70 - 121				
trans-1,4-Dichloro-2-butene	0.021	0.0050	0.02	0	103	70 - 130				
Trichloroethene	0.019	0.0050	0.02	0	96.0	70 - 129				
Trichlorofluoromethane	0.016	0.0050	0.02	0	78.0	70 - 130				
Vinyl acetate	0.038	0.010	0.04	0	95.6	70 - 130				
Vinyl chloride	0.0087	0.0020	0.02	0	43.3	70 - 130				S
Xylenes, Total	0.054	0.015	0.06	0	89.3	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.046</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>92.8</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.046</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>91.6</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.046</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>91.8</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>0.054</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>107</i>	<i>82 - 127</i>				

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447941 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS23091753-01MSD	Units: mg/L			Analysis Date: 02-Oct-2023 17:45					
Client ID:	Run ID: VOA9_447941	SeqNo: 7579840	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.018	0.0050	0.02	0	91.6	70 - 120	0.01760	4.04	20	
1,1,1-Trichloroethane	0.017	0.0050	0.02	0	86.9	70 - 130	0.01704	1.97	20	
1,1,2,2-Tetrachloroethane	0.023	0.0050	0.02	0	116	70 - 123	0.02212	4.45	20	
1,1,2-Trichloroethane	0.022	0.0050	0.02	0	110	70 - 117	0.02039	7.34	20	
1,1-Dichloroethane	0.019	0.0050	0.02	0	93.3	70 - 127	0.01836	1.6	20	
1,1-Dichloroethene	0.017	0.0050	0.02	0	84.0	70 - 130	0.01643	2.19	20	
1,2-Dibromoethane	0.021	0.0050	0.02	0	105	70 - 124	0.01950	7.71	20	
1,2-Dichlorobenzene	0.020	0.0050	0.02	0	98.0	70 - 115	0.01927	1.65	20	
1,2-Dichloroethane	0.019	0.0050	0.02	0	93.7	70 - 127	0.01985	5.74	20	
1,2-Dichloropropane	0.018	0.0050	0.02	0	89.5	70 - 122	0.01816	1.42	20	
1,3-Dichlorobenzene	0.020	0.0050	0.02	0	99.6	70 - 119	0.01980	0.618	20	
1,4-Dichlorobenzene	0.019	0.0050	0.02	0	95.6	70 - 114	0.01803	5.89	20	
1,4-Dioxane	0.32	0.010	0.4	0	80.5	60 - 154	0.3154	2.07	20	
2-Butanone	0.041	0.010	0.04	0	102	70 - 130	0.03795	7.16	20	
2-Chloro-1,3-butadiene	0.016	0.0050	0.02	0	80.7	70 - 130	0.01646	1.96	20	
2-Hexanone	0.054	0.010	0.04	0	136	70 - 130	0.04937	9.42	20	S
4-Methyl-2-pentanone	0.050	0.010	0.04	0	126	70 - 130	0.04428	13	20	
Acetone	0.048	0.010	0.04	0	120	70 - 130	0.05158	7.38	20	
Acetonitrile	0.19	0.050	0.2	0	96.3	70 - 130	0.1936	0.549	20	
Acrolein	0.044	0.020	0.04	0	110	70 - 130	0.04491	1.89	20	
Acrylonitrile	0.040	0.010	0.04	0	101	70 - 130	0.03804	6.07	20	
Allyl Chloride	0.019	0.010	0.02	0	95.1	70 - 130	0.01859	2.24	20	
Benzene	0.019	0.0050	0.02	0	94.1	70 - 127	0.01899	0.876	20	
Bromodichloromethane	0.017	0.0050	0.02	0	84.0	70 - 124	0.01659	1.2	20	
Bromoform	0.016	0.0050	0.02	0	82.1	70 - 129	0.01619	1.48	20	
Bromomethane	0.017	0.0050	0.02	0	86.9	70 - 130	0.01728	0.587	20	
Carbon disulfide	0.031	0.010	0.04	0	77.7	70 - 130	0.03014	3.12	20	
Carbon tetrachloride	0.019	0.0050	0.02	0	94.6	70 - 130	0.01902	0.508	20	
Chlorobenzene	0.020	0.0050	0.02	0	102	70 - 114	0.01922	5.79	20	
Chloroethane	0.015	0.0050	0.02	0	73.9	70 - 130	0.01427	3.51	20	
Chloroform	0.018	0.0050	0.02	0	89.4	70 - 125	0.01756	1.79	20	
Chloromethane	0.011	0.0050	0.02	0	54.6	70 - 130	0.01088	0.432	20	S
cis-1,3-Dichloropropene	0.016	0.0050	0.02	0	81.2	70 - 125	0.01660	2.17	20	
Dibromochloromethane	0.018	0.0050	0.02	0	91.8	70 - 124	0.01721	6.5	20	

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R447941 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS23091753-01MSD	Units: mg/L			Analysis Date: 02-Oct-2023 17:45					
Client ID:	Run ID: VOA9_447941	SeqNo: 7579840		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.017	0.0050	0.02	0	87.2	70 - 124	0.01948	11.1	20	
Dichlorodifluoromethane	0.0044	0.0050	0.02	0	21.8	70 - 130	0.004135	0	20	JS
Ethyl methacrylate	0.020	0.0050	0.02	0	100	70 - 130	0.02121	5.84	20	
Ethylbenzene	0.021	0.0050	0.02	0	107	70 - 124	0.02026	5.15	20	
Iodomethane	0.032	0.010	0.04	0	79.9	70 - 130	0.02872	10.7	20	
Isobutyl alcohol	0.35	0.10	0.4	0	87.8	70 - 130	0.3413	2.82	20	
Methacrylonitrile	0.020	0.0050	0.02	0	99.1	70 - 130	0.01852	6.83	20	
Methyl methacrylate	0.017	0.0050	0.02	0	84.1	73 - 139	0.01638	2.6	20	
Methylene chloride	0.018	0.010	0.02	0	91.5	70 - 128	0.01824	0.347	20	
Propionitrile	0.18	0.050	0.4	0	45.1	70 - 130	0.1766	2.17	20	S
Styrene	0.019	0.0050	0.02	0	97.0	70 - 130	0.01896	2.3	20	
Tetrachloroethene	0.023	0.0050	0.02	0	114	70 - 130	0.02171	5.12	20	
Toluene	0.021	0.0050	0.02	0	106	70 - 123	0.02007	5.25	20	
trans-1,2-Dichloroethene	0.018	0.0050	0.02	0	91.0	70 - 130	0.01801	1.03	20	
trans-1,3-Dichloropropene	0.017	0.0050	0.02	0	84.6	70 - 121	0.01691	0.0535	20	
trans-1,4-Dichloro-2-butene	0.021	0.0050	0.02	0	105	70 - 130	0.02066	1.95	20	
Trichloroethene	0.019	0.0050	0.02	0	93.7	70 - 129	0.01919	2.36	20	
Trichlorofluoromethane	0.016	0.0050	0.02	0	80.4	70 - 130	0.01560	3.03	20	
Vinyl acetate	0.039	0.010	0.04	0	98.4	70 - 130	0.03824	2.89	20	
Vinyl chloride	0.0092	0.0020	0.02	0	46.1	70 - 130	0.008663	6.24	20	S
Xylenes, Total	0.056	0.015	0.06	0	93.1	70 - 130	0.05361	4.09	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.048</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>95.3</i>	<i>70 - 126</i>	<i>0.04639</i>	<i>2.73</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>90.6</i>	<i>82 - 124</i>	<i>0.04582</i>	<i>1.14</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>93.6</i>	<i>77 - 123</i>	<i>0.04591</i>	<i>1.98</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>0.056</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>112</i>	<i>82 - 127</i>	<i>0.05360</i>	<i>3.99</i>	<i>20</i>	

The following samples were analyzed in this batch: HS23091749-02

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201276 (0)	Instrument: WetChem_HS	Method: LEACHED SULFIDE
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MBLK	Sample ID: MBLK-201276	Units: mg/Kg	Analysis Date: 02-Oct-2023 15:06							
Client ID:	Run ID: WetChem_HS_447919	SeqNo: 7579263	PrepDate: 02-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide U 5.00

LCS	Sample ID: LCS-201276	Units: mg/Kg	Analysis Date: 02-Oct-2023 15:06							
Client ID:	Run ID: WetChem_HS_447919	SeqNo: 7579261	PrepDate: 02-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 109.4 5.00 125 0 87.5 70 - 130

LCSD	Sample ID: LCSD-201276	Units: mg/Kg	Analysis Date: 02-Oct-2023 15:06							
Client ID:	Run ID: WetChem_HS_447919	SeqNo: 7579262	PrepDate: 02-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 110.4 5.00 125 0 88.3 70 - 130 109.4 0.91 30

MS	Sample ID: HS23091749-01MS	Units: mg/Kg	Analysis Date: 02-Oct-2023 15:06							
Client ID: PTS-03-SL-20230926	Run ID: WetChem_HS_447919	SeqNo: 7579260	PrepDate: 02-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 109.3 5.00 124.9 -10.6 96.0 70 - 130

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201521 (0)	Instrument: ICS-Integrion	Method: ANIONS BY SW9056A
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MBLK	Sample ID: MBLK-201521	Units: mg/Kg	Analysis Date: 07-Oct-2023 11:07							
Client ID:	Run ID: ICS-Integrion_448448	SeqNo: 7593158	PrepDate: 06-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Fluoride U 1.00

LCS	Sample ID: LCS-201521	Units: mg/Kg	Analysis Date: 07-Oct-2023 11:18							
Client ID:	Run ID: ICS-Integrion_448448	SeqNo: 7593159	PrepDate: 06-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Fluoride 41.02 1.00 40 0 103 80 - 120

MS	Sample ID: HS23091749-01MS	Units: mg/Kg	Analysis Date: 07-Oct-2023 11:36							
Client ID: PTS-03-SL-20230926	Run ID: ICS-Integrion_448448	SeqNo: 7593161	PrepDate: 06-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Fluoride 10.14 0.944 18.88 2.103 42.6 80 - 120 S

MSD	Sample ID: HS23091749-01MSD	Units: mg/Kg	Analysis Date: 07-Oct-2023 11:41							
Client ID: PTS-03-SL-20230926	Run ID: ICS-Integrion_448448	SeqNo: 7593162	PrepDate: 06-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Fluoride 10.07 0.958 19.17 2.103 41.5 80 - 120 10.14 0.73 20 S

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: 201701 (0)	Instrument: UV-2450	Method: CYANIDE BY SW-846 9014
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MBLK	Sample ID: MBLK-201701	Units: mg/Kg	Analysis Date: 10-Oct-2023 10:39							
Client ID:	Run ID: UV-2450_448926	SeqNo: 7604502	PrepDate: 10-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide U 2.00

LCS	Sample ID: LCS-201701	Units: mg/Kg	Analysis Date: 10-Oct-2023 10:39							
Client ID:	Run ID: UV-2450_448926	SeqNo: 7604501	PrepDate: 10-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 9.6 2.00 10 0 96.0 80 - 120

MS	Sample ID: HS23091749-01MS	Units: mg/Kg	Analysis Date: 10-Oct-2023 10:39							
Client ID: PTS-03-SL-20230926	Run ID: UV-2450_448926	SeqNo: 7604499	PrepDate: 10-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 9 1.90 9.524 0.1961 92.4 75 - 125

MSD	Sample ID: HS23091749-01MSD	Units: mg/Kg	Analysis Date: 10-Oct-2023 10:39							
Client ID: PTS-03-SL-20230926	Run ID: UV-2450_448926	SeqNo: 7604500	PrepDate: 10-Oct-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 8.932 1.94 9.709 0.1961 90.0 75 - 125 9 0.758 30

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R448546 (0) **Instrument:** WetChem_HS **Method:** PH SOIL BY SW9045D

DUP Sample ID: **HS23091749-01DUP** Units: **pH Units** Analysis Date: **09-Oct-2023 15:07**
Client ID: **PTS-03-SL-20230926** **Run ID:** **WetChem_HS_448546** **SeqNo:** **7595182** **PrepDate:** **DF:** **1**
Analyte **Result** **PQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%RPD** **RPD Limit** **Qual**

pH	7.34	0.100					7.08	3.61	10
Temp Deg C @pH	20.2	0					19.9	1.5	10

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R448625 (0)		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS23091749-01DUP	Units: °F		Analysis Date: 10-Oct-2023 11:00					
Client ID: PTS-03-SL-20230926	Run ID: WetChem_HS_448625	SeqNo: 7597473	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Flash Point	>212	50.0					0	0	30
-------------	------	------	--	--	--	--	---	---	----

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R448768 (0)	Instrument: WetChem_HS	Method: REACTIVE SULFIDE
--------------------------------	-------------------------------	---------------------------------

MBLK	Sample ID: MBLK-R448768	Units: mg/Kg	Analysis Date: 11-Oct-2023 14:30							
Client ID:	Run ID: WetChem_HS_448768	SeqNo: 7600880	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Sulfide U 100

LCS	Sample ID: LCS-R448768	Units: mg/Kg	Analysis Date: 11-Oct-2023 14:30							
Client ID:	Run ID: WetChem_HS_448768	SeqNo: 7600879	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Sulfide 68 100 100 0 68.0 20 - 120 J

MS	Sample ID: HS23091749-01MS	Units: mg/Kg	Analysis Date: 11-Oct-2023 14:30							
Client ID: PTS-03-SL-20230926	Run ID: WetChem_HS_448768	SeqNo: 7600881	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Sulfide 64 100 100 0 64.0 20 - 120 J

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R448771 (0)	Instrument: UV-2450	Method: REACTIVE CYANIDE
--------------------------------	----------------------------	---------------------------------

MBLK	Sample ID: MBLK-R448771	Units: mg/Kg	Analysis Date: 11-Oct-2023 14:39							
Client ID:	Run ID: UV-2450_448771	SeqNo: 7600907	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Cyanide U 100

LCS	Sample ID: LCS-R448771	Units: mg/Kg	Analysis Date: 11-Oct-2023 14:39							
Client ID:	Run ID: UV-2450_448771	SeqNo: 7600906	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Cyanide 0.69 100 10 0 6.90 5 - 100 J

MS	Sample ID: HS23091749-01MS	Units: mg/Kg	Analysis Date: 11-Oct-2023 14:39							
Client ID: PTS-03-SL-20230926	Run ID: UV-2450_448771	SeqNo: 7600908	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Reactive Cyanide 0.64 100 10 0 6.40 5 - 100 J

The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

QC BATCH REPORT

Batch ID: R448867 (0) **Instrument:** Balance1 **Method:** MOISTURE - ASTM D2216

DUP	Sample ID: HS23091749-01DUP	Units: wt%	Analysis Date: 11-Oct-2023 08:56							
Client ID: PTS-03-SL-20230926	Run ID: Balance1_448867	SeqNo: 7603402	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Percent Moisture	43.7	0.0100					44.3	1.36	20
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The following samples were analyzed in this batch: HS23091749-01

ALS Houston, US

Date: 30-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23091749

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected
mg/L	Milligrams per Liter

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 30-Nov-23

Sample Receipt Checklist

Work Order ID: HS23091749

Date/Time Received: 28-Sep-2023 09:15

Client Name: ERMSW-HOU

Received by: Corey Grandits

Completed By: /S/ Corey Grandits 28-Sep-2023 13:13 Reviewed by: _____
 eSignature Date/Time eSignature Date/Time

Matrices: **WS** Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:305065
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

0.6UC/0.5C	IR31
------------	------

Cooler(s)/Kit(s):

50765

Date/Time sample(s) sent to storage:

9/28/23

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

--

Login Notes:

Sludge received 30 containers, COC indicates 33.
--

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

--

Corrective Action:

--



Cincinnati, OH
+1 513 733 3333
Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 221 1111
Holland, MI
+1 616 399 6070

Electronic Filing: Received, Clerk's Office 04/28/2025

HS23091749

1, WV

Page 12 of 23

Environmental Resources Mgmt.
Preliminary Joliet Delisting

COC ID: 305065



ALS Project Manager:

Customer Information		Project Information			
Purchase Order	0647752	Project Name	Preliminary Joliet Delisting	A	1311_8260_W (TCLP VOA)/1311_8270_W (TCLP SVOA)
Work Order		Project Number		B	1311_METALS_HS (TCLP Metals 12+Hg) (3 diff pHs)
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.	C	1311_8081_Pest (TCLP Pest)/1311_8151 (TCLP Herbs)
Send Report To	Cecilia Anderson	Invoice Attn	Accounts Payable	D	8270_S (SVOA 8270 Special list)/8081_S (Pest 8081)
Address	CityCentre Four	Address	CityCentre Four	E	8260_S (VOA 8260 Special list)
	840 W. Sam Houston Pkwy., Suite 6		840 W. Sam Houston Pkwy., Suite 6	F	ICP_S_Low (16 metals)/HG_S_Low
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G	9056_S (F)/Cn_TS (Cyanide)/Moisture
Phone	(281) 600-1000	Phone	(281) 600-1000	H	Water Leached Sulfide (Sulfide)
Fax	(281) 600-1001	Fax	(281) 600-1001	I	SUB_DIOXINS/FURANS (Diox/Furans ALS High Res Lab)
e-Mail Address	Cecilia.Anderson@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J	SUB_Herbicides (1,4,5-T (Silvex) 8151 ALS Kelso)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PTS-03-SL-20230926	9/26/23	935	S	Y/N	11	X	X	X	X	X	X	X	X	X	X	
2	MS-03-SL-20230926	9/26/23	940	S	Y/N	11	X	X	X	X	X	X	X	X	X	X	
3	MSD-03-SL-20230926	9/26/23	945	S	Y/N	11	X	X	X	X	X	X	X	X	X	X	
4	TB-03-SL-20230926	9/26/23	-	W	Y	2					X						
5																	
6																	
7																	
8																	
9																	
10																	


Sampler(s) Please Print & Sign Heidi Mitchell / <i>Heidi Mitchell</i>		Shipment Method Fed Ex		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>Heidi Mitchell</i>	Date: 9/26/23	Time: 11:10	Received by: <i>[Signature]</i>	Date: 9/26/23 11:10 AM				Notes: ERM Preliminary Joliet Delisting	
Relinquished by: <i>[Signature]</i>	Date: 9/26/23	Time: 11:10 AM	Received by (Laboratory): <i>[Signature]</i>	Date: 9-28-23 09:15				Cooler ID 90765	Cooler Temp. 0.6
Logged by (Laboratory): <i>[Signature]</i>	Date:	Time:	Checked by (Laboratory): <i>[Signature]</i>					QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> Level III Std OC/Raw Date <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SWMB/CPLP <input type="checkbox"/> Other	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035									

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	Electronic Filing: Received 50765	CUSTOMER SEAL Date: 9/28/23 Time: 11:16 Name: Heidi Mulhall Company: ExxonMobil	Sealed By: [Signature] Date: 09/28/23
---	--------------------------------------	---	--

50765 SEP 28 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	50765	CUSTOMER SEAL Date: 9/28/23 Time: 11:16 Name: Heidi Mulhall Company: ExxonMobil	Seal Broken By: SW Date: 09/28/23
--	-------	---	--------------------------------------



50765

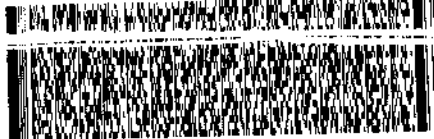
ORIGIN ID:SGRA (630) 335-1573
 HEIDI MULHALL
 EXXONMOBIL JOULET REFINERY
 25915 S. FRONTAGE RD
 CHANNAHON, IL 60410
 UNITED STATES US

SHIP DATE: 19SEP23
 ACTWT: 1.00 LB MAN
 CRD: 0221247/CAFE3751
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-6658
 REF: JOULET DELISTING = 80 95681 - BF

RMA: 111111



FedEx Express



FedEx
 TRK# 6862 6796 8009

THU - 28 SEP 10:30A
 PRIORITY OVERNIGHT

AB SGRA

77099
 TX-US IAH





12-Oct-2023

Bernadette Fini
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS23091749**

Work Order: **23092677**

Dear Bernadette,

ALS Environmental received 1 sample on 29-Sep-2023 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chelsey Cook

Chelsey Cook
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group, USA

Date: 12-Oct-23

Client: ALS Environmental
Project: HS23091749
Work Order: 23092677

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
23092677-01	PTS-03-SL-20230926	Soil	HS23091749-01	9/26/2023 09:35	9/29/2023 09:00	<input type="checkbox"/>

ALS Group, USA

Date: 12-Oct-23

Client: ALS Environmental
Project: HS23091749
WorkOrder: 23092677

**QUALIFIERS,
ACRONYMS, UNITS**

ALS Group, USA

Date: 12-Oct-23

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 12-Oct-23

Client: ALS Environmental
Project: HS23091749
Work Order: 23092677

Case Narrative

Samples for the above noted Work Order were received on 09/29/2023. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:

Batch 225622, Method SW3546, Sample PTS-03-SL-20230926 (23092677-01A): Reduced volume due to petrol odor.

No other deviations or anomalies were noted.

Wet Chemistry:

No deviations or anomalies were noted.

ALS Group, USA

Date: 12-Oct-23

Client: ALS Environmental
Project: HS23091749
Sample ID: PTS-03-SL-20230926
Collection Date: 9/26/2023 09:35 AM

Work Order: 23092677
Lab ID: 23092677-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			Method: SW8082A		Prep: SW3546 / 10/3/23		Analyst: RM
Aroclor 1016	U		0.63	1.8	mg/Kg-dry	1	10/4/2023 17:47
Aroclor 1221	U		0.63	1.8	mg/Kg-dry	1	10/4/2023 17:47
Aroclor 1232	U		0.63	1.8	mg/Kg-dry	1	10/4/2023 17:47
Aroclor 1242	U		0.63	1.8	mg/Kg-dry	1	10/4/2023 17:47
Aroclor 1248	U		0.63	1.8	mg/Kg-dry	1	10/4/2023 17:47
Aroclor 1254	U		0.51	1.8	mg/Kg-dry	1	10/4/2023 17:47
Aroclor 1260	U		0.51	1.8	mg/Kg-dry	1	10/4/2023 17:47
Aroclor 1262	U		0.51	1.8	mg/Kg-dry	1	10/4/2023 17:47
Aroclor 1268	U		0.51	1.8	mg/Kg-dry	1	10/4/2023 17:47
PCBs, Total	U		0.51	1.8	mg/Kg-dry	1	10/4/2023 17:47
<i>Surr: Decachlorobiphenyl</i>	113			68-137	%REC	1	10/4/2023 17:47
<i>Surr: Tetrachloro-m-xylene</i>	83.2			71-126	%REC	1	10/4/2023 17:47
MOISTURE			Method: SW3550C				Analyst: SGH
Moisture	52		0.10	0.10	% of sample	1	10/6/2023 13:10

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Client: ALS Environmental
 Work Order: 23092677
 Project: HS23091749

QC BATCH REPORT

Batch ID: **225622** Instrument ID **GC14** Method: **SW8082A**

MBLK		Sample ID: PBLKS1-225622-225622				Units: µg/Kg			Analysis Date: 10/4/2023 01:11 PM		
Client ID:		Run ID: GC14_231003B				SeqNo: 10056307			Prep Date: 10/3/2023		DF: 1
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	23	67								
Aroclor 1221	U	23	67								
Aroclor 1232	U	23	67								
Aroclor 1242	U	23	67								
Aroclor 1248	U	23	67								
Aroclor 1254	U	19	67								
Aroclor 1260	U	19	67								
Aroclor 1262	U	19	67								
Aroclor 1268	U	19	67								
PCBs, Total	U	19	67								
<i>Surr: Decachlorobiphenyl</i>	37.68	0	0	33.3	0	113	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	34.68	0	0	33.3	0	104	71-126	0			

LCS		Sample ID: PLCSS1-225622-225622				Units: µg/Kg			Analysis Date: 10/4/2023 01:23 PM		
Client ID:		Run ID: GC14_231003B				SeqNo: 10056308			Prep Date: 10/3/2023		DF: 1
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	907.2	23	67	833	0	109	75-129	0			
Aroclor 1260	948.6	19	67	833	0	114	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	39.98	0	0	33.3	0	120	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	35.02	0	0	33.3	0	105	71-126	0			

MS		Sample ID: 23092490-04A MS				Units: µg/Kg			Analysis Date: 10/4/2023 01:34 PM		
Client ID:		Run ID: GC14_231003B				SeqNo: 10056309			Prep Date: 10/3/2023		DF: 1
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	860.6	22	64	805.1	0	107	75-129	0			
Aroclor 1260	844.4	18	64	805.1	0	105	69-127	0			
<i>Surr: Decachlorobiphenyl</i>	37.95	0	0	32.18	0	118	68-137	0			
<i>Surr: Tetrachloro-m-xylene</i>	33.07	0	0	32.18	0	103	71-126	0			

MSD		Sample ID: 23092490-04A MSD				Units: µg/Kg			Analysis Date: 10/4/2023 01:46 PM		
Client ID:		Run ID: GC14_231003B				SeqNo: 10056310			Prep Date: 10/3/2023		DF: 1
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	933.4	22	65	810.3	0	115	75-129	860.6	8.12	20	
Aroclor 1260	942.6	18	65	810.3	0	116	69-127	844.4	11	20	
<i>Surr: Decachlorobiphenyl</i>	39.8	0	0	32.39	0	123	68-137	37.95	4.76	20	
<i>Surr: Tetrachloro-m-xylene</i>	33.93	0	0	32.39	0	105	71-126	33.07	2.58	20	

The following samples were analyzed in this batch: 23092677-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
Work Order: 23092677
Project: HS23091749

QC BATCH REPORT

Batch ID: **R385068** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R385068				Units: % of sample		Analysis Date: 10/6/2023 01:10 PM			
Client ID:		Run ID: MOIST_231006B		SeqNo: 10061992		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.1	0.10								

LCS		Sample ID: LCS-R385068				Units: % of sample		Analysis Date: 10/6/2023 01:10 PM			
Client ID:		Run ID: MOIST_231006B		SeqNo: 10061991		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.1	0.10	100	0	100	98-102	0			

DUP		Sample ID: 23092600-03A DUP				Units: % of sample		Analysis Date: 10/6/2023 01:10 PM			
Client ID:		Run ID: MOIST_231006B		SeqNo: 10061973		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	36.07	0.1	0.10	0	0	0	0-0	35.78	0.807	10	

DUP		Sample ID: 23092677-01A DUP				Units: % of sample		Analysis Date: 10/6/2023 01:10 PM			
Client ID: PTS-03-SL-20230926		Run ID: MOIST_231006B		SeqNo: 10061979		Prep Date:		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	51.54	0.1	0.10	0	0	0	0-0	51.52	0.0388	10	

The following samples were analyzed in this batch: 23092677-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 23345

SUBCONTRACT TO:

ALS Laboratory Group
3352 128th Ave.
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23091749
TSR: Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE

1.	HS23091749-01	PTS-03-SL-20230926	Soil	26 Sep 2023 09:35
	PCB-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			12 Oct 2023

Comments: PTS-03-SL-20230926 MS/MSD

Please analyze for the analytes listed below.
Send report to the email:

QC Level: STD (Laboratory Standard)

23092677
ALS - HOUSTON: ALS Environmental
Project: HS23091749



Relinquished By:

Date/Time:

Received By:

Date/Time:

Cooler ID(s):

Temperature(s):

Fedex

[Handwritten Signature]
Karoly Galambos
IR3

9/28/23 1800
9/29/23 0900
2.9°C

ALS Group, USA
Holland, Michigan

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **29-Sep-23 09:00**

Work Order: **23092677**

Received by: **KYB**

Checklist completed by Karly Yablonski 29-Sep-23
eSignature Date

Reviewed by: Chelsey Cook 03-Oct-23
eSignature Date

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.9/3.9C</u>		<u>IR3</u>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<u>9/29/2023 1:17:49 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



November 30, 2023

Service Request No:E2300889

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23091749

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory October 02, 2023
For your reference, these analyses have been assigned our service request number **E2300889**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental



Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com



Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request No.: E2300889
Date Received: 10/02/23

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 10/02/23.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300560: Laboratory Control Spike (LCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

E2300889-001, MS and DMS start run @ 5X due to sample matrix.

Y flags – Cleanup Standard

The recoveries for the cleanup standard, 37Cl-2,3,7,8-TCDD are below control limits. The sample results are not affected since this labeled standard is provided as a means of demonstrating that both the sample extraction and subsequent cleanup steps performed as expected, and is not used in quantitation of target analytes.

Y flags – Labeled Standards

Quantification of the native 2,3,7,8-substituted congeners is based on isotopic dilution, which automatically corrects for variation in extraction efficiency and provides accurate values even with poor recovery. Samples that had recoveries of labeled standards outside the acceptance limits are qualified with 'Y' flags on the Labeled Compound summary pages. In all cases, the signal-to-noise ratios are greater than 10:1 and detection limits were below the Method Reporting Limits.

2378-TCDF

Samples analyzed on the DB-5MSUI column were analyzed under conditions where sufficient separation between 2,3,7,8-TCDF and its closest eluter was achieved. Confirmation of this result was not required.

MRL

Sample results are reported to the Method Reporting Limit (MRL) established by the analytical method. Results that were not detected at concentrations greater than the MRL are reported as "ND" and are flagged appropriately.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

Holding Time

SW-846 Update VI, December 2018. (Table 4-1, Section 4.1.4.3) eliminates holding times for Dioxins/Furans with proper sample storage as PCDDs and PCDFs are extremely stable in a variety of matrices.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
- The 1:1 and associated dilution have been combined into one TEQ Summary report
- EPA-89 TEFs, "Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)", 1989 EPA Update (EPA/625/3-89/016, March 1989)
- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US

Service Request: E2300889

Project: HS23091749

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2300889-001	PTS-03-SL-20230926	9/26/2023	0935

Electronic File Service Request Summary 04/28/2025

Folder #: E2300889
Client Name: ALS Environmental - US
Project Name: HS23091749
Project Number:
Report To: Bernadette Fini
 ALS Laboratory Group
 10450 Stancliff Road
 Houston, TX 77099-4338
 USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 10/02/23
Internal Due Date: 10/19/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: N
P.O. Number: HS23091749
EDD: EQUIS EFWEDD ERM
 Global High-res

3 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: EHRMS-WIC 1B
Pressure Gas:
Rush

Semivoa GCMS	
PCDD PCDF/8290	Total Solids/ALS SOP
II	II

Lab Samp No.	Client Samp No	Matrix	Collected
E2300889-001	PTS-03-SL-20230926	Soil	09/26/23 0935

Folder #: E2300889
Client Name: ALS Environmental - US
Project Name: HS23091749
Project Number:
Report To: Bernadette Fini
 ALS Laboratory Group
 10450 Stancliff Road
 Houston, TX 77099-4338
 USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 10/02/23
Internal Due Date: 10/19/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: N
P.O. Number: HS23091749
EDD: EQUIS EFWEDD ERM
 Global High-res

3 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: EHRMS-WIC 1B
Pressure Gas:
Rush

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	PCDD PCDF/8290	2	MS/MSD

Data Qualifiers

HRMS Qualifier Set

- * Indicates the samples were extracted outside of the recommended holding time.
- B Indicates the associated analyte was found in the method blank at >1/10th the reported value.
- E Estimated value. The reported concentration is above the calibration range of the instrument.
- J Estimated value. The reported concentration is below the MRL.
- K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits. The concentration of this analyte should be considered as an estimate.
- P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
- Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.
- S Signal saturated detector. Result reported from dilution.
- U Compound was analyzed for, but was not detected (ND).
- X See Case Narrative.
- Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-noise ratios are greater than 10:1, making the recoveries acceptable.
 - i The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCEntration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient



State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Department of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Conservation	TN04016-2023	4/30/2024
Texas Commission on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

ALS ENVIRONMENTAL - Houston

Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E2306889

DB-5MSUI

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
11/30/23	LKL	001 REDL EQ 2300560 - 01DL, 02DL

Second Level - Data Review - to be filled by person doing peer review

Date:	Analyst:	Samples:
11/30/23	SL	001 REDL EQ 2300560 - 01DL, 02DL



Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com



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www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 23346

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff Road Suite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23091749
TSR: Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS23091749-01	PTS-03-SL-20230926	Soil	26 Sep 2023 09:35
Diox/Furans -Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			12 Oct 2023

Comments: PTS-03-SL-20230926 MS/MSD

Please analyze for the analysis listed above.
Send report to the emails shown above.

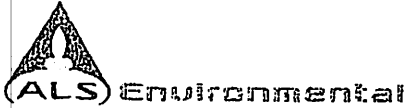
QC Level: STD (Laboratory Standard QC: method blank and LCS required)

E2300889 **5**
ALS Laboratory Group
HS23091749


Relinquished By: _____
Received By: _____
Cooler ID(s): _____

Date/Time: _____
Date/Time: 10-2-23 08:20
Temperature(s): _____

RIGHT SOLUTIONS | RIGHT PARTNER



Cooler Receipt Form

Project Chemist H

Client/Project ALS Thermometer ID 1211

Date/Time Received: 10-2-23 Initials: ry Date/Time Logged in: 10-2-23 Initials ry

1. Method of delivery: US Mail Fed Ex UPS DHL Courier Client

2. Samples received in: Cooler Box Envelope Other

3. Were custody seals on coolers? Yes No
 Were they intact? Yes No N/A
 Were they signed and dated? Yes No N/A
 If yes, how many and where?

4. Packing Material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other

5. Foreign or Regulated Soil? Yes No Location of Sampling: _____

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
-		10-2-23	0856	ry	6.2	<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

- 6. Were custody papers properly filled out (ink, signed, dated, etc)? Yes No
- 7. Did all bottles arrive in good condition (not broken, no signs of leakage)? Yes No
- 8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? Yes No
- 9. Were appropriate bottles/containers and volumes received for the requested tests? Yes No
- 10. Did sample labels and tags agree with custody documents? Yes No

Notes, Discrepancies, & Resolutions:

E2300889 **5**

Service request Label: ALS Laboratory Group HS23091749





SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample. The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report



Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet
 Electronic Filing: Received, Clerk's Office 04/28/2025

Prep Run#: 430131
 Team: Semivoa GCMS/CALLIAW

Prep Workflow: OrgExtDioxS(30)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 11/16/23 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300889-001RE	PTS-03-SL-20230926	.01	8290/PCDD PCDF			Soil	5.231g	brown soil
2	E2301033-001	BC-D1-02-20231101-51	.01	8290A/PCDD PCDF			Soil	10.113g	brown soil
3	E2301033-002	BC-D1-03-20231101-51	.01	8290A/PCDD PCDF			Soil	10.249g	brown soil
4	E2301033-003	BC-D1-04-20231101-51	.01	8290A/PCDD PCDF			Soil	10.055g	brown soil
5	E2301033-004	BC-D2-02-20231031-51	.01	8290A/PCDD PCDF			Soil	10.115g	brown soil
6	E2301033-005	BC-D2-03-20231031-51	.01	8290A/PCDD PCDF			Soil	10.020g	brown soil
7	E2301033-006	BC-D2-04-20231031-51	.01	8290A/PCDD PCDF			Soil	10.136g	brown soil
8	E2301033-007	BC-D4-02-20231031-51	.01	8290A/PCDD PCDF			Soil	10.073g	brown soil
9	E2301033-008	BC-D4-02-20231031-52	.01	8290A/PCDD PCDF			Soil	10.052g	brown soil
10	E2301033-009	BC-D4-03-20231031-51	.01	8290A/PCDD PCDF			Soil	10.249g	brown soil
11	E2301033-010	BC-D4-03-20231031-52	.01	8290A/PCDD PCDF			Soil	10.078g	brown soil
12	E2301033-011	BC-D4-04-20231031-51	.01	8290A/PCDD PCDF			Soil	10.142g	brown soil
13	E2301033-012	BC-D4-04-20231031-52	.01	8290A/PCDD PCDF			Soil	10.295g	brown soil
14	E2301033-013	BC-E3-02-20231101-51	.01	8290A/PCDD PCDF			Soil	10.067g	brown soil
15	E2301033-014	BC-E3-03-20231101-51	.01	8290A/PCDD PCDF			Soil	10.048g	brown soil
16	E2301033-015	BC-E3-04-20231101-51	.01	8290A/PCDD PCDF			Soil	10.171g	brown soil
17	E2301033-016	BC-E4-02-20231031-51	.01	8290A/PCDD PCDF			Soil	10.054g	brown soil
18	E2301040-018	BC-PN7-02-20231030-51	.01	8290A/PCDD PCDF			Sediment	10.123g	brown soil
19	E2301044-001	001 Outfall Gypsu	.01	8290/PCDD PCDF			Solid	10.056g	brown soil
20	E2301088-001	Composite	.01	8290A/PCDD PCDF			Paperboard	10.273g	Brown paperboard
21	EQ2300560-01	PTS-03-SL-20230926 MS	.01	8290/PCDD PCDF			Solid	5.103g	
22	EQ2300560-02	PTS-03-SL-20230926 DMS	.01	8290/PCDD PCDF			Solid	5.125g	
23	EQ2300560-03	MB		8290A/PCDD PCDF			Solid	10.209g	
24	EQ2300560-04	LCS		8290A/PCDD PCDF			Solid	10.022g	

Spiking Solutions

Name:	8290/1613B Cleanup Working Standard	Inventory ID	232054	Logbook Ref:	JS 11/3/2023 CWS @8 ng/mL	Expires On:	03/13/2024
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E2300889-001	100.00µL	E2301033-001	100.00µL	E2301033-002	100.00µL	E2301033-003	100.00µL	E2301033-004	100.00µL	E2301033-005	100.00µL
E2301033-006	100.00µL	E2301033-007	100.00µL	E2301033-008	100.00µL	E2301033-009	100.00µL	E2301033-010	100.00µL	E2301033-011	100.00µL
E2301033-012	100.00µL	E2301033-013	100.00µL	E2301033-014	100.00µL	E2301033-015	100.00µL	E2301033-016	100.00µL	E2301040-018	100.00µL
E2301044-001	100.00µL	E2301088-001	100.00µL	EQ2300560-01	100.00µL	EQ2300560-02	100.00µL	EQ2300560-03	100.00µL	EQ2300560-03	100.00µL
EQ2300560-04	100.00µL	EQ2300560-04	100.00µL								

Name:	1613B Matrix Working Standard	Inventory ID	232166	Logbook Ref:	OO 11/8/23@Matrix working	Expires On:	05/06/2024
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Preparation Information Benchsheet
 Electronic Filing: Received, Clerk's Office 04/28/2025

Prep Run#: 430131

Prep WorkFlow: OrgExtDioxS(30)

Status: Prepped

Team: Semivoa GCMS/CALLIAW

Prep Method: Method

Prep Date/Time: 11/16/23 09:00

EQ2300560-01 100.00µL EQ2300560-02 100.00µL EQ2300560-03 100.00µL EQ2300560-03 100.00µL EQ2300560-04 100.00µL EQ2300560-04 100.00µL

Name: 1613B Labeled Working Standard	Inventory ID 232287	Logbook Ref: OO11/16/23@LWS@2-4ng/ml	Expires On: 05/04/2024
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E2300889-001 1,000.00µL	E2301033-001 1,000.00µL	E2301033-002 1,000.00µL	E2301033-003 1,000.00µL	E2301033-004 1,000.00µL	E2301033-005 1,000.00µL
E2301033-006 1,000.00µL	E2301033-007 1,000.00µL	E2301033-008 1,000.00µL	E2301033-009 1,000.00µL	E2301033-010 1,000.00µL	E2301033-011 1,000.00µL
E2301033-012 1,000.00µL	E2301033-013 1,000.00µL	E2301033-014 1,000.00µL	E2301033-015 1,000.00µL	E2301033-016 1,000.00µL	E2301040-018 1,000.00µL
E2301044-001 1,000.00µL	E2301088-001 1,000.00µL	EQ2300560-01 1,000.00µL	EQ2300560-02 1,000.00µL	EQ2300560-03 1,000.00µL	EQ2300560-03 1,000.00µL
EQ2300560-04 1,000.00µL	EQ2300560-04 1,000.00µL				

Preparation Materials

Carbon, High Purity	OO 11/14/23 Carbon (232252)	Ethyl Acetate 99.9% Minimum EtOAc	OO 4/24/23 C4H8O4 (228820)	Glass Wool	DD 8/8/2023 (230782)
Sulfuric Acid Reagent Grade H2SO4	TW 04/28/23 (228939)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	tw 08/21/23 (230961)	Sodium Hydroxide 1N NaOH	DD082123 (230964)
Sodium Sulfate Anhydrous Reagent Grade Na2SO4	OO9/13/23 NaSO4 (231302)	Silica Gel	OO/7/14/23 silica (230290)	Toluene 99.9% Minimum	tw 08/21/23 (230963)
Hexanes 95%	CW 10/26/23 HEXANE (231946)				

Preparation Steps

Step: Extraction	Step: Acid Clean	Step: Silica Gel Clean	Step: Final Volume
Started: 11/16/23 09:00	Started: 11/17/23 10:50	Started: 11/20/23 11:00	Started: 11/21/23 11:00
Finished: 11/17/23 09:00	Finished: 11/17/23 12:00	Finished: 11/20/23 13:20	Finished: 11/21/23 14:50
By: CALLIAW	By: DDO	By: DDO	By: DDO
Comments	Comments	Comments	Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____	Date: _____	Extracts Examined Yes No
Received By: _____	Date: _____	



Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50

Sample Name: PTS-03-SL-20230926
Lab Code: E2300889-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.231g

Date Analyzed: 11/29/23 11:04
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Data File Name: P638598
ICAL Date: 11/13/23

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0000168	1
1,2,3,7,8-PeCDD	ND	U	0.00000840	1
1,2,3,4,7,8-HxCDD	ND	U	0.00000840	1
1,2,3,6,7,8-HxCDD	ND	U	0.00000840	1
1,2,3,7,8,9-HxCDD	ND	U	0.00000840	1
1,2,3,4,6,7,8-HpCDD	0.0000249		0.00000840	1
OCDD	0.000223		0.0000168	1
2,3,7,8-TCDF	ND	U	0.00000168	1
1,2,3,7,8-PeCDF	ND	U	0.00000840	1
2,3,4,7,8-PeCDF	ND	U	0.00000840	1
1,2,3,4,7,8-HxCDF	ND	U	0.00000840	1
1,2,3,6,7,8-HxCDF	ND	U	0.00000840	1
1,2,3,7,8,9-HxCDF	ND	U	0.00000840	1
2,3,4,6,7,8-HxCDF	ND	U	0.00000840	1
1,2,3,4,6,7,8-HpCDF	0.0000108		0.00000840	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.00000840	1
OCDF	0.0000327		0.0000168	1

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50

Sample Name: PTS-03-SL-20230926
Lab Code: E2300889-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.231g
Data File Name: P638598
ICAL Date: 11/13/23

Date Analyzed: 11/29/23 11:04
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	ND	U	0.00000168	1
Total Penta-Dioxins	ND	U	0.00000840	1
Total Hexa-Dioxins	ND	U	0.00000840	1
Total Hepta-Dioxins	0.000061		0.00000840	1
Total Tetra-Furans	ND	U	0.00000168	1
Total Penta-Furans	ND	U	0.00000840	1
Total Hexa-Furans	ND	U	0.00000840	1
Total Hepta-Furans	0.0000258		0.00000840	1

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil
Sample Name: PTS-03-SL-20230926
Lab Code: E2300889-001

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.231g
Data File Name: P638598
ICAL Date: 11/13/23

Date Analyzed: 11/29/23 11:04
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1506.700	75		40-135	0.79	1.021
13C-1,2,3,7,8-PeCDD	2000	1394.898	70		40-135	1.56	1.174
13C-1,2,3,6,7,8-HxCDD	2000	1352.857	68		40-135	1.24	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1122.940	56		40-135	1.07	1.064
13C-OCDD	4000	1266.338	32	Y	40-135	0.88	1.140
13C-2,3,7,8-TCDF	2000	1595.340	80		40-135	0.77	0.995
13C-1,2,3,7,8-PeCDF	2000	1485.269	74		40-135	1.58	1.135
13C-1,2,3,4,7,8-HxCDF	2000	2184.059	109		40-135	0.52	0.973
13C-1,2,3,4,6,7,8-HpCDF	2000	1121.316	56		40-135	0.42	1.041
37Cl-2,3,7,8-TCDD	800	86.489	11	Y	40-135	NA	1.021

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil
Sample Name: PTS-03-SL-20230926
Lab Code: E2300889-001

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50
Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	Dilution Factor			
2,3,7,8-TCDD	ND	0.00000062	0.00000168	1	1	
1,2,3,7,8-PeCDD	ND	0.00000011	0.00000840	1	1	
1,2,3,4,7,8-HxCDD	ND	0.00000008	0.00000840	1	0.1	
1,2,3,6,7,8-HxCDD	ND	0.00000012	0.00000840	1	0.1	
1,2,3,7,8,9-HxCDD	ND	0.00000009	0.00000840	1	0.1	
1,2,3,4,6,7,8-HpCDD	0.0000249	0.00000011	0.00000840	1	0.01	0.000000249
OCDD	0.000223	0.00000016	0.0000168	1	0.0003	0.0000000669
2,3,7,8-TCDF	ND	0.00000031	0.00000168	1	0.1	
1,2,3,7,8-PeCDF	ND	0.00000012	0.00000840	1	0.03	
2,3,4,7,8-PeCDF	ND	0.00000012	0.00000840	1	0.3	
1,2,3,4,7,8-HxCDF	ND	0.00000004	0.00000840	1	0.1	
1,2,3,6,7,8-HxCDF	ND	0.00000005	0.00000840	1	0.1	
1,2,3,7,8,9-HxCDF	ND	0.00000007	0.00000840	1	0.1	
2,3,4,6,7,8-HxCDF	ND	0.00000005	0.00000840	1	0.1	
1,2,3,4,6,7,8-HpCDF	0.0000108	0.00000007	0.00000840	1	0.01	0.000000108
1,2,3,4,7,8,9-HpCDF	ND	0.00000008	0.00000840	1	0.01	
OCDF	0.0000327	0.00000161	0.0000168	1	0.0003	0.00000000981
Total TEQ						0.000000434

2005 WHO TEFs, ND = 0

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil
Sample Name: PTS-03-SL-20230926
Lab Code: E2300889-001

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
 5.2419g

Date Analyzed: 10/11/23 15:21
 NA
 E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Solids	56.9		-	1

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300560-03

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 10.209g

Data File Name: P638533
ICAL Date: 11/13/23

Date Analyzed: 11/23/23 12:31
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638530

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	ND	U	0.000000490	1
1,2,3,7,8-PeCDD	ND	U	0.00000245	1
1,2,3,4,7,8-HxCDD	ND	U	0.00000245	1
1,2,3,6,7,8-HxCDD	ND	U	0.00000245	1
1,2,3,7,8,9-HxCDD	ND	U	0.00000245	1
1,2,3,4,6,7,8-HpCDD	ND	U	0.00000245	1
OCDD	ND	U	0.00000490	1
2,3,7,8-TCDF	ND	U	0.000000490	1
1,2,3,7,8-PeCDF	ND	U	0.00000245	1
2,3,4,7,8-PeCDF	ND	U	0.00000245	1
1,2,3,4,7,8-HxCDF	ND	U	0.00000245	1
1,2,3,6,7,8-HxCDF	ND	U	0.00000245	1
1,2,3,7,8,9-HxCDF	ND	U	0.00000245	1
2,3,4,6,7,8-HxCDF	ND	U	0.00000245	1
1,2,3,4,6,7,8-HpCDF	ND	U	0.00000245	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.00000245	1
OCDF	ND	U	0.00000490	1

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300560-03

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 10.209g

Data File Name: P638533
ICAL Date: 11/13/23

Date Analyzed: 11/23/23 12:31
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638530

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	ND	U	0.000000490	1
Total Penta-Dioxins	ND	U	0.00000245	1
Total Hexa-Dioxins	ND	U	0.00000245	1
Total Hepta-Dioxins	ND	U	0.00000245	1
Total Tetra-Furans	ND	U	0.000000490	1
Total Penta-Furans	ND	U	0.00000245	1
Total Hexa-Furans	ND	U	0.00000245	1
Total Hepta-Furans	ND	U	0.00000245	1

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300560-03

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 10.209g

Date Analyzed: 11/23/23 12:31
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638530

Data File Name: P638533
ICAL Date: 11/13/23

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1214.264	61		40-135	0.79	1.019
13C-1,2,3,7,8-PeCDD	2000	999.845	50		40-135	1.59	1.171
13C-1,2,3,6,7,8-HxCDD	2000	1323.129	66		40-135	1.18	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	799.998	40		40-135	1.10	1.066
13C-OCDD	4000	857.160	21	Y	40-135	0.91	1.142
13C-2,3,7,8-TCDF	2000	1281.926	64		40-135	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	1080.938	54		40-135	1.56	1.131
13C-1,2,3,4,7,8-HxCDF	2000	1603.455	80		40-135	0.52	0.972
13C-1,2,3,4,6,7,8-HpCDF	2000	841.518	42		40-135	0.46	1.041
37Cl-2,3,7,8-TCDD	800	457.473	57		40-135	NA	1.019



Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

QA/QC Report

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: 09/26/23
Date Received: 10/02/23
Date Analyzed: 11/29/23
Date Extracted: 11/16/23

Duplicate Matrix Spike Summary

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Sample Name: PTS-03-SL-20230926
Lab Code: E2300889-001
Analysis Method: 8290
Prep Method: Method

Units: mg/Kg
Basis: Dry

Analyte Name	Matrix Spike EQ2300560-01				Duplicate Matrix Spike EQ2300560-02				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
2,3,7,8-TCDD	ND U	0.0000398	0.0000689	58 *	0.0000332	0.0000686	48 *	70-130	18	25	
1,2,3,7,8-PeCDD	ND U	0.000227	0.000344	66 *	0.000194	0.000343	57 *	70-130	16	25	
1,2,3,4,7,8-HxCDD	ND U	0.000149	0.000344	43 *	0.000121	0.000343	35 *	70-130	20	25	
1,2,3,6,7,8-HxCDD	ND U	0.000174	0.000344	51 *	0.000195	0.000343	57 *	70-130	11	25	
1,2,3,7,8,9-HxCDD	ND U	0.000157	0.000344	46 *	0.000115	0.000343	33 *	70-130	31*	25	
1,2,3,4,6,7,8-HpCDD	0.0000249	0.000311	0.000344	83	0.000325	0.000343	87	70-130	4	25	
OCDD	0.000223	0.00154	0.000689	191 *	0.00166	0.000686	209 *	70-130	7	25	
2,3,7,8-TCDF	ND U	0.0000340	0.0000689	49 *	0.0000383	0.0000686	56 *	70-130	12	25	
1,2,3,7,8-PeCDF	ND U	0.000223	0.000344	65 *	0.000195	0.000343	57 *	70-130	13	25	
2,3,4,7,8-PeCDF	ND U	0.000223	0.000344	65 *	0.000196	0.000343	57 *	70-130	13	25	
1,2,3,4,7,8-HxCDF	ND U	0.000183	0.000344	53 *	0.000161	0.000343	47 *	70-130	13	25	
1,2,3,6,7,8-HxCDF	ND U	0.000222	0.000344	64 *	0.000180	0.000343	53 *	70-130	21	25	
1,2,3,7,8,9-HxCDF	ND U	0.000223	0.000344	65 *	0.000210	0.000343	61 *	70-130	6	25	
2,3,4,6,7,8-HxCDF	ND U	0.000197	0.000344	57 *	0.000181	0.000343	53 *	70-130	8	25	
1,2,3,4,6,7,8-HpCDF	0.0000108	0.000247	0.000344	68 *	0.000227	0.000343	63 *	70-130	8	25	
1,2,3,4,7,8,9-HpCDF	ND U	0.000214	0.000344	62 *	0.000192	0.000343	56 *	70-130	11	25	
OCDF	0.0000327	0.000518	0.000689	70	0.000511	0.000686	70	70-130	1	25	

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50

Sample Name: PTS-03-SL-20230926
Lab Code: EQ2300560-01

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.103g

Date Analyzed: 11/29/23 11:54
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Data File Name: P638599
ICAL Date: 11/13/23

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.0000398*		0.00000861	5
1,2,3,7,8-PeCDD	0.000227*		0.0000430	5
1,2,3,4,7,8-HxCDD	0.000149*		0.0000430	5
1,2,3,6,7,8-HxCDD	0.000174*		0.0000430	5
1,2,3,7,8,9-HxCDD	0.000157*		0.0000430	5
1,2,3,4,6,7,8-HpCDD	0.000311*		0.0000430	5
OCDD	0.00154*		0.0000861	5
2,3,7,8-TCDF	0.0000340*		0.00000861	5
1,2,3,7,8-PeCDF	0.000223*		0.0000430	5
2,3,4,7,8-PeCDF	0.000223*		0.0000430	5
1,2,3,4,7,8-HxCDF	0.000183*		0.0000430	5
1,2,3,6,7,8-HxCDF	0.000222*		0.0000430	5
1,2,3,7,8,9-HxCDF	0.000223*		0.0000430	5
2,3,4,6,7,8-HxCDF	0.000197*		0.0000430	5
1,2,3,4,6,7,8-HpCDF	0.000247*		0.0000430	5
1,2,3,4,7,8,9-HpCDF	0.000214*		0.0000430	5
OCDF	0.000518*		0.0000861	5

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50

Sample Name: PTS-03-SL-20230926
Lab Code: EQ2300560-01

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.103g

Data File Name: P638599
ICAL Date: 11/13/23

Date Analyzed: 11/29/23 11:54
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	ND	U*	0.00000861	5
Total Penta-Dioxins	0.000228*		0.0000430	5
Total Hexa-Dioxins	0.000499*		0.0000430	5
Total Hepta-Dioxins	0.000516*		0.0000430	5
Total Tetra-Furans	0.0000340*		0.00000861	5
Total Penta-Furans	0.000446*		0.0000430	5
Total Hexa-Furans	0.000836*		0.0000430	5
Total Hepta-Furans	0.000535*		0.0000430	5

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil
Sample Name: PTS-03-SL-20230926
Lab Code: EQ2300560-01

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.103g
Data File Name: P638599
ICAL Date: 11/13/23

Date Analyzed: 11/29/23 11:54
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1497.076	75		40-135	0.78	1.021
13C-1,2,3,7,8-PeCDD	2000	1355.959	68		40-135	1.57	1.175
13C-1,2,3,6,7,8-HxCDD	2000	1326.655	66		40-135	1.21	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1052.939	53		40-135	1.10	1.064
13C-OCDD	4000	1131.615	28	Y	40-135	0.89	1.139
13C-2,3,7,8-TCDF	2000	1586.818	79		40-135	0.80	0.995
13C-1,2,3,7,8-PeCDF	2000	1478.009	74		40-135	1.64	1.136
13C-1,2,3,4,7,8-HxCDF	2000	2246.655	112		40-135	0.52	0.974
13C-1,2,3,4,6,7,8-HpCDF	2000	1157.193	58		40-135	0.43	1.040
37Cl-2,3,7,8-TCDD	160	73.829	46		40-135	NA	1.021

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50

Sample Name: PTS-03-SL-20230926
Lab Code: EQ2300560-02

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.125g

Data File Name: P638600
ICAL Date: 11/13/23

Date Analyzed: 11/29/23 12:44
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.0000332*		0.00000857	5
1,2,3,7,8-PeCDD	0.000194*		0.0000429	5
1,2,3,4,7,8-HxCDD	0.000121*		0.0000429	5
1,2,3,6,7,8-HxCDD	0.000195*		0.0000429	5
1,2,3,7,8,9-HxCDD	0.000115*		0.0000429	5
1,2,3,4,6,7,8-HpCDD	0.000325*		0.0000429	5
OCDD	0.00166*		0.0000857	5
2,3,7,8-TCDF	0.0000383*		0.00000857	5
1,2,3,7,8-PeCDF	0.000195*		0.0000429	5
2,3,4,7,8-PeCDF	0.000196*		0.0000429	5
1,2,3,4,7,8-HxCDF	0.000161*		0.0000429	5
1,2,3,6,7,8-HxCDF	0.000180*		0.0000429	5
1,2,3,7,8,9-HxCDF	0.000210*		0.0000429	5
2,3,4,6,7,8-HxCDF	0.000181*		0.0000429	5
1,2,3,4,6,7,8-HpCDF	0.000227*		0.0000429	5
1,2,3,4,7,8,9-HpCDF	0.000192*		0.0000429	5
OCDF	0.000511*		0.0000857	5

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50

Sample Name: PTS-03-SL-20230926
Lab Code: EQ2300560-02

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.125g

Data File Name: P638600
ICAL Date: 11/13/23

Date Analyzed: 11/29/23 12:44
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.0000332*		0.00000857	5
Total Penta-Dioxins	0.000194*		0.0000429	5
Total Hexa-Dioxins	0.000430*		0.0000429	5
Total Hepta-Dioxins	0.000325*		0.0000429	5
Total Tetra-Furans	0.0000383*		0.00000857	5
Total Penta-Furans	0.000393*		0.0000429	5
Total Hexa-Furans	0.000743*		0.0000429	5
Total Hepta-Furans	0.000498*		0.0000429	5

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil
Sample Name: PTS-03-SL-20230926
Lab Code: EQ2300560-02

Service Request: E2300889
Date Collected: 09/26/23 09:35
Date Received: 10/02/23 08:50
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 5.125g
Data File Name: P638600
ICAL Date: 11/13/23

Date Analyzed: 11/29/23 12:44
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638588

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1406.223	70		40-135	0.75	1.020
13C-1,2,3,7,8-PeCDD	2000	1277.878	64		40-135	1.60	1.174
13C-1,2,3,6,7,8-HxCDD	2000	1570.393	79		40-135	1.26	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1139.355	57		40-135	1.11	1.064
13C-OCDD	4000	1205.273	30	Y	40-135	0.90	1.138
13C-2,3,7,8-TCDF	2000	1701.130	85		40-135	0.78	0.995
13C-1,2,3,7,8-PeCDF	2000	1435.855	72		40-135	1.62	1.136
13C-1,2,3,4,7,8-HxCDF	2000	2035.464	102		40-135	0.50	0.974
13C-1,2,3,4,6,7,8-HpCDF	2000	1245.859	62		40-135	0.44	1.040
37Cl-2,3,7,8-TCDD	160	78.130	49		40-135	NA	1.021

QA/QC Report

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Analyzed: 11/23/23
Date Extracted: 11/16/23

Lab Control Sample Summary

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method

Units: mg/Kg
Basis: Dry
Analysis Lot: 825466

**Lab Control Sample
 EQ2300560-04**

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,2,3,4,6,7,8-HpCDD	0.000101	0.0000998	101	70-130
1,2,3,4,7,8-HxCDD	0.0000660	0.0000998	66 *	70-130
1,2,3,6,7,8-HxCDD	0.0000874	0.0000998	88	70-130
1,2,3,7,8,9-HxCDD	0.0000711	0.0000998	71	70-130
1,2,3,7,8-PeCDD	0.0000997	0.0000998	100	70-130
2,3,7,8-TCDD	0.0000186	0.0000200	93	70-130
OCDD	0.000259	0.000200	130	70-130
1,2,3,4,6,7,8-HpCDF	0.000103	0.0000998	104	70-130
1,2,3,4,7,8,9-HpCDF	0.0000968	0.0000998	97	70-130
1,2,3,4,7,8-HxCDF	0.0000870	0.0000998	87	70-130
1,2,3,6,7,8-HxCDF	0.0000969	0.0000998	97	70-130
1,2,3,7,8,9-HxCDF	0.0000939	0.0000998	94	70-130
1,2,3,7,8-PeCDF	0.000104	0.0000998	104	70-130
2,3,4,6,7,8-HxCDF	0.000100	0.0000998	101	70-130
2,3,4,7,8-PeCDF	0.000103	0.0000998	103	70-130
2,3,7,8-TCDF	0.0000194	0.0000200	97	70-130
OCDF	0.000225	0.000200	113	70-130

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300560-04

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 10.022g
Data File Name: P638537
ICAL Date: 11/13/23

Date Analyzed: 11/23/23 15:50
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638530

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.0000186		0.000000499	1
1,2,3,7,8-PeCDD	0.0000997		0.00000249	1
1,2,3,4,7,8-HxCDD	0.0000660		0.00000249	1
1,2,3,6,7,8-HxCDD	0.0000874		0.00000249	1
1,2,3,7,8,9-HxCDD	0.0000711		0.00000249	1
1,2,3,4,6,7,8-HpCDD	0.000101		0.00000249	1
OCDD	0.000259		0.00000499	1
2,3,7,8-TCDF	0.0000194		0.000000499	1
1,2,3,7,8-PeCDF	0.000104		0.00000249	1
2,3,4,7,8-PeCDF	0.000103		0.00000249	1
1,2,3,4,7,8-HxCDF	0.0000870		0.00000249	1
1,2,3,6,7,8-HxCDF	0.0000969		0.00000249	1
1,2,3,7,8,9-HxCDF	0.0000939		0.00000249	1
2,3,4,6,7,8-HxCDF	0.000100		0.00000249	1
1,2,3,4,6,7,8-HpCDF	0.000103		0.00000249	1
1,2,3,4,7,8,9-HpCDF	0.0000968		0.00000249	1
OCDF	0.000225		0.00000499	1

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300560-04

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 10.022g

Data File Name: P638537
ICAL Date: 11/13/23

Date Analyzed: 11/23/23 15:50
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638530

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.0000187		0.000000499	1
Total Penta-Dioxins	0.0000997		0.00000249	1
Total Hexa-Dioxins	0.000224		0.00000249	1
Total Hepta-Dioxins	0.000109		0.00000249	1
Total Tetra-Furans	0.0000194		0.000000499	1
Total Penta-Furans	0.000207		0.00000249	1
Total Hexa-Furans	0.000378		0.00000249	1
Total Hepta-Furans	0.000205		0.00000249	1

Client: ALS Environmental - US
Project: HS23091749
Sample Matrix: Soil

Service Request: E2300889
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300560-04

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290
Prep Method: Method
Sample Amount: 10.022g

Data File Name: P638537
ICAL Date: 11/13/23

Date Analyzed: 11/23/23 15:50
Date Extracted: 11/16/23
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P638533
Cal Ver. File Name: P638530

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1192.878	60		40-135	0.77	1.019
13C-1,2,3,7,8-PeCDD	2000	1206.483	60		40-135	1.61	1.171
13C-1,2,3,6,7,8-HxCDD	2000	1440.597	72		40-135	1.23	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	792.765	40		40-135	1.01	1.065
13C-OCDD	4000	552.419	14	Y	40-135	0.92	1.141
13C-2,3,7,8-TCDF	2000	1302.805	65		40-135	0.80	0.994
13C-1,2,3,7,8-PeCDF	2000	1256.429	63		40-135	1.63	1.132
13C-1,2,3,4,7,8-HxCDF	2000	1852.242	93		40-135	0.52	0.972
13C-1,2,3,4,6,7,8-HpCDF	2000	874.128	44		40-135	0.46	1.041
37Cl-2,3,7,8-TCDD	800	554.447	69		40-135	NA	1.020

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bernadette Fini
ALS Group USA, Corp
10450 Stancliff Rd.
Suite 210
Houston, Texas 77099

Generated 10/17/2023 10:22:50 AM Revision 1

JOB DESCRIPTION

HS23091749

JOB NUMBER

410-145061-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Authorized for release by
Kelly Bauer, Project Manager
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(717)556-7262

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Revision 1

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Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Client: ALS Group USA, Corp
 Project/Site: HS23091749

Job ID: 410-145061-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Client: ALS Group USA, Corp
Project/Site: HS23091749

Job ID: 410-145061-1

Job ID: 410-145061-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

**Job Narrative
410-145061-1**

REVISION

The report being provided is a revision of the original report sent on 10/13/2023. The report (revision 1) is being revised due to the client requesting a units change.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 9/30/2023 10:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Herbicides

Method 8151A: The following sample was diluted due to the nature of the sample matrix: PTS-03-SL-20230926 (410-145061-1). Elevated reporting limits (RLs) are provided.

Method 8151A: Surrogate recovery for the following sample was outside control limits: PTS-03-SL-20230926 (410-145061-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client: ALS Group USA, Corp
Project/Site: HS23091749

Job ID: 410-145061-1

Client Sample ID: PTS-03-SL-20230926

Lab Sample ID: 410-145061-1

No Detections.

- 1
- 2
- 3
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This Detection Summary does not include radiochemical test results.

Client: ALS Group USA, Corp
 Project/Site: HS23091749

Job ID: 410-145061-1

Client Sample ID: PTS-03-SL-20230926

Lab Sample ID: 410-145061-1

Date Collected: 09/26/23 09:35

Matrix: Solid

Date Received: 09/30/23 10:05

Percent Solids: 52.5

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,5-T (1C)	<0.0078	cn	0.016		0.0078	mg/Kg	⊛	10/12/23 14:38	5
Silvex (2,4,5-TP) (1C)	<0.0071	cn	0.016		0.0071	mg/Kg	⊛	10/12/23 14:38	5
2,4-D (1C)	<0.11	cn	0.34		0.11	mg/Kg	⊛	10/12/23 14:38	5
2,4-DB (1C)	<0.11	cn	0.24		0.11	mg/Kg	⊛	10/12/23 14:38	5
Dichlorprop (1C)	<0.085	cn	0.19		0.085	mg/Kg	⊛	10/12/23 14:38	5
Dalapon (2C)	<0.47	cn	0.95		0.47	mg/Kg	⊛	10/12/23 14:38	5
Dicamba (1C)	<0.13	cn	0.28		0.13	mg/Kg	⊛	10/12/23 14:38	5
Dinoseb (1C)	<0.085	cn	0.23		0.085	mg/Kg	⊛	10/12/23 14:38	5
MCP P (1C)	<36	cn	73		36	mg/Kg	⊛	10/12/23 14:38	5
MCPA (1C)	<7.2	F1 cn	24		7.2	mg/Kg	⊛	10/12/23 14:38	5
Pentachlorophenol (1C)	<0.0031	cn	0.016		0.0031	mg/Kg	⊛	10/12/23 14:38	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	19	S1- cn	54 - 140	10/10/23 00:45	10/12/23 14:38	5
2,4-Dichlorophenylacetic acid (Surr) (2C)	14	S1- cn	54 - 140	10/10/23 00:45	10/12/23 14:38	5

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	47.5		1.0		1.0	%		09/30/23 21:23	1

Client: ALS Group USA, Corp
 Project/Site: HS23091749

Job ID: 410-145061-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA1 (54-140)	DCPAA2 (54-140)
410-145061-1	PTS-03-SL-20230926	19 S1- cn	14 S1- cn
410-145061-1 MS	PTS-03-SL-20230926	127	89
410-145061-1 MSD	PTS-03-SL-20230926	162 S1+	91 p
LCS 410-429267/2-A	Lab Control Sample	76	80
MB 410-429267/1-A	Method Blank	78	78

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client: ALS Group USA, Corp
 Project/Site: HS23091749

Job ID: 410-145061-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-429267/1-A
Matrix: Solid
Analysis Batch: 430345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429267

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2,4,5-T (1C)	<0.00082		0.0017		0.00082	mg/Kg		10/12/23 04:47	1
Silvex (2,4,5-TP) (1C)	<0.00075		0.0017		0.00075	mg/Kg		10/12/23 04:47	1
2,4-D (1C)	<0.012		0.036		0.012	mg/Kg		10/12/23 04:47	1
2,4-DB (1C)	<0.012		0.025		0.012	mg/Kg		10/12/23 04:47	1
Dichlorprop (1C)	<0.0090		0.020		0.0090	mg/Kg		10/12/23 04:47	1
Dalapon (1C)	<0.049		0.10		0.049	mg/Kg		10/12/23 04:47	1
Dicamba (1C)	<0.014		0.029		0.014	mg/Kg		10/12/23 04:47	1
Dinoseb (1C)	<0.0090		0.024		0.0090	mg/Kg		10/12/23 04:47	1
MCPPP (1C)	<3.8		7.7		3.8	mg/Kg		10/12/23 04:47	1
MCPA (1C)	<0.76		2.5		0.76	mg/Kg		10/12/23 04:47	1
Pentachlorophenol (1C)	<0.00033		0.0017		0.00033	mg/Kg		10/12/23 04:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	78		54 - 140	10/10/23 00:45	10/12/23 04:47	1
2,4-Dichlorophenylacetic acid (Surr) (2C)	78		54 - 140	10/10/23 00:45	10/12/23 04:47	1

Lab Sample ID: LCS 410-429267/2-A
Matrix: Solid
Analysis Batch: 430345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4,5-T (2C)	0.00833	0.00697		mg/Kg		84	41 - 151
Silvex (2,4,5-TP) (2C)	0.00833	0.00726		mg/Kg		87	52 - 152
2,4-D (2C)	0.0837	0.0713		mg/Kg		85	40 - 138
2,4-DB (2C)	0.0837	0.0719		mg/Kg		86	45 - 155
Dichlorprop (2C)	0.0834	0.0717		mg/Kg		86	51 - 130
Dalapon (2C)	0.208	0.150	p	mg/Kg		72	15 - 115
Dicamba (1C)	0.00833	<0.014		mg/Kg		76	48 - 129
Dinoseb (1C)	0.0417	<0.0090		mg/Kg		11	10 - 115
MCPPP (2C)	8.37	7.23	J	mg/Kg		86	40 - 162
MCPA (2C)	8.36	6.66		mg/Kg		80	41 - 130
Pentachlorophenol (2C)	0.00662	0.00701		mg/Kg		106	45 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr) (1C)	76		54 - 140
2,4-Dichlorophenylacetic acid (Surr) (2C)	80		54 - 140

Lab Sample ID: 410-145061-1 MS
Matrix: Solid
Analysis Batch: 430345

Client Sample ID: PTS-03-SL-20230926
Prep Type: Total/NA
Prep Batch: 429267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
2,4,5-T (2C)	<0.0078	cn	0.0159	0.0219		mg/Kg	☼	138	41 - 151
Silvex (2,4,5-TP) (2C)	<0.0071	cn	0.0159	0.00770	J p F1	mg/Kg	☼	49	52 - 152
2,4-D (1C)	<0.11	cn	0.159	0.218	J	mg/Kg	☼	137	40 - 138

Client: ALS Group USA, Corp
 Project/Site: HS23091749

Job ID: 410-145061-1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 410-145061-1 MS

Client Sample ID: PTS-03-SL-20230926

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 430345

Prep Batch: 429267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-DB (2C)	<0.11	cn	0.159	<0.11	F1	mg/Kg	✳	0	45 - 155
Dichlorprop (2C)	<0.085	cn	0.159	0.176	J	mg/Kg	✳	111	51 - 130
Dalapon (2C)	<0.47	cn	0.396	<0.47		mg/Kg	✳	NC	15 - 115
Dicamba (1C)	<0.13	cn	0.0159	<0.13		mg/Kg	✳	NC	48 - 129
Dinoseb (1C)	<0.085	cn	0.0793	<0.086		mg/Kg	✳	NC	10 - 115
MCPPP (1C)	<36	cn	15.9	<36		mg/Kg	✳	NC	40 - 162
MCPA (1C)	<7.2	F1 cn	15.9	19.0	J	mg/Kg	✳	119	41 - 130
Pentachlorophenol (2C)	<0.0031	cn	0.0126	0.0131	J	mg/Kg	✳	104	45 - 147

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4-Dichlorophenylacetic acid (Surr) (1C)	127		54 - 140
2,4-Dichlorophenylacetic acid (Surr) (2C)	89		54 - 140

Lab Sample ID: 410-145061-1 MSD

Client Sample ID: PTS-03-SL-20230926

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 430345

Prep Batch: 429267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T (1C)	<0.0078	cn	0.0158	0.0182		mg/Kg	✳	116	41 - 151	18	50
Silvex (2,4,5-TP) (2C)	<0.0071	cn	0.0158	0.00738	J p F1	mg/Kg	✳	47	52 - 152	4	50
2,4-D (2C)	<0.11	cn	0.158	0.205	J	mg/Kg	✳	130	40 - 138	6	50
2,4-DB (2C)	<0.11	cn	0.158	<0.11	F1	mg/Kg	✳	0	45 - 155	NC	50
Dichlorprop (2C)	<0.085	cn	0.158	0.197		mg/Kg	✳	125	51 - 130	11	50
Dalapon (2C)	<0.47	cn	0.394	<0.46		mg/Kg	✳	NC	15 - 115	NC	50
Dicamba (1C)	<0.13	cn	0.0158	<0.13		mg/Kg	✳	NC	48 - 129	NC	50
Dinoseb (1C)	<0.085	cn	0.0788	<0.085		mg/Kg	✳	NC	10 - 115	NC	50
MCPPP (1C)	<36	cn	15.8	<36		mg/Kg	✳	NC	40 - 162	NC	50
MCPA (1C)	<7.2	F1 cn	15.8	21.9	J F1	mg/Kg	✳	139	41 - 130	14	50
Pentachlorophenol (2C)	<0.0031	cn	0.0125	0.0148	J	mg/Kg	✳	118	45 - 147	12	50

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4-Dichlorophenylacetic acid (Surr) (1C)	162	S1+	54 - 140
2,4-Dichlorophenylacetic acid (Surr) (2C)	91	p	54 - 140

Client: ALS Group USA, Corp
 Project/Site: HS23091749

Job ID: 410-145061-1

GC Semi VOA

Prep Batch: 429267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145061-1	PTS-03-SL-20230926	Total/NA	Solid	8151A	
MB 410-429267/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 410-429267/2-A	Lab Control Sample	Total/NA	Solid	8151A	
410-145061-1 MS	PTS-03-SL-20230926	Total/NA	Solid	8151A	
410-145061-1 MSD	PTS-03-SL-20230926	Total/NA	Solid	8151A	

Analysis Batch: 430345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145061-1	PTS-03-SL-20230926	Total/NA	Solid	8151A	429267
MB 410-429267/1-A	Method Blank	Total/NA	Solid	8151A	429267
LCS 410-429267/2-A	Lab Control Sample	Total/NA	Solid	8151A	429267
410-145061-1 MS	PTS-03-SL-20230926	Total/NA	Solid	8151A	429267
410-145061-1 MSD	PTS-03-SL-20230926	Total/NA	Solid	8151A	429267

General Chemistry

Analysis Batch: 425850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145061-1	PTS-03-SL-20230926	Total/NA	Solid	Moisture	



Client: ALS Group USA, Corp
 Project/Site: HS23091749

Job ID: 410-145061-1

Client Sample ID: PTS-03-SL-20230926
Date Collected: 09/26/23 09:35
Date Received: 09/30/23 10:05

Lab Sample ID: 410-145061-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	425850	USWF	ELLE	09/30/23 21:23

Client Sample ID: PTS-03-SL-20230926
Date Collected: 09/26/23 09:35
Date Received: 09/30/23 10:05

Lab Sample ID: 410-145061-1
Matrix: Solid
Percent Solids: 52.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			429267	USL7	ELLE	10/10/23 00:45
Total/NA	Analysis	8151A		5	430345	UAMZ	ELLE	10/12/23 14:38

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Client: ALS Group USA, Corp
 Project/Site: HS23091749

Job ID: 410-145061-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Louisiana (All)	NELAP	02055	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

Texas	NELAP	T104704194-23-46	08-31-24
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture



Client: ALS Group USA, Corp
Project/Site: HS23091749

Job ID: 410-145061-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
8151A	Extraction (Herbicides)	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

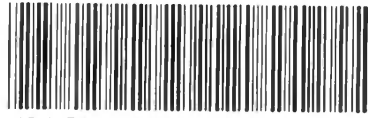


Client: ALS Group USA, Corp
Project/Site: HS23091749

Job ID: 410-145061-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
410-145061-1	PTS-03-SL-20230926	Solid	09/26/23 09:35	09/30/23 10:05

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- 11
- 12
- 13
- 14
- 15



410-145061 Chain of Custody

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 23347

SUBCONTRACT TO:

Eurofins Lancaster Laboratories Env't Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23091749
TSR: Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE

1.	HS23091749-01	PTS-03-SL-20230926	Soil	26 Sep 2023 09:35
	Herbs 8151-Report in mg/Kg, 4 file EQUIS EDD, dry weight correct data, report J flags down to MDL			12 Oct 2023

Comments: PTS-03-SL-20230926 MS/MSD
Need 4 file EQUIS EDD

Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: MR _____ Date/Time: 9/26/23 10:05
 Received By: [Signature] _____ Date/Time: 9.25.23 1800
 Cooler ID(s): _____ Temperature(s): 3/6/3/6

RIGHT SOLUTIONS | RIGHT PARTNER

Page 1 of 1



10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Purchase Order

PO: HS23091749

VENDOR:

Eurofins Lancaster Laboratories Env't Testing
2425 New Holland Pike
Lancaster, PA 17601

Phone: +1 717 656 2300

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: 23347
TSR: Ron Martino

Item	Catalog No	Unit Price	Quantity	Ext Price
1. Herbs 8151-Report in mg/Kg, 4 file EQUIS EDD, dry weight correct data, report J flags down to MDL	NA	\$798.00	1	\$798.00

Order Total: \$798.00

PO includes MS/MSD cost

Login Sample Receipt Checklist

Client: ALS Group USA, Corp

Job Number: 410-145061-1

Login Number: 145061

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	





10450 Stancliff Rd. Suite 210
Houston, TX 77099
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October 06, 2023

Cecilia Anderson
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS23082015**

Laboratory Results for: **Preliminary Joliet Delisting**

Dear Cecilia Anderson,

ALS Environmental received 2 sample(s) on Aug 31, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,



Generated By: JUMOKE.LAWAL

Bernadette A. Fini
Project Manager

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23082015

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23082015-01	PTS-02-SL-20230830	Soil		30-Aug-2023 08:43	31-Aug-2023 09:50	<input type="checkbox"/>
HS23082015-02	TB-02-SL-20230830	Water	CG-071023 -560	30-Aug-2023 00:00	31-Aug-2023 09:50	<input type="checkbox"/>

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23082015

CASE NARRATIVE

Work Order Comments

- The analyses of SW8151 Herbicides was subcontracted to ALS Environmental in Kelso, WA. Final report attached.
- The analysis for Dioxins/Furans was subcontracted to our ALS Houston TX, High Resolution Lab. Final report attached

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

ECD Organics by Method SW8151A

Batch ID: 199922

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ECD Organics by Method SW8081

Batch ID: 199896

Sample ID: MBLK-199896

- CCV %D was above the control limits. The associated sample results are non detect. Endrin, DDD.
- Chlordane & Toxaphene LCS/LCSD provided as batch quality control

Sample ID: PTS-02-SL-20230830 (HS23082015-01)

- This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Batch ID: 199925

Sample ID: LCS-199925

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS/LCSD.

Sample ID: LCSD-199925

- LCS/LCSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

Sample ID: MBLK-199925

- CCV recovery was below method acceptance limits. Endrin and Methoxychlor-samples were analyzed twice

Sample ID: PTS-02-SL-20230830 (HS23082015-01MS)

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the MS.
- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference. Endrin

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23082015

CASE NARRATIVE

GCMS Semivolatiles by Method SW8270

Batch ID: 199915

Sample ID: HS23090048-01MS

- MS and MSD are for an unrelated sample

Sample ID: PTS-02-SL-20230830 (HS23082015-01)

- Surrogate recoveries were outside of the control limits due to matrix interference.
- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Batch ID: 199929

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: 199878

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R445435

Sample ID: HS23082020-01MS

- MS and MSD are for an unrelated sample

Batch ID: R445671

Sample ID: PTS-02-SL-20230830 (HS23082015-01)

- Lowest possible dilution due to matrix interference.

Metals by Method SW7470A

Batch ID: 200418

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7040

Batch ID: 200425,200426

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW1311/6020

Batch ID: 200238

Sample ID: HS23090397-01MS

- MS and MSD are for an unrelated sample

Batch ID: 200377,200379

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 06-Oct-23

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Work Order: HS23082015

CASE NARRATIVE

Metals by Method SW7471B

Batch ID: 200229

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 200211

Sample ID: HS23081991-01MS

- MS and MSD are for an unrelated sample

WetChemistry by Method SW7.3.4.2

Batch ID: R446461

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2

Batch ID: R446468

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9045D

Batch ID: R446071

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D2216

Batch ID: R446177

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D92-12b

Batch ID: R445611

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9014

Batch ID: 199962

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-02-SL-20230830
 Collection Date: 30-Aug-2023 08:43

ANALYTICAL REPORT

WorkOrder:HS23082015
 Lab ID:HS23082015-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method:SW8260		Leache:SW1311 / 02-Sep-2023	Prep:SW1311 / 02-Sep-2023		Analyst: FT
1,1-Dichloroethene	U		0.010	0.10	mg/L	20	05-Sep-2023 18:13
1,2-Dichloroethane	U		0.010	0.10	mg/L	20	05-Sep-2023 18:13
1,4-Dichlorobenzene	U		0.012	0.10	mg/L	20	05-Sep-2023 18:13
2-Butanone	U		0.020	0.20	mg/L	20	05-Sep-2023 18:13
Acetone	U		0.040	0.20	mg/L	20	05-Sep-2023 18:13
Benzene	U		0.012	0.10	mg/L	20	05-Sep-2023 18:13
Carbon tetrachloride	U		0.012	0.10	mg/L	20	05-Sep-2023 18:13
Chlorobenzene	U		0.0080	0.10	mg/L	20	05-Sep-2023 18:13
Chloroform	U		0.012	0.10	mg/L	20	05-Sep-2023 18:13
Ethyl methacrylate	U		0.020	0.10	mg/L	20	05-Sep-2023 18:13
Ethylbenzene	U		0.010	0.10	mg/L	20	05-Sep-2023 18:13
Tetrachloroethene	U		0.012	0.10	mg/L	20	05-Sep-2023 18:13
Toluene	U		0.010	0.10	mg/L	20	05-Sep-2023 18:13
Trichloroethene	U		0.010	0.10	mg/L	20	05-Sep-2023 18:13
Vinyl chloride	U		0.0080	0.040	mg/L	20	05-Sep-2023 18:13
Xylenes, Total	U		0.010	0.10	mg/L	20	05-Sep-2023 18:13
Surr: 1,2-Dichloroethane-d4	102			70-126	%REC	20	05-Sep-2023 18:13
Surr: 4-Bromofluorobenzene	97.1			82-124	%REC	20	05-Sep-2023 18:13
Surr: Dibromofluoromethane	99.4			77-123	%REC	20	05-Sep-2023 18:13
Surr: Toluene-d8	101			82-127	%REC	20	05-Sep-2023 18:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-02-SL-20230830
 Collection Date: 30-Aug-2023 08:43

ANALYTICAL REPORT
 WorkOrder: HS23082015
 Lab ID: HS23082015-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method: SW8260					Analyst: FT
1,1-Dichloroethene		U	0.12	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
1,2-Dichloroethane		U	0.15	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
1,4-Dichlorobenzene		U	0.24	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
2-Butanone		U	0.32	2.4	mg/Kg-dry	100	06-Sep-2023 14:29
Acetone		U	0.49	4.9	mg/Kg-dry	100	06-Sep-2023 14:29
Benzene		U	0.12	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Carbon tetrachloride		U	0.15	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Chlorobenzene		U	0.15	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Chloroform		U	0.12	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Ethyl methacrylate		U	0.24	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Ethylbenzene	0.17	J	0.17	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Tetrachloroethene		U	0.17	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Toluene	0.20	J	0.15	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Trichloroethene		U	0.15	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Vinyl chloride		U	0.19	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Xylenes, Total	1.0	J	0.24	1.2	mg/Kg-dry	100	06-Sep-2023 14:29
Surr: 1,2-Dichloroethane-d4	94.2			70-126	%REC	100	06-Sep-2023 14:29
Surr: 4-Bromofluorobenzene	95.5			70-130	%REC	100	06-Sep-2023 14:29
Surr: Dibromofluoromethane	94.3			70-130	%REC	100	06-Sep-2023 14:29
Surr: Toluene-d8	99.6			70-130	%REC	100	06-Sep-2023 14:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-02-SL-20230830
 Collection Date: 30-Aug-2023 08:43

ANALYTICAL REPORT

WorkOrder: HS23082015
 Lab ID: HS23082015-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES			Method: SW8270	Leache: SW1311 / 02-Sep-2023	Prep: SW3510 / 05-Sep-2023		Analyst: GEY
2,4,5-Trichlorophenol	U		0.00050	0.0050	mg/L	1	07-Sep-2023 01:45
2,4,6-Trichlorophenol	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
2,4-Dinitrotoluene	U		0.00030	0.0050	mg/L	1	07-Sep-2023 01:45
2-Methylnaphthalene	U		0.00050	0.0050	mg/L	1	07-Sep-2023 01:45
2-Methylphenol	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
3&4-Methylphenol	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
Acenaphthene	U		0.00030	0.0050	mg/L	1	07-Sep-2023 01:45
Anthracene	U		0.00030	0.0050	mg/L	1	07-Sep-2023 01:45
Benz(a)anthracene	U		0.00030	0.0050	mg/L	1	07-Sep-2023 01:45
Benzo(a)pyrene	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
Benzo(b)fluoranthene	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
Benzo(g,h,i)perylene	U		0.00030	0.0050	mg/L	1	07-Sep-2023 01:45
Benzo(k)fluoranthene	U		0.00070	0.0050	mg/L	1	07-Sep-2023 01:45
Bis(2-ethylhexyl)phthalate	U		0.00080	0.0050	mg/L	1	07-Sep-2023 01:45
Chrysene	U		0.00080	0.0050	mg/L	1	07-Sep-2023 01:45
Cresols, Total	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
Di-n-butyl phthalate	U		0.00080	0.0050	mg/L	1	07-Sep-2023 01:45
Fluorene	U		0.00050	0.0050	mg/L	1	07-Sep-2023 01:45
Hexachlorobenzene	U		0.00030	0.0050	mg/L	1	07-Sep-2023 01:45
Hexachlorobutadiene	U		0.00050	0.0050	mg/L	1	07-Sep-2023 01:45
Hexachloroethane	U		0.00080	0.0050	mg/L	1	07-Sep-2023 01:45
Naphthalene	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
Nitrobenzene	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
Pentachlorophenol	U		0.00080	0.0050	mg/L	1	07-Sep-2023 01:45
Phenanthrene	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
Phenol	U		0.00040	0.0050	mg/L	1	07-Sep-2023 01:45
Pyrene	U		0.00030	0.0050	mg/L	1	07-Sep-2023 01:45
Pyridine	U		0.00030	0.0050	mg/L	1	07-Sep-2023 01:45
<i>Surr: 2,4,6-Tribromophenol</i>		46.2		39-153	%REC	1	07-Sep-2023 01:45
<i>Surr: 2-Fluorobiphenyl</i>		79.2		40-147	%REC	1	07-Sep-2023 01:45
<i>Surr: 2-Fluorophenol</i>		58.0		21-110	%REC	1	07-Sep-2023 01:45
<i>Surr: 4-Terphenyl-d14</i>		80.0		39-141	%REC	1	07-Sep-2023 01:45
<i>Surr: Nitrobenzene-d5</i>		69.9		37-140	%REC	1	07-Sep-2023 01:45
<i>Surr: Phenol-d6</i>		52.9		11-110	%REC	1	07-Sep-2023 01:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-02-SL-20230830
 Collection Date: 30-Aug-2023 08:43

ANALYTICAL REPORT
 WorkOrder: HS23082015
 Lab ID: HS23082015-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 05-Sep-2023		Analyst: GEY
2,4,5-Trichlorophenol		U	0.38	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
2,4,6-Trichlorophenol		U	0.20	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
2,4-Dinitrotoluene		U	0.24	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
2-Methylnaphthalene	4.8		0.49	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
2-Methylphenol		U	0.24	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
3&4-Methylphenol	1.1	J	0.24	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Acenaphthene		U	0.27	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Anthracene	1.5	J	0.22	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Benz(a)anthracene	2.8	J	0.18	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Benzo(a)pyrene	1.4	J	0.22	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Benzo(b)fluoranthene		U	0.22	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Benzo(g,h,i)perylene		U	0.20	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Benzo(k)fluoranthene		U	0.27	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Bis(2-ethylhexyl)phthalate		U	0.24	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Chrysene	4.7		0.31	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Cresols, Total	1.1	J	0.24	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Di-n-butyl phthalate		U	0.22	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Fluorene		U	0.31	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Hexachlorobenzene		U	0.27	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Hexachlorobutadiene		U	0.26	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Hexachloroethane		U	0.20	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Naphthalene		U	0.24	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Nitrobenzene		U	0.26	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Pentachlorophenol		U	0.20	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Phenanthrene	4.8		0.26	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Phenol		U	0.20	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Pyrene	8.3		0.78	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
Pyridine		U	0.24	3.0	mg/Kg-dry	10	07-Sep-2023 05:21
<i>Surr: 2,4,6-Tribromophenol</i>	<i>61.3</i>			<i>36-126</i>	<i>%REC</i>	<i>10</i>	<i>07-Sep-2023 05:21</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>58.0</i>			<i>43-125</i>	<i>%REC</i>	<i>10</i>	<i>07-Sep-2023 05:21</i>
<i>Surr: 2-Fluorophenol</i>	<i>30.4</i>	<i>JS</i>		<i>37-125</i>	<i>%REC</i>	<i>10</i>	<i>07-Sep-2023 05:21</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>66.4</i>			<i>32-125</i>	<i>%REC</i>	<i>10</i>	<i>07-Sep-2023 05:21</i>
<i>Surr: Nitrobenzene-d5</i>	<i>45.3</i>	<i>J</i>		<i>37-125</i>	<i>%REC</i>	<i>10</i>	<i>07-Sep-2023 05:21</i>
<i>Surr: Phenol-d6</i>	<i>45.5</i>	<i>J</i>		<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>07-Sep-2023 05:21</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-02-SL-20230830
 Collection Date: 30-Aug-2023 08:43

ANALYTICAL REPORT
 WorkOrder: HS23082015
 Lab ID: HS23082015-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081		Leache: SW1311 / 02-Sep-2023	Prep: SW3510C / 05-Sep-2023		Analyst: DLB
4,4'-DDD	U		0.000020	0.00010	mg/L	1	12-Sep-2023 15:03
alpha-BHC	U		0.000010	0.000050	mg/L	1	12-Sep-2023 15:03
Chlordane	U		0.00010	0.00050	mg/L	1	12-Sep-2023 15:03
Endrin	U		0.000030	0.00010	mg/L	1	12-Sep-2023 15:03
gamma-BHC	U		0.000010	0.000050	mg/L	1	12-Sep-2023 15:03
Heptachlor	U		0.000010	0.000050	mg/L	1	12-Sep-2023 15:03
Heptachlor epoxide	U		0.000010	0.000050	mg/L	1	12-Sep-2023 15:03
Methoxychlor	U		0.00015	0.00050	mg/L	1	12-Sep-2023 15:03
Toxaphene	U		0.00019	0.00050	mg/L	1	12-Sep-2023 15:03
Surr: Decachlorobiphenyl		126		30-150	%REC	1	12-Sep-2023 15:03
Surr: Tetrachloro-m-xylene		60.9		30-150	%REC	1	12-Sep-2023 15:03
ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081			Prep: SW3541 / 05-Sep-2023		Analyst: DLB
4,4'-DDD	U		0.046	0.30	mg/Kg-dry	50	12-Sep-2023 13:13
alpha-BHC	U		0.027	0.15	mg/Kg-dry	50	12-Sep-2023 13:13
Chlordane	U		0.18	1.5	mg/Kg-dry	50	12-Sep-2023 13:13
Endrin	U		0.055	0.30	mg/Kg-dry	50	12-Sep-2023 13:13
gamma-BHC	U		0.018	0.15	mg/Kg-dry	50	12-Sep-2023 13:13
Heptachlor	U		0.027	0.15	mg/Kg-dry	50	12-Sep-2023 13:13
Heptachlor epoxide	U		0.027	0.15	mg/Kg-dry	50	12-Sep-2023 13:13
Methoxychlor	U		0.31	1.5	mg/Kg-dry	50	12-Sep-2023 13:13
Toxaphene	U		0.44	1.5	mg/Kg-dry	50	12-Sep-2023 13:13
Surr: Decachlorobiphenyl		95.5		59-144	%REC	50	12-Sep-2023 13:13
Surr: Tetrachloro-m-xylene		120		56.9-130	%REC	50	12-Sep-2023 13:13
TCLP HERBICIDES BY SW8151A		Method: SW8151A		Leache: SW1311 / 02-Sep-2023	Prep: SW8151A / 05-Sep-2023		Analyst: JBA
2,4,5-TP (Silvex)	U		0.000050	0.00020	mg/L	1	09-Sep-2023 09:37
2,4-D	U		0.000060	0.00020	mg/L	1	09-Sep-2023 09:37
Surr: DCAA		111		40-140	%REC	1	09-Sep-2023 09:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-02-SL-20230830
 Collection Date: 30-Aug-2023 08:43

ANALYTICAL REPORT
 WorkOrder: HS23082015
 Lab ID: HS23082015-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 02-Sep-2023	Prep: SW3010A / 12-Sep-2023		Analyst: JC
Antimony	0.0367	J	0.00400	0.0500	mg/L	1	12-Sep-2023 16:45
Arsenic	0.0138	J	0.00400	0.0500	mg/L	1	12-Sep-2023 16:45
Barium	0.515		0.0190	0.200	mg/L	1	12-Sep-2023 16:45
Beryllium	U		0.00200	0.0200	mg/L	1	12-Sep-2023 16:45
Cadmium	U		0.00200	0.0500	mg/L	1	12-Sep-2023 16:45
Chromium	0.00480	J	0.00400	0.0500	mg/L	1	12-Sep-2023 16:45
Cobalt	0.0298	J	0.00200	0.0500	mg/L	1	12-Sep-2023 16:45
Copper	U		0.0100	0.0200	mg/L	1	12-Sep-2023 16:45
Lead	U		0.00600	0.0500	mg/L	1	12-Sep-2023 16:45
Nickel	0.152		0.00600	0.0500	mg/L	1	12-Sep-2023 16:45
Selenium	0.0346	J	0.0110	0.0500	mg/L	1	12-Sep-2023 16:45
Silver	U		0.00200	0.0500	mg/L	1	12-Sep-2023 16:45
Tin	U		0.0150	0.0500	mg/L	1	12-Sep-2023 16:45
Vanadium	U		0.00600	0.0500	mg/L	1	12-Sep-2023 16:45
Zinc	1.76		0.0200	0.0500	mg/L	1	12-Sep-2023 16:45
EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 06-Sep-2023	Prep: SW3010A / 14-Sep-2023		Analyst: MSC
Antimony	0.0829		0.00400	0.0500	mg/L	1	16-Sep-2023 12:02
Arsenic	0.0107	J	0.00400	0.0500	mg/L	1	16-Sep-2023 12:02
Barium	U		0.0190	0.200	mg/L	1	16-Sep-2023 12:02
Beryllium	U		0.00200	0.0200	mg/L	1	16-Sep-2023 12:02
Cadmium	U		0.00200	0.0500	mg/L	1	16-Sep-2023 12:02
Chromium	0.00908	J	0.00400	0.0500	mg/L	1	16-Sep-2023 12:02
Cobalt	0.00488	J	0.00200	0.0500	mg/L	1	16-Sep-2023 12:02
Copper	U		0.0100	0.0200	mg/L	1	16-Sep-2023 12:02
Lead	U		0.00600	0.0500	mg/L	1	16-Sep-2023 12:02
Nickel	0.0194	J	0.00600	0.0500	mg/L	1	16-Sep-2023 12:02
Selenium	0.142		0.0110	0.0500	mg/L	1	16-Sep-2023 12:02
Silver	U		0.00200	0.0500	mg/L	1	16-Sep-2023 12:02
Tin	U		0.0150	0.0500	mg/L	1	16-Sep-2023 12:02
Vanadium	0.122		0.00600	0.0500	mg/L	1	16-Sep-2023 12:02
Zinc	0.0604		0.0200	0.0500	mg/L	1	16-Sep-2023 12:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-02-SL-20230830
 Collection Date: 30-Aug-2023 08:43

ANALYTICAL REPORT
 WorkOrder: HS23082015
 Lab ID: HS23082015-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 06-Sep-2023	Prep: SW3010A / 14-Sep-2023		Analyst: MSC
Antimony	0.0397	J	0.00400	0.0500	mg/L	1	16-Sep-2023 11:38
Arsenic		U	0.00400	0.0500	mg/L	1	16-Sep-2023 11:38
Barium	0.0888	J	0.0190	0.200	mg/L	1	16-Sep-2023 11:38
Beryllium		U	0.00200	0.0200	mg/L	1	16-Sep-2023 11:38
Cadmium		U	0.00200	0.0500	mg/L	1	16-Sep-2023 11:38
Chromium	0.00863	J	0.00400	0.0500	mg/L	1	16-Sep-2023 11:38
Cobalt	0.00453	J	0.00200	0.0500	mg/L	1	16-Sep-2023 11:38
Copper		U	0.0100	0.0200	mg/L	1	16-Sep-2023 11:38
Lead		U	0.00600	0.0500	mg/L	1	16-Sep-2023 11:38
Nickel	0.0220	J	0.00600	0.0500	mg/L	1	16-Sep-2023 11:38
Selenium	0.0162	J	0.0110	0.0500	mg/L	1	16-Sep-2023 11:38
Silver		U	0.00200	0.0500	mg/L	1	16-Sep-2023 11:38
Tin		U	0.0150	0.0500	mg/L	1	16-Sep-2023 11:38
Vanadium	0.0143	J	0.00600	0.0500	mg/L	1	16-Sep-2023 11:38
Zinc		U	0.0200	0.0500	mg/L	1	16-Sep-2023 11:38
METALS BY SW6020A		Method: SW6020A			Prep: SW3050B / 13-Sep-2023		Analyst: MSC
Antimony	10.3		0.113	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Arsenic	6.60		0.121	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Barium	141		0.0521	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Beryllium	0.143	J	0.0364	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Cadmium	0.406	J	0.0468	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Chromium	44.0		0.0399	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Cobalt	5.89		0.0260	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Copper	38.5		0.0659	0.347	mg/Kg-dry	1	13-Sep-2023 20:29
Lead	15.2		0.0226	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Nickel	72.4		0.0833	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Selenium	67.1		0.158	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Silver	0.174	J	0.0260	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Tin	6.93		0.111	1.74	mg/Kg-dry	1	13-Sep-2023 20:29
Vanadium	155		0.130	0.868	mg/Kg-dry	1	13-Sep-2023 20:29
Zinc	2,110		29.5	86.8	mg/Kg-dry	100	14-Sep-2023 11:52
TCLP MERCURY AT PH 10 BY SW7470A		Method: SW7040		Leache: SW1311 / 06-Sep-2023	Prep: SW7040 / 14-Sep-2023		Analyst: JS
Mercury	0.000124	J	0.0000400	0.000200	mg/L	1	14-Sep-2023 15:04
TCLP MERCURY AT PH 7 BY SW7470A		Method: SW7040		Leache: SW1311 / 06-Sep-2023	Prep: SW7040 / 14-Sep-2023		Analyst: JS
Mercury		U	0.0000400	0.000200	mg/L	1	14-Sep-2023 15:24
TCLP MERCURY BY SW7470A		Method: SW7470A		Leache: SW1311 / 02-Sep-2023	Prep: SW7470A / 14-Sep-2023		Analyst: JS
Mercury		U	0.0000300	0.000200	mg/L	1	14-Sep-2023 12:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-02-SL-20230830
 Collection Date: 30-Aug-2023 08:43

ANALYTICAL REPORT

WorkOrder:HS23082015
 Lab ID:HS23082015-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
MERCURY BY SW7471B		Method:SW7471B		Prep:SW7471B / 13-Sep-2023		Analyst: JS	
Mercury	3.16		0.00442	0.0313	mg/Kg-dry	5	13-Sep-2023 14:23
MOISTURE - ASTM D2216		Method:ASTM D2216				Analyst: MR	
Percent Moisture	45.6		0.0100	0.0100	wt%	1	12-Sep-2023 13:01
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B		Method:ASTM D92-12b				Analyst: MZD	
Flash Point	>212		50.0	50.0	°F	1	06-Sep-2023 12:05
REACTIVE CYANIDE		Method:SW7.3.3.2				Analyst: MZD	
Reactive Cyanide	U		100	100	mg/Kg	1	15-Sep-2023 12:40
REACTIVE SULFIDE		Method:SW7.3.4.2				Analyst: MZD	
Reactive Sulfide	U		100	100	mg/Kg	1	15-Sep-2023 12:30
CYANIDE BY SW-846 9014		Method:SW9014		Prep:SW9010C / 06-Sep-2023		Analyst: MZD	
Cyanide	U		0.520	3.47	mg/Kg-dry	1	07-Sep-2023 14:14
PH SOIL BY SW9045D		Method:SW9045D				Analyst: DW	
pH	7.44	H	0.100	0.100	pH Units	1	12-Sep-2023 13:00
Temp Deg C @pH	21.8	H	0	0	°C	1	12-Sep-2023 13:00
SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0			1	21-Sep-2023 15:40
SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES		Method:NA				Analyst: SUBK	
Subcontract Analysis	See Attached		0			1	06-Oct-2023 15:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: TB-02-SL-20230830
 Collection Date: 30-Aug-2023 00:00

ANALYTICAL REPORT

WorkOrder:HS23082015
 Lab ID:HS23082015-02
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED	
VOLATILES - SW8260C		Method:SW8260			Analyst: PC			
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	01-Sep-2023 13:20	
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	01-Sep-2023 13:20	
1,4-Dichlorobenzene	U		0.00060	0.0050	mg/L	1	01-Sep-2023 13:20	
2-Butanone	U		0.0010	0.010	mg/L	1	01-Sep-2023 13:20	
Acetone	U		0.0020	0.010	mg/L	1	01-Sep-2023 13:20	
Benzene	U		0.00060	0.0050	mg/L	1	01-Sep-2023 13:20	
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	01-Sep-2023 13:20	
Chlorobenzene	U		0.00040	0.0050	mg/L	1	01-Sep-2023 13:20	
Chloroform	U		0.00060	0.0050	mg/L	1	01-Sep-2023 13:20	
Ethyl methacrylate	U		0.00090	0.0050	mg/L	1	01-Sep-2023 13:20	
Ethylbenzene	U		0.00050	0.0050	mg/L	1	01-Sep-2023 13:20	
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	01-Sep-2023 13:20	
Toluene	U		0.00050	0.0050	mg/L	1	01-Sep-2023 13:20	
Trichloroethene	U		0.00050	0.0050	mg/L	1	01-Sep-2023 13:20	
Vinyl chloride	U		0.00040	0.0020	mg/L	1	01-Sep-2023 13:20	
Xylenes, Total	U		0.00050	0.015	mg/L	1	01-Sep-2023 13:20	
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>95.8</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>01-Sep-2023 13:20</i>	
<i>Surr: 4-Bromofluorobenzene</i>		<i>89.6</i>		<i>82-124</i>	<i>%REC</i>	<i>1</i>	<i>01-Sep-2023 13:20</i>	
<i>Surr: Dibromofluoromethane</i>		<i>99.7</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>01-Sep-2023 13:20</i>	
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>01-Sep-2023 13:20</i>	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Environmental Resources Mgmt.

Project: Preliminary Joliet Delisting

WorkOrder: HS23082015

Batch ID: 6323	Start Date: 06 Sep 2023 13:27	End Date: 06 Sep 2023 13:27
Method: VOLATILES BY SW8260C		

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS23082015-01	3	3.785 (g)	5 (mL)	1.32	TerraCore (5035A)

Batch ID: 199859	Start Date: 01 Sep 2023 15:00	End Date: 01 Sep 2023 15:00
Method: TCLP HERBICIDE EXTRACTION BY SW1311		Prep Code: 1311LO_HERB

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 199860	Start Date: 01 Sep 2023 15:00	End Date: 01 Sep 2023 15:00
Method: TCLP PESTICIDE EXTRACTION BY SW1311		Prep Code: 1311LO_PEST

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		150 (grams)	3000 (mL)	20	1-L WM glass, Neat

Batch ID: 199861	Start Date: 01 Sep 2023 15:00	End Date: 01 Sep 2023 15:00
Method: TCLP SEMIVOLATILE EXTRACTION BY SW1311		Prep Code: 1311LO_SV

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		150 (grams)	3000 (mL)	20	1-L WM glass, Neat

Batch ID: 199871	Start Date: 01 Sep 2023 15:00	End Date: 01 Sep 2023 15:00
Method: TCLP METALS EXTRACTION BY SW1311		Prep Code: 1311LM_EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		150 (grams)	3000 (mL)	20	1-L WM glass, Neat

Batch ID: 199872	Start Date: 01 Sep 2023 15:00	End Date: 01 Sep 2023 15:00
Method: TCLP MERCURY EXTRACTION BY SW1311		Prep Code: 1311LHG_EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		150 (grams)	3000 (mL)	20	1-L WM glass, Neat

Batch ID: 199878	Start Date: 01 Sep 2023 15:00	End Date: 01 Sep 2023 15:00
Method: TCLP VOLATILE ZERO HEADSPACE EXTRACTION BY SW1311		Prep Code: 1311ZHE_NR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 199896	Start Date: 05 Sep 2023 11:00	End Date: 05 Sep 2023 11:00
Method: PEST SOXHLET EXTRACTION		Prep Code: PESTPR_SOX

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		30.12 (g)	10 (mL)	0.332	8-oz glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.

Project: Preliminary Joliet Delisting

WorkOrder: HS23082015

Batch ID: 199915	Start Date: 05 Sep 2023 11:30	End Date: 05 Sep 2023 11:30
Method: SV SOXHLET EXTRACTION - SW3541		Prep Code: 3541_B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		30.25 (grams)	1 (mL)	0.03306	8-oz glass, Neat

Batch ID: 199922	Start Date: 05 Sep 2023 15:11	End Date: 05 Sep 2023 15:11
Method: HERBICIDE AQ SEP FUN EXTRACT-SW8151		Prep Code: 3510_H_1311

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat

Batch ID: 199925	Start Date: 05 Sep 2023 15:12	End Date: 05 Sep 2023 15:12
Method: PEST AQ SEP FUN EXTRACT-SW3510C		Prep Code: 3510_P_1311

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat

Batch ID: 199929	Start Date: 05 Sep 2023 15:13	End Date: 05 Sep 2023 15:13
Method: SV AQ SEP FUNNEL EXTRACTION - SW3510C		Prep Code: 3510_B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		1000 (mL)	1 (mL)	0.001	1-L WM glass, Neat

Batch ID: 199955	Start Date: 05 Sep 2023 15:00	End Date: 05 Sep 2023 15:00
Method: TCLP SAMPLE LEACH DI WATER		Prep Code: 1311DI LEACH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		25 (g)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 199956	Start Date: 05 Sep 2023 15:00	End Date: 05 Sep 2023 15:00
Method: TCLP WATER LEACH		Prep Code: 1311_WATER LEACH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		25 (g)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 199957	Start Date: 05 Sep 2023 15:00	End Date: 05 Sep 2023 15:00
Method: TCLP MERCURY EXTRACTION AT PH 10 BY SW1311		Prep Code: 1311LHG PH 10 EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 199958	Start Date: 05 Sep 2023 15:00	End Date: 05 Sep 2023 15:00
Method: TCLP MODIFIED METALS EXTRACTION AT PH 10 BY SW1311		Prep Code: 1311LM PH10 EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.

Project: Preliminary Joliet Delisting

WorkOrder: HS23082015

Batch ID: 199962	Start Date: 06 Sep 2023 08:30	End Date: 06 Sep 2023 08:30
Method: CYANIDE PREP - SW9010C	Prep Code: CN_TS_PR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		1.06 (grams)	50 (mL)	47.17	2-oz glass, Neat

Batch ID: 200211	Start Date: 13 Sep 2023 08:00	End Date: 13 Sep 2023 08:00
Method: METALS PREP - SOLIDS - SW3050B	Prep Code: 3050_I_LOW	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		0.5297 (g)	50 (mL)	94.39	2-oz glass, Neat

Batch ID: 200229	Start Date: 13 Sep 2023 08:30	End Date: 13 Sep 2023 08:30
Method: MERCURY PREP - SOLID - 7471B	Prep Code: HG_S_LOWPR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		0.5862 (grams)	40 (mL)	68.24	2-oz glass, Neat

Batch ID: 200238	Start Date: 12 Sep 2023 10:00	End Date: 12 Sep 2023 10:00
Method: TCLP LEACHATE DIGESTION BY SW3010A	Prep Code: 3010A_TCLP	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 200377	Start Date: 14 Sep 2023 10:00	End Date: 14 Sep 2023 10:00
Method: TCLP LEACHATE DIGESTION BY SW3010A	Prep Code: 3010A_TCLP_PH7	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 200379	Start Date: 14 Sep 2023 10:00	End Date: 14 Sep 2023 10:00
Method: TCLP LEACHATE DIGESTION BY SW3010A	Prep Code: 3010A_TCLP_PH10	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 200418	Start Date: 14 Sep 2023 08:00	End Date: 14 Sep 2023 08:00
Method: MERCURY TCLP PREP BY SW7470A	Prep Code: 1311_HGPR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		10 (mL)	10 (mL)	1	1-L WM glass, Neat

Batch ID: 200425	Start Date: 14 Sep 2023 08:00	End Date: 14 Sep 2023 08:00
Method: MERCURY TCLP PREP BY SW7470A	Prep Code: 1311_HGPR_PH10	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		40 (mL)	40 (mL)	1	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

Batch ID: 200426	Start Date: 14 Sep 2023 08:00	End Date: 14 Sep 2023 08:00
Method: MERCURY TCLP PREP BY SW7470A		Prep Code: 1311_HGPR_PH7

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23082015-01		40 (mL)	40 (mL)	1	1-L WM glass, Neat

Electronic Filing: Received, Clerk's Office 04/28/2025

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 199878 (0)		Test Name : TCLP VOLATILES BY SW8260C			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	02 Sep 2023 08:00	02 Sep 2023 08:00	05 Sep 2023 18:13	20
Batch ID: 199896 (0)		Test Name : ORGANOCHLORINE PESTICIDES BY SW8081B			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43		05 Sep 2023 11:00	12 Sep 2023 13:13	50
Batch ID: 199915 (1)		Test Name : SEMIVOLATILES			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43		05 Sep 2023 11:30	07 Sep 2023 05:21	10
Batch ID: 199922 (0)		Test Name : TCLP HERBICIDES BY SW8151A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	02 Sep 2023 08:00	05 Sep 2023 15:11	09 Sep 2023 09:37	1
Batch ID: 199925 (0)		Test Name : TCLP ORGANOCHLORINE PESTICIDES BY SW8081B			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	02 Sep 2023 08:00	05 Sep 2023 15:12	12 Sep 2023 15:03	1
Batch ID: 199929 (0)		Test Name : TCLP SEMIVOLATILES			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	02 Sep 2023 08:00	05 Sep 2023 15:13	07 Sep 2023 01:45	1
Batch ID: 199962 (0)		Test Name : CYANIDE BY SW-846 9014			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43		06 Sep 2023 08:30	07 Sep 2023 14:14	1
Batch ID: 200211 (0)		Test Name : METALS BY SW6020A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43		13 Sep 2023 08:00	14 Sep 2023 11:52	100
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43		13 Sep 2023 08:00	13 Sep 2023 20:29	1
Batch ID: 200229 (0)		Test Name : MERCURY BY SW7471B			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43		13 Sep 2023 08:30	13 Sep 2023 14:23	5
Batch ID: 200238 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	02 Sep 2023 08:00	12 Sep 2023 10:00	12 Sep 2023 16:45	1
Batch ID: 200377 (0)		Test Name : EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	06 Sep 2023 08:00	14 Sep 2023 10:00	16 Sep 2023 11:38	1
Batch ID: 200379 (0)		Test Name : EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	06 Sep 2023 08:00	14 Sep 2023 10:00	16 Sep 2023 12:02	1
Batch ID: 200418 (0)		Test Name : TCLP MERCURY BY SW7470A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	02 Sep 2023 08:00	14 Sep 2023 08:00	14 Sep 2023 12:47	1
Batch ID: 200425 (0)		Test Name : TCLP MERCURY AT PH 10 BY SW7470A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	06 Sep 2023 08:00	14 Sep 2023 08:00	14 Sep 2023 15:04	1
Batch ID: 200426 (0)		Test Name : TCLP MERCURY AT PH 7 BY SW7470A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43	06 Sep 2023 08:00	14 Sep 2023 08:00	14 Sep 2023 15:24	1
Batch ID: R445435 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS23082015-02	TB-02-SL-20230830	30 Aug 2023 00:00			01 Sep 2023 13:20	1
Batch ID: R445611 (0)		Test Name : FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43			06 Sep 2023 12:05	1

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DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R445671 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43			06 Sep 2023 14:29	100
Batch ID: R446071 (0)		Test Name : PH SOIL BY SW9045D			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43			12 Sep 2023 13:00	1
Batch ID: R446177 (0)		Test Name : MOISTURE - ASTM D2216			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43			12 Sep 2023 13:01	1
Batch ID: R446461 (0)		Test Name : REACTIVE SULFIDE			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43			15 Sep 2023 12:30	1
Batch ID: R446468 (0)		Test Name : REACTIVE CYANIDE			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43			15 Sep 2023 12:40	1
Batch ID: R447011 (0)		Test Name : SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43			21 Sep 2023 15:40	1
Batch ID: R448405 (0)		Test Name : SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES			Matrix: Soil	
HS23082015-01	PTS-02-SL-20230830	30 Aug 2023 08:43			06 Oct 2023 15:52	1

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Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199896 (0) **Instrument:** ECD_11 **Method:** ORGANOCHLORINE PESTICIDES BY SW8081B

MBLK		Sample ID: MBLK-199896		Units: mg/Kg		Analysis Date: 12-Sep-2023 02:34				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538395		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.0033								
alpha-BHC	U	0.0017								
Chlordane	U	0.017								
Endrin	U	0.0033								
gamma-BHC	U	0.0017								
Heptachlor	U	0.0017								
Heptachlor epoxide	U	0.0017								
Methoxychlor	U	0.017								
Toxaphene	U	0.017								
<i>Surr: Decachlorobiphenyl</i>	<i>0.0089</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>134</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0064</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>95.7</i>	<i>56.9 - 130</i>				

LCS		Sample ID: LCS-199896		Units: mg/Kg		Analysis Date: 12-Sep-2023 00:30				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538389		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.019	0.0033	0.01667	0	113	53 - 138				
alpha-BHC	0.0088	0.0017	0.008333	0	105	52 - 130				
Endrin	0.017	0.0033	0.01667	0	103	60 - 157				
gamma-BHC	0.0088	0.0017	0.008333	0	106	52 - 133				
Heptachlor	0.0087	0.0017	0.008333	0	105	54 - 134				
Heptachlor epoxide	0.0090	0.0017	0.008333	0	108	58 - 130				
Methoxychlor	0.079	0.017	0.0833	0	94.5	60 - 140				
<i>Surr: Decachlorobiphenyl</i>	<i>0.0093</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>139</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0062</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>92.6</i>	<i>56.9 - 130</i>				

LCS		Sample ID: LCS1-199896		Units: mg/Kg		Analysis Date: 12-Sep-2023 01:11				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538391		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlordane	0.096	0.017	0.0833	0	115	50 - 150				
<i>Surr: Decachlorobiphenyl</i>	<i>0.0082</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>123</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0070</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>104</i>	<i>56.9 - 130</i>				

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QC BATCH REPORT

Batch ID: 199896 (0) **Instrument:** ECD_11 **Method:** ORGANOCHLORINE PESTICIDES BY SW8081B

LCS		Sample ID: LCS2-199896		Units: mg/Kg		Analysis Date: 12-Sep-2023 01:53				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538393		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	0.087	0.017	0.0833	0	104	50 - 150				
<i>Surr: Decachlorobiphenyl</i>	<i>0.0088</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>132</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0075</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>113</i>	<i>56.9 - 130</i>				

LCSD		Sample ID: LCSD-199896		Units: mg/Kg		Analysis Date: 12-Sep-2023 00:51				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538390		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.018	0.0033	0.01667	0	109	53 - 138	0.01877	2.82	30	
alpha-BHC	0.0085	0.0017	0.008333	0	102	52 - 130	0.008786	2.91	30	
Endrin	0.017	0.0033	0.01667	0	103	60 - 157	0.01721	0.136	30	
gamma-BHC	0.0087	0.0017	0.008333	0	104	52 - 133	0.008846	2.18	30	
Heptachlor	0.0085	0.0017	0.008333	0	102	54 - 134	0.008710	2.6	30	
Heptachlor epoxide	0.0088	0.0017	0.008333	0	106	58 - 130	0.008974	1.76	30	
Methoxychlor	0.078	0.017	0.0833	0	93.4	60 - 140	0.07872	1.18	30	
<i>Surr: Decachlorobiphenyl</i>	<i>0.0087</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>131</i>	<i>59 - 144</i>	<i>0.009285</i>	<i>6.34</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0061</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>90.8</i>	<i>56.9 - 130</i>	<i>0.006173</i>	<i>1.92</i>	<i>30</i>	

LCSD		Sample ID: LCSD1-199896		Units: mg/Kg		Analysis Date: 12-Sep-2023 01:32				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538392		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlordane	0.096	0.017	0.0833	0	115	50 - 150	0.09590	0.326	30	
<i>Surr: Decachlorobiphenyl</i>	<i>0.0078</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>118</i>	<i>59 - 144</i>	<i>0.008233</i>	<i>4.98</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0059</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>89.2</i>	<i>56.9 - 130</i>	<i>0.006953</i>	<i>15.7</i>	<i>30</i>	

LCSD		Sample ID: LCSD2-199896		Units: mg/Kg		Analysis Date: 12-Sep-2023 02:13				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538394		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	0.095	0.017	0.0833	0	114	50 - 150	0.08656	8.93	30	
<i>Surr: Decachlorobiphenyl</i>	<i>0.0083</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>125</i>	<i>59 - 144</i>	<i>0.008793</i>	<i>5.6</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0070</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>104</i>	<i>56.9 - 130</i>	<i>0.007513</i>	<i>7.68</i>	<i>30</i>	

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Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199896 (0) **Instrument:** ECD_11 **Method:** ORGANOCHLORINE PESTICIDES BY SW8081B

MS		Sample ID: HS23090109-02MS		Units: mg/Kg		Analysis Date: 12-Sep-2023 06:22				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538398		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.017	0.0033	0.01663	0	101	53 - 138				
alpha-BHC	0.0080	0.0017	0.008314	0	95.8	52 - 130				
Endrin	0.022	0.0033	0.01663	0	134	60 - 157				
gamma-BHC	0.0081	0.0017	0.008314	0	97.2	52 - 133				
Heptachlor	0.0079	0.0017	0.008314	0	95.3	54 - 134				
Heptachlor epoxide	0.0076	0.0017	0.008314	0	91.3	58 - 130				
Methoxychlor	0.084	0.017	0.08311	0	102	60 - 140				
<i>Surr: Decachlorobiphenyl</i>	<i>0.0078</i>	<i>0</i>	<i>0.006651</i>	<i>0</i>	<i>118</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0056</i>	<i>0</i>	<i>0.006651</i>	<i>0</i>	<i>84.1</i>	<i>56.9 - 130</i>				

MSD		Sample ID: HS23090109-02MSD		Units: mg/Kg		Analysis Date: 12-Sep-2023 06:43				
Client ID:		Run ID: ECD_11_446091		SeqNo: 7538399		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.017	0.0033	0.01661	0	100	53 - 138	0.01685	1.47	30	
alpha-BHC	0.0075	0.0017	0.008303	0	90.8	52 - 130	0.007969	5.5	30	
Endrin	0.022	0.0033	0.01661	0	131	60 - 157	0.02231	2.48	30	
gamma-BHC	0.0074	0.0017	0.008303	0	89.6	52 - 133	0.008085	8.33	30	
Heptachlor	0.0076	0.0017	0.008303	0	91.4	54 - 134	0.007924	4.27	30	
Heptachlor epoxide	0.0079	0.0017	0.008303	0	95.6	58 - 130	0.007592	4.45	30	
Methoxychlor	0.083	0.017	0.083	0	99.6	60 - 140	0.08442	2.12	30	
<i>Surr: Decachlorobiphenyl</i>	<i>0.0071</i>	<i>0</i>	<i>0.006642</i>	<i>0</i>	<i>106</i>	<i>59 - 144</i>	<i>0.007820</i>	<i>10.2</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0053</i>	<i>0</i>	<i>0.006642</i>	<i>0</i>	<i>79.4</i>	<i>56.9 - 130</i>	<i>0.005593</i>	<i>5.86</i>	<i>30</i>	

The following samples were analyzed in this batch: HS23082015-01

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Date: 06-Oct-23

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Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199922 (0) **Instrument:** ECD_13 **Method:** TCLP HERBICIDES BY SW8151A

MBLK		Sample ID: MBLK-199922		Units: mg/L		Analysis Date: 09-Sep-2023 08:44				
Client ID:		Run ID: ECD_13_445922		SeqNo: 7534772		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	U	0.00020								
2,4-D	U	0.00020								
<i>Surr: DCAA</i>	<i>0.0060</i>	<i>0.00020</i>	<i>0.005</i>	<i>0</i>	<i>120</i>	<i>40 - 140</i>				

LCS		Sample ID: LCS-199922		Units: mg/L		Analysis Date: 09-Sep-2023 09:01				
Client ID:		Run ID: ECD_13_445922		SeqNo: 7534773		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	0.0018	0.00020	0.0025	0	73.9	40 - 140				
2,4-D	0.0015	0.00020	0.0025	0	60.3	20 - 125				
<i>Surr: DCAA</i>	<i>0.0041</i>	<i>0.00020</i>	<i>0.005</i>	<i>0</i>	<i>83.0</i>	<i>40 - 140</i>				

LCSD		Sample ID: LCSD-199922		Units: mg/L		Analysis Date: 09-Sep-2023 09:19				
Client ID:		Run ID: ECD_13_445922		SeqNo: 7534774		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	0.0019	0.00020	0.0025	0	74.5	40 - 140	0.001847	0.831	30	
2,4-D	0.0016	0.00020	0.0025	0	62.1	20 - 125	0.001507	2.95	30	
<i>Surr: DCAA</i>	<i>0.0043</i>	<i>0.00020</i>	<i>0.005</i>	<i>0</i>	<i>85.1</i>	<i>40 - 140</i>	<i>0.004149</i>	<i>2.49</i>	<i>30</i>	

MS		Sample ID: HS23082015-01MS		Units: mg/L		Analysis Date: 09-Sep-2023 09:54				
Client ID: PTS-02-SL-20230830		Run ID: ECD_13_445922		SeqNo: 7534776		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	0.0018	0.00020	0.0025	0	73.4	40 - 140				
2,4-D	0.0017	0.00020	0.0025	0	68.1	20 - 125				
<i>Surr: DCAA</i>	<i>0.0044</i>	<i>0.00020</i>	<i>0.005</i>	<i>0</i>	<i>88.0</i>	<i>40 - 140</i>				

The following samples were analyzed in this batch: HS23082015-01

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Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 199925 (0) **Instrument:** ECD_15 **Method:** TCLP ORGANOCHLORINE PESTICIDES BY SW8081B

MBLK		Sample ID: MBLK-199925		Units: mg/L		Analysis Date: 12-Sep-2023 12:47				
Client ID:		Run ID: ECD_15_446149		SeqNo: 7539861		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	U	0.00010								
alpha-BHC	U	0.000050								
Chlordane	U	0.00050								
Endrin	U	0.00010								
gamma-BHC	U	0.000050								
Heptachlor	U	0.000050								
Heptachlor epoxide	U	0.000050								
Methoxychlor	U	0.00050								
Toxaphene	U	0.00050								
<i>Surr: Decachlorobiphenyl</i>	<i>0.00024</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>122</i>	<i>30 - 150</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00016</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>79.4</i>	<i>30 - 150</i>				

LCS		Sample ID: LCS-199925		Units: mg/L		Analysis Date: 12-Sep-2023 07:04				
Client ID:		Run ID: ECD_15_446149		SeqNo: 7539859		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00041	0.00010	0.0005	0	81.7	40 - 140				
alpha-BHC	0.00021	0.000050	0.00025	0	84.8	50 - 150				
Endrin	0.00040	0.00010	0.0005	0	79.2	54 - 148				
gamma-BHC	0.00020	0.000050	0.00025	0	81.9	58 - 130				
Heptachlor	0.00019	0.000050	0.00025	0	76.3	40 - 140				
Heptachlor epoxide	0.00019	0.000050	0.00025	0	77.3	40 - 140				
<i>Surr: Decachlorobiphenyl</i>	<i>0.00023</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>115</i>	<i>30 - 150</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00015</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>75.9</i>	<i>30 - 150</i>				

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WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199925 (0)		Instrument: ECD_15		Method: TCLP ORGANOCHLORINE PESTICIDES BY SW8081B							
LCSD		Sample ID: LCSD-199925		Units: mg/L		Analysis Date: 12-Sep-2023 07:23					
Client ID:		Run ID: ECD_15_446149		SeqNo: 7539860		PrepDate: 05-Sep-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
4,4'-DDD	0.00058	0.00010	0.0005	0	115	40 - 140	0.0004086	34.1	20	R	
alpha-BHC	0.00029	0.000050	0.00025	0	116	50 - 150	0.0002120	31.1	20	R	
Endrin	0.00058	0.00010	0.0005	0	116	54 - 148	0.0003959	37.8	20	R	
gamma-BHC	0.00028	0.000050	0.00025	0	113	58 - 130	0.0002048	31.9	20	R	
Heptachlor	0.00026	0.000050	0.00025	0	104	40 - 140	0.0001908	30.5	20	R	
Heptachlor epoxide	0.00026	0.000050	0.00025	0	106	40 - 140	0.0001933	31	20	R	
Methoxychlor	0.0020	0.00050	0.0025	0	81.0	50 - 150	0.001470	31.8	20	R	
<i>Surr: Decachlorobiphenyl</i>	<i>0.00019</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>97.2</i>	<i>30 - 150</i>	<i>0.0002292</i>	<i>16.5</i>	<i>20</i>		
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00020</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>101</i>	<i>30 - 150</i>	<i>0.0001518</i>	<i>28.6</i>	<i>20</i>	R	

MS		Sample ID: HS23082015-01MS		Units: mg/L		Analysis Date: 12-Sep-2023 15:23					
Client ID: PTS-02-SL-20230830		Run ID: ECD_15_446149		SeqNo: 7539863		PrepDate: 05-Sep-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
4,4'-DDD	0.00062	0.00010	0.0005	0	125	40 - 140					
alpha-BHC	0.00032	0.000050	0.00025	0	129	50 - 150					
Endrin	0.00080	0.00010	0.0005	0	159	54 - 148				S	
gamma-BHC	0.00031	0.000050	0.00025	0	126	58 - 130					
Heptachlor	0.00031	0.000050	0.00025	0	123	40 - 140					
Heptachlor epoxide	0.00029	0.000050	0.00025	0	117	40 - 140					
Methoxychlor	0.0029	0.00050	0.0025	0	115	50 - 150					
<i>Surr: Decachlorobiphenyl</i>	<i>0.00027</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>134</i>	<i>30 - 150</i>					
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00022</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>111</i>	<i>30 - 150</i>					

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200211 (0) **Instrument:** ICPMS06 **Method:** METALS BY SW6020A

MBLK Sample ID: **MBLK-200211** Units: **mg/Kg** Analysis Date: **13-Sep-2023 20:08**
 Client ID: Run ID: **ICPMS06_446194** SeqNo: **7541886** PrepDate: **13-Sep-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Antimony	U	0.498								
Arsenic	U	0.498								
Barium	U	0.498								
Beryllium	U	0.498								
Cadmium	U	0.498								
Chromium	U	0.498								
Cobalt	U	0.498								
Copper	U	0.199								
Lead	U	0.498								
Nickel	U	0.498								
Selenium	U	0.498								
Silver	U	0.498								
Tin	0.9741	0.996								J
Vanadium	U	0.498								
Zinc	U	0.498								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200211 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A						
LCS	Sample ID: LCS-200211	Units: mg/Kg			Analysis Date: 13-Sep-2023 20:10					
Client ID:	Run ID: ICPMS06_446194	SeqNo: 7541887	PrepDate: 13-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	9.662	0.497	9.942	0	97.2	80 - 120				
Arsenic	10.42	0.497	9.942	0	105	80 - 120				
Barium	10.27	0.497	9.942	0	103	80 - 120				
Beryllium	9.818	0.497	9.942	0	98.8	80 - 120				
Cadmium	10.13	0.497	9.942	0	102	80 - 120				
Chromium	10.24	0.497	9.942	0	103	80 - 120				
Cobalt	10.46	0.497	9.942	0	105	80 - 120				
Copper	10.47	0.199	9.942	0	105	80 - 120				
Lead	10.08	0.497	9.942	0	101	80 - 120				
Nickel	10.54	0.497	9.942	0	106	80 - 120				
Selenium	10.53	0.497	9.942	0	106	80 - 120				
Silver	9.886	0.497	9.942	0	99.4	80 - 120				
Tin	11.13	0.994	9.942	0	112	80 - 120				
Vanadium	10.11	0.497	9.942	0	102	80 - 120				
Zinc	10.37	0.497	9.942	0	104	80 - 120				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200211 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A						
MS	Sample ID: HS23081991-01MS	Units: mg/Kg			Analysis Date: 13-Sep-2023 20:16					
Client ID:	Run ID: ICPMS06_446194	SeqNo: 7541890	PrepDate: 13-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	2.609	0.463	9.251	0.2337	25.7	75 - 125				S
Arsenic	18.18	0.463	9.251	9.059	98.6	75 - 125				
Barium	161.2	0.463	9.251	167.8	-71.7	75 - 125				SO
Beryllium	9.814	0.463	9.251	0.769	97.8	75 - 125				
Cadmium	9.358	0.463	9.251	-0.1397	103	75 - 125				
Chromium	28.78	0.463	9.251	16.83	129	75 - 125				S
Cobalt	21.11	0.463	9.251	15.92	56.2	75 - 125				S
Copper	21.79	0.185	9.251	13.18	93.1	75 - 125				
Lead	27.14	0.463	9.251	21.21	64.1	75 - 125				S
Nickel	23.79	0.463	9.251	14.9	96.1	75 - 125				
Selenium	10.05	0.463	9.251	1.217	95.5	75 - 125				
Silver	9.168	0.463	9.251	0.06299	98.4	75 - 125				
Tin	9.665	0.925	9.251	0.9731	94.0	75 - 125				
Vanadium	46.29	0.463	9.251	36.42	107	75 - 125				
Zinc	54.46	0.463	9.251	44.89	103	75 - 125				O

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200211 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A							
MSD		Sample ID: HS23081991-01MSD		Units: mg/Kg		Analysis Date: 13-Sep-2023 20:17					
Client ID:		Run ID: ICPMS06_446194		SeqNo: 7541891		PrepDate: 13-Sep-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	2.781	0.483	9.66	0.2337	26.4	75 - 125	2.609	6.37	20	S	
Arsenic	19.1	0.483	9.66	9.059	104	75 - 125	18.18	4.95	20		
Barium	154.2	0.483	9.66	167.8	-141	75 - 125	161.2	4.43	20	SO	
Beryllium	10.01	0.483	9.66	0.769	95.7	75 - 125	9.814	2.03	20		
Cadmium	9.694	0.483	9.66	-0.1397	102	75 - 125	9.358	3.53	20		
Chromium	29.04	0.483	9.66	16.83	126	75 - 125	28.78	0.904	20	S	
Cobalt	23.89	0.483	9.66	15.92	82.6	75 - 125	21.11	12.4	20		
Copper	22.39	0.193	9.66	13.18	95.3	75 - 125	21.79	2.7	20		
Lead	30.68	0.483	9.66	21.21	98.0	75 - 125	27.14	12.2	20		
Nickel	24.44	0.483	9.66	14.9	98.8	75 - 125	23.79	2.72	20		
Selenium	10.29	0.483	9.66	1.217	93.9	75 - 125	10.05	2.33	20		
Silver	9.568	0.483	9.66	0.06299	98.4	75 - 125	9.168	4.26	20		
Tin	9.997	0.966	9.66	0.9731	93.4	75 - 125	9.665	3.38	20		
Vanadium	46.81	0.483	9.66	36.42	108	75 - 125	46.29	1.12	20		
Zinc	59.64	0.483	9.66	44.89	153	75 - 125	54.46	9.09	20	SO	
PDS		Sample ID: HS23081991-01PDS		Units: mg/Kg		Analysis Date: 13-Sep-2023 20:19					
Client ID:		Run ID: ICPMS06_446194		SeqNo: 7541892		PrepDate: 13-Sep-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	10.04	0.479	9.588	0.2337	102	75 - 125					
Arsenic	19.47	0.479	9.588	9.059	109	75 - 125					
Beryllium	10.45	0.479	9.588	0.769	101	75 - 125					
Cadmium	9.72	0.479	9.588	-0.1397	103	75 - 125					
Chromium	26.32	0.479	9.588	16.83	99.0	75 - 125					
Cobalt	25.64	0.479	9.588	15.92	101	75 - 125					
Copper	22.81	0.192	9.588	13.18	100	75 - 125					
Lead	30.72	0.479	9.588	21.21	99.1	75 - 125					
Nickel	24.73	0.479	9.588	14.9	102	75 - 125					
Selenium	11.18	0.479	9.588	1.217	104	75 - 125					
Silver	9.141	0.479	9.588	0.06299	94.7	75 - 125					
Tin	11.35	0.959	9.588	0.9731	108	75 - 125					
Vanadium	45.74	0.479	9.588	36.42	97.1	75 - 125					
Zinc	53.95	0.479	9.588	44.89	94.4	75 - 125				O	

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200211 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A					
PDS	Sample ID: HS23081991-01PDS	Units: mg/Kg		Analysis Date: 14-Sep-2023 13:16					
Client ID:	Run ID: ICPMS07_446290	SeqNo: 7549897		PrepDate: 13-Sep-2023		DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Barium	373.4	9.59	191.8	149.8	117	75 - 125			
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SD	Sample ID: HS23081991-01SD	Units: mg/Kg		Analysis Date: 13-Sep-2023 20:14					
Client ID:	Run ID: ICPMS06_446194	SeqNo: 7541889		PrepDate: 13-Sep-2023		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Antimony	0.3491	2.40					0.2337	0	10 J
Arsenic	9.432	2.40					9.059	4.11	10
Beryllium	0.7418	2.40					0.769	0	10 J
Cadmium	U	2.40					-0.1397	0	10
Chromium	17.03	2.40					16.83	1.19	10
Cobalt	16.26	2.40					15.92	2.14	10
Copper	13.66	0.959					13.18	3.62	10
Lead	20.64	2.40					21.21	2.73	10
Nickel	15.54	2.40					14.9	4.32	10
Selenium	0.9706	2.40					1.217	0	10 J
Silver	U	2.40					0.06299	0	10
Tin	0.9551	4.79					0.9731	0	10 J
Vanadium	36.26	2.40					36.42	0.451	10
Zinc	46.8	2.40					44.89	4.25	10

SD	Sample ID: HS23081991-01SD	Units: mg/Kg		Analysis Date: 14-Sep-2023 13:13					
Client ID:	Run ID: ICPMS07_446290	SeqNo: 7549896		PrepDate: 13-Sep-2023		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Barium	155.1	47.9					149.8	3.55	10

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200229 (0)	Instrument: HG04	Method: MERCURY BY SW7471B
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MBLK	Sample ID: MBLK-200229	Units: mg/Kg	Analysis Date: 13-Sep-2023 14:00							
Client ID:	Run ID: HG04_446208	SeqNo: 7541615	PrepDate: 13-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury U 0.00332

LCS	Sample ID: LCS-200229	Units: mg/Kg	Analysis Date: 13-Sep-2023 14:02							
Client ID:	Run ID: HG04_446208	SeqNo: 7541616	PrepDate: 13-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.332 0.00332 0.3333 0 99.6 80 - 120

MS	Sample ID: HS23081991-01MS	Units: mg/Kg	Analysis Date: 13-Sep-2023 14:11							
Client ID:	Run ID: HG04_446208	SeqNo: 7541620	PrepDate: 13-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.376 0.00340 0.3411 0.03216 101 80 - 120

MSD	Sample ID: HS23081991-01MSD	Units: mg/Kg	Analysis Date: 13-Sep-2023 14:13							
Client ID:	Run ID: HG04_446208	SeqNo: 7541621	PrepDate: 13-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.386 0.00345 0.3456 0.03216 102 80 - 120 0.3759 2.58 20

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT2-200158	Units: mg/L			Analysis Date: 12-Sep-2023 16:08					
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538865	PrepDate: 12-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	0.01567	0.0500								J
Zinc	U	0.0500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A						
MBLK	Sample ID: MBLKT4-200021	Units: mg/L			Analysis Date: 12-Sep-2023 16:12					
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538867	PrepDate: 12-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	0.01952	0.0500								J
Zinc	U	0.0500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT5-200023	Units: mg/L		Analysis Date: 12-Sep-2023 16:14						
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538868	PrepDate: 12-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	0.02577	0.0500								J
Zinc	0.02427	0.0500								J

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A						
MBLK	Sample ID: MBLKT3-199871	Units: mg/L			Analysis Date: 12-Sep-2023 16:10					
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538866	PrepDate: 12-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	0.02021	0.0500								J
Zinc	U	0.0500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT1-200173	Units: mg/L	Analysis Date: 12-Sep-2023 16:06							
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538864	PrepDate: 12-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	0.01425	0.0500								J
Zinc	U	0.0500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A						
MBLK	Sample ID: MBLK-200238	Units: mg/L			Analysis Date: 12-Sep-2023 16:04					
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538863	PrepDate: 12-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Tin	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A						
LCS	Sample ID: LCS-200238	Units: mg/L			Analysis Date: 12-Sep-2023 16:16					
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538869	PrepDate: 12-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04876	0.00500	0.05	0	97.5	80 - 120				
Arsenic	0.05083	0.00500	0.05	0	102	80 - 120				
Barium	0.05086	0.0200	0.05	0	102	80 - 120				
Beryllium	0.04774	0.00200	0.05	0	95.5	80 - 120				
Cadmium	0.05145	0.00500	0.05	0	103	80 - 120				
Chromium	0.05107	0.00500	0.05	0	102	80 - 120				
Cobalt	0.05188	0.00500	0.05	0	104	80 - 120				
Copper	0.05216	0.00200	0.05	0	104	80 - 120				
Lead	0.04864	0.00500	0.05	0	97.3	80 - 120				
Nickel	0.0522	0.00500	0.05	0	104	80 - 120				
Selenium	0.04972	0.00500	0.05	0	99.4	80 - 120				
Silver	0.05034	0.00500	0.05	0	101	80 - 120				
Tin	0.09924	0.00500	0.1	0	99.2	80 - 120				
Vanadium	0.05217	0.00500	0.05	0	104	80 - 120				
Zinc	0.05322	0.00500	0.05	0	106	80 - 120				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A						
MS	Sample ID: HS23090397-01MS	Units: mg/L			Analysis Date: 12-Sep-2023 17:28					
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538979	PrepDate: 12-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5562	0.0500	0.5	0	111	80 - 120				
Arsenic	0.575	0.0500	0.5	0	115	80 - 120				
Barium	1.911	0.200	0.5	1.428	96.5	80 - 120				
Beryllium	0.5276	0.0200	0.5	0	106	80 - 120				
Cadmium	0.5769	0.0500	0.5	0	115	80 - 120				
Chromium	0.5731	0.0500	0.5	0	115	80 - 120				
Cobalt	0.5849	0.0500	0.5	0.00751	115	80 - 120				
Copper	0.5847	0.0200	0.5	0	117	80 - 120				
Lead	0.5735	0.0500	0.5	0.00729	113	80 - 120				
Nickel	0.5856	0.0500	0.5	0	117	80 - 120				
Selenium	0.5674	0.0500	0.5	0	113	80 - 120				
Silver	0.5569	0.0500	0.5	0	111	80 - 120				
Tin	0.9767	0.0500	1	0	97.7	80 - 120				
Vanadium	0.5625	0.0500	0.5	0	113	80 - 120				
Zinc	0.6388	0.0500	0.5	0	128	80 - 120				S

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A						
MSD	Sample ID: HS23090397-01MSD	Units: mg/L			Analysis Date: 12-Sep-2023 17:30					
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538980		PrepDate: 12-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.563	0.0500	0.5	0	113	80 - 120	0.6129	8.49	20	
Arsenic	0.5823	0.0500	0.5	0	116	80 - 120	0.647	10.5	20	
Barium	1.893	0.200	0.5	1.428	93.1	80 - 120	2.087	9.74	20	
Beryllium	0.5379	0.0200	0.5	0	108	80 - 120	0.6172	13.7	20	
Cadmium	0.5923	0.0500	0.5	0	118	80 - 120	0.6374	7.32	20	
Chromium	0.5789	0.0500	0.5	0	116	80 - 120	0.6381	9.73	20	
Cobalt	0.596	0.0500	0.5	0.00751	118	80 - 120	0.65	8.66	20	
Copper	0.5904	0.0200	0.5	0	118	80 - 120	0.6439	8.67	20	
Lead	0.5672	0.0500	0.5	0.00729	112	80 - 120	0.6303	10.5	20	
Nickel	0.5816	0.0500	0.5	0	116	80 - 120	0.6331	8.48	20	
Selenium	0.5734	0.0500	0.5	0	115	80 - 120	0.6294	9.31	20	
Silver	0.5522	0.0500	0.5	0	110	80 - 120	0.6097	9.88	20	
Tin	0.9771	0.0500	1	0	97.7	80 - 120	1.084	10.4	20	
Vanadium	0.5737	0.0500	0.5	0	115	80 - 120	0.6377	10.6	20	
Zinc	0.6594	0.0500	0.5	0	132	80 - 120	0.7052	6.71	20	S

PDS	Sample ID: HS23090397-01PDS	Units: mg/L			Analysis Date: 12-Sep-2023 16:29					
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538876		PrepDate: 12-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	1.027	0.0500	1	0	103	75 - 125				
Arsenic	1.11	0.0500	1	0	111	75 - 125				
Beryllium	1.041	0.0200	1	0	104	75 - 125				
Cadmium	1.116	0.0500	1	0	112	75 - 125				
Chromium	1.103	0.0500	1	0	110	75 - 125				
Cobalt	1.105	0.0500	1	0.00751	110	75 - 125				
Copper	1.1	0.0200	1	0	110	75 - 125				
Lead	1.095	0.0500	1	0.00729	109	75 - 125				
Nickel	1.086	0.0500	1	0	109	75 - 125				
Selenium	1.053	0.0500	1	0	105	75 - 125				
Silver	1.067	0.0500	1	0	107	75 - 125				
Vanadium	1.106	0.0500	1	0	111	75 - 125				
Zinc	1.116	0.0500	1	0	112	75 - 125				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200238 (0)		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A						
SD	Sample ID: HS23090397-01SD	Units: mg/L		Analysis Date: 12-Sep-2023 16:23						
Client ID:	Run ID: ICPMS06_446057	SeqNo: 7538873	PrepDate: 12-Sep-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Antimony	U	0.250					0.00041	0	10	
Arsenic	U	0.250					0.00225	0	10	
Barium	1.444	1.00					1.428	1.12	10	
Beryllium	U	0.100					0.0002	0	10	
Cadmium	U	0.250					0.00051	0	10	
Chromium	U	0.250					0.00281	0	10	
Cobalt	U	0.250					0.00751	0	10	
Copper	U	0.100					0.00529	0	10	
Lead	U	0.250					0.00729	0	10	
Nickel	U	0.250					0.00437	0	10	
Selenium	U	0.250					0.00141	0	10	
Silver	U	0.250					0.00013	0	10	
Tin	U	0.250					0.00267	0	10	
Vanadium	U	0.250					-0.01363	0	10	
Zinc	U	0.250					0.01067	0	10	

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200377 (0) **Instrument:** ICPMS06 **Method:** EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A

MBLK Sample ID: **MBLKT1-199955** Units: **mg/L** Analysis Date: **16-Sep-2023 11:36**
 Client ID: Run ID: **ICPMS06_446525** SeqNo: **7547227** PrepDate: **14-Sep-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Tin	U	0.00500								
Vanadium	U	0.00500								
Zinc	U	0.00500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200377 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
MBLK	Sample ID: MBLK-200377	Units: mg/L			Analysis Date: 16-Sep-2023 11:33					
Client ID:	Run ID: ICPMS06_446525	SeqNo: 7547225	PrepDate: 14-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Tin	U	0.00500								
Vanadium	0.001061	0.00500								J
Zinc	U	0.00500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200377 (0)		Instrument: ICPMS06			Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A					
LCS	Sample ID: LCS-200377	Units: mg/L			Analysis Date: 16-Sep-2023 11:35					
Client ID:	Run ID: ICPMS06_446525	SeqNo: 7547226		PrepDate: 14-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5028	0.0500	0.5	0	101	80 - 120				
Arsenic	0.5102	0.0500	0.5	0	102	80 - 120				
Barium	0.4917	0.200	0.5	0	98.3	80 - 120				
Beryllium	0.4779	0.0200	0.5	0	95.6	80 - 120				
Cadmium	0.501	0.0500	0.5	0	100	80 - 120				
Chromium	0.4962	0.0500	0.5	0	99.2	80 - 120				
Cobalt	0.5118	0.0500	0.5	0	102	80 - 120				
Copper	0.5108	0.0200	0.5	0	102	80 - 120				
Lead	0.4751	0.0500	0.5	0	95.0	80 - 120				
Nickel	0.5107	0.0500	0.5	0	102	80 - 120				
Selenium	0.5296	0.0500	0.5	0	106	80 - 120				
Silver	0.4879	0.0500	0.5	0	97.6	80 - 120				
Tin	0.9728	0.0500	1	0	97.3	80 - 120				
Vanadium	0.4966	0.0500	0.5	0	99.3	80 - 120				
Zinc	0.527	0.0500	0.5	0	105	80 - 120				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200377 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
MS	Sample ID: HS23082015-01MS	Units: mg/L			Analysis Date: 16-Sep-2023 11:42					
Client ID: PTS-02-SL-20230830	Run ID: ICPMS06_446525	SeqNo: 7547230	PrepDate: 14-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5662	0.0500	0.5	0.03969	105	80 - 120				
Arsenic	0.5376	0.0500	0.5	0	108	80 - 120				
Barium	0.6061	0.200	0.5	0.08884	103	80 - 120				
Beryllium	0.5114	0.0200	0.5	0	102	80 - 120				
Cadmium	0.5218	0.0500	0.5	0	104	80 - 120				
Chromium	0.5147	0.0500	0.5	0.00863	101	80 - 120				
Cobalt	0.5343	0.0500	0.5	0.00453	106	80 - 120				
Copper	0.5223	0.0200	0.5	0	104	80 - 120				
Lead	0.5066	0.0500	0.5	0	101	80 - 120				
Nickel	0.5516	0.0500	0.5	0.02202	106	80 - 120				
Selenium	0.5675	0.0500	0.5	0.01619	110	80 - 120				
Silver	0.5	0.0500	0.5	0	100	80 - 120				
Tin	1.025	0.0500	1	0	103	80 - 120				
Vanadium	0.5306	0.0500	0.5	0.01427	103	80 - 120				
Zinc	0.5812	0.0500	0.5	0	116	80 - 120				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200377 (0)		Instrument: ICPMS06			Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A					
MSD		Sample ID: HS23082015-01MSD			Units: mg/L		Analysis Date: 16-Sep-2023 11:44			
Client ID: PTS-02-SL-20230830		Run ID: ICPMS06_446525			SeqNo: 7547231		PrepDate: 14-Sep-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5734	0.0500	0.5	0.03969	107	80 - 120	0.5662	1.26	20	
Arsenic	0.5418	0.0500	0.5	0	108	80 - 120	0.5376	0.776	20	
Barium	0.5907	0.200	0.5	0.08884	100	80 - 120	0.6061	2.57	20	
Beryllium	0.5231	0.0200	0.5	0	105	80 - 120	0.5114	2.26	20	
Cadmium	0.5138	0.0500	0.5	0	103	80 - 120	0.5218	1.54	20	
Chromium	0.5149	0.0500	0.5	0.00863	101	80 - 120	0.5147	0.0408	20	
Cobalt	0.5299	0.0500	0.5	0.00453	105	80 - 120	0.5343	0.825	20	
Copper	0.5238	0.0200	0.5	0	105	80 - 120	0.5223	0.271	20	
Lead	0.4916	0.0500	0.5	0	98.3	80 - 120	0.5066	3.01	20	
Nickel	0.5506	0.0500	0.5	0.02202	106	80 - 120	0.5516	0.185	20	
Selenium	0.5762	0.0500	0.5	0.01619	112	80 - 120	0.5675	1.52	20	
Silver	0.4989	0.0500	0.5	0	99.8	80 - 120	0.5	0.218	20	
Tin	0.9968	0.0500	1	0	99.7	80 - 120	1.025	2.83	20	
Vanadium	0.524	0.0500	0.5	0.01427	102	80 - 120	0.5306	1.26	20	
Zinc	0.5496	0.0500	0.5	0	110	80 - 120	0.5812	5.59	20	

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200377 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
PDS		Sample ID: HS23082015-01PDS		Units: mg/L		Analysis Date: 16-Sep-2023 11:46				
Client ID: PTS-02-SL-20230830		Run ID: ICPMS06_446525		SeqNo: 7547232		PrepDate: 14-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	1.061	0.0500	1	0.03969	102	75 - 125				
Arsenic	1.067	0.0500	1	0.00283	106	75 - 125				
Barium	1.103	0.200	1	0.08884	101	75 - 125				
Beryllium	0.9934	0.0200	1	0.00017	99.3	75 - 125				
Cadmium	1.025	0.0500	1	-0.00013	102	75 - 125				
Chromium	1.021	0.0500	1	0.00863	101	75 - 125				
Cobalt	1.037	0.0500	1	0.00453	103	75 - 125				
Copper	1.034	0.0200	1	0.00088	103	75 - 125				
Lead	0.9762	0.0500	1	0.00004	97.6	75 - 125				
Nickel	1.058	0.0500	1	0.02202	104	75 - 125				
Selenium	1.132	0.0500	1	0.01619	112	75 - 125				
Silver	1.023	0.0500	1	0.00019	102	75 - 125				
Tin	1.132	0.0500	1	0.00207	113	75 - 125				
Vanadium	1.031	0.0500	1	0.01427	102	75 - 125				
Zinc	1.125	0.0500	1	0.01725	111	75 - 125				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200377 (0)		Instrument: ICPMS06		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
SD	Sample ID: HS23082015-01SD	Units: mg/L			Analysis Date: 16-Sep-2023 11:40					
Client ID: PTS-02-SL-20230830	Run ID: ICPMS06_446525	SeqNo: 7547229	PrepDate: 14-Sep-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual	
Antimony	0.0381	0.250					0.03969	0 10	J	
Arsenic	U	0.250					0.00283	0 10		
Barium	U	1.00					0.08884	0 10		
Beryllium	U	0.100					0.00017	0 10		
Cadmium	U	0.250					-0.00013	0 10		
Chromium	0.0472	0.250					0.00863	0 10	J	
Cobalt	0.01185	0.250					0.00453	0 10	J	
Copper	U	0.100					0.00088	0 10		
Lead	U	0.250					0.00004	0 10		
Nickel	U	0.250					0.02202	0 10		
Selenium	U	0.250					0.01619	0 10		
Silver	U	0.250					0.00019	0 10		
Tin	U	0.250					0.00207	0 10		
Vanadium	0.09105	0.250					0.01427	0 10	J	
Zinc	U	0.250					0.01725	0 10		

The following samples were analyzed in this batch: HS23082015-01

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Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200379 (0) **Instrument:** ICPMS06 **Method:** EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A

MBLK	Sample ID: MBLKT1-199958	Units: mg/L			Analysis Date: 16-Sep-2023 12:00					
Client ID:	Run ID: ICPMS06_446525	SeqNo: 7547303	PrepDate: 14-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	0.00657	0.0500								J
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Tin	U	0.0500								
Vanadium	U	0.0500								
Zinc	U	0.0500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200379 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
MBLK	Sample ID: MBLK-200379	Units: mg/L			Analysis Date: 16-Sep-2023 11:56					
Client ID:	Run ID: ICPMS06_446525	SeqNo: 7547301	PrepDate: 14-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	0.000693	0.00500								J
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Tin	U	0.00500								
Vanadium	0.000823	0.00500								J
Zinc	U	0.00500								

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200379 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
LCS	Sample ID: LCS-200379	Units: mg/L			Analysis Date: 16-Sep-2023 11:58					
Client ID:	Run ID: ICPMS06_446525	SeqNo: 7547302		PrepDate: 14-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	0.05144	0.00500	0.05	0	103	80 - 120				
Arsenic	0.05183	0.00500	0.05	0	104	80 - 120				
Barium	0.05084	0.0200	0.05	0	102	80 - 120				
Beryllium	0.04907	0.00200	0.05	0	98.1	80 - 120				
Cadmium	0.05195	0.00500	0.05	0	104	80 - 120				
Chromium	0.05105	0.00500	0.05	0	102	80 - 120				
Cobalt	0.05111	0.00500	0.05	0	102	80 - 120				
Copper	0.05257	0.00200	0.05	0	105	80 - 120				
Lead	0.04932	0.00500	0.05	0	98.6	80 - 120				
Nickel	0.05088	0.00500	0.05	0	102	80 - 120				
Selenium	0.05371	0.00500	0.05	0	107	80 - 120				
Silver	0.05106	0.00500	0.05	0	102	80 - 120				
Tin	0.101	0.00500	0.1	0	101	80 - 120				
Vanadium	0.05114	0.00500	0.05	0	102	80 - 120				
Zinc	0.05363	0.00500	0.05	0	107	80 - 120				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200379 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
MS	Sample ID: HS23082015-01MS	Units: mg/L			Analysis Date: 16-Sep-2023 12:06					
Client ID: PTS-02-SL-20230830	Run ID: ICPMS06_446525	SeqNo: 7547306	PrepDate: 14-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.6081	0.0500	0.5	0.08291	105	80 - 120				
Arsenic	0.5455	0.0500	0.5	0.01074	107	80 - 120				
Barium	0.5306	0.200	0.5	0.01381	103	80 - 120				
Beryllium	0.5115	0.0200	0.5	0.00039	102	80 - 120				
Cadmium	0.5235	0.0500	0.5	-0.00011	105	80 - 120				
Chromium	0.5146	0.0500	0.5	0.00908	101	80 - 120				
Cobalt	0.5321	0.0500	0.5	0.00488	105	80 - 120				
Copper	0.5258	0.0200	0.5	0.00437	104	80 - 120				
Lead	0.5252	0.0500	0.5	0.00026	105	80 - 120				
Nickel	0.5444	0.0500	0.5	0.01942	105	80 - 120				
Selenium	0.6853	0.0500	0.5	0.1421	109	80 - 120				
Silver	0.5006	0.0500	0.5	0.00018	100	80 - 120				
Tin	1.03	0.0500	1	0.00173	103	80 - 120				
Vanadium	0.6275	0.0500	0.5	0.1221	101	80 - 120				
Zinc	0.6046	0.0500	0.5	0.06038	109	80 - 120				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200379 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
MSD	Sample ID: HS23082015-01MSD	Units: mg/L			Analysis Date: 16-Sep-2023 12:08					
Client ID: PTS-02-SL-20230830	Run ID: ICPMS06_446525	SeqNo: 7547307	PrepDate: 14-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.6162	0.0500	0.5	0.08291	107	80 - 120	0.6081	1.32	20	
Arsenic	0.5505	0.0500	0.5	0.01074	108	80 - 120	0.5455	0.914	20	
Barium	0.5521	0.200	0.5	0.01381	108	80 - 120	0.5306	3.97	20	
Beryllium	0.5199	0.0200	0.5	0.00039	104	80 - 120	0.5115	1.63	20	
Cadmium	0.5468	0.0500	0.5	-0.00011	109	80 - 120	0.5235	4.35	20	
Chromium	0.5277	0.0500	0.5	0.00908	104	80 - 120	0.5146	2.51	20	
Cobalt	0.5408	0.0500	0.5	0.00488	107	80 - 120	0.5321	1.62	20	
Copper	0.539	0.0200	0.5	0.00437	107	80 - 120	0.5258	2.47	20	
Lead	0.5333	0.0500	0.5	0.00026	107	80 - 120	0.5252	1.53	20	
Nickel	0.5468	0.0500	0.5	0.01942	105	80 - 120	0.5444	0.431	20	
Selenium	0.693	0.0500	0.5	0.1421	110	80 - 120	0.6853	1.11	20	
Silver	0.519	0.0500	0.5	0.00018	104	80 - 120	0.5006	3.59	20	
Tin	1.07	0.0500	1	0.00173	107	80 - 120	1.03	3.77	20	
Vanadium	0.6385	0.0500	0.5	0.1221	103	80 - 120	0.6275	1.73	20	
Zinc	0.6047	0.0500	0.5	0.06038	109	80 - 120	0.6046	0.0198	20	

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200379 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
PDS		Sample ID: HS23082015-01PDS		Units: mg/L		Analysis Date: 16-Sep-2023 12:10				
Client ID: PTS-02-SL-20230830		Run ID: ICPMS06_446525		SeqNo: 7547308		PrepDate: 14-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	1.078	0.0500	1	0.08291	99.5	75 - 125				
Arsenic	1.055	0.0500	1	0.01074	104	75 - 125				
Barium	1.048	0.200	1	0.01381	103	75 - 125				
Beryllium	0.9906	0.0200	1	0.00039	99.0	75 - 125				
Cadmium	1.035	0.0500	1	-0.00011	104	75 - 125				
Chromium	1	0.0500	1	0.00908	99.1	75 - 125				
Cobalt	1.018	0.0500	1	0.00488	101	75 - 125				
Copper	1.027	0.0200	1	0.00437	102	75 - 125				
Lead	1.014	0.0500	1	0.00026	101	75 - 125				
Nickel	1.018	0.0500	1	0.01942	99.9	75 - 125				
Selenium	1.179	0.0500	1	0.1421	104	75 - 125				
Silver	1.032	0.0500	1	0.00018	103	75 - 125				
Tin	1.147	0.0500	1	0.00173	115	75 - 125				
Vanadium	1.119	0.0500	1	0.1221	99.7	75 - 125				
Zinc	1.132	0.0500	1	0.06038	107	75 - 125				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200379 (0)		Instrument: ICPMS06		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
SD	Sample ID: HS23082015-01SD	Units: mg/L		Analysis Date: 16-Sep-2023 12:04						
Client ID: PTS-02-SL-20230830	Run ID: ICPMS06_446525	SeqNo: 7547305		PrepDate: 14-Sep-2023		DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Antimony	0.08218	0.250					0.08291	0	10	J
Arsenic	U	0.250					0.01074	0	10	
Barium	U	1.00					0.01381	0	10	
Beryllium	U	0.100					0.00039	0	10	
Cadmium	U	0.250					-0.00011	0	10	
Chromium	0.04174	0.250					0.00908	0	10	J
Cobalt	U	0.250					0.00488	0	10	
Copper	U	0.100					0.00437	0	10	
Lead	U	0.250					0.00026	0	10	
Nickel	U	0.250					0.01942	0	10	
Selenium	0.1536	0.250					0.1421	0	10	J
Silver	U	0.250					0.00018	0	10	
Tin	U	0.250					0.00173	0	10	
Vanadium	0.2018	0.250					0.1221	0	10	J
Zinc	U	0.250					0.06038	0	10	

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200418 (0)	Instrument: HG04	Method: TCLP MERCURY BY SW7470A
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MBLK	Sample ID: MBLKT2-200326	Units: mg/L	Analysis Date: 14-Sep-2023 12:29							
Client ID:	Run ID: HG04_446366	SeqNo: 7544200	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT4-199872	Units: mg/L	Analysis Date: 14-Sep-2023 12:32							
Client ID:	Run ID: HG04_446366	SeqNo: 7544202	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT6-200156	Units: mg/L	Analysis Date: 14-Sep-2023 12:36							
Client ID:	Run ID: HG04_446366	SeqNo: 7544204	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT8-200239	Units: mg/L	Analysis Date: 14-Sep-2023 12:39							
Client ID:	Run ID: HG04_446366	SeqNo: 7544206	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT7-200157	Units: mg/L	Analysis Date: 14-Sep-2023 12:37							
Client ID:	Run ID: HG04_446366	SeqNo: 7544205	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT5-200020	Units: mg/L	Analysis Date: 14-Sep-2023 12:34							
Client ID:	Run ID: HG04_446366	SeqNo: 7544203	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200418 (0)	Instrument: HG04	Method: TCLP MERCURY BY SW7470A
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MBLK	Sample ID: MBLKT3-200022	Units: mg/L	Analysis Date: 14-Sep-2023 12:31							
Client ID:	Run ID: HG04_446366	SeqNo: 7544201	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT1-200236	Units: mg/L	Analysis Date: 14-Sep-2023 12:27							
Client ID:	Run ID: HG04_446366	SeqNo: 7544199	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLK-200418	Units: mg/L	Analysis Date: 14-Sep-2023 12:24							
Client ID:	Run ID: HG04_446366	SeqNo: 7544197	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

LCS	Sample ID: LCS-200418	Units: mg/L	Analysis Date: 14-Sep-2023 12:25							
Client ID:	Run ID: HG04_446366	SeqNo: 7544198	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00491 0.000200 0.005 0 98.2 80 - 120

MS	Sample ID: HS23090396-04MS	Units: mg/L	Analysis Date: 14-Sep-2023 13:02							
Client ID:	Run ID: HG04_446366	SeqNo: 7544165	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00486 0.000200 0.005 0.000001 97.2 75 - 125

MSD	Sample ID: HS23090396-04MSD	Units: mg/L	Analysis Date: 14-Sep-2023 13:07							
Client ID:	Run ID: HG04_446366	SeqNo: 7544166	PrepDate: 14-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00498 0.000200 0.005 0.000001 99.6 75 - 125 0.00486 2.44 20

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200425 (0)		Instrument: HG04		Method: TCLP MERCURY AT PH 10 BY SW7470A						
MBLK	Sample ID: MBLKT1-199957	Units: mg/L			Analysis Date: 14-Sep-2023 15:02					
Client ID:		Run ID: HG04_446366		SeqNo: 7544489	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Mercury	U	0.000200								
MBLK	Sample ID: MBLK-200425	Units: mg/L			Analysis Date: 14-Sep-2023 14:56					
Client ID:		Run ID: HG04_446366		SeqNo: 7544487	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Mercury	U	0.000200								
LCS	Sample ID: LCS-200425	Units: mg/L			Analysis Date: 14-Sep-2023 15:00					
Client ID:		Run ID: HG04_446366		SeqNo: 7544488	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Mercury	0.00476	0.000200	0.005	0	95.2	80 - 124				
MS	Sample ID: HS23082015-01MS	Units: mg/L			Analysis Date: 14-Sep-2023 15:07					
Client ID: PTS-02-SL-20230830		Run ID: HG04_446366		SeqNo: 7544491	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Mercury	0.00499	0.000200	0.005	0.000124	97.3	80 - 124				
MSD	Sample ID: HS23082015-01MSD	Units: mg/L			Analysis Date: 14-Sep-2023 15:11					
Client ID: PTS-02-SL-20230830		Run ID: HG04_446366		SeqNo: 7544492	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Mercury	0.00518	0.000200	0.005	0.000124	101	80 - 124	0.00499	3.74	20	

The following samples were analyzed in this batch:

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 200426 (0) **Instrument:** HG04 **Method:** TCLP MERCURY AT PH 7 BY SW7470A

MBLK	Sample ID: MBLKT1-199955	Units: mg/L			Analysis Date: 14-Sep-2023 15:22				
Client ID:		Run ID: HG04_446366	SeqNo: 7544495	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Mercury U 0.000200

MBLK	Sample ID: MBLK-200426	Units: mg/L			Analysis Date: 14-Sep-2023 15:13				
Client ID:		Run ID: HG04_446366	SeqNo: 7544493	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Mercury U 0.000200

LCS	Sample ID: LCS-200426	Units: mg/L			Analysis Date: 14-Sep-2023 15:21				
Client ID:		Run ID: HG04_446366	SeqNo: 7544494	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Mercury 0.00489 0.000200 0.005 0 97.8 80 - 124

MS	Sample ID: HS23082015-01MS	Units: mg/L			Analysis Date: 14-Sep-2023 15:26				
Client ID: PTS-02-SL-20230830		Run ID: HG04_446366	SeqNo: 7544497	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Mercury 0.00525 0.000200 0.005 -0.000006 105 80 - 124

MSD	Sample ID: HS23082015-01MSD	Units: mg/L			Analysis Date: 14-Sep-2023 15:27				
Client ID: PTS-02-SL-20230830		Run ID: HG04_446366	SeqNo: 7544498	PrepDate: 14-Sep-2023	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Mercury 0.00531 0.000200 0.005 -0.000006 106 80 - 124 0.00525 1.14 20

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199915 (1)		Instrument: SV-4		Method: SEMIVOLATILES						
MBLK	Sample ID: MBLK-199915	Units: mg/Kg			Analysis Date: 05-Sep-2023 15:12					
Client ID:	Run ID: SV-4_445500	SeqNo: 7548555		PrepDate: 05-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	0.17								
2,4,6-Trichlorophenol	U	0.17								
2,4-Dinitrotoluene	U	0.17								
2-Methylnaphthalene	U	0.17								
2-Methylphenol	U	0.17								
3&4-Methylphenol	U	0.17								
Acenaphthene	U	0.17								
Anthracene	U	0.17								
Benz(a)anthracene	U	0.17								
Benzo(a)pyrene	U	0.17								
Benzo(b)fluoranthene	U	0.17								
Benzo(g,h,i)perylene	U	0.17								
Benzo(k)fluoranthene	U	0.17								
Bis(2-ethylhexyl)phthalate	U	0.17								
Chrysene	U	0.17								
Di-n-butyl phthalate	U	0.17								
Fluorene	U	0.17								
Hexachlorobenzene	U	0.17								
Hexachlorobutadiene	U	0.17								
Hexachloroethane	U	0.17								
Naphthalene	U	0.17								
Nitrobenzene	U	0.17								
Pentachlorophenol	U	0.17								
Phenanthrene	U	0.17								
Phenol	U	0.17								
Pyrene	U	0.17								
Pyridine	U	0.17								
Cresols, Total	U	0.17								
<i>Surr: 2,4,6-Tribromophenol</i>	2.6	0.17	3.333	0	79.0	36 - 126				
<i>Surr: 2-Fluorobiphenyl</i>	2.4	0.17	3.333	0	72.7	43 - 125				
<i>Surr: 2-Fluorophenol</i>	1.9	0.17	3.333	0	56.3	37 - 125				
<i>Surr: 4-Terphenyl-d14</i>	2.6	0.17	3.333	0	78.0	32 - 125				
<i>Surr: Nitrobenzene-d5</i>	2.2	0.17	3.333	0	65.5	37 - 125				
<i>Surr: Phenol-d6</i>	2.2	0.17	3.333	0	64.6	40 - 125				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199915 (1)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-199915	Units: mg/Kg			Analysis Date: 05-Sep-2023 15:34					
Client ID:	Run ID: SV-4_445500	SeqNo: 7548556		PrepDate: 05-Sep-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	2.2	0.17	3.333	0	66.8	55 - 120				
2,4,6-Trichlorophenol	2.1	0.17	3.333	0	63.6	55 - 120				
2,4-Dinitrotoluene	0.98	0.17	1.667	0	58.8	55 - 125				
2-Methylnaphthalene	1.0	0.17	1.667	0	61.1	55 - 120				
2-Methylphenol	2.2	0.17	3.333	0	67.5	55 - 120				
3&4-Methylphenol	3.4	0.17	5	0	67.8	55 - 120				
Acenaphthene	1.1	0.17	1.667	0	63.3	55 - 120				
Anthracene	1.1	0.17	1.667	0	66.5	55 - 120				
Benz(a)anthracene	1.1	0.17	1.667	0	63.4	55 - 125				
Benzo(a)pyrene	1.2	0.17	1.667	0	69.3	55 - 120				
Benzo(b)fluoranthene	0.99	0.17	1.667	0	59.2	55 - 125				
Benzo(g,h,i)perylene	1.1	0.17	1.667	0	65.6	55 - 120				
Benzo(k)fluoranthene	1.2	0.17	1.667	0	73.0	55 - 130				
Bis(2-ethylhexyl)phthalate	1.1	0.17	1.667	0	64.3	55 - 125				
Chrysene	1.1	0.17	1.667	0	65.6	55 - 125				
Di-n-butyl phthalate	1.1	0.17	1.667	0	64.3	55 - 125				
Fluorene	1.1	0.17	1.667	0	64.6	55 - 120				
Hexachlorobenzene	1.2	0.17	1.667	0	71.0	55 - 120				
Hexachlorobutadiene	1.1	0.17	1.667	0	63.5	55 - 120				
Hexachloroethane	0.95	0.17	1.667	0	56.9	55 - 120				
Naphthalene	1.0	0.17	1.667	0	62.3	55 - 120				
Nitrobenzene	0.96	0.17	1.667	0	57.6	55 - 120				
Pentachlorophenol	2.4	0.17	3.333	0	72.6	50 - 135				
Phenanthrene	1.1	0.17	1.667	0	64.9	55 - 120				
Phenol	2.0	0.17	3.333	0	61.1	50 - 120				
Pyrene	1.1	0.17	1.667	0	64.0	55 - 125				
Pyridine	1.4	0.17	1.667	0	83.9	30 - 120				
Cresols, Total	5.6	0.17	8.333	0	67.7	55 - 120				
<i>Surr: 2,4,6-Tribromophenol</i>	2.2	0.17	3.333	0	65.0	36 - 126				
<i>Surr: 2-Fluorobiphenyl</i>	2.4	0.17	3.333	0	71.9	43 - 125				
<i>Surr: 2-Fluorophenol</i>	2.0	0.17	3.333	0	61.0	37 - 125				
<i>Surr: 4-Terphenyl-d14</i>	2.3	0.17	3.333	0	70.4	32 - 125				
<i>Surr: Nitrobenzene-d5</i>	2.0	0.17	3.333	0	60.6	37 - 125				
<i>Surr: Phenol-d6</i>	2.4	0.17	3.333	0	70.8	40 - 125				

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Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199915 (1)		Instrument: SV-4		Method: SEMIVOLATILES						
MS	Sample ID: HS23090048-01MS	Units: mg/Kg			Analysis Date: 07-Sep-2023 04:16					
Client ID:	Run ID: SV-4_445697	SeqNo: 7548606	PrepDate: 05-Sep-2023	DF: 10						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	1.7	1.7	3.304	0	52.3	55 - 120				S
2,4,6-Trichlorophenol	1.7	1.7	3.304	0	51.2	55 - 120				S
2,4-Dinitrotoluene	1.1	1.7	1.653	0	64.0	55 - 125				J
2-Methylnaphthalene	1.2	1.7	1.653	0	69.6	55 - 120				J
2-Methylphenol	2.0	1.7	3.304	0	60.4	55 - 120				
3&4-Methylphenol	3.1	1.7	4.957	0	62.2	55 - 120				
Acenaphthene	1.1	1.7	1.653	0	63.6	55 - 120				J
Anthracene	1.1	1.7	1.653	0	65.3	55 - 120				J
Benz(a)anthracene	1.1	1.7	1.653	0	68.8	55 - 125				J
Benzo(a)pyrene	1.2	1.7	1.653	0	70.6	55 - 120				J
Benzo(b)fluoranthene	1.0	1.7	1.653	0	60.9	55 - 125				J
Benzo(g,h,i)perylene	1.1	1.7	1.653	0	67.6	55 - 120				J
Benzo(k)fluoranthene	1.1	1.7	1.653	0	68.9	55 - 130				J
Bis(2-ethylhexyl)phthalate	1.2	1.7	1.653	0	69.6	55 - 125				J
Chrysene	1.2	1.7	1.653	0	70.6	55 - 125				J
Di-n-butyl phthalate	1.1	1.7	1.653	0	67.8	55 - 125				J
Fluorene	1.1	1.7	1.653	0	67.1	55 - 120				J
Hexachlorobenzene	1.2	1.7	1.653	0	70.9	55 - 120				J
Hexachlorobutadiene	1.1	1.7	1.653	0	64.0	55 - 120				J
Hexachloroethane	0.96	1.7	1.653	0	57.8	55 - 120				J
Naphthalene	1.1	1.7	1.653	0	64.1	55 - 120				J
Nitrobenzene	0.98	1.7	1.653	0	59.6	55 - 120				J
Pentachlorophenol	1.2	1.7	3.304	0	37.2	50 - 135				JS
Phenanthrene	1.1	1.7	1.653	0	66.5	55 - 120				J
Phenol	1.9	1.7	3.304	0	57.8	50 - 120				
Pyrene	1.1	1.7	1.653	0	63.7	55 - 125				J
Pyridine	0.85	1.7	1.653	0	51.4	30 - 120				J
Cresols, Total	5.1	1.7	8.261	0	61.5	55 - 120				
<i>Surr: 2,4,6-Tribromophenol</i>	2.1	1.7	3.304	0	63.0	36 - 126				
<i>Surr: 2-Fluorobiphenyl</i>	2.4	1.7	3.304	0	73.6	43 - 125				
<i>Surr: 2-Fluorophenol</i>	1.9	1.7	3.304	0	58.1	37 - 125				
<i>Surr: 4-Terphenyl-d14</i>	2.5	1.7	3.304	0	76.2	32 - 125				
<i>Surr: Nitrobenzene-d5</i>	2.1	1.7	3.304	0	62.1	37 - 125				
<i>Surr: Phenol-d6</i>	1.9	1.7	3.304	0	58.9	40 - 125				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199915 (1)		Instrument: SV-4		Method: SEMIVOLATILES						
MSD	Sample ID: HS23090048-01MSD	Units: mg/Kg			Analysis Date: 07-Sep-2023 04:38					
Client ID:	Run ID: SV-4_445697	SeqNo: 7548607	PrepDate: 05-Sep-2023	DF: 10						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	2.1	1.7	3.303	0	63.6	55 - 120	1.730	19.4	30	
2,4,6-Trichlorophenol	1.9	1.7	3.303	0	58.4	55 - 120	1.692	13.2	30	
2,4-Dinitrotoluene	1.0	1.7	1.652	0	62.5	55 - 125	1.058	0	30	J
2-Methylnaphthalene	1.1	1.7	1.652	0	68.8	55 - 120	0	0	30	J
2-Methylphenol	2.2	1.7	3.303	0	65.4	55 - 120	1.996	7.99	30	
3&4-Methylphenol	3.3	1.7	4.955	0	66.7	55 - 120	3.085	6.87	30	
Acenaphthene	1.1	1.7	1.652	0	67.2	55 - 120	1.052	0	30	J
Anthracene	1.1	1.7	1.652	0	68.5	55 - 120	1.079	0	30	J
Benz(a)anthracene	1.2	1.7	1.652	0	71.2	55 - 125	1.138	0	30	J
Benzo(a)pyrene	1.2	1.7	1.652	0	72.9	55 - 120	1.166	0	30	J
Benzo(b)fluoranthene	0.99	1.7	1.652	0	59.9	55 - 125	1.006	0	30	J
Benzo(g,h,i)perylene	1.2	1.7	1.652	0	72.4	55 - 120	1.117	0	30	J
Benzo(k)fluoranthene	1.2	1.7	1.652	0	70.5	55 - 130	1.138	0	30	J
Bis(2-ethylhexyl)phthalate	1.1	1.7	1.652	0	66.6	55 - 125	1.150	0	30	J
Chrysene	1.2	1.7	1.652	0	71.1	55 - 125	1.167	0	30	J
Di-n-butyl phthalate	1.1	1.7	1.652	0	66.6	55 - 125	1.121	0	30	J
Fluorene	1.1	1.7	1.652	0	65.1	55 - 120	1.109	0	30	J
Hexachlorobenzene	1.2	1.7	1.652	0	73.9	55 - 120	1.172	0	30	J
Hexachlorobutadiene	1.1	1.7	1.652	0	64.5	55 - 120	1.058	0	30	J
Hexachloroethane	0.96	1.7	1.652	0	57.9	55 - 120	0.9555	0	30	J
Naphthalene	1.1	1.7	1.652	0	63.6	55 - 120	1.060	0	30	J
Nitrobenzene	1.0	1.7	1.652	0	62.1	55 - 120	0.9842	0	30	J
Pentachlorophenol	1.5	1.7	3.303	0	46.2	50 - 135	1.230	0	30	JS
Phenanthrene	1.1	1.7	1.652	0	67.3	55 - 120	1.098	0	30	J
Phenol	2.1	1.7	3.303	0	62.1	50 - 120	1.911	7.08	30	
Pyrene	1.0	1.7	1.652	0	62.5	55 - 125	1.053	0	30	J
Pyridine	0.79	1.7	1.652	0	47.8	30 - 120	0.8487	0	30	J
Cresols, Total	5.5	1.7	8.259	0	66.2	55 - 120	5.081	7.31	30	
Surr: 2,4,6-Tribromophenol	2.2	1.7	3.303	0	65.1	36 - 126	2.083	3.21	30	
Surr: 2-Fluorobiphenyl	2.5	1.7	3.303	0	77.0	43 - 125	2.433	4.48	30	
Surr: 2-Fluorophenol	1.9	1.7	3.303	0	59.0	37 - 125	1.920	1.49	30	
Surr: 4-Terphenyl-d14	2.4	1.7	3.303	0	72.1	32 - 125	2.518	5.49	30	
Surr: Nitrobenzene-d5	2.1	1.7	3.303	0	64.6	37 - 125	2.051	3.96	30	
Surr: Phenol-d6	2.3	1.7	3.303	0	68.2	40 - 125	1.945	14.7	30	

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Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199915 (1) **Instrument:** SV-4 **Method:** SEMIVOLATILES

The following samples were analyzed in this batch:

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199929 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MBLK	Sample ID: MBLK-199929	Units: mg/L			Analysis Date: 05-Sep-2023 15:55					
Client ID:	Run ID: SV-4_445500	SeqNo: 7548540	PrepDate: 05-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	0.0050								
2,4,6-Trichlorophenol	U	0.0050								
2,4-Dinitrotoluene	U	0.0050								
2-Methylnaphthalene	U	0.0050								
2-Methylphenol	U	0.0050								
3&4-Methylphenol	U	0.0050								
Acenaphthene	U	0.0050								
Anthracene	U	0.0050								
Benz(a)anthracene	U	0.0050								
Benzo(a)pyrene	U	0.0050								
Benzo(b)fluoranthene	U	0.0050								
Benzo(g,h,i)perylene	U	0.0050								
Benzo(k)fluoranthene	U	0.0050								
Bis(2-ethylhexyl)phthalate	U	0.0050								
Chrysene	U	0.0050								
Di-n-butyl phthalate	U	0.0050								
Fluorene	U	0.0050								
Hexachlorobenzene	U	0.0050								
Hexachlorobutadiene	U	0.0050								
Hexachloroethane	U	0.0050								
Naphthalene	U	0.0050								
Nitrobenzene	U	0.0050								
Pentachlorophenol	U	0.0050								
Phenanthrene	U	0.0050								
Phenol	U	0.0050								
Pyrene	U	0.0050								
Pyridine	U	0.0050								
Cresols, Total	U	0.0050								
Surr: 2,4,6-Tribromophenol	0.077	0.0050	0.1	0	77.3	39 - 153				
Surr: 2-Fluorobiphenyl	0.073	0.0050	0.1	0	73.4	40 - 147				
Surr: 2-Fluorophenol	0.057	0.0050	0.1	0	56.8	21 - 110				
Surr: 4-Terphenyl-d14	0.076	0.0050	0.1	0	75.6	39 - 141				
Surr: Nitrobenzene-d5	0.062	0.0050	0.1	0	61.8	37 - 140				
Surr: Phenol-d6	0.066	0.0050	0.1	0	65.7	11 - 110				

ALS Houston, US

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WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199929 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-199929	Units: mg/L			Analysis Date: 05-Sep-2023 16:17					
Client ID:	Run ID: SV-4_445500	SeqNo: 7548541	PrepDate: 05-Sep-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	0.068	0.0050	0.1	0	67.6	55 - 120				
2,4,6-Trichlorophenol	0.064	0.0050	0.1	0	63.5	55 - 120				
2,4-Dinitrotoluene	0.029	0.0050	0.05	0	58.7	55 - 125				
2-Methylnaphthalene	0.033	0.0050	0.05	0	65.4	55 - 120				
2-Methylphenol	0.066	0.0050	0.1	0	65.6	55 - 120				
3&4-Methylphenol	0.10	0.0050	0.15	0	67.8	55 - 120				
Acenaphthene	0.032	0.0050	0.05	0	64.4	55 - 120				
Anthracene	0.033	0.0050	0.05	0	66.1	55 - 120				
Benz(a)anthracene	0.032	0.0050	0.05	0	64.6	55 - 125				
Benzo(a)pyrene	0.034	0.0050	0.05	0	68.1	55 - 120				
Benzo(b)fluoranthene	0.033	0.0050	0.05	0	65.7	55 - 125				
Benzo(g,h,i)perylene	0.032	0.0050	0.05	0	64.6	55 - 120				
Benzo(k)fluoranthene	0.033	0.0050	0.05	0	66.2	55 - 130				
Bis(2-ethylhexyl)phthalate	0.033	0.0050	0.05	0	65.2	55 - 125				
Chrysene	0.034	0.0050	0.05	0	67.2	55 - 125				
Di-n-butyl phthalate	0.032	0.0050	0.05	0	63.5	55 - 125				
Fluorene	0.033	0.0050	0.05	0	65.1	55 - 120				
Hexachlorobenzene	0.036	0.0050	0.05	0	72.2	55 - 120				
Hexachlorobutadiene	0.031	0.0050	0.05	0	62.5	55 - 120				
Hexachloroethane	0.029	0.0050	0.05	0	57.3	55 - 120				
Naphthalene	0.031	0.0050	0.05	0	62.4	55 - 120				
Nitrobenzene	0.029	0.0050	0.05	0	57.4	55 - 120				
Pentachlorophenol	0.072	0.0050	0.1	0	72.5	50 - 135				
Phenanthrene	0.032	0.0050	0.05	0	64.9	55 - 120				
Phenol	0.059	0.0050	0.1	0	58.9	50 - 120				
Pyrene	0.032	0.0050	0.05	0	65.0	55 - 125				
Pyridine	0.021	0.0050	0.05	0	41.8	30 - 120				
Cresols, Total	0.17	0.0050	0.25	0	66.9	48 - 115				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.068</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>68.4</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.072</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>71.7</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.063</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>62.9</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.072</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>72.3</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.060</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>59.9</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.069</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>69.0</i>	<i>11 - 110</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199929 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCSD		Sample ID: LCSD-199929		Units: mg/L		Analysis Date: 05-Sep-2023 16:39				
Client ID:		Run ID: SV-4_445500		SeqNo: 7548542		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	0.068	0.0050	0.1	0	67.8	55 - 120	0.06758	0.277	30	
2,4,6-Trichlorophenol	0.064	0.0050	0.1	0	64.0	55 - 120	0.06355	0.631	30	
2,4-Dinitrotoluene	0.031	0.0050	0.05	0	61.3	55 - 125	0.02936	4.32	30	
2-Methylnaphthalene	0.030	0.0050	0.05	0	59.9	55 - 120	0.03269	8.76	30	
2-Methylphenol	0.066	0.0050	0.1	0	65.8	55 - 120	0.06563	0.333	30	
3&4-Methylphenol	0.10	0.0050	0.15	0	68.3	55 - 120	0.1017	0.667	30	
Acenaphthene	0.033	0.0050	0.05	0	65.0	55 - 120	0.03221	0.948	30	
Anthracene	0.033	0.0050	0.05	0	66.4	55 - 120	0.03305	0.484	30	
Benz(a)anthracene	0.032	0.0050	0.05	0	63.9	55 - 125	0.03229	1.03	30	
Benzo(a)pyrene	0.034	0.0050	0.05	0	68.3	55 - 120	0.03404	0.3	30	
Benzo(b)fluoranthene	0.031	0.0050	0.05	0	62.4	55 - 125	0.03284	5.15	30	
Benzo(g,h,i)perylene	0.032	0.0050	0.05	0	64.3	55 - 120	0.03232	0.517	30	
Benzo(k)fluoranthene	0.032	0.0050	0.05	0	64.7	55 - 130	0.03309	2.3	30	
Bis(2-ethylhexyl)phthalate	0.031	0.0050	0.05	0	62.4	55 - 125	0.03259	4.37	30	
Chrysene	0.033	0.0050	0.05	0	66.4	55 - 125	0.03358	1.11	30	
Di-n-butyl phthalate	0.032	0.0050	0.05	0	63.6	55 - 125	0.03176	0.0692	30	
Fluorene	0.033	0.0050	0.05	0	65.4	55 - 120	0.03256	0.422	30	
Hexachlorobenzene	0.035	0.0050	0.05	0	70.3	55 - 120	0.03608	2.63	30	
Hexachlorobutadiene	0.030	0.0050	0.05	0	60.9	55 - 120	0.03124	2.52	30	
Hexachloroethane	0.028	0.0050	0.05	0	57.0	55 - 120	0.02865	0.61	30	
Naphthalene	0.031	0.0050	0.05	0	61.5	55 - 120	0.03121	1.49	30	
Nitrobenzene	0.029	0.0050	0.05	0	57.4	55 - 120	0.02869	0.00278	30	
Pentachlorophenol	0.073	0.0050	0.1	0	72.8	50 - 135	0.07250	0.459	30	
Phenanthrene	0.033	0.0050	0.05	0	65.4	55 - 120	0.03245	0.782	30	
Phenol	0.064	0.0050	0.1	0	63.7	50 - 120	0.05886	7.89	30	
Pyrene	0.033	0.0050	0.05	0	65.9	55 - 125	0.03248	1.48	30	
Pyridine	0.021	0.0050	0.05	0	42.4	30 - 120	0.02091	1.38	30	
Cresols, Total	0.17	0.0050	0.25	0	67.3	48 - 115	0.1673	0.536	30	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.068</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>67.9</i>	<i>39 - 153</i>	<i>0.06842</i>	<i>0.771</i>	<i>30</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.072</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>72.0</i>	<i>40 - 147</i>	<i>0.07173</i>	<i>0.338</i>	<i>30</i>	
<i>Surr: 2-Fluorophenol</i>	<i>0.061</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>61.0</i>	<i>21 - 110</i>	<i>0.06287</i>	<i>3.06</i>	<i>30</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>0.072</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>71.8</i>	<i>39 - 141</i>	<i>0.07229</i>	<i>0.666</i>	<i>30</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>0.060</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>60.5</i>	<i>37 - 140</i>	<i>0.05989</i>	<i>0.957</i>	<i>30</i>	
<i>Surr: Phenol-d6</i>	<i>0.070</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>69.9</i>	<i>11 - 110</i>	<i>0.06899</i>	<i>1.34</i>	<i>30</i>	

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199929 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS		Sample ID: HS23082015-01MS		Units: mg/L		Analysis Date: 07-Sep-2023 02:06				
Client ID: PTS-02-SL-20230830		Run ID: SV-4_445697		SeqNo: 7548725		PrepDate: 05-Sep-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4,5-Trichlorophenol	0.079	0.0050	0.1	0	79.3	55 - 120				
2,4,6-Trichlorophenol	0.072	0.0050	0.1	0	72.1	55 - 120				
2,4-Dinitrotoluene	0.039	0.0050	0.05	0	77.5	55 - 125				
2-Methylnaphthalene	0.049	0.0050	0.05	0	98.5	55 - 120				
2-Methylphenol	0.076	0.0050	0.1	0	75.9	55 - 120				
3&4-Methylphenol	0.12	0.0050	0.15	0	79.4	55 - 120				
Acenaphthene	0.039	0.0050	0.05	0	78.9	55 - 120				
Anthracene	0.043	0.0050	0.05	0	85.2	55 - 120				
Benz(a)anthracene	0.041	0.0050	0.05	0	81.2	55 - 125				
Benzo(a)pyrene	0.043	0.0050	0.05	0	86.1	55 - 120				
Benzo(b)fluoranthene	0.040	0.0050	0.05	0	80.6	55 - 125				
Benzo(g,h,i)perylene	0.041	0.0050	0.05	0	81.3	55 - 120				
Benzo(k)fluoranthene	0.038	0.0050	0.05	0	75.7	55 - 130				
Bis(2-ethylhexyl)phthalate	0.044	0.0050	0.05	0	88.7	55 - 125				
Chrysene	0.041	0.0050	0.05	0	82.0	55 - 125				
Di-n-butyl phthalate	0.046	0.0050	0.05	0	91.4	55 - 125				
Fluorene	0.040	0.0050	0.05	0	79.5	55 - 120				
Hexachlorobenzene	0.043	0.0050	0.05	0	86.8	55 - 120				
Hexachlorobutadiene	0.040	0.0050	0.05	0	80.4	55 - 120				
Hexachloroethane	0.037	0.0050	0.05	0	73.1	55 - 120				
Naphthalene	0.039	0.0050	0.05	0	78.9	55 - 120				
Nitrobenzene	0.038	0.0050	0.05	0	75.5	55 - 120				
Pentachlorophenol	0.050	0.0050	0.1	0	50.1	50 - 135				
Phenanthrene	0.041	0.0050	0.05	0	83.0	55 - 120				
Phenol	0.070	0.0050	0.1	0	70.1	50 - 120				
Pyrene	0.038	0.0050	0.05	0	76.0	55 - 125				
Pyridine	0.033	0.0050	0.05	0	65.4	30 - 120				
Cresols, Total	0.20	0.0050	0.25	0	78.0	48 - 115				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.072</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>72.3</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.080</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>80.4</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.069</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>68.7</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.080</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>79.9</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.071</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>71.4</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.075</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>75.2</i>	<i>11 - 110</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199929 (0) **Instrument:** SV-4 **Method:** TCLP SEMIVOLATILES

The following samples were analyzed in this batch:

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199878 (0) **Instrument:** VOA11 **Method:** TCLP VOLATILES BY SW8260C

MBLK Sample ID: **MBLK-199878** Units: **mg/L** Analysis Date: **05-Sep-2023 17:52**
 Client ID: Run ID: **VOA11_445561** SeqNo: **7526660** PrepDate: **02-Sep-2023** DF: **20**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

1,1-Dichloroethene	U	0.10								
1,2-Dichloroethane	U	0.10								
1,4-Dichlorobenzene	U	0.10								
2-Butanone	U	0.20								
Acetone	U	0.20								
Benzene	U	0.10								
Carbon tetrachloride	U	0.10								
Chlorobenzene	U	0.10								
Chloroform	U	0.10								
Ethyl methacrylate	U	0.10								
Ethylbenzene	U	0.10								
Tetrachloroethene	U	0.10								
Toluene	U	0.10								
Trichloroethene	U	0.10								
Vinyl chloride	U	0.040								
Xylenes, Total	U	0.10								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>102</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.97</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>97.0</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>1.00</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>99.6</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>102</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199878 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
LCS	Sample ID: VLCSW-230905	Units: mg/L			Analysis Date: 05-Sep-2023 12:37					
Client ID:	Run ID: VOA11_445561	SeqNo: 7526656		PrepDate:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.020	0.0050	0.02	0	97.9	70 - 130				
1,2-Dichloroethane	0.020	0.0050	0.02	0	100	70 - 124				
1,4-Dichlorobenzene	0.020	0.0050	0.02	0	98.9	79 - 113				
2-Butanone	0.038	0.010	0.04	0	94.2	70 - 130				
Acetone	0.039	0.010	0.04	0	97.9	70 - 130				
Benzene	0.019	0.0050	0.02	0	96.3	74 - 120				
Carbon tetrachloride	0.019	0.0050	0.02	0	93.6	71 - 125				
Chlorobenzene	0.020	0.0050	0.02	0	98.3	76 - 113				
Chloroform	0.019	0.0050	0.02	0	97.2	71 - 121				
Ethyl methacrylate	0.021	0.0050	0.02	0	105	65 - 135				
Ethylbenzene	0.020	0.0050	0.02	0	99.9	77 - 117				
Tetrachloroethene	0.021	0.0050	0.02	0	103	76 - 119				
Toluene	0.019	0.0050	0.02	0	96.9	77 - 118				
Trichloroethene	0.020	0.0050	0.02	0	98.1	77 - 121				
Vinyl chloride	0.018	0.0020	0.02	0	91.9	70 - 130				
Xylenes, Total	0.059	0.0050	0.06	0	99.0	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.052</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>104</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.051</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>103</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.050</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>100</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.050</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199878 (0) **Instrument:** VOA11 **Method:** TCLP VOLATILES BY SW8260C

MS		Sample ID: HS23090013-01MS			Units: mg/L		Analysis Date: 05-Sep-2023 14:22			
Client ID:		Run ID: VOA11_445561			SeqNo: 7526659		PrepDate: 01-Sep-2023		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.39	0.10	0.4	0	98.0	70 - 130				
1,2-Dichloroethane	0.39	0.10	0.4	0	96.4	70 - 127				
1,4-Dichlorobenzene	0.38	0.10	0.4	0	96.1	70 - 114				
2-Butanone	0.73	0.20	0.8	0	91.8	70 - 130				
Acetone	0.84	0.20	0.8	0	105	70 - 130				
Benzene	0.37	0.10	0.4	0	93.3	70 - 127				
Carbon tetrachloride	0.38	0.10	0.4	0	94.2	70 - 130				
Chlorobenzene	0.38	0.10	0.4	0	95.1	70 - 114				
Chloroform	0.39	0.10	0.4	0	98.4	70 - 125				
Ethyl methacrylate	0.33	0.10	0.4	0	82.9	70 - 130				
Ethylbenzene	0.39	0.10	0.4	0	97.5	70 - 124				
Tetrachloroethene	0.41	0.10	0.4	0	101	70 - 130				
Toluene	0.38	0.10	0.4	0	95.1	70 - 123				
Trichloroethene	0.39	0.10	0.4	0	98.0	70 - 129				
Vinyl chloride	0.36	0.040	0.4	0	89.7	70 - 130				
Xylenes, Total	1.2	0.10	1.2	0	98.4	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>105</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>101</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>100</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>				

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445435 (0)	Instrument: VOA6	Method: VOLATILES - SW8260C
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MBLK	Sample ID: VBLKW-230901	Units: mg/L	Analysis Date: 01-Sep-2023 13:00							
Client ID:	Run ID: VOA6_445435	SeqNo: 7523596	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

1,1-Dichloroethene	U	0.0050								
1,2-Dichloroethane	U	0.0050								
1,4-Dichlorobenzene	U	0.0050								
2-Butanone	U	0.010								
Acetone	U	0.010								
Benzene	U	0.0050								
Carbon tetrachloride	U	0.0050								
Chlorobenzene	U	0.0050								
Chloroform	U	0.0050								
Ethyl methacrylate	U	0.0050								
Ethylbenzene	U	0.0050								
Tetrachloroethene	U	0.0050								
Toluene	U	0.0050								
Trichloroethene	U	0.0050								
Vinyl chloride	U	0.0020								
Xylenes, Total	U	0.015								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.048</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>95.4</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>90.6</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.051</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>101</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.052</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>104</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445435 (0) **Instrument:** VOA6 **Method:** VOLATILES - SW8260C

LCS		Sample ID: VLCSW-230901			Units: mg/L		Analysis Date: 01-Sep-2023 12:18			
Client ID:		Run ID: VOA6_445435			SeqNo: 7523595		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.018	0.0050	0.02	0	88.7	70 - 130				
1,2-Dichloroethane	0.019	0.0050	0.02	0	93.7	70 - 124				
1,4-Dichlorobenzene	0.020	0.0050	0.02	0	99.1	79 - 113				
2-Butanone	0.032	0.010	0.04	0	81.2	70 - 130				
Acetone	0.034	0.010	0.04	0	85.0	70 - 130				
Benzene	0.019	0.0050	0.02	0	95.5	74 - 120				
Carbon tetrachloride	0.020	0.0050	0.02	0	98.5	71 - 125				
Chlorobenzene	0.019	0.0050	0.02	0	96.0	76 - 113				
Chloroform	0.019	0.0050	0.02	0	93.6	71 - 121				
Ethyl methacrylate	0.019	0.0050	0.02	0	95.3	65 - 135				
Ethylbenzene	0.019	0.0050	0.02	0	94.9	77 - 117				
Tetrachloroethene	0.020	0.0050	0.02	0	99.6	76 - 119				
Toluene	0.019	0.0050	0.02	0	94.5	77 - 118				
Trichloroethene	0.020	0.0050	0.02	0	98.1	77 - 121				
Vinyl chloride	0.018	0.0020	0.02	0	89.4	70 - 130				
Xylenes, Total	0.057	0.015	0.06	0	95.5	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>100</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>98.8</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.052</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>103</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>94.2</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445435 (0)		Instrument: VOA6			Method: VOLATILES - SW8260C					
MS	Sample ID: HS23082020-01MS	Units: mg/L			Analysis Date: 01-Sep-2023 15:44					
Client ID:	Run ID: VOA6_445435	SeqNo: 7523599			PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.020	0.0050	0.02	0	101	70 - 130				
1,2-Dichloroethane	0.021	0.0050	0.02	0	104	70 - 127				
1,4-Dichlorobenzene	0.023	0.0050	0.02	0	115	70 - 114				S
2-Butanone	0.032	0.010	0.04	0	81.1	70 - 130				
Acetone	0.028	0.010	0.04	0	70.9	70 - 130				
Benzene	0.022	0.0050	0.02	0	110	70 - 127				
Carbon tetrachloride	0.025	0.0050	0.02	0	123	70 - 130				
Chlorobenzene	0.023	0.0050	0.02	0	113	70 - 114				
Chloroform	0.020	0.0050	0.02	0	101	70 - 125				
Ethyl methacrylate	0.022	0.0050	0.02	0	110	70 - 130				
Ethylbenzene	0.024	0.0050	0.02	0	122	70 - 124				
Tetrachloroethene	0.027	0.0050	0.02	0	134	70 - 130				S
Toluene	0.023	0.0050	0.02	0	115	70 - 123				
Trichloroethene	0.023	0.0050	0.02	0	116	70 - 129				
Vinyl chloride	0.020	0.0020	0.02	0	97.8	70 - 130				
Xylenes, Total	0.071	0.015	0.06	0	118	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>94.2</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.046</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>92.6</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>98.8</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>0.052</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>104</i>	<i>82 - 127</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445435 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS23082020-01MSD	Units: mg/L			Analysis Date: 01-Sep-2023 16:04					
Client ID:	Run ID: VOA6_445435	SeqNo: 7523600		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.019	0.0050	0.02	0	94.0	70 - 130	0.02024	7.44	20	
1,2-Dichloroethane	0.020	0.0050	0.02	0	102	70 - 127	0.02075	1.53	20	
1,4-Dichlorobenzene	0.023	0.0050	0.02	0	116	70 - 114	0.02297	1.02	20	S
2-Butanone	0.032	0.010	0.04	0	80.5	70 - 130	0.03245	0.781	20	
Acetone	0.027	0.010	0.04	0	67.2	70 - 130	0.02838	5.41	20	S
Benzene	0.021	0.0050	0.02	0	107	70 - 127	0.02194	2.51	20	
Carbon tetrachloride	0.023	0.0050	0.02	0	117	70 - 130	0.02452	4.65	20	
Chlorobenzene	0.022	0.0050	0.02	0	111	70 - 114	0.02253	1.92	20	
Chloroform	0.019	0.0050	0.02	0	95.8	70 - 125	0.02014	5.02	20	
Ethyl methacrylate	0.023	0.0050	0.02	0	113	70 - 130	0.02196	3.07	20	
Ethylbenzene	0.023	0.0050	0.02	0	117	70 - 124	0.02436	4.31	20	
Tetrachloroethene	0.026	0.0050	0.02	0	128	70 - 130	0.02680	4.75	20	
Toluene	0.022	0.0050	0.02	0	112	70 - 123	0.02293	2.49	20	
Trichloroethene	0.022	0.0050	0.02	0	112	70 - 129	0.02329	3.52	20	
Vinyl chloride	0.018	0.0020	0.02	0	90.5	70 - 130	0.01957	7.74	20	
Xylenes, Total	0.069	0.015	0.06	0	114	70 - 130	0.07062	3.04	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.048</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>95.9</i>	<i>70 - 126</i>	<i>0.04710</i>	<i>1.78</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>94.0</i>	<i>82 - 124</i>	<i>0.04629</i>	<i>1.47</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>0.049</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>98.1</i>	<i>77 - 123</i>	<i>0.04942</i>	<i>0.742</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>0.052</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>104</i>	<i>82 - 127</i>	<i>0.05206</i>	<i>0.346</i>	<i>20</i>	

The following samples were analyzed in this batch: HS23082015-02

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445671 (0)		Instrument: VOA11		Method: VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKM-230906	Units: mg/Kg			Analysis Date: 06-Sep-2023 10:38				
Client ID:	Run ID: VOA11_445671	SeqNo: 7528970		PrepDate:			DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,1-Dichloroethene	U	0.25							
1,2-Dichloroethane	U	0.25							
1,4-Dichlorobenzene	U	0.25							
2-Butanone	U	0.50							
Acetone	U	1.0							
Benzene	U	0.25							
Carbon tetrachloride	U	0.25							
Chlorobenzene	U	0.25							
Chloroform	U	0.25							
Ethyl methacrylate	U	0.25							
Ethylbenzene	U	0.25							
Tetrachloroethene	U	0.25							
Toluene	U	0.25							
Trichloroethene	U	0.25							
Vinyl chloride	U	0.25							
Xylenes, Total	U	0.75							
<i>Surr: 1,2-Dichloroethane-d4</i>	2.4	0	2.5	0	95.4	76 - 125			
<i>Surr: 4-Bromofluorobenzene</i>	2.4	0	2.5	0	96.8	80 - 120			
<i>Surr: Dibromofluoromethane</i>	2.4	0	2.5	0	95.1	80 - 119			
<i>Surr: Toluene-d8</i>	2.5	0	2.5	0	101	81 - 118			

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445671 (0)		Instrument: VOA11		Method: VOLATILES BY SW8260C						
LCS	Sample ID: VLCSW-230906	Units: ug/L			Analysis Date: 06-Sep-2023 10:17					
Client ID:	Run ID: VOA11_445671	SeqNo: 7528966	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.15	1.0	20	0	90.7	70 - 130				
1,2-Dichloroethane	18.16	1.0	20	0	90.8	70 - 124				
1,4-Dichlorobenzene	19.94	1.0	20	0	99.7	79 - 113				
2-Butanone	32.94	2.0	40	0	82.4	70 - 130				
Acetone	32.54	2.0	40	0	81.4	70 - 130				
Benzene	18.11	1.0	20	0	90.5	74 - 120				
Carbon tetrachloride	17.02	1.0	20	0	85.1	71 - 125				
Chlorobenzene	19.16	1.0	20	0	95.8	76 - 113				
Chloroform	17.77	1.0	20	0	88.8	71 - 121				
Ethyl methacrylate	18.95	1.0	20	0	94.8	65 - 135				
Ethylbenzene	19.02	1.0	20	0	95.1	77 - 117				
Tetrachloroethene	20.34	1.0	20	0	102	76 - 119				
Toluene	18.84	1.0	20	0	94.2	77 - 118				
Trichloroethene	19.47	1.0	20	0	97.4	77 - 121				
Vinyl chloride	17.62	1.0	20	0	88.1	70 - 130				
Xylenes, Total	57.12	3.0	60	0	95.2	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.6</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.08</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.2</i>	<i>77 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.26</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.5</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>50.45</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445671 (0)		Instrument: VOA11		Method: VOLATILES BY SW8260C						
MS	Sample ID: HS23081916-01MS	Units: ug/L			Analysis Date: 06-Sep-2023 11:41					
Client ID:	Run ID: VOA11_445671	SeqNo: 7528968	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	17.81	1.0	20	0	89.0	70 - 130				
1,2-Dichloroethane	17.58	1.0	20	0	87.9	70 - 127				
1,4-Dichlorobenzene	18.26	1.0	20	0	91.3	70 - 114				
2-Butanone	30.2	2.0	40	0	75.5	70 - 130				
Acetone	29.41	2.0	40	0	73.5	70 - 130				
Benzene	17.69	1.0	20	0	88.4	70 - 127				
Carbon tetrachloride	17.04	1.0	20	0	85.2	70 - 130				
Chlorobenzene	18.36	1.0	20	0	91.8	70 - 114				
Chloroform	17.12	1.0	20	0	85.6	70 - 125				
Ethyl methacrylate	14.42	1.0	20	0	72.1	70 - 130				
Ethylbenzene	18.43	1.0	20	0	92.1	70 - 124				
Tetrachloroethene	20.22	1.0	20	0	101	70 - 130				
Toluene	18.46	1.0	20	0	92.3	70 - 123				
Trichloroethene	18.73	1.0	20	0	93.6	70 - 129				
Vinyl chloride	16.24	1.0	20	0	81.2	70 - 130				
Xylenes, Total	55.58	3.0	60	0	92.6	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.6</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>93.2</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.18</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.4</i>	<i>77 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.12</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.2</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.01</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>				

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445671 (0) **Instrument:** VOA11 **Method:** VOLATILES BY SW8260C

MSD		Sample ID: HS23081916-01MSD			Units: ug/L		Analysis Date: 06-Sep-2023 12:02			
Client ID:		Run ID: VOA11_445671			SeqNo: 7528969		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	17.27	1.0	20	0	86.3	70 - 130	17.81	3.08	20	
1,2-Dichloroethane	17.56	1.0	20	0	87.8	70 - 127	17.58	0.126	20	
1,4-Dichlorobenzene	18.36	1.0	20	0	91.8	70 - 114	18.26	0.554	20	
2-Butanone	30.65	2.0	40	0	76.6	70 - 130	30.2	1.48	20	
Acetone	29.89	2.0	40	0	74.7	70 - 130	29.41	1.63	20	
Benzene	17.63	1.0	20	0	88.1	70 - 127	17.69	0.332	20	
Carbon tetrachloride	16.78	1.0	20	0	83.9	70 - 130	17.04	1.51	20	
Chlorobenzene	18.15	1.0	20	0	90.7	70 - 114	18.36	1.14	20	
Chloroform	17.26	1.0	20	0	86.3	70 - 125	17.12	0.807	20	
Ethyl methacrylate	15.67	1.0	20	0	78.4	70 - 130	14.42	8.3	20	
Ethylbenzene	17.96	1.0	20	0	89.8	70 - 124	18.43	2.56	20	
Tetrachloroethene	20.1	1.0	20	0	101	70 - 130	20.22	0.577	20	
Toluene	18.1	1.0	20	0	90.5	70 - 123	18.46	1.98	20	
Trichloroethene	18.54	1.0	20	0	92.7	70 - 129	18.73	1.03	20	
Vinyl chloride	15.78	1.0	20	0	78.9	70 - 130	16.24	2.87	20	
Xylenes, Total	54.52	3.0	60	0	90.9	70 - 130	55.58	1.94	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.15</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.3</i>	<i>70 - 126</i>	<i>46.6</i>	<i>0.961</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.45</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.9</i>	<i>77 - 113</i>	<i>48.18</i>	<i>0.567</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.18</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.4</i>	<i>77 - 123</i>	<i>48.12</i>	<i>0.128</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.44</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.9</i>	<i>82 - 127</i>	<i>50.01</i>	<i>1.15</i>	<i>20</i>	

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: 199962 (0)	Instrument: UV-2450	Method: CYANIDE BY SW-846 9014
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MBLK	Sample ID: MBLK-199962	Units: mg/Kg	Analysis Date: 07-Sep-2023 14:14							
Client ID:	Run ID: UV-2450_445721	SeqNo: 7529910	PrepDate: 06-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide U 2.00

LCS	Sample ID: LCS-199962	Units: mg/Kg	Analysis Date: 07-Sep-2023 14:14							
Client ID:	Run ID: UV-2450_445721	SeqNo: 7529909	PrepDate: 06-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 8.95 2.00 10 0 89.5 80 - 120

MS	Sample ID: HS23081639-01MS	Units: mg/Kg	Analysis Date: 07-Sep-2023 14:14							
Client ID:	Run ID: UV-2450_445721	SeqNo: 7529907	PrepDate: 06-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 8.889 1.85 9.259 -0.1905 98.1 75 - 125

MSD	Sample ID: HS23081639-01MSD	Units: mg/Kg	Analysis Date: 07-Sep-2023 14:14							
Client ID:	Run ID: UV-2450_445721	SeqNo: 7529908	PrepDate: 06-Sep-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Cyanide 9.143 1.90 9.524 -0.1905 98.0 75 - 125 8.889 2.82 30

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R445611 (0)		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS23081925-01DUP	Units: °F		Analysis Date: 06-Sep-2023 12:05					
Client ID:	Run ID: WetChem_HS_445611	SeqNo: 7527614	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Flash Point	>212	50.0					0	0	30
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The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R446071 (0)		Instrument: WetChem_HS		Method: PH SOIL BY SW9045D					
DUP	Sample ID: HS23081925-01DUP	Units: pH Units		Analysis Date: 12-Sep-2023 13:00					
Client ID:	Run ID: WetChem_HS_446071	SeqNo: 7538049		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

pH	8.64	0.100					8.75	1.27	10
Temp Deg C @pH	21.7	0					21.6	0.462	10

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R446177 (0)	Instrument: Balance1	Method: MOISTURE - ASTM D2216
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DUP	Sample ID: HS23081995-07DUP	Units: wt%	Analysis Date: 12-Sep-2023 13:01							
Client ID:	Run ID: Balance1_446177	SeqNo: 7540401	PrepDate: DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Percent Moisture	13	0.0100					11.9	8.84	20
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The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R446461 (0) **Instrument:** WetChem_HS **Method:** REACTIVE SULFIDE

MBLK	Sample ID: MBLK-R446461	Units: mg/Kg		Analysis Date: 15-Sep-2023 12:30						
Client ID:	Run ID: WetChem_HS_446461	SeqNo: 7545928	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Reactive Sulfide U 100

LCS	Sample ID: LCS-R446461	Units: mg/Kg		Analysis Date: 15-Sep-2023 12:30						
Client ID:	Run ID: WetChem_HS_446461	SeqNo: 7545927	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Reactive Sulfide 65.6 100 100 0 65.6 20 - 120 J

MS	Sample ID: HS23090648-03MS	Units: mg/Kg		Analysis Date: 15-Sep-2023 12:30						
Client ID:	Run ID: WetChem_HS_446461	SeqNo: 7545929	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Reactive Sulfide 61.6 100 100 0 61.6 20 - 120 J

The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

QC BATCH REPORT

Batch ID: R446468 (0)		Instrument: UV-2450		Method: REACTIVE CYANIDE					
MBLK	Sample ID: MBLK-R446468	Units: mg/Kg		Analysis Date: 15-Sep-2023 12:40					
Client ID:	Run ID: UV-2450_446468	SeqNo: 7546024		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Cyanide	U	100							
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LCS	Sample ID: LCS-R446468	Units: mg/Kg		Analysis Date: 15-Sep-2023 12:40					
Client ID:	Run ID: UV-2450_446468	SeqNo: 7546023		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Cyanide	0.62	100	10	0	6.20	5 - 100			J
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MS	Sample ID: HS23090648-03MS	Units: mg/Kg		Analysis Date: 15-Sep-2023 12:40					
Client ID:	Run ID: UV-2450_446468	SeqNo: 7546025		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Cyanide	0.61	100	10	0	6.10	5 - 100			J
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The following samples were analyzed in this batch: HS23082015-01

ALS Houston, US

Date: 06-Oct-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23082015

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected
mg/L	Milligrams per Liter

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 06-Oct-23

Sample Receipt Checklist

Work Order ID: HS23082015

Date/Time Received: 31-Aug-2023 09:50

Client Name: ERMSW-HOU

Received by: Paresh M. Giga

Completed By: /S/ Corey Grandits 31-Aug-2023 16:42 Reviewed by: /S/ Bernadette A. Fini 01-Sep-2023 09:04
 eSignature Date/Time eSignature Date/Time

Matrices: S/W

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:298612
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.2UC/2.1C IR31

Cooler(s)/Kit(s): 49655

Date/Time sample(s) sent to storage: 8/31/23

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes: PTS-02 received 9 containers, COC indicates 10.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 5300

Fort Collins, CO
+1 970 490 9300

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form
Electronic Filing: Received, Clerk's Office 04/28/2025

Houston, TX
+1 281 330 5656

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+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

Spokane, WA
+1 509 485 6668

Page 1 of 1

COC ID: 298612



Customer Information		Project Information		ALS Project Manager:												ALS Work Order #:	
Purchase Order	0647752	Project Name	Preliminary Joliet Delisting														
Work Order		Project Number															
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.														
Send Report To	Cecilia Anderson	Invoice Attn	Accounts Payable														
Address	CityCentre Four	Address	CityCentre Four														
	840 W. Sam Houston Pkwy., Suite 6		840 W. Sam Houston Pkwy., Suite 6														
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024														
Phone	(281) 600-1000	Phone	(281) 600-1000														
Fax	(281) 600-1001	Fax	(281) 600-1001														
e-Mail Address	Cecilia.Anderson@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com														

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PTS-02-SL-20230830	8/30/23	8:43	S	Y/N	10	X	X	X	X	X	X	X	X	X	X	X
2	TB-02-SL-20230830	8/30/23	-	W	Y	2					X						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

HS23082015

Environmental Resources Mgmt.
Joliet Delisting




Sampler(s) Please Print & Sign <i>[Signature]</i>		Shipment Method Fed Ex		Required Turnaround Time: (Check Box)				Results Due Date:		
				<input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour						
Relinquished by: <i>[Signature]</i>		Date: 8/30/23	Time: 12:03	Received by: <i>[Signature]</i>		Date/Time: 8/30/23/1:03		Notes: ERM Preliminary Joliet Delisting		
Relinquished by: <i>[Signature]</i>		Date: 8/30/23	Time: 12:02 PM	Received by Laboratory: <i>[Signature]</i>		Date/Time: 8/31/23 09:50				
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):						
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035										
								QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> IRRP Check List <input type="checkbox"/> Level III Std. QCR/Raw Data <input type="checkbox"/> IRRP Level IV <input type="checkbox"/> Level IV S-M-B-C-CLP <input type="checkbox"/> Other		

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	Electronic Filing Received Clerk's Office	CUSTODY SEAL Date: 8/28/2025 Time: 12:05 Name: Heidi Mena Company: Exxon Mobil	Broken By: sm Date: 08/31/23
	49655		

49655 AUG 31 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL Date: 8/31/23 Time: 12:05 Name: Heidi Mena Company: Exxon Mobil	Seal Broken By: sm Date: 08/31/23
	49655	



49655

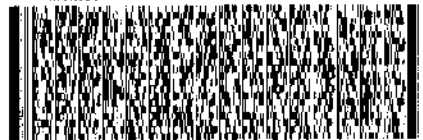
ORIGIN TO: SGRA (630) 395-1573
 RE: JUI CHARL
 EXXONMOBIL JOILET REFINERY
 25915 S. FRONTAGE RD
 CHANNAHON, IL 60410
 UNITED STATES US

SHIP DATE: 24 AUG 23
 ACTWGT: 1.05 E MAN
 CRD: 021242/CAFE3751
 DIMS: 19x16x13 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5856
 REF: JOILET DELISTING = BQ 95156 - BF

RMA: (|||||)



FedEx
 TRK# 6230 3004 6002
 0221

THU - 31 AUG 10:30 AM
 PRIORITY OVERNIGHT

AB SGRA

77099
 TX-US IAH





October 06, 2023

Service Request No:K2309830

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23082015

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory September 01, 2023
For your reference, these analyses have been assigned our service request number **K2309830**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: K2309830
Date Received: 09/01/2023

CASE NARRATIVE

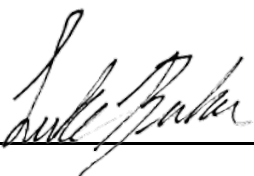
All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One soil sample was received for analysis at ALS Environmental on 09/01/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The sample was stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

Method 8151A, 09/18/2023: The detection limit was elevated for all target analytes in sample PTS-02-SL-20230830. The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the surrogate compound at the normal limit. The reporting limits were adjusted to reflect the dilution.

Approved by 

Date 10/06/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: PTS-02-SL-20230830		Lab ID: K2309830-001				
Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total	54.5				Percent	160.3 Modified



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: ALS Environmental - US

Service Request: K2309830

Project: HS23082015

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2309830-001	PTS-02-SL-20230830	8/30/2023	0843



10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 22930

SUBCONTRACT TO:

ALS Environmental Kelso
1317 S. 13th Avenue
Kelso, WA 98626

Phone: +1 360 501 3312

K2309830

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com


INVOICE INFORMATION:


Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23082015
TSR: Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS23082015-01	PTS-02-SL-20230830	Soil	30 Aug 2023 08:43
Herbs 8151-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			15 Sep 2023

Comments: Please analyze for the analysis listed above. Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: 

Received By: 

Cooler ID(s): _____

AUG 31 2023

Date/Time: 1800

Date/Time: 9/11/23 1015

Temperature(s): _____

PM LR

Cooler Receipt and Preservation Form

Client AIS Houston Service Request K23 09830
 Received: 9/1/23 Opened: 9/1/23 By: AP Unloaded: 9/1/23 By: AP

1. Samples were received via? **USPS** *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
 2. Samples were received in: (circle) **Cooler** *Box* *Envelope* *Other* *NA*
 3. Were custody seals on coolers? *NA* **Y** *N* If yes, how many and where? 1 front
 If present, were custody seals intact? **Y** *N* If present, were they signed and dated? **Y** *N*

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>AMP</u>	<u>0.9</u>	<u>1806</u>	<u>22930</u>			<u>686267959379</u>	

4. Was a Temperature Blank present in cooler? *NA* *Y* **N** If yes, note the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
 5. Were samples received within the method specified temperature ranges? *NA* **Y** *N*
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. **NA** *Y* *N*
 If applicable, tissue samples were received: *Frozen* **Partially Thawed** *Thawed*
 6. Packing material: *Inserts* **Baggies** **Bubble Wrap** *Gel Packs* **Wet Ice** *Dry Ice* *Sleeves*
 7. Were custody papers properly filled out (ink, signed, etc.)? *NA* **Y** *N*
 8. Were samples received in good condition (unbroken) *NA* **Y** *N*
 9. Were all sample labels complete (ie, analysis, preservation, etc.)? *NA* **Y** *N*
 10. Did all sample labels and tags agree with custody papers? *NA* **Y** *N*
 11. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* **Y** *N*
 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below **NA** *Y* *N*
 13. Were VOA vials received without headspace? Indicate in the table below **NA** *Y* *N*
 14. Was C12/Res negative? **NA** *Y* *N*
 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM **NA** *Y* *N*
 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? **NA** *Y* *N* Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Electronic Filing: Received, Clerk's Office 04/28/2025
ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client: ALS Environmental - US
Project: HS23082015/

Service Request: K2309830

Sample Name: PTS-02-SL-20230830
Lab Code: K2309830-001
Sample Matrix: Soil

Date Collected: 08/30/23
Date Received: 09/1/23

Analysis Method
160.3 Modified
8151A

Extracted/Digested By
ZPRIM

Analyzed By
TRICKMAN
BBRIGHT

Sample Name: PTS-02-SL-20230830
Lab Code: K2309830-001.R01
Sample Matrix: Soil

Date Collected: 08/30/23
Date Received: 09/1/23

Analysis Method
8151A

Extracted/Digested By
ZPRIM

Analyzed By
BBRIGHT



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Semivolatile Organic Compounds by GC

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Analytical Report

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil
Sample Name: PTS-02-SL-20230830
Lab Code: K2309830-001

Service Request: K2309830
Date Collected: 08/30/23 08:43
Date Received: 09/01/23 10:15
Units: mg/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	0.91	0.044	10	09/28/23 18:11	9/11/23	
2,4-D	ND U	0.91	0.14	10	09/28/23 18:11	9/11/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	41	26 - 127	09/28/23 18:11	



General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Analytical Report

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil
Sample Name: PTS-02-SL-20230830
Lab Code: K2309830-001

Service Request: K2309830
Date Collected: 08/30/23 08:43
Date Received: 09/01/23 10:15
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	54.5	Percent	-	-	1	09/07/23 10:18	



QC Summary Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Semivolatile Organic Compounds by GC

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

QA/QC Report

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: K2309830

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 26 - 127
PTS-02-SL-20230830	K2309830-001	41
Lab Control Sample	KQ2315670-01	73
Duplicate Lab Control Sample	KQ2315670-02	71
Method Blank	KQ2315670-03	65

Analytical Report

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: K2309830
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2315670-03

Units: mg/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	0.050	0.0024	1	09/18/23 18:53	9/11/23	
2,4-D	ND U	0.050	0.0077	1	09/18/23 18:53	9/11/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	65	26 - 127	09/18/23 18:53	

QA/QC Report

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: K2309830
Date Analyzed: 09/18/23
Date Extracted: 09/11/23

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: mg/Kg
Basis: Dry
Analysis Lot: 818814

Lab Control Sample
KQ2315670-01

Duplicate Lab Control Sample
KQ2315670-02

Analyte Name	Lab Control Sample			Duplicate Lab Control Sample			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
2,4,5-TP (Silvex)	0.130	0.167	78	0.127	0.167	76	46-125	2	40
2,4-D	0.116	0.167	69	0.110	0.167	66	46-120	5	40

Confirmation Results

Client: ALS Environmental - US
Project: HS23082015
Matrix: Soil
Sample Name: Lab Control Sample
Lab Code: KQ2315670-01

Service Request: K2309830
Date Collected: NA
Date Received:

Units: mg/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	0.0024	0.130	0.131	<1		1	09/18/23 19:19
2,4-D	0.0077	0.116	0.121	4		1	09/18/23 19:19

Confirmation Results

Client: ALS Environmental - US
Project: HS23082015
Matrix: Soil
Sample Name: Duplicate Lab Control Sample
Lab Code: KQ2315670-02

Service Request: K2309830
Date Collected: NA
Date Received:

Units: mg/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	0.0024	0.127	0.136	7		1	09/18/23 19:45
2,4-D	0.0077	0.110	0.116	5		1	09/18/23 19:45



General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

QA/QC Report

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: K2309830
Date Collected: 08/30/23
Date Received: 09/01/23
Date Analyzed: 09/07/23

Replicate Sample Summary
Inorganic Parameters

Sample Name: PTS-02-SL-20230830
Lab Code: K2309830-001

Units: Percent
Basis: As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2309830-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	54.5	54.3	54.4	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



September 21, 2023

Service Request No:E2300794

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23082015

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory August 31, 2023
For your reference, these analyses have been assigned our service request number **E2300794**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental



Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com



Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request No.: E2300794
Date Received: 08/31/23

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 08/31/23..

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300441: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) sample was analyzed and reported in lieu of a MS/MSD for this extraction batch.

Y flags – Cleanup Standard

The recoveries for the cleanup standard, 37Cl-2,3,7,8-TCDD are below control limits. The sample results are not affected since this labeled standard is provided as a means of demonstrating that both the sample extraction and subsequent cleanup steps performed as expected, and is not used in quantitation of target analytes.

2378-TCDF

Samples analyzed on the DB-5MSUI column were analyzed under conditions where sufficient separation between 2,3,7,8-TCDF and its closest eluter was achieved. Confirmation of this result was not required.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

Holding Time

SW-846 Update VI, December 2018. (Table 4-1, Section 4.1.4.3) eliminates holding times for Dioxins/Furans with proper sample storage as PCDDs and PCDFs are extremely stable in a variety of matrices.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
- The 1:1 and associated dilution have been combined into one TEQ Summary report

Electronic Filing: Received, Clerk's Office 04/28/2025

- EPA-89 TEFs, “Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDDs and CDFs)”, 1989 EPA Update (EPA/625/3-89/016, March 1989)
- WHO-1998 TEFs, for PCBs, PCDDs, 21 PCDFs for humans and wildlife. (M. Van den Berg, et al., Environ Health Perspect 106: 775-792, 1998)

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner (“Materials”) whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data (“Attribution”) without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US

Service Request: E2300794

Project: HS23082015

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2300794-001	PTS-02-SL-20230830	8/30/2023	0843

Electronic File Service Request Summary 04/28/2025

Folder #: E2300794
Client Name: ALS Environmental - US
Project Name: HS23082015
Project Number:
Report To: Bernadette Fini
 ALS Laboratory Group
 10450 Stancliff Road
 Houston, TX 77099-4338
 USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/31/23
Internal Due Date: 9/22/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: N
P.O. Number: HS23082015
EDD: EQUIS EFWEDD ERM
 Global High-res

1 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: EHRMS-WIC 7C
Pressure Gas:

Semivoa GCMS

PCDD PCDF/8290A	Total Solids/ALS SOP
-----------------	----------------------

Lab Samp No.	Client Samp No	Matrix	Collected		
E2300794-001	PTS-02-SL-20230830	Soil	08/30/23 0843	II	II

Folder #: E2300794
Client Name: ALS Environmental - US
Project Name: HS23082015
Project Number:
Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/31/23
Internal Due Date: 9/22/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: N
P.O. Number: HS23082015
EDD: EQUIS EFWEDD ERM
Global High-res

1 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: EHRMS-WIC 7C
Pressure Gas:

Data Qualifiers

HRMS Qualifier Set

- * Indicates the samples were extracted outside of the recommended holding time.
- B Indicates the associated analyte was found in the method blank at >1/10th the reported value.
- E Estimated value. The reported concentration is above the calibration range of the instrument.
- J Estimated value. The reported concentration is below the MRL.
- K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits. The concentration of this analyte should be considered as an estimate.
- P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
- Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.
- S Signal saturated detector. Result reported from dilution.
- U Compound was analyzed for, but was not detected (ND).
- X See Case Narrative.
- Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-noise ratios are greater than 10:1, making the recoveries acceptable.
 - i The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCEntration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient



State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Department of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Conservation	TN04016-2023	4/30/2024
Texas Commission on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-22	11/14/2023

ALS ENVIRONMENTAL – Houston

Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E2300794

DB-5MSUI

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
09/21/23	LKL	001PL

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
09/21/23	SL	001PL



Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com



E2300794

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ALS Laboratory Group
HS23082015



10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 22931

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff Road Suite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23082015
TSR: Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS23082015-01	PTS-02-SL-20230830	Soil	30 Aug 2023 08:43
Diox/Furans -Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			22 Sep 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: PG _____ Date/Time: _____

Received By: ca _____ Date/Time: 8-31-23 1654

Cooler ID(s): _____ Temperature(s): _____



Cooler Receipt Form

Project Chemist JG

Client/Project ALS

Thermometer ID 1R51

Date/Time Received: 8-31-23

Initials: ry

Date/Time Logged in: 8-31-23

Initials ry

1. Method of delivery: US Mail Fed Ex UPS DHL ^{ALS} Courier Client

2. Samples received in: Cooler Box Envelope Other

3. Were custody seals on coolers? Yes No
 Were they intact? Yes No N/A
 Were they signed and dated? Yes No N/A

If yes, how many and where?

4. Packing Material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other

5. Foreign or Regulated Soil? Yes No Location of Sampling: _____

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
-		8-31-23	1654	ry	5.0	<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

- 6. Were custody papers properly filled out (ink, signed, dated, etc)? Yes No
- 7. Did all bottles arrive in good condition (not broken, no signs of leakage)? Yes No
- 8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? Yes No
- 9. Were appropriate bottles/containers and volumes received for the requested tests? Yes No
- 10. Did sample labels and tags agree with custody documents? Yes No

Notes, Discrepancies, & Resolutions:

Service request Label:

E2300794

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ALS Laboratory Group
HS23082015





SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample. The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report



Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet
 Electronic Filing: Received, Clerk's Office 04/28/2025

Prep Run#: 426301
 Team: Semivoa GCMS/OOLUJIMI

Prep Workflow: OrgExtDioxS(30)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 9/12/23 09:59

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300435-003	SMS 1.5 LOD 8290A	.01	8290A/PCDD PCDF			Soil	10.181g	brown soil
2	E2300435-004	SMS 5 - LOQ 8290A	.01	8290A/PCDD PCDF			Soil	10.043g	brown soil
3	E2300794-001	PTS-02-SL-20230830	.01	8290A/PCDD PCDF			Soil	10.090g	brown soil
4	E2300802-001	DT-23-SD-FN-001	.01	8290A/PCDD PCDF			Sediment	10.150g	brown soil
5	E2300802-002	FP-23-SD-001	.01	8290A/PCDD PCDF			Sediment	10.098g	brown soil
6	E2300802-003	KKUP-23-SD-001	.01	8290A/PCDD PCDF			Sediment	10.170g	brown soil
7	E2300802-004	DT-23-SD-CR-001	.01	8290A/PCDD PCDF			Sediment	10.108g	brown soil
8	E2300804-001	August 2023, Pit 1843 3B	.01	8290A/PCDD PCDF			Soil	10.108g	grey white soil
9	E2300824-001	AOI2-I-a20	.01	8290A/PCDD PCDF			Soil	10.075g	brown soil
10	EQ2300441-01	MB		8290A/PCDD PCDF			Solid	10.202g	
11	EQ2300441-02	LCS		8290A/PCDD PCDF			Solid	10.204g	
12	EQ2300441-03	DLCS		8290A/PCDD PCDF			Solid	10.088g	
13	EQ2300441-04	SMS 5 - LOQ 8290A DUP	.01	8290A/PCDD PCDF			Solid	10.273g	
14	EQ2300441-05	SMS 1.5 LOD 8290A DUP	.01	8290A/PCDD PCDF			Solid	10.136g	
15	K2310074-001	C1_20230906_1123_NAVFAC Biosolids	.01	8290A/PCDD PCDF			Biosolids Solids	10.101g	brown soil

Spiking Solutions

Name: 8290/1613B Cleanup Working Standard	Inventory ID 230994	Logbook Ref: JS 8/22/2023 CWS @8ng/mL	Expires On: 10/10/2023
---	---------------------	---------------------------------------	------------------------

E2300435-003 100.00µL	E2300435-004 100.00µL	E2300794-001 100.00µL	E2300802-001 100.00µL	E2300802-002 100.00µL	E2300802-003 100.00µL
E2300802-004 100.00µL	E2300804-001 100.00µL	E2300824-001 100.00µL	EQ2300441-01 100.00µL	EQ2300441-02 100.00µL	EQ2300441-03 100.00µL
EQ2300441-04 100.00µL	EQ2300441-05 100.00µL	K2310074-001 100.00µL			

Name: 1613B Matrix Working Standard	Inventory ID 231096	Logbook Ref: OO 8/29/23 MWS@2-20ng/ml	Expires On: 02/25/2024
-------------------------------------	---------------------	---------------------------------------	------------------------

E2300435-003 100.00µL	E2300435-004 100.00µL	E2300794-001 100.00µL	E2300802-001 100.00µL	E2300802-002 100.00µL	E2300802-003 100.00µL
E2300802-004 100.00µL	E2300804-001 100.00µL	E2300824-001 100.00µL	EQ2300441-01 100.00µL	EQ2300441-02 100.00µL	EQ2300441-03 100.00µL
EQ2300441-04 100.00µL	EQ2300441-05 100.00µL	K2310074-001 100.00µL			

Name: 1613B Labeled Working Standard	Inventory ID 231215	Logbook Ref: OO 9/7/23@LWs@2-4ng/ml	Expires On: 02/25/2024
--------------------------------------	---------------------	-------------------------------------	------------------------

E2300435-003 1,000.00µL	E2300435-004 1,000.00µL	E2300794-001 1,000.00µL	E2300802-001 1,000.00µL	E2300802-002 1,000.00µL	E2300802-003 1,000.00µL
E2300802-004 1,000.00µL	E2300804-001 1,000.00µL	E2300824-001 1,000.00µL	EQ2300441-01 1,000.00µL	EQ2300441-02 1,000.00µL	EQ2300441-03 1,000.00µL
EQ2300441-04 1,000.00µL	EQ2300441-05 1,000.00µL	K2310074-001 1,000.00µL			

Prep Run#: 426301
Team: Semivoa GCMS/OOLUJIMI

Prep WorkFlow: OrgExtDioxS(30)
Prep Method: Method

Status: Prepped
Prep Date/Time: 9/12/23 09:59

Preparation Materials

Carbon, High Purity	cg 6/7/23 (229692)	Ethyl Acetate 99.9% Minimum EtOAc	OO 4/24/23 C4H8O4 (228820)	Glass Wool	DD 8/8/2023 (230782)
Sulfuric Acid Reagent Grade H2SO4	TW 04/28/23 (228939)	Hexanes 95%	JS 8/9/2023 Hexanes (230809)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	OO 4/24/23 CH2CL2 (228819)
Sodium Hydroxide 1N NaOH	DD082123 (230964)	Sodium Sulfate Anhydrous Reagent Grade Na2SO4	TW 05/18/23 (229795)	Silica Gel	OO/7/14/23 silica (230290)
Toluene 99.9% Minimum	tw 07/27/23 toluene (230539)				

Preparation Steps

Step: Extraction	Step: Acid Clean	Step: Silica Gel Clean	Step: Final Volume
Started: 9/12/23 09:59	Started: 9/13/23 09:05	Started: 9/13/23 10:10	Started: 9/13/23 12:15
Finished: 9/13/23 09:00	Finished: 9/13/23 09:35	Finished: 9/13/23 12:15	Finished: 9/13/23 16:00
By: OOLUJIMI	By: DDO	By: DDO	By: DDO
Comments	Comments	Comments	Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>
Received By: _____	Date: _____	Yes No



Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: 08/30/23 08:43
Date Received: 08/31/23 16:54

Sample Name: PTS-02-SL-20230830
Lab Code: E2300794-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.090g
Data File Name: P544741
ICAL Date: 07/12/23

Date Analyzed: 09/19/23 22:58
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544738

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	ND	U	0.00000458	5
1,2,3,7,8-PeCDD	ND	U	0.0000229	5
1,2,3,6,7,8-HxCDD	ND	U	0.0000229	5
1,2,3,4,7,8-HxCDD	ND	U	0.0000229	5
1,2,3,7,8,9-HxCDD	ND	U	0.0000229	5
1,2,3,4,6,7,8-HpCDD	0.0000337		0.0000229	5
OCDD	0.000285		0.0000458	5
2,3,7,8-TCDF	ND	U	0.00000458	5
1,2,3,7,8-PeCDF	ND	U	0.0000229	5
2,3,4,7,8-PeCDF	ND	U	0.0000229	5
1,2,3,6,7,8-HxCDF	ND	U	0.0000229	5
1,2,3,7,8,9-HxCDF	ND	U	0.0000229	5
1,2,3,4,7,8-HxCDF	ND	U	0.0000229	5
2,3,4,6,7,8-HxCDF	ND	U	0.0000229	5
1,2,3,4,6,7,8-HpCDF	ND	U	0.0000229	5
1,2,3,4,7,8,9-HpCDF	ND	U	0.0000229	5
OCDF	ND	U	0.0000458	5

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: 08/30/23 08:43
Date Received: 08/31/23 16:54

Sample Name: PTS-02-SL-20230830
Lab Code: E2300794-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.090g

Date Analyzed: 09/19/23 22:58
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544738

Data File Name: P544741
ICAL Date: 07/12/23

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	ND	U	0.00000458	5
Total Penta-Dioxins	ND	U	0.0000229	5
Total Hexa-Dioxins	ND	U	0.0000229	5
Total Hepta-Dioxins	0.0000690		0.0000229	5
Total Tetra-Furans	ND	U	0.00000458	5
Total Penta-Furans	ND	U	0.0000229	5
Total Hexa-Furans	ND	U	0.0000229	5
Total Hepta-Furans	ND	U	0.0000229	5

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Sample Name: PTS-02-SL-20230830
Lab Code: E2300794-001

Service Request: E2300794
Date Collected: 08/30/23 08:43
Date Received: 08/31/23 16:54

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.090g

Data File Name: P544741
ICAL Date: 07/12/23

Date Analyzed: 09/19/23 22:58
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544738

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1497.884	75		40-135	0.78	1.029
13C-1,2,3,7,8-PeCDD	2000	1784.194	89		40-135	1.57	1.235
13C-1,2,3,4,7,8-HxCDD	2000	1669.013	83		40-135	1.35	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1684.290	84		40-135	1.21	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1494.230	75		40-135	1.10	1.070
13C-OCDD	4000	3319.814	83		40-135	0.91	1.141
13C-2,3,7,8-TCDF	2000	1242.812	62		40-135	0.77	0.992
13C-1,2,3,7,8-PeCDF	2000	1658.405	83		40-135	1.59	1.184
13C-2,3,4,7,8-PeCDF	2000	1527.097	76		40-135	1.60	1.224
13C-1,2,3,4,7,8-HxCDF	2000	1619.460	81		40-135	0.50	0.969
13C-1,2,3,6,7,8-HxCDF	2000	1348.155	67		40-135	0.53	0.972
13C-1,2,3,7,8,9-HxCDF	2000	1400.526	70		40-135	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1410.259	71		40-135	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1391.183	70		40-135	0.43	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1482.489	74		40-135	0.43	1.081
37Cl-2,3,7,8-TCDD	160	128.985	81		40-135	NA	1.030

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: 08/30/23 08:43
Date Received: 08/31/23 16:54

Sample Name: PTS-02-SL-20230830
Lab Code: E2300794-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL		Dilution Factor		
2,3,7,8-TCDD	ND	0.00000371	0.00000458	5	1	
1,2,3,7,8-PeCDD	ND	0.00000124	0.0000229	5	1	
1,2,3,6,7,8-HxCDD	ND	0.00000115	0.0000229	5	0.1	
1,2,3,4,7,8-HxCDD	ND	0.00000119	0.0000229	5	0.1	
1,2,3,7,8,9-HxCDD	ND	0.00000112	0.0000229	5	0.1	
1,2,3,4,6,7,8-HpCDD	0.0000337	0.00000135	0.0000229	5	0.01	0.000000337
OCDD	0.000285	0.00000203	0.0000458	5	0.0003	0.0000000855
2,3,7,8-TCDF	ND	0.00000422	0.00000458	5	0.1	
1,2,3,7,8-PeCDF	ND	0.00000264	0.0000229	5	0.03	
2,3,4,7,8-PeCDF	ND	0.00000225	0.0000229	5	0.3	
1,2,3,6,7,8-HxCDF	ND	0.00000118	0.0000229	5	0.1	
1,2,3,7,8,9-HxCDF	ND	0.00000118	0.0000229	5	0.1	
1,2,3,4,7,8-HxCDF	ND	0.00000107	0.0000229	5	0.1	
2,3,4,6,7,8-HxCDF	ND	0.00000122	0.0000229	5	0.1	
1,2,3,4,6,7,8-HpCDF	ND	0.00000094	0.0000229	5	0.01	
1,2,3,4,7,8,9-HpCDF	ND	0.00000105	0.0000229	5	0.01	
OCDF	ND	0.00000193	0.0000458	5	0.0003	
Total TEQ						0.000000423

2005 WHO TEFs, ND = 0

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil
Sample Name: PTS-02-SL-20230830
Lab Code: E2300794-001

Service Request: E2300794
Date Collected: 08/30/23 08:43
Date Received: 08/31/23 16:54
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
 5.2343g

Date Analyzed: 09/14/23 10:10
 NA
 E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	54.1		-	-			1

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300441-01

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.202g
Data File Name: P544662
ICAL Date: 07/12/23

Date Analyzed: 09/16/23 03:08
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544659

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	ND	U	0.000000490	1
1,2,3,7,8-PeCDD	ND	U	0.00000245	1
1,2,3,6,7,8-HxCDD	ND	U	0.00000245	1
1,2,3,4,7,8-HxCDD	ND	U	0.00000245	1
1,2,3,7,8,9-HxCDD	ND	U	0.00000245	1
1,2,3,4,6,7,8-HpCDD	ND	U	0.00000245	1
OCDD	ND	U	0.00000490	1
2,3,7,8-TCDF	ND	U	0.000000490	1
1,2,3,7,8-PeCDF	ND	U	0.00000245	1
2,3,4,7,8-PeCDF	ND	U	0.00000245	1
1,2,3,6,7,8-HxCDF	ND	U	0.00000245	1
1,2,3,7,8,9-HxCDF	ND	U	0.00000245	1
1,2,3,4,7,8-HxCDF	ND	U	0.00000245	1
2,3,4,6,7,8-HxCDF	ND	U	0.00000245	1
1,2,3,4,6,7,8-HpCDF	ND	U	0.00000245	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.00000245	1
OCDF	ND	U	0.00000490	1

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300441-01

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.202g

Data File Name: P544662
ICAL Date: 07/12/23

Date Analyzed: 09/16/23 03:08
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544659

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	ND	U	0.000000490	1
Total Penta-Dioxins	ND	U	0.00000245	1
Total Hexa-Dioxins	ND	U	0.00000245	1
Total Hepta-Dioxins	ND	U	0.00000245	1
Total Tetra-Furans	ND	U	0.000000490	1
Total Penta-Furans	ND	U	0.00000245	1
Total Hexa-Furans	ND	U	0.00000245	1
Total Hepta-Furans	ND	U	0.00000245	1

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300441-01

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.202g

Data File Name: P544662
ICAL Date: 07/12/23

Date Analyzed: 09/16/23 03:08
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544659

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1498.466	75		40-135	0.77	1.027
13C-1,2,3,7,8-PeCDD	2000	1554.499	78		40-135	1.57	1.224
13C-1,2,3,4,7,8-HxCDD	2000	1724.490	86		40-135	1.26	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1737.725	87		40-135	1.32	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1332.630	67		40-135	1.08	1.070
13C-OCDD	4000	2303.960	58		40-135	0.89	1.142
13C-2,3,7,8-TCDF	2000	1243.340	62		40-135	0.80	0.992
13C-1,2,3,7,8-PeCDF	2000	1311.033	66		40-135	1.64	1.175
13C-2,3,4,7,8-PeCDF	2000	1328.171	66		40-135	1.59	1.213
13C-1,2,3,4,7,8-HxCDF	2000	1374.679	69		40-135	0.48	0.968
13C-1,2,3,6,7,8-HxCDF	2000	1332.625	67		40-135	0.49	0.972
13C-1,2,3,7,8,9-HxCDF	2000	1143.190	57		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1266.299	63		40-135	0.46	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1124.951	56		40-135	0.43	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1214.174	61		40-135	0.43	1.082
37Cl-2,3,7,8-TCDD	800	1289.397	161	Y	40-135	NA	1.028



Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
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Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

QA/QC Report

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Analyzed: 09/16/23 - 09/20/23
Date Extracted: 09/12/23

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Units: mg/Kg
Basis: Dry
Analysis Lot: 817661

Lab Control Sample
EQ2300441-02

Duplicate Lab Control Sample
EQ2300441-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	0.0000913	0.0000980	93	0.0000936	0.0000991	94	70-130	3	25
1,2,3,4,7,8-HxCDD	0.0000692	0.0000980	71	0.0000757	0.0000991	76	70-130	9	25
1,2,3,6,7,8-HxCDD	0.0000787	0.0000980	80	0.0000845	0.0000991	85	70-130	7	25
1,2,3,7,8,9-HxCDD	0.0000743	0.0000980	76	0.0000770	0.0000991	78	70-130	3	25
1,2,3,7,8-PeCDD	0.0000869	0.0000980	89	0.0000905	0.0000991	91	70-130	4	25
2,3,7,8-TCDD	0.0000158	0.0000196	81	0.0000185	0.0000198	93	70-130	16	25
OCDD	0.000184	0.000196	94	0.000188	0.000198	95	70-130	3	25
1,2,3,4,6,7,8-HpCDF	0.0000899	0.0000980	92	0.000105	0.0000991	106	70-130	16	25
1,2,3,4,7,8,9-HpCDF	0.0000822	0.0000980	84	0.0000992	0.0000991	100	70-130	19	25
1,2,3,4,7,8-HxCDF	0.0000764	0.0000980	78	0.0000859	0.0000991	87	70-130	12	25
1,2,3,6,7,8-HxCDF	0.0000834	0.0000980	85	0.000102	0.0000991	103	70-130	20	25
1,2,3,7,8,9-HxCDF	0.0000831	0.0000980	85	0.0000990	0.0000991	100	70-130	17	25
1,2,3,7,8-PeCDF	0.0000865	0.0000980	88	0.0000995	0.0000991	100	70-130	14	25
2,3,4,6,7,8-HxCDF	0.0000849	0.0000980	87	0.000101	0.0000991	102	70-130	17	25
2,3,4,7,8-PeCDF	0.0000845	0.0000980	86	0.0000984	0.0000991	99	70-130	15	25
2,3,7,8-TCDF	0.0000160	0.0000196	82	0.0000187	0.0000198	94	70-130	15	25
OCDF	0.000177	0.000196	90	0.000207	0.000198	104	70-130	16	25

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300441-02

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.204g

Data File Name: P544669
ICAL Date: 07/12/23

Date Analyzed: 09/16/23 08:47
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544659

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.0000158		0.000000490	1
1,2,3,7,8-PeCDD	0.0000869		0.00000245	1
1,2,3,6,7,8-HxCDD	0.0000787		0.00000245	1
1,2,3,4,7,8-HxCDD	0.0000692		0.00000245	1
1,2,3,7,8,9-HxCDD	0.0000743		0.00000245	1
1,2,3,4,6,7,8-HpCDD	0.0000913		0.00000245	1
OCDD	0.000184		0.00000490	1
2,3,7,8-TCDF	0.0000160		0.000000490	1
1,2,3,7,8-PeCDF	0.0000865		0.00000245	1
2,3,4,7,8-PeCDF	0.0000845		0.00000245	1
1,2,3,6,7,8-HxCDF	0.0000834		0.00000245	1
1,2,3,7,8,9-HxCDF	0.0000831		0.00000245	1
1,2,3,4,7,8-HxCDF	0.0000764		0.00000245	1
2,3,4,6,7,8-HxCDF	0.0000849		0.00000245	1
1,2,3,4,6,7,8-HpCDF	0.0000899		0.00000245	1
1,2,3,4,7,8,9-HpCDF	0.0000822		0.00000245	1
OCDF	0.000177		0.00000490	1

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300441-02

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.204g

Data File Name: P544669
ICAL Date: 07/12/23

Date Analyzed: 09/16/23 08:47
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544659

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.0000160		0.000000490	1
Total Penta-Dioxins	0.0000869		0.00000245	1
Total Hexa-Dioxins	0.000222		0.00000245	1
Total Hepta-Dioxins	0.0000927		0.00000245	1
Total Tetra-Furans	0.0000160		0.000000490	1
Total Penta-Furans	0.000174		0.00000245	1
Total Hexa-Furans	0.000328		0.00000245	1
Total Hepta-Furans	0.0000822		0.00000245	1

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300441-02

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.204g

Data File Name: P544669
ICAL Date: 07/12/23

Date Analyzed: 09/16/23 08:47
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544659

Labeled Standard Results

<u>Labeled Compounds</u>	<u>Spike Conc.(pg)</u>	<u>Conc. Found (pg)</u>	<u>% Rec</u>	<u>Q</u>	<u>Control Limits</u>	<u>Ion Ratio</u>	<u>RRT</u>
13C-2,3,7,8-TCDD	2000	1551.517	78		40-135	0.73	1.027
13C-1,2,3,7,8-PeCDD	2000	1666.303	83		40-135	1.56	1.224
13C-1,2,3,4,7,8-HxCDD	2000	1764.821	88		40-135	1.30	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1737.229	87		40-135	1.30	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1349.501	67		40-135	1.06	1.070
13C-OCDD	4000	2181.005	55		40-135	0.87	1.142
13C-2,3,7,8-TCDF	2000	1341.215	67		40-135	0.81	0.992
13C-1,2,3,7,8-PeCDF	2000	1441.310	72		40-135	1.58	1.175
13C-2,3,4,7,8-PeCDF	2000	1468.305	73		40-135	1.62	1.213
13C-1,2,3,4,7,8-HxCDF	2000	1413.142	71		40-135	0.50	0.968
13C-1,2,3,6,7,8-HxCDF	2000	1315.908	66		40-135	0.49	0.972
13C-1,2,3,7,8,9-HxCDF	2000	1175.714	59		40-135	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1309.783	65		40-135	0.49	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1151.563	58		40-135	0.43	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1243.981	62		40-135	0.41	1.082
37Cl-2,3,7,8-TCDD	800	1351.795	169	Y	40-135	NA	1.028

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300441-03

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.088g

Data File Name: P544750
ICAL Date: 07/12/23

Date Analyzed: 09/20/23 06:14
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544738

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
2,3,7,8-TCDD	0.0000185		0.000000496	1
1,2,3,7,8-PeCDD	0.0000905		0.00000248	1
1,2,3,6,7,8-HxCDD	0.0000845		0.00000248	1
1,2,3,4,7,8-HxCDD	0.0000757		0.00000248	1
1,2,3,7,8,9-HxCDD	0.0000770		0.00000248	1
1,2,3,4,6,7,8-HpCDD	0.0000936		0.00000248	1
OCDD	0.000188		0.00000496	1
2,3,7,8-TCDF	0.0000187		0.000000496	1
1,2,3,7,8-PeCDF	0.0000995		0.00000248	1
2,3,4,7,8-PeCDF	0.0000984		0.00000248	1
1,2,3,6,7,8-HxCDF	0.000102		0.00000248	1
1,2,3,7,8,9-HxCDF	0.0000990		0.00000248	1
1,2,3,4,7,8-HxCDF	0.0000859		0.00000248	1
2,3,4,6,7,8-HxCDF	0.000101		0.00000248	1
1,2,3,4,6,7,8-HpCDF	0.000105		0.00000248	1
1,2,3,4,7,8,9-HpCDF	0.0000992		0.00000248	1
OCDF	0.000207		0.00000496	1

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300441-03

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.088g

Data File Name: P544750
ICAL Date: 07/12/23

Date Analyzed: 09/20/23 06:14
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544738

Native Analyte Results

Analyte Name	Result	Q	MRL	Dilution Factor
Total Tetra-Dioxins	0.0000185		0.000000496	1
Total Penta-Dioxins	0.0000905		0.00000248	1
Total Hexa-Dioxins	0.000237		0.00000248	1
Total Hepta-Dioxins	0.0000936		0.00000248	1
Total Tetra-Furans	0.0000187		0.000000496	1
Total Penta-Furans	0.000198		0.00000248	1
Total Hexa-Furans	0.000388		0.00000248	1
Total Hepta-Furans	0.000204		0.00000248	1

Client: ALS Environmental - US
Project: HS23082015
Sample Matrix: Soil

Service Request: E2300794
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300441-03

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.088g

Date Analyzed: 09/20/23 06:14
Date Extracted: 9/12/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P544662
Cal Ver. File Name: P544738

Data File Name: P544750
ICAL Date: 07/12/23

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1233.342	62		40-135	0.79	1.028
13C-1,2,3,7,8-PeCDD	2000	1512.516	76		40-135	1.64	1.231
13C-1,2,3,4,7,8-HxCDD	2000	1714.449	86		40-135	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1570.279	79		40-135	1.31	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1403.378	70		40-135	1.12	1.071
13C-OCDD	4000	2615.968	65		40-135	0.89	1.142
13C-2,3,7,8-TCDF	2000	1073.526	54		40-135	0.81	0.990
13C-1,2,3,7,8-PeCDF	2000	1295.277	65		40-135	1.60	1.180
13C-2,3,4,7,8-PeCDF	2000	1319.240	66		40-135	1.58	1.220
13C-1,2,3,4,7,8-HxCDF	2000	1484.599	74		40-135	0.51	0.968
13C-1,2,3,6,7,8-HxCDF	2000	1327.265	66		40-135	0.51	0.972
13C-1,2,3,7,8,9-HxCDF	2000	1276.428	64		40-135	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1273.859	64		40-135	0.50	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1176.799	59		40-135	0.44	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1379.814	69		40-135	0.45	1.083
37Cl-2,3,7,8-TCDD	800	1070.007	134		40-135	NA	1.029



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November 07, 2023

Cecilia Anderson
Environmental Resources Mgmt.
CityCentre Four
840 W. Sam Houston Pkwy., Suite 600
Houston, TX 77024

Work Order: **HS23071844**

Laboratory Results for: **Preliminary Joliet Delisting**

Dear Cecilia Anderson,

ALS Environmental received 3 sample(s) on Jul 28, 2023 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,



Generated By: JUMOKE.LAWAL
Bernadette A. Fini
Project Manager

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23071844

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23071844-01	PTS-01-SL-20230727	Soil		27-Jul-2023 08:45	28-Jul-2023 09:50	<input type="checkbox"/>
HS23071844-02	DUP-01-SL-20230727	Soil		27-Jul-2023 08:50	28-Jul-2023 09:50	<input type="checkbox"/>
HS23071844-03	TB-01-SL-20230727	Water	CG-061323 -575	27-Jul-2023 00:00	28-Jul-2023 09:50	<input type="checkbox"/>

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23071844

CASE NARRATIVE

Work Order Comments

- Report revised on November 7, 2023 to dry weight correct the data.

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier. The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.
- The analyses of SW8151 Herbicides was subcontracted to ALS Environmental in Kelso, WA. Final report attached.
- The analysis for Dioxins/Furans was subcontracted to our ALS Houston TX, High Resolution Lab. Final report attached
- The analysis for PCBs was subcontracted to ALS Environmental in Holland, MI. Final report attached.

ECD Organics by Method SW8151A

Batch ID: 198419

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ECD Organics by Method SW8081

Batch ID: 198509

Sample ID: DUP-01-SL-20230727 (HS23071844-02)

- This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Sample ID: PTS-01-SL-20230727 (HS23071844-01)

- This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Sample ID: LCS-198509

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS/LCSD.

Sample ID: PTS-01-SL-20230727 (HS23071844-01MS)

- The MS and/or MSD recovery is unavailable due to sample matrix interference.
- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the MS/MSD.
- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: PTS-01-SL-20230727 (HS23071844-01MSD)

- The RPD between the MS and MSD was outside of the control limit.
- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23071844

CASE NARRATIVE

ECD Organics by Method SW8081

Batch ID: 198420

Sample ID: PTS-01-SL-20230727 (HS23071844-01)

- CCV %D was above the control limits. The associated sample results are non detect. Dieldrin, Endrin, End II, Methoxychlor-Front column only

Sample ID: DUP-01-SL-20230727 (HS23071844-02MS)

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the MS.

Sample ID: LCS-198420

- The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS/LCSD.

GCMS Semivolatiles by Method SW8270

Batch ID: 198417

Sample ID: DUP-01-SL-20230727 (HS23071844-02)

- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Sample ID: PTS-01-SL-20230727 (HS23071844-01)

- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Sample ID: LCS-198417

- Famphur have poor extraction efficiency and the recovery was below the default lower control limit . All sample results in the batch were non-detect.

Sample ID: LCSD-198417

- The Famphur and 2- Naphthylamine have poor extraction efficiency and the recovery was below the default lower control limit . All sample results in the batch were non-detect.

Sample ID: HS23071829-01MS

- MS and MSD are for an unrelated sample

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23071844

CASE NARRATIVE

GCMS Semivolatiles by Method SW8270

Batch ID: 198539

Sample ID: DUP-01-SL-20230727 (HS23071844-02)

- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Sample ID: PTS-01-SL-20230727 (HS23071844-01)

- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Sample ID: DUP-01-SL-20230727 (HS23071844-02MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

Sample ID: DUP-01-SL-20230727 (HS23071844-02MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.
- The RPD between the MS and MSD was outside of the control limit.

Sample ID: LCS-198539

- The Famphur and 1- Naphthylamine have poor extraction efficiency and the recovery was below the default lower control limit . All sample results in the batch were non-detect. No qualification is required for this analyte

GCMS Volatiles by Method SW8260

Batch ID: 198425

Sample ID: HS23071877-01MS

- MS is performed on unrelated sample

Batch ID: R443044

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R442947

Sample ID: HS23080085-01MS

- MS and MSD are for an unrelated sample

Batch ID: R443066

Sample ID: CCV

- Acetone exceeded %D recovery limits for CCV .Sample is ND for this compound.

Sample ID: HS23071846-06MS

- MS and MSD are for an unrelated sample

Sample ID: VLCSW-230802

- Acetone is also high for LCS.

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23071844

CASE NARRATIVE

Metals by Method SW7040

Batch ID: 198847,198848

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW1311/6020

Batch ID: 198811,198850,198851,199633,199733,199734

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7470A

Batch ID: 198793

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW7471B

Batch ID: 198712

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 198705

Sample ID: HS23070823-04MS

- MS and MSD are for an unrelated sample

WetChemistry by Method SW7.3.4.2

Batch ID: R443688

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2

Batch ID: R443690

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9045D

Batch ID: R443694

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D2216

Batch ID: R443653

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
Work Order: HS23071844

CASE NARRATIVE

WetChemistry by Method SW9056

Batch ID: 198719

Sample ID: HS23071871-01MS

- MS and MSD are for an unrelated sample (Fluoride)
-

WetChemistry by Method ASTM D92-12b

Batch ID: R443115

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

WetChemistry by Method SM4500 S2-F

Batch ID: 198521

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

WetChemistry by Method SW9014

Batch ID: 198493

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method: SW8260		Leache: SW1311 / 02-Aug-2023	Prep: SW1311 / 02-Aug-2023		Analyst: FT
1,1,1,2-Tetrachloroethane	U		0.0060	0.10	mg/L	20	03-Aug-2023 15:45
1,1,1-Trichloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
1,1,2,2-Tetrachloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
1,1,2-Trichloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
1,1-Dichloroethane	U		0.0080	0.10	mg/L	20	03-Aug-2023 15:45
1,1-Dichloroethene	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
1,2-Dibromoethane	U		0.0080	0.10	mg/L	20	03-Aug-2023 15:45
1,2-Dichlorobenzene	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
1,2-Dichloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
1,2-Dichloropropane	U		0.014	0.10	mg/L	20	03-Aug-2023 15:45
1,3-Dichlorobenzene	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
1,4-Dichlorobenzene	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
1,4-Dioxane	U		0.82	2.0	mg/L	20	03-Aug-2023 15:45
2-Butanone	U		0.020	0.20	mg/L	20	03-Aug-2023 15:45
2-Chloro-1,3-butadiene	U		0.020	0.10	mg/L	20	03-Aug-2023 15:45
2-Hexanone	U		0.020	0.20	mg/L	20	03-Aug-2023 15:45
4-Methyl-2-pentanone	U		0.020	0.20	mg/L	20	03-Aug-2023 15:45
Acetone	U		0.040	0.20	mg/L	20	03-Aug-2023 15:45
Acetonitrile	U		0.50	1.0	mg/L	20	03-Aug-2023 15:45
Acrolein	U		0.12	0.40	mg/L	20	03-Aug-2023 15:45
Acrylonitrile	U		0.10	0.20	mg/L	20	03-Aug-2023 15:45
Allyl Chloride	U		0.060	0.20	mg/L	20	03-Aug-2023 15:45
Benzene	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Bromodichloromethane	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Bromoform	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Bromomethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Carbon disulfide	U		0.018	0.20	mg/L	20	03-Aug-2023 15:45
Carbon tetrachloride	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Chlorobenzene	U		0.0080	0.10	mg/L	20	03-Aug-2023 15:45
Chloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Chloroform	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Chloromethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
cis-1,3-Dichloropropene	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Dibromochloromethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Dibromomethane	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Dichlorodifluoromethane	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Ethyl methacrylate	U		0.020	0.10	mg/L	20	03-Aug-2023 15:45
Ethylbenzene	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Iodomethane	U		0.040	0.20	mg/L	20	03-Aug-2023 15:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT

WorkOrder:HS23071844
 Lab ID:HS23071844-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method:SW8260		Leache:SW1311 / 02-Aug-2023	Prep:SW1311 / 02-Aug-2023		Analyst: FT
Isobutyl alcohol	U		0.52	2.0	mg/L	20	03-Aug-2023 15:45
Methacrylonitrile	U		0.020	0.10	mg/L	20	03-Aug-2023 15:45
Methyl methacrylate	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Methylene chloride	U		0.020	0.20	mg/L	20	03-Aug-2023 15:45
Propionitrile	U		0.40	1.0	mg/L	20	03-Aug-2023 15:45
Styrene	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Tetrachloroethene	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Toluene	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
trans-1,2-Dichloroethene	U		0.0080	0.10	mg/L	20	03-Aug-2023 15:45
trans-1,3-Dichloropropene	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
trans-1,4-Dichloro-2-butene	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Trichloroethene	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Trichlorofluoromethane	U		0.012	0.10	mg/L	20	03-Aug-2023 15:45
Vinyl acetate	U		0.050	0.20	mg/L	20	03-Aug-2023 15:45
Vinyl chloride	U		0.0080	0.040	mg/L	20	03-Aug-2023 15:45
Xylenes, Total	U		0.010	0.10	mg/L	20	03-Aug-2023 15:45
Surr: 1,2-Dichloroethane-d4	98.7			70-126	%REC	20	03-Aug-2023 15:45
Surr: 4-Bromofluorobenzene	99.9			82-124	%REC	20	03-Aug-2023 15:45
Surr: Dibromofluoromethane	93.5			77-123	%REC	20	03-Aug-2023 15:45
Surr: Toluene-d8	100			82-127	%REC	20	03-Aug-2023 15:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method: SW8260					Analyst: WLR
1,1,1,2-Tetrachloroethane	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,1,1-Trichloroethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,1,2,2-Tetrachloroethane	U		0.0020	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,1,2-Trichloroethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,1-Dichloroethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,1-Dichloroethene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,2-Dibromoethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,2-Dichlorobenzene	U		0.0026	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,2-Dichloroethane	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,2-Dichloropropane	U		0.0020	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,3-Dichlorobenzene	U		0.0026	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,4-Dichlorobenzene	U		0.0026	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
1,4-Dioxane	U		0.051	0.26	mg/Kg-dry	1	02-Aug-2023 09:36
2-Butanone	U		0.0033	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
2-Chloro-1,3-butadiene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
2-Hexanone	U		0.0036	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
4-Methyl-2-pentanone	U		0.0051	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
Acetone	0.93		0.0051	0.051	mg/Kg-dry	1	02-Aug-2023 09:36
Acetonitrile	U		0.051	0.13	mg/Kg-dry	1	02-Aug-2023 09:36
Acrolein	U		0.0051	0.051	mg/Kg-dry	1	02-Aug-2023 09:36
Acrylonitrile	U		0.0061	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
Allyl Chloride	U		0.0026	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
Benzene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Bromodichloromethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Bromoform	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Bromomethane	U		0.0026	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
Carbon disulfide	U		0.0015	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
Carbon tetrachloride	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Chlorobenzene	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Chloroethane	U		0.0020	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
Chloroform	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Chloromethane	U		0.0013	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
cis-1,3-Dichloropropene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Dibromochloromethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Dibromomethane	U		0.0023	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Dichlorodifluoromethane	U		0.0018	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Ethyl methacrylate	0.42		0.0026	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Ethylbenzene	1.2		0.10	0.74	mg/Kg-dry	50	02-Aug-2023 13:50
Iodomethane	U		0.0018	0.026	mg/Kg-dry	1	02-Aug-2023 09:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method: SW8260			Analyst: WLR		
Isobutyl alcohol	U		0.13	0.26	mg/Kg-dry	1	02-Aug-2023 09:36
Methacrylonitrile	U		0.013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Methyl methacrylate	U		0.013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Methylene chloride	U		0.0026	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
Propionitrile	U		0.13	0.13	mg/Kg-dry	1	02-Aug-2023 09:36
Styrene	U		0.0018	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Tetrachloroethene	U		0.0018	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Toluene	0.46		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
trans-1,2-Dichloroethene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
trans-1,3-Dichloropropene	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
trans-1,4-Dichloro-2-butene	U		0.0026	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Trichloroethene	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Trichlorofluoromethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Vinyl acetate	U		0.0026	0.026	mg/Kg-dry	1	02-Aug-2023 09:36
Vinyl chloride	U		0.0020	0.013	mg/Kg-dry	1	02-Aug-2023 09:36
Xylenes, Total	6.7		0.15	0.74	mg/Kg-dry	50	02-Aug-2023 13:50
Surr: 1,2-Dichloroethane-d4	117			70-126	%REC	1	02-Aug-2023 09:36
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	50	02-Aug-2023 13:50
Surr: 4-Bromofluorobenzene	108			70-130	%REC	1	02-Aug-2023 09:36
Surr: 4-Bromofluorobenzene	95.4			70-130	%REC	50	02-Aug-2023 13:50
Surr: Dibromofluoromethane	105			70-130	%REC	1	02-Aug-2023 09:36
Surr: Dibromofluoromethane	92.1			70-130	%REC	50	02-Aug-2023 13:50
Surr: Toluene-d8	119			70-130	%REC	1	02-Aug-2023 09:36
Surr: Toluene-d8	106			70-130	%REC	50	02-Aug-2023 13:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 02-Aug-2023	Prep: SW3510 / 02-Aug-2023		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
1,2,4-Trichlorobenzene	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
1,3-Dinitrobenzene	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
1,4-Dioxane	U		0.025	0.050	mg/L	10	07-Aug-2023 17:33
1,4-Naphthoquinone	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
1-Naphthylamine	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
2,3,4,6-Tetrachlorophenol	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
2,4,5-Trichlorophenol	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
2,4,6-Trichlorophenol	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
2,4-Dichlorophenol	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
2,4-Dimethylphenol	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
2,4-Dinitrophenol	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
2,4-Dinitrotoluene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
2,6-Dichlorophenol	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
2,6-Dinitrotoluene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
2-Acetylaminofluorene	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
2-Chloronaphthalene	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
2-Chlorophenol	U		0.010	0.050	mg/L	10	07-Aug-2023 17:33
2-Methylnaphthalene	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
2-Methylphenol	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
2-Naphthylamine	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
2-Nitroaniline	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
2-Nitrophenol	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
2-Picoline	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
3&4-Methylphenol	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
3,3'-Dichlorobenzidine	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
3,3'-Dimethylbenzidine	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
3-Methylcholanthrene	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
3-Nitroaniline	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
4,6-Dinitro-2-methylphenol	U		0.0090	0.050	mg/L	10	07-Aug-2023 17:33
4-Aminobiphenyl	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
4-Chloroaniline	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
4-Chlorophenyl phenyl ether	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
4-Nitroaniline	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
4-Nitrophenol	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
4-Nitroquinoline-1-oxide	U		0.016	0.050	mg/L	10	07-Aug-2023 17:33
5-Nitro-o-toluidine	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
7,12-Dimethylbenz(a)anthracene	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
a,a-Dimethylphenethylamine	U		0.0090	0.050	mg/L	10	07-Aug-2023 17:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 02-Aug-2023	Prep: SW3510 / 02-Aug-2023		Analyst: GEY
Acenaphthene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Acenaphthylene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Acetophenone	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Aniline	U		0.014	0.050	mg/L	10	07-Aug-2023 17:33
Anthracene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Aramite	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Benz(a)anthracene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Benzo(a)pyrene	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Benzo(b)fluoranthene	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Benzo(g,h,i)perylene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Benzo(k)fluoranthene	U		0.0070	0.050	mg/L	10	07-Aug-2023 17:33
Benzyl alcohol	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Bis(2-chloroethoxy)methane	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Bis(2-chloroethyl)ether	U		0.0070	0.050	mg/L	10	07-Aug-2023 17:33
Bis(2-chloroisopropyl)ether	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
Bis(2-ethylhexyl)phthalate	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
Butyl benzyl phthalate	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Chlorobenzilate	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Chrysene	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
Di-n-butyl phthalate	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
Di-n-octyl phthalate	U		0.020	0.050	mg/L	10	07-Aug-2023 17:33
Diallate	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Dibenz(a,h)anthracene	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Dibenzofuran	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Diethyl phthalate	U		0.0070	0.050	mg/L	10	07-Aug-2023 17:33
Dimethoate	U		0.0070	0.050	mg/L	10	07-Aug-2023 17:33
Dimethyl phthalate	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Dinoseb	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Diphenylamine	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Disulfoton	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Ethyl methanesulfonate	U		0.0090	0.050	mg/L	10	07-Aug-2023 17:33
Ethyl parathion	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Famphur	U		0.050	0.050	mg/L	10	07-Aug-2023 17:33
Fluoranthene	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Fluorene	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Hexachlorobenzene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Hexachlorobutadiene	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Hexachlorocyclopentadiene	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Hexachloroethane	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 02-Aug-2023	Prep: SW3510 / 02-Aug-2023		Analyst: GEY
Hexachlorophene	U		0.090	0.25	mg/L	10	07-Aug-2023 17:33
Hexachloropropene	U		0.0070	0.050	mg/L	10	07-Aug-2023 17:33
Indeno(1,2,3-cd)pyrene	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Isodrin	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Isophorone	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Isosafrole	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Kepone	U		0.0070	0.050	mg/L	10	07-Aug-2023 17:33
Methapyrilene	U		0.017	0.050	mg/L	10	07-Aug-2023 17:33
Methyl methanesulfonate	U		0.014	0.050	mg/L	10	07-Aug-2023 17:33
Methyl parathion	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
N-Nitroso-di-n-butylamine	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
N-Nitrosodiethylamine	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
N-Nitrosodimethylamine	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
N-Nitrosodiphenylamine	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
N-Nitrosomethylethylamine	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
N-Nitrosomorpholine	U		0.0070	0.050	mg/L	10	07-Aug-2023 17:33
N-Nitrosopiperidine	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
N-Nitrosopyrrolidine	U		0.0090	0.050	mg/L	10	07-Aug-2023 17:33
Naphthalene	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Nitrobenzene	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
o-Toluidine	U		0.0070	0.050	mg/L	10	07-Aug-2023 17:33
p-Dimethylaminoazobenzene	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
p-Phenylenediamine	U		0.011	0.050	mg/L	10	07-Aug-2023 17:33
Pentachlorobenzene	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Pentachloroethane	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Pentachloronitrobenzene	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Pentachlorophenol	U		0.0080	0.050	mg/L	10	07-Aug-2023 17:33
Phenacetin	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Phenanthrene	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Phenol	U		0.0040	0.050	mg/L	10	07-Aug-2023 17:33
Phorate	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Pronamide	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Pyrene	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Pyridine	U		0.0030	0.050	mg/L	10	07-Aug-2023 17:33
Safrole	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Tetraethylthiopyrophosphate	U		0.0060	0.050	mg/L	10	07-Aug-2023 17:33
Thionazin	U		0.0050	0.050	mg/L	10	07-Aug-2023 17:33
Surr: 2,4,6-Tribromophenol	78.3			39-153	%REC	10	07-Aug-2023 17:33
Surr: 2-Fluorobiphenyl	86.4			40-147	%REC	10	07-Aug-2023 17:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT

WorkOrder:HS23071844
 Lab ID:HS23071844-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES			Method:SW8270	Leache:SW1311 / 02-Aug-2023	Prep:SW3510 / 02-Aug-2023		Analyst: GEY
Surr: 2-Fluorophenol	61.1			21-110	%REC	10	07-Aug-2023 17:33
Surr: 4-Terphenyl-d14	92.8			39-141	%REC	10	07-Aug-2023 17:33
Surr: Nitrobenzene-d5	78.5			37-140	%REC	10	07-Aug-2023 17:33
Surr: Phenol-d6	72.3			11-110	%REC	10	07-Aug-2023 17:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 04-Aug-2023		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.83	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
1,2,4-Trichlorobenzene	U		0.31	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
1,3-Dinitrobenzene	U		0.20	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
1,4-Dioxane	U		1.6	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
1,4-Naphthoquinone	U		0.71	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
1-Naphthylamine	U		0.49	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,3,4,6-Tetrachlorophenol	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,4,5-Trichlorophenol	U		0.41	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,4,6-Trichlorophenol	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,4-Dichlorophenol	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,4-Dimethylphenol	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,4-Dinitrophenol	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,4-Dinitrotoluene	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,6-Dichlorophenol	U		0.75	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2,6-Dinitrotoluene	U		0.20	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Acetylaminofluorene	U		0.33	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Chloronaphthalene	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Chlorophenol	U		0.20	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Methylnaphthalene	4.9		0.53	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Methylphenol	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Naphthylamine	U		0.37	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Nitroaniline	U		0.31	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Nitrophenol	U		0.35	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
2-Picoline	U		0.67	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
3&4-Methylphenol	2.9	J	0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
3,3'-Dichlorobenzidine	U		0.37	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
3,3'-Dimethylbenzidine	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
3-Methylcholanthrene	U		0.73	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
3-Nitroaniline	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
4,6-Dinitro-2-methylphenol	U		0.31	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
4-Aminobiphenyl	U		0.41	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
4-Chloroaniline	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
4-Chlorophenyl phenyl ether	U		0.31	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
4-Nitroaniline	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
4-Nitrophenol	U		0.31	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
4-Nitroquinoline-1-oxide	U		0.91	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
5-Nitro-o-toluidine	U		0.45	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
7,12-Dimethylbenz(a)anthracene	U		1.2	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
a,a-Dimethylphenethylamine	U		0.61	3.3	mg/Kg-dry	10	04-Aug-2023 20:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 04-Aug-2023		Analyst: GEY
Acenaphthene	4.7		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Acenaphthylene	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Acetophenone	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Aniline	U		0.49	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Anthracene	3.4		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Aramite	U		0.71	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Benz(a)anthracene	3.2	J	0.20	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Benzo(a)pyrene	1.7	J	0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Benzo(b)fluoranthene	0.71	J	0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Benzo(g,h,i)perylene	0.76	J	0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Benzo(k)fluoranthene	0.59	J	0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Benzyl alcohol	U		0.37	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Bis(2-chloroethoxy)methane	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Bis(2-chloroethyl)ether	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Bis(2-chloroisopropyl)ether	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Bis(2-ethylhexyl)phthalate	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Butyl benzyl phthalate	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Chlorobenzilate	U		0.79	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Chrysene	4.5		0.33	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Di-n-butyl phthalate	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Di-n-octyl phthalate	U		0.37	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Diallate	U		0.89	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Dibenz(a,h)anthracene	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Dibenzofuran	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Diethyl phthalate	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Dimethoate	U		0.51	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Dimethyl phthalate	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Dinoseb	U		0.49	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Diphenylamine	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Disulfoton	U		0.77	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Ethyl methanesulfonate	U		0.77	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Ethyl parathion	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Famphur	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Fluoranthene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Fluorene	6.6		0.33	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Hexachlorobenzene	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Hexachlorobutadiene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Hexachlorocyclopentadiene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Hexachloroethane	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 04-Aug-2023		Analyst: GEY
Hexachlorophene	U		33	33	mg/Kg-dry	10	04-Aug-2023 20:08
Hexachloropropene	U		0.77	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Indeno(1,2,3-cd)pyrene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Isodrin	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Isophorone	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Isosafrole	U		0.73	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Kepone	U		0.83	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Methapyrilene	U		0.92	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Methyl methanesulfonate	U		0.92	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Methyl parathion	U		0.51	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
N-Nitroso-di-n-butylamine	U		0.92	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
N-Nitrosodiethylamine	U		0.61	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
N-Nitrosodimethylamine	U		1.0	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
N-Nitrosodiphenylamine	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
N-Nitrosomethylethylamine	U		0.75	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
N-Nitrosomorpholine	U		0.47	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
N-Nitrosopiperidine	U		0.45	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
N-Nitrosopyrrolidine	U		0.45	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Naphthalene	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Nitrobenzene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
o-Toluidine	U		0.43	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
p-Dimethylaminoazobenzene	U		0.41	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
p-Phenylenediamine	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Pentachlorobenzene	U		0.83	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Pentachloroethane	U		0.96	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Pentachloronitrobenzene	U		0.83	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Pentachlorophenol	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Phenacetin	U		0.79	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Phenanthrene	16		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Phenol	1.5	J	0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Phorate	U		0.59	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Pronamide	U		0.77	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Pyrene	7.3		0.85	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Pyridine	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Safrole	U		0.65	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Tetraethylthiopyrophosphate	U		0.47	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
Thionazin	U		0.59	3.3	mg/Kg-dry	10	04-Aug-2023 20:08
<i>Surr: 2,4,6-Tribromophenol</i>	<i>75.7</i>			<i>36-126</i>	<i>%REC</i>	<i>10</i>	<i>04-Aug-2023 20:08</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>88.2</i>			<i>43-125</i>	<i>%REC</i>	<i>10</i>	<i>04-Aug-2023 20:08</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270		Prep: SW3541 / 04-Aug-2023		Analyst: GEY	
Surr: 2-Fluorophenol	46.4	J		37-125	%REC	10	04-Aug-2023 20:08
Surr: 4-Terphenyl-d14	75.2			32-125	%REC	10	04-Aug-2023 20:08
Surr: Nitrobenzene-d5	70.4			37-125	%REC	10	04-Aug-2023 20:08
Surr: Phenol-d6	63.6			40-125	%REC	10	04-Aug-2023 20:08
TCLP ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081		Leache: SW1311 / 02-Aug-2023		Prep: SW3510C / 02-Aug-2023	
						Analyst: DLB	
4,4'-DDD	U		0.000020	0.00010	mg/L	1	10-Aug-2023 01:58
4,4'-DDE	U		0.000020	0.00010	mg/L	1	10-Aug-2023 01:58
4,4'-DDT	U		0.000020	0.00010	mg/L	1	10-Aug-2023 01:58
Aldrin	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
alpha-BHC	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
beta-BHC	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
Chlordane	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
delta-BHC	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
Dieldrin	U		0.000030	0.00010	mg/L	1	10-Aug-2023 01:58
Endosulfan I	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
Endosulfan II	U		0.000020	0.00010	mg/L	1	10-Aug-2023 01:58
Endosulfan sulfate	U		0.000030	0.00010	mg/L	1	10-Aug-2023 01:58
Endrin	U		0.000030	0.00010	mg/L	1	10-Aug-2023 01:58
Endrin aldehyde	U		0.000030	0.00010	mg/L	1	10-Aug-2023 01:58
gamma-BHC	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
Heptachlor	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
Heptachlor epoxide	U		0.000010	0.000050	mg/L	1	10-Aug-2023 01:58
Methoxychlor	U		0.000015	0.000050	mg/L	1	10-Aug-2023 01:58
Toxaphene	U		0.000019	0.000050	mg/L	1	10-Aug-2023 01:58
Surr: Decachlorobiphenyl	104			30-150	%REC	1	10-Aug-2023 01:58
Surr: Tetrachloro-m-xylene	123			30-150	%REC	1	10-Aug-2023 01:58

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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081			Prep: SW3541 / 03-Aug-2023		Analyst: DLB
4,4'-DDD	U		0.0099	0.065	mg/Kg-dry	10	15-Aug-2023 05:30
4,4'-DDE	0.045	J	0.0099	0.065	mg/Kg-dry	10	15-Aug-2023 05:30
4,4'-DDT	U		0.0099	0.065	mg/Kg-dry	10	15-Aug-2023 05:30
Aldrin	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 05:30
alpha-BHC	0.0083	J	0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 05:30
beta-BHC	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 05:30
Chlordane	U		0.040	0.33	mg/Kg-dry	10	15-Aug-2023 05:30
delta-BHC	U		0.0040	0.033	mg/Kg-dry	10	15-Aug-2023 05:30
Dieldrin	U		0.0099	0.065	mg/Kg-dry	10	15-Aug-2023 05:30
Endosulfan I	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 05:30
Endosulfan II	U		0.012	0.065	mg/Kg-dry	10	15-Aug-2023 05:30
Endosulfan sulfate	U		0.012	0.065	mg/Kg-dry	10	15-Aug-2023 05:30
Endrin	0.015	J	0.012	0.065	mg/Kg-dry	10	15-Aug-2023 05:30
Endrin aldehyde	U		0.012	0.065	mg/Kg-dry	10	15-Aug-2023 05:30
gamma-BHC	U		0.0040	0.033	mg/Kg-dry	10	15-Aug-2023 05:30
Heptachlor	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 05:30
Heptachlor epoxide	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 05:30
Methoxychlor	U		0.067	0.33	mg/Kg-dry	10	15-Aug-2023 05:30
Toxaphene	U		0.095	0.33	mg/Kg-dry	10	15-Aug-2023 05:30
<i>Surr: Decachlorobiphenyl</i>	<i>92.1</i>			<i>59-144</i>	<i>%REC</i>	<i>10</i>	<i>15-Aug-2023 05:30</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>106</i>			<i>56.9-130</i>	<i>%REC</i>	<i>10</i>	<i>15-Aug-2023 05:30</i>
TCLP HERBICIDES BY SW8151A		Method: SW8151A		Leache: SW1311 / 02-Aug-2023	Prep: SW8151A / 02-Aug-2023		Analyst: JBA
2,4,5-TP (Silvex)	U		0.000050	0.00020	mg/L	1	09-Aug-2023 09:56
2,4-D	0.00024		0.000060	0.00020	mg/L	1	09-Aug-2023 09:56
<i>Surr: DCAA</i>	<i>93.3</i>			<i>40-140</i>	<i>%REC</i>	<i>1</i>	<i>09-Aug-2023 09:56</i>

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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 02-Aug-2023	Prep: SW3010A / 10-Aug-2023		Analyst: JHD
Antimony	0.0101	J	0.00400	0.0500	mg/L	1	10-Aug-2023 17:22
Arsenic	0.0380	J	0.00400	0.0500	mg/L	1	10-Aug-2023 17:22
Barium	2.40		0.0190	0.200	mg/L	1	10-Aug-2023 17:22
Beryllium		U	0.00200	0.0200	mg/L	1	10-Aug-2023 17:22
Cadmium		U	0.00200	0.0500	mg/L	1	10-Aug-2023 17:22
Chromium	0.0312	J	0.00400	0.0500	mg/L	1	10-Aug-2023 17:22
Cobalt	0.0477	J	0.00200	0.0500	mg/L	1	10-Aug-2023 17:22
Copper		U	0.0100	0.0200	mg/L	1	10-Aug-2023 17:22
Lead	0.0170	J	0.00600	0.0500	mg/L	1	10-Aug-2023 17:22
Nickel	0.189		0.00600	0.0500	mg/L	1	10-Aug-2023 17:22
Selenium	0.0491	J	0.0110	0.0500	mg/L	1	10-Aug-2023 17:22
Silver		U	0.00200	0.0500	mg/L	1	10-Aug-2023 17:22
Thallium		U	0.00200	0.0200	mg/L	1	10-Aug-2023 17:22
Tin		U	0.0150	0.0500	mg/L	1	30-Aug-2023 13:35
Vanadium	0.00621	J	0.00600	0.0500	mg/L	1	10-Aug-2023 17:22
Zinc	6.26		0.0200	0.0500	mg/L	1	10-Aug-2023 17:22
EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 03-Aug-2023	Prep: SW3010A / 11-Aug-2023		Analyst: JHD
Antimony	0.0327	J	0.00400	0.0500	mg/L	1	11-Aug-2023 16:34
Arsenic	0.0235	J	0.00400	0.0500	mg/L	1	11-Aug-2023 16:34
Barium	0.0292	J	0.0190	0.200	mg/L	1	11-Aug-2023 16:34
Beryllium		U	0.00200	0.0200	mg/L	1	11-Aug-2023 16:34
Cadmium		U	0.00200	0.0500	mg/L	1	11-Aug-2023 16:34
Chromium	0.0302	J	0.00400	0.0500	mg/L	1	11-Aug-2023 16:34
Cobalt	0.00943	J	0.00200	0.0500	mg/L	1	11-Aug-2023 16:34
Copper	0.0187	J	0.0100	0.0200	mg/L	1	11-Aug-2023 16:34
Lead	0.00909	J	0.00600	0.0500	mg/L	1	11-Aug-2023 16:34
Nickel	0.0348	J	0.00600	0.0500	mg/L	1	11-Aug-2023 16:34
Selenium	0.134		0.0110	0.0500	mg/L	1	11-Aug-2023 16:34
Silver		U	0.00200	0.0500	mg/L	1	11-Aug-2023 16:34
Thallium	0.00959	J	0.00200	0.0200	mg/L	1	11-Aug-2023 16:34
Tin		U	0.0150	0.0500	mg/L	1	31-Aug-2023 16:51
Vanadium	0.155		0.00600	0.0500	mg/L	1	11-Aug-2023 16:34
Zinc	0.179		0.0200	0.0500	mg/L	1	11-Aug-2023 16:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-01
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 02-Aug-2023	Prep: SW3010A / 11-Aug-2023		Analyst: JHD
Antimony	0.0167	J	0.00400	0.0500	mg/L	1	11-Aug-2023 17:05
Arsenic	0.00528	J	0.00400	0.0500	mg/L	1	11-Aug-2023 17:05
Barium	0.0645	J	0.0190	0.200	mg/L	1	11-Aug-2023 17:05
Beryllium	U		0.00200	0.0200	mg/L	1	11-Aug-2023 17:05
Cadmium	U		0.00200	0.0500	mg/L	1	11-Aug-2023 17:05
Chromium	0.0150	J	0.00400	0.0500	mg/L	1	11-Aug-2023 17:05
Cobalt	0.00356	J	0.00200	0.0500	mg/L	1	11-Aug-2023 17:05
Copper	U		0.0100	0.0200	mg/L	1	11-Aug-2023 17:05
Lead	0.00653	J	0.00600	0.0500	mg/L	1	11-Aug-2023 17:05
Nickel	0.0173	J	0.00600	0.0500	mg/L	1	11-Aug-2023 17:05
Selenium	0.0523		0.0110	0.0500	mg/L	1	11-Aug-2023 17:05
Silver	U		0.00200	0.0500	mg/L	1	11-Aug-2023 17:05
Thallium	0.00804	J	0.00200	0.0200	mg/L	1	11-Aug-2023 17:05
Tin	U		0.0150	0.0500	mg/L	1	31-Aug-2023 16:46
Vanadium	0.0188	J	0.00600	0.0500	mg/L	1	11-Aug-2023 17:05
Zinc	0.0293	J	0.0200	0.0500	mg/L	1	11-Aug-2023 17:05
METALS BY SW6020A		Method: SW6020A			Prep: SW3050B / 10-Aug-2023		Analyst: JHD
Antimony	2.84		0.126	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Arsenic	8.84		0.136	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Barium	198		0.0582	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Beryllium	0.312	J	0.0407	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Cadmium	1.08		0.0524	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Chromium	59.6		0.0446	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Cobalt	9.20		0.0291	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Copper	52.9		0.0737	0.388	mg/Kg-dry	1	10-Aug-2023 22:36
Lead	32.1		0.0252	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Nickel	67.4		0.0931	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Selenium	53.4		0.176	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Silver	0.546	J	0.0291	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Thallium	U		0.432	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Tin	8.60		0.124	1.94	mg/Kg-dry	1	10-Aug-2023 22:36
Vanadium	114		0.145	0.970	mg/Kg-dry	1	10-Aug-2023 22:36
Zinc	2,320		33.0	97.0	mg/Kg-dry	100	11-Aug-2023 14:20
TCLP MERCURY AT PH 10 BY SW7470A		Method: SW7040		Leache: SW1311 / 03-Aug-2023	Prep: SW7040 / 11-Aug-2023		Analyst: JC
Mercury	0.0000550	J	0.0000400	0.000200	mg/L	1	11-Aug-2023 18:10
TCLP MERCURY AT PH 7 BY SW7470A		Method: SW7040		Leache: SW1311 / 30-Aug-2023	Prep: SW7040 / 11-Aug-2023		Analyst: JC
Mercury	U		0.0000400	0.000200	mg/L	1	11-Aug-2023 17:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: PTS-01-SL-20230727
 Collection Date: 27-Jul-2023 08:45

ANALYTICAL REPORT
 WorkOrder:HS23071844
 Lab ID:HS23071844-01
 Matrix:Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP MERCURY BY SW7470A		Method:SW7470A		Leache:SW1311 / 02-Aug-2023	Prep:SW7470A / 10-Aug-2023		Analyst: JC
Mercury	0.0000630	J	0.0000300	0.000200	mg/L	1	10-Aug-2023 14:53
MERCURY BY SW7471B		Method:SW7471B			Prep:SW7471B / 09-Aug-2023		Analyst: MSC
Mercury	1.24		0.000954	0.00675	mg/Kg-dry	1	09-Aug-2023 13:59
MOISTURE - ASTM D2216		Method:ASTM D2216					Analyst: MR
Percent Moisture	49.6		0.0100	0.0100	wt%	1	09-Aug-2023 11:17
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B		Method:ASTM D92-12b					Analyst: MZD
Flash Point	> 212		50.0	50.0	°F	1	02-Aug-2023 15:11
LEACHED SULFIDE		Method:SM4500 S2-F			Prep:ASTM Leachate / 03-Aug-2023		Analyst: CD
Sulfide	U		4.96	9.92	mg/Kg-dry	1	03-Aug-2023 15:00
REACTIVE CYANIDE		Method:SW7.3.3.2					Analyst: MZD
Reactive Cyanide	U		100	100	mg/Kg	1	10-Aug-2023 14:52
REACTIVE SULFIDE		Method:SW7.3.4.2					Analyst: MZD
Reactive Sulfide	U		100	100	mg/Kg	1	10-Aug-2023 14:49
CYANIDE BY SW-846 9014		Method:SW9014			Prep:SW9010C / 03-Aug-2023		Analyst: MZD
Cyanide	U		0.589	3.93	mg/Kg-dry	1	04-Aug-2023 15:00
PH SOIL BY SW9045D		Method:SW9045D					Analyst: DW
pH	7.94	H	0.100	0.100	pH Units	1	10-Aug-2023 15:00
Temp Deg C @pH	24.2	H	0	0	°C	1	10-Aug-2023 15:00
ANIONS BY SW9056A		Method:SW9056			Prep:SW9056 / 09-Aug-2023		Analyst: TH
Fluoride	3.57		0.584	1.95	mg/Kg-dry	1	11-Aug-2023 01:18
SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A		Method:NA					Analyst: SUB
Subcontract Analysis	See Attached		0			1	31-Aug-2023 13:22
SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES		Method:NA					Analyst: SUBK
Subcontract Analysis	See Attached		0			1	15-Sep-2023 07:13
SUBCONTRACTED ANALYSIS		Method:NA					Analyst: SUBHO
Miscellaneous Analysis	See Attached		0		NA	1	15-Aug-2023 11:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method: SW8260		Leache: SW1311 / 02-Aug-2023	Prep: SW1311 / 02-Aug-2023		Analyst: FT
1,1,1,2-Tetrachloroethane	U		0.0060	0.10	mg/L	20	03-Aug-2023 16:06
1,1,1-Trichloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
1,1,2,2-Tetrachloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
1,1,2-Trichloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
1,1-Dichloroethane	U		0.0080	0.10	mg/L	20	03-Aug-2023 16:06
1,1-Dichloroethene	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
1,2-Dibromoethane	U		0.0080	0.10	mg/L	20	03-Aug-2023 16:06
1,2-Dichlorobenzene	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
1,2-Dichloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
1,2-Dichloropropane	U		0.014	0.10	mg/L	20	03-Aug-2023 16:06
1,3-Dichlorobenzene	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
1,4-Dichlorobenzene	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
1,4-Dioxane	U		0.82	2.0	mg/L	20	03-Aug-2023 16:06
2-Butanone	U		0.020	0.20	mg/L	20	03-Aug-2023 16:06
2-Chloro-1,3-butadiene	U		0.020	0.10	mg/L	20	03-Aug-2023 16:06
2-Hexanone	U		0.020	0.20	mg/L	20	03-Aug-2023 16:06
4-Methyl-2-pentanone	U		0.020	0.20	mg/L	20	03-Aug-2023 16:06
Acetone	U		0.040	0.20	mg/L	20	03-Aug-2023 16:06
Acetonitrile	U		0.50	1.0	mg/L	20	03-Aug-2023 16:06
Acrolein	U		0.12	0.40	mg/L	20	03-Aug-2023 16:06
Acrylonitrile	U		0.10	0.20	mg/L	20	03-Aug-2023 16:06
Allyl Chloride	U		0.060	0.20	mg/L	20	03-Aug-2023 16:06
Benzene	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Bromodichloromethane	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Bromoform	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Bromomethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Carbon disulfide	U		0.018	0.20	mg/L	20	03-Aug-2023 16:06
Carbon tetrachloride	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Chlorobenzene	U		0.0080	0.10	mg/L	20	03-Aug-2023 16:06
Chloroethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Chloroform	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Chloromethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
cis-1,3-Dichloropropene	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Dibromochloromethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Dibromomethane	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Dichlorodifluoromethane	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Ethyl methacrylate	U		0.020	0.10	mg/L	20	03-Aug-2023 16:06
Ethylbenzene	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Iodomethane	U		0.040	0.20	mg/L	20	03-Aug-2023 16:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES BY SW8260C		Method: SW8260		Leache: SW1311 / 02-Aug-2023	Prep: SW1311 / 02-Aug-2023		Analyst: FT
Isobutyl alcohol	U		0.52	2.0	mg/L	20	03-Aug-2023 16:06
Methacrylonitrile	U		0.020	0.10	mg/L	20	03-Aug-2023 16:06
Methyl methacrylate	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Methylene chloride	U		0.020	0.20	mg/L	20	03-Aug-2023 16:06
Propionitrile	U		0.40	1.0	mg/L	20	03-Aug-2023 16:06
Styrene	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Tetrachloroethene	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Toluene	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
trans-1,2-Dichloroethene	U		0.0080	0.10	mg/L	20	03-Aug-2023 16:06
trans-1,3-Dichloropropene	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
trans-1,4-Dichloro-2-butene	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Trichloroethene	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Trichlorofluoromethane	U		0.012	0.10	mg/L	20	03-Aug-2023 16:06
Vinyl acetate	U		0.050	0.20	mg/L	20	03-Aug-2023 16:06
Vinyl chloride	U		0.0080	0.040	mg/L	20	03-Aug-2023 16:06
Xylenes, Total	U		0.010	0.10	mg/L	20	03-Aug-2023 16:06
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	20	03-Aug-2023 16:06
Surr: 4-Bromofluorobenzene	103			82-124	%REC	20	03-Aug-2023 16:06
Surr: Dibromofluoromethane	98.1			77-123	%REC	20	03-Aug-2023 16:06
Surr: Toluene-d8	103			82-127	%REC	20	03-Aug-2023 16:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method: SW8260					Analyst: WLR
1,1,1,2-Tetrachloroethane	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,1,1-Trichloroethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,1,2,2-Tetrachloroethane	U		0.0020	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,1,2-Trichloroethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,1-Dichloroethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,1-Dichloroethene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,2-Dibromoethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,2-Dichlorobenzene	U		0.0025	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,2-Dichloroethane	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,2-Dichloropropane	U		0.0020	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,3-Dichlorobenzene	U		0.0025	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,4-Dichlorobenzene	U		0.0025	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
1,4-Dioxane	U		0.050	0.25	mg/Kg-dry	1	02-Aug-2023 09:58
2-Butanone	U		0.0033	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
2-Chloro-1,3-butadiene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
2-Hexanone	U		0.0035	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
4-Methyl-2-pentanone	U		0.0050	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
Acetone	0.97		0.0050	0.050	mg/Kg-dry	1	02-Aug-2023 09:58
Acetonitrile	U		0.050	0.13	mg/Kg-dry	1	02-Aug-2023 09:58
Acrolein	U		0.0050	0.050	mg/Kg-dry	1	02-Aug-2023 09:58
Acrylonitrile	U		0.0060	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
Allyl Chloride	U		0.0025	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
Benzene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Bromodichloromethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Bromoform	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Bromomethane	U		0.0025	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
Carbon disulfide	U		0.0015	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
Carbon tetrachloride	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Chlorobenzene	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Chloroethane	U		0.0020	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
Chloroform	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Chloromethane	U		0.0013	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
cis-1,3-Dichloropropene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Dibromochloromethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Dibromomethane	U		0.0023	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Dichlorodifluoromethane	U		0.0018	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Ethyl methacrylate	U		0.0025	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Ethylbenzene	0.50		0.0018	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Iodomethane	U		0.0018	0.025	mg/Kg-dry	1	02-Aug-2023 09:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		Method: SW8260			Analyst: WLR		
Isobutyl alcohol	U		0.13	0.25	mg/Kg-dry	1	02-Aug-2023 09:58
Methacrylonitrile	U		0.013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Methyl methacrylate	U		0.013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Methylene chloride	U		0.0025	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
Propionitrile	U		0.13	0.13	mg/Kg-dry	1	02-Aug-2023 09:58
Styrene	U		0.0018	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Tetrachloroethene	U		0.0018	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Toluene	0.21		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
trans-1,2-Dichloroethene	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
trans-1,3-Dichloropropene	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
trans-1,4-Dichloro-2-butene	U		0.0025	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Trichloroethene	U		0.0015	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Trichlorofluoromethane	U		0.0013	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Vinyl acetate	U		0.0025	0.025	mg/Kg-dry	1	02-Aug-2023 09:58
Vinyl chloride	U		0.0020	0.013	mg/Kg-dry	1	02-Aug-2023 09:58
Xylenes, Total	6.9		0.14	0.68	mg/Kg-dry	50	02-Aug-2023 14:11
Surr: 1,2-Dichloroethane-d4	103			70-126	%REC	1	02-Aug-2023 09:58
Surr: 1,2-Dichloroethane-d4	108			70-126	%REC	50	02-Aug-2023 14:11
Surr: 4-Bromofluorobenzene	121			70-130	%REC	1	02-Aug-2023 09:58
Surr: 4-Bromofluorobenzene	97.9			70-130	%REC	50	02-Aug-2023 14:11
Surr: Dibromofluoromethane	101			70-130	%REC	1	02-Aug-2023 09:58
Surr: Dibromofluoromethane	93.9			70-130	%REC	50	02-Aug-2023 14:11
Surr: Toluene-d8	121			70-130	%REC	1	02-Aug-2023 09:58
Surr: Toluene-d8	105			70-130	%REC	50	02-Aug-2023 14:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 02-Aug-2023	Prep: SW3510 / 02-Aug-2023		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
1,2,4-Trichlorobenzene	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
1,3-Dinitrobenzene	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
1,4-Dioxane	U		0.025	0.050	mg/L	10	04-Aug-2023 19:46
1,4-Naphthoquinone	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
1-Naphthylamine	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
2,3,4,6-Tetrachlorophenol	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
2,4,5-Trichlorophenol	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
2,4,6-Trichlorophenol	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
2,4-Dichlorophenol	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
2,4-Dimethylphenol	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
2,4-Dinitrophenol	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
2,4-Dinitrotoluene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
2,6-Dichlorophenol	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
2,6-Dinitrotoluene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
2-Acetylaminofluorene	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
2-Chloronaphthalene	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
2-Chlorophenol	U		0.010	0.050	mg/L	10	04-Aug-2023 19:46
2-Methylnaphthalene	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
2-Methylphenol	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
2-Naphthylamine	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
2-Nitroaniline	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
2-Nitrophenol	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
2-Picoline	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
3&4-Methylphenol	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
3,3'-Dichlorobenzidine	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
3,3'-Dimethylbenzidine	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
3-Methylcholanthrene	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
3-Nitroaniline	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
4,6-Dinitro-2-methylphenol	U		0.0090	0.050	mg/L	10	04-Aug-2023 19:46
4-Aminobiphenyl	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
4-Chloroaniline	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
4-Chlorophenyl phenyl ether	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
4-Nitroaniline	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
4-Nitrophenol	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
4-Nitroquinoline-1-oxide	U		0.016	0.050	mg/L	10	04-Aug-2023 19:46
5-Nitro-o-toluidine	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
7,12-Dimethylbenz(a)anthracene	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
a,a-Dimethylphenethylamine	U		0.0090	0.050	mg/L	10	04-Aug-2023 19:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 02-Aug-2023	Prep: SW3510 / 02-Aug-2023		Analyst: GEY
Acenaphthene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Acenaphthylene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Acetophenone	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Aniline	U		0.014	0.050	mg/L	10	04-Aug-2023 19:46
Anthracene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Aramite	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Benz(a)anthracene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Benzo(a)pyrene	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Benzo(b)fluoranthene	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Benzo(g,h,i)perylene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Benzo(k)fluoranthene	U		0.0070	0.050	mg/L	10	04-Aug-2023 19:46
Benzyl alcohol	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Bis(2-chloroethoxy)methane	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Bis(2-chloroethyl)ether	U		0.0070	0.050	mg/L	10	04-Aug-2023 19:46
Bis(2-chloroisopropyl)ether	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
Bis(2-ethylhexyl)phthalate	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
Butyl benzyl phthalate	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Chlorobenzilate	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Chrysene	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
Di-n-butyl phthalate	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
Di-n-octyl phthalate	U		0.020	0.050	mg/L	10	04-Aug-2023 19:46
Diallate	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Dibenz(a,h)anthracene	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Dibenzofuran	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Diethyl phthalate	U		0.0070	0.050	mg/L	10	04-Aug-2023 19:46
Dimethoate	U		0.0070	0.050	mg/L	10	04-Aug-2023 19:46
Dimethyl phthalate	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Dinoseb	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Diphenylamine	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Disulfoton	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Ethyl methanesulfonate	U		0.0090	0.050	mg/L	10	04-Aug-2023 19:46
Ethyl parathion	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Famphur	U		0.050	0.050	mg/L	10	04-Aug-2023 19:46
Fluoranthene	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Fluorene	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Hexachlorobenzene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Hexachlorobutadiene	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Hexachlorocyclopentadiene	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Hexachloroethane	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES		Method: SW8270		Leache: SW1311 / 02-Aug-2023	Prep: SW3510 / 02-Aug-2023		Analyst: GEY
Hexachlorophene	U		0.090	0.25	mg/L	10	04-Aug-2023 19:46
Hexachloropropene	U		0.0070	0.050	mg/L	10	04-Aug-2023 19:46
Indeno(1,2,3-cd)pyrene	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Isodrin	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Isophorone	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Isosafrole	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Kepone	U		0.0070	0.050	mg/L	10	04-Aug-2023 19:46
Methapyrilene	U		0.017	0.050	mg/L	10	04-Aug-2023 19:46
Methyl methanesulfonate	U		0.014	0.050	mg/L	10	04-Aug-2023 19:46
Methyl parathion	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
N-Nitroso-di-n-butylamine	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
N-Nitrosodiethylamine	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
N-Nitrosodimethylamine	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
N-Nitrosodiphenylamine	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
N-Nitrosomethylethylamine	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
N-Nitrosomorpholine	U		0.0070	0.050	mg/L	10	04-Aug-2023 19:46
N-Nitrosopiperidine	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
N-Nitrosopyrrolidine	U		0.0090	0.050	mg/L	10	04-Aug-2023 19:46
Naphthalene	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Nitrobenzene	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
o-Toluidine	U		0.0070	0.050	mg/L	10	04-Aug-2023 19:46
p-Dimethylaminoazobenzene	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
p-Phenylenediamine	U		0.011	0.050	mg/L	10	04-Aug-2023 19:46
Pentachlorobenzene	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Pentachloroethane	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Pentachloronitrobenzene	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Pentachlorophenol	U		0.0080	0.050	mg/L	10	04-Aug-2023 19:46
Phenacetin	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Phenanthrene	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Phenol	U		0.0040	0.050	mg/L	10	04-Aug-2023 19:46
Phorate	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Pronamide	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Pyrene	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Pyridine	U		0.0030	0.050	mg/L	10	04-Aug-2023 19:46
Safrole	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Tetraethylthiopyrophosphate	U		0.0060	0.050	mg/L	10	04-Aug-2023 19:46
Thionazin	U		0.0050	0.050	mg/L	10	04-Aug-2023 19:46
Surr: 2,4,6-Tribromophenol	66.7			39-153	%REC	10	04-Aug-2023 19:46
Surr: 2-Fluorobiphenyl	79.7			40-147	%REC	10	04-Aug-2023 19:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP SEMIVOLATILES			Method: SW8270	Leache: SW1311 / 02-Aug-2023	Prep: SW3510 / 02-Aug-2023		Analyst: GEY
Surr: 2-Fluorophenol	58.7			21-110	%REC	10	04-Aug-2023 19:46
Surr: 4-Terphenyl-d14	84.6			39-141	%REC	10	04-Aug-2023 19:46
Surr: Nitrobenzene-d5	71.3			37-140	%REC	10	04-Aug-2023 19:46
Surr: Phenol-d6	63.8			11-110	%REC	10	04-Aug-2023 19:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 04-Aug-2023		Analyst: GEY
1,2,4,5-Tetrachlorobenzene	U		0.83	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
1,2,4-Trichlorobenzene	U		0.32	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
1,3-Dinitrobenzene	U		0.20	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
1,4-Dioxane	U		1.6	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
1,4-Naphthoquinone	U		0.72	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
1-Naphthylamine	U		0.50	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,3,4,6-Tetrachlorophenol	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,4,5-Trichlorophenol	U		0.42	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,4,6-Trichlorophenol	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,4-Dichlorophenol	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,4-Dimethylphenol	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,4-Dinitrophenol	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,4-Dinitrotoluene	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,6-Dichlorophenol	U		0.75	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2,6-Dinitrotoluene	U		0.20	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Acetylaminofluorene	U		0.34	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Chloronaphthalene	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Chlorophenol	U		0.20	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Methylnaphthalene	5.6		0.54	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Methylphenol	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Naphthylamine	U		0.38	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Nitroaniline	U		0.32	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Nitrophenol	U		0.36	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
2-Picoline	U		0.68	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
3&4-Methylphenol	4.0		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
3,3'-Dichlorobenzidine	U		0.38	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
3,3'-Dimethylbenzidine	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
3-Methylcholanthrene	U		0.74	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
3-Nitroaniline	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
4,6-Dinitro-2-methylphenol	U		0.32	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
4-Aminobiphenyl	U		0.42	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
4-Chloroaniline	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
4-Chlorophenyl phenyl ether	U		0.32	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
4-Nitroaniline	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
4-Nitrophenol	U		0.32	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
4-Nitroquinoline-1-oxide	U		0.91	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
5-Nitro-o-toluidine	U		0.46	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
7,12-Dimethylbenz(a)anthracene	U		1.2	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
a,a-Dimethylphenethylamine	U		0.62	3.3	mg/Kg-dry	10	04-Aug-2023 20:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 04-Aug-2023		Analyst: GEY
Acenaphthene	5.6		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Acenaphthylene	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Acetophenone	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Aniline	U		0.50	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Anthracene	5.0		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Aramite	U		0.72	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Benz(a)anthracene	4.5		0.20	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Benzo(a)pyrene	2.0	J	0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Benzo(b)fluoranthene	0.92	J	0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Benzo(g,h,i)perylene	0.93	J	0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Benzo(k)fluoranthene	0.67	J	0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Benzyl alcohol	U		0.38	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Bis(2-chloroethoxy)methane	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Bis(2-chloroethyl)ether	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Bis(2-chloroisopropyl)ether	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Bis(2-ethylhexyl)phthalate	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Butyl benzyl phthalate	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Chlorobenzilate	U		0.79	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Chrysene	5.9		0.34	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Di-n-butyl phthalate	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Di-n-octyl phthalate	U		0.38	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Diallate	U		0.89	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Dibenz(a,h)anthracene	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Dibenzofuran	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Diethyl phthalate	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Dimethoate	U		0.52	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Dimethyl phthalate	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Dinoseb	U		0.50	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Diphenylamine	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Disulfoton	U		0.77	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Ethyl methanesulfonate	U		0.77	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Ethyl parathion	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Famphur	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Fluoranthene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Fluorene	8.0		0.34	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Hexachlorobenzene	U		0.30	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Hexachlorobutadiene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Hexachlorocyclopentadiene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Hexachloroethane	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT

WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 04-Aug-2023		Analyst: GEY
Hexachlorophene	U		33	33	mg/Kg-dry	10	04-Aug-2023 20:29
Hexachloropropene	U		0.77	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Indeno(1,2,3-cd)pyrene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Isodrin	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Isophorone	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Isosafrole	U		0.74	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Kepone	U		0.83	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Methapyrilene	U		0.93	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Methyl methanesulfonate	U		0.93	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Methyl parathion	U		0.52	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
N-Nitroso-di-n-butylamine	U		0.93	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
N-Nitrosodiethylamine	U		0.62	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
N-Nitrosodimethylamine	U		1.0	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
N-Nitrosodiphenylamine	U		0.24	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
N-Nitrosomethylethylamine	U		0.75	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
N-Nitrosomorpholine	U		0.48	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
N-Nitrosopiperidine	U		0.46	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
N-Nitrosopyrrolidine	U		0.46	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Naphthalene	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Nitrobenzene	U		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
o-Toluidine	U		0.44	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
p-Dimethylaminoazobenzene	U		0.42	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
p-Phenylenediamine	U		3.3	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Pentachlorobenzene	U		0.83	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Pentachloroethane	U		0.97	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Pentachloronitrobenzene	U		0.83	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Pentachlorophenol	U		0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Phenacetin	U		0.79	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Phenanthrene	22		0.28	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Phenol	1.9	J	0.22	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Phorate	U		0.60	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Pronamide	U		0.77	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Pyrene	9.1		0.85	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Pyridine	U		0.26	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Safrole	U		0.66	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Tetraethylthiopyrophosphate	U		0.48	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
Thionazin	U		0.60	3.3	mg/Kg-dry	10	04-Aug-2023 20:29
<i>Surr: 2,4,6-Tribromophenol</i>	<i>87.2</i>			<i>36-126</i>	<i>%REC</i>	<i>10</i>	<i>04-Aug-2023 20:29</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>96.0</i>			<i>43-125</i>	<i>%REC</i>	<i>10</i>	<i>04-Aug-2023 20:29</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES		Method: SW8270			Prep: SW3541 / 04-Aug-2023		Analyst: GEY
Surr: 2-Fluorophenol	44.9	J		37-125	%REC	10	04-Aug-2023 20:29
Surr: 4-Terphenyl-d14	84.1			32-125	%REC	10	04-Aug-2023 20:29
Surr: Nitrobenzene-d5	74.9			37-125	%REC	10	04-Aug-2023 20:29
Surr: Phenol-d6	70.6			40-125	%REC	10	04-Aug-2023 20:29
TCLP ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081		Leache: SW1311 / 02-Aug-2023	Prep: SW3510C / 02-Aug-2023		Analyst: DLB
4,4'-DDD	U		0.00020	0.00010	mg/L	1	10-Aug-2023 02:19
4,4'-DDE	U		0.00020	0.00010	mg/L	1	10-Aug-2023 02:19
4,4'-DDT	U		0.00020	0.00010	mg/L	1	10-Aug-2023 02:19
Aldrin	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
alpha-BHC	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
beta-BHC	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
Chlordane	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
delta-BHC	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
Dieldrin	U		0.00030	0.00010	mg/L	1	10-Aug-2023 02:19
Endosulfan I	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
Endosulfan II	U		0.00020	0.00010	mg/L	1	10-Aug-2023 02:19
Endosulfan sulfate	U		0.00030	0.00010	mg/L	1	10-Aug-2023 02:19
Endrin	U		0.00030	0.00010	mg/L	1	10-Aug-2023 02:19
Endrin aldehyde	U		0.00030	0.00010	mg/L	1	10-Aug-2023 02:19
gamma-BHC	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
Heptachlor	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
Heptachlor epoxide	U		0.00010	0.00050	mg/L	1	10-Aug-2023 02:19
Methoxychlor	U		0.00015	0.00050	mg/L	1	10-Aug-2023 02:19
Toxaphene	U		0.00019	0.00050	mg/L	1	10-Aug-2023 02:19
Surr: Decachlorobiphenyl	103			30-150	%REC	1	10-Aug-2023 02:19
Surr: Tetrachloro-m-xylene	127			30-150	%REC	1	10-Aug-2023 02:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ORGANOCHLORINE PESTICIDES BY SW8081B		Method: SW8081			Prep: SW3541 / 03-Aug-2023		Analyst: DLB
4,4'-DDD	U		0.0099	0.065	mg/Kg-dry	10	15-Aug-2023 06:29
4,4'-DDE	0.074		0.0099	0.065	mg/Kg-dry	10	15-Aug-2023 06:29
4,4'-DDT	0.010	J	0.0099	0.065	mg/Kg-dry	10	15-Aug-2023 06:29
Aldrin	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 06:29
alpha-BHC	0.011	J	0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 06:29
beta-BHC	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 06:29
Chlordane	U		0.040	0.33	mg/Kg-dry	10	15-Aug-2023 06:29
delta-BHC	U		0.0040	0.033	mg/Kg-dry	10	15-Aug-2023 06:29
Dieldrin	U		0.0099	0.065	mg/Kg-dry	10	15-Aug-2023 06:29
Endosulfan I	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 06:29
Endosulfan II	U		0.012	0.065	mg/Kg-dry	10	15-Aug-2023 06:29
Endosulfan sulfate	U		0.012	0.065	mg/Kg-dry	10	15-Aug-2023 06:29
Endrin	0.023	J	0.012	0.065	mg/Kg-dry	10	15-Aug-2023 06:29
Endrin aldehyde	U		0.012	0.065	mg/Kg-dry	10	15-Aug-2023 06:29
gamma-BHC	U		0.0040	0.033	mg/Kg-dry	10	15-Aug-2023 06:29
Heptachlor	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 06:29
Heptachlor epoxide	U		0.0059	0.033	mg/Kg-dry	10	15-Aug-2023 06:29
Methoxychlor	U		0.067	0.33	mg/Kg-dry	10	15-Aug-2023 06:29
Toxaphene	U		0.095	0.33	mg/Kg-dry	10	15-Aug-2023 06:29
<i>Surr: Decachlorobiphenyl</i>	<i>119</i>			<i>59-144</i>	<i>%REC</i>	<i>10</i>	<i>15-Aug-2023 06:29</i>
<i>Surr: Tetrachloro-m-xylene</i>	<i>108</i>			<i>56.9-130</i>	<i>%REC</i>	<i>10</i>	<i>15-Aug-2023 06:29</i>
TCLP HERBICIDES BY SW8151A		Method: SW8151A		Leache: SW1311 / 02-Aug-2023	Prep: SW8151A / 02-Aug-2023		Analyst: JBA
2,4,5-TP (Silvex)	U		0.000050	0.00020	mg/L	1	09-Aug-2023 10:31
2,4-D	0.00013	J	0.000060	0.00020	mg/L	1	09-Aug-2023 10:31
<i>Surr: DCAA</i>	<i>87.5</i>			<i>40-140</i>	<i>%REC</i>	<i>1</i>	<i>09-Aug-2023 10:31</i>

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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 02-Aug-2023	Prep: SW3010A / 10-Aug-2023		Analyst: JHD
Antimony	0.0103	J	0.00400	0.0500	mg/L	1	10-Aug-2023 17:24
Arsenic	0.0243	J	0.00400	0.0500	mg/L	1	10-Aug-2023 17:24
Barium	1.21		0.0190	0.200	mg/L	1	10-Aug-2023 17:24
Beryllium	U		0.00200	0.0200	mg/L	1	10-Aug-2023 17:24
Cadmium	U		0.00200	0.0500	mg/L	1	10-Aug-2023 17:24
Chromium	0.0156	J	0.00400	0.0500	mg/L	1	10-Aug-2023 17:24
Cobalt	0.0322	J	0.00200	0.0500	mg/L	1	10-Aug-2023 17:24
Copper	0.0146	J	0.0100	0.0200	mg/L	1	10-Aug-2023 17:24
Lead	0.0137	J	0.00600	0.0500	mg/L	1	10-Aug-2023 17:24
Nickel	0.138		0.00600	0.0500	mg/L	1	10-Aug-2023 17:24
Selenium	0.0643		0.0110	0.0500	mg/L	1	10-Aug-2023 17:24
Silver	U		0.00200	0.0500	mg/L	1	10-Aug-2023 17:24
Thallium	U		0.00200	0.0200	mg/L	1	10-Aug-2023 17:24
Tin	U		0.0150	0.0500	mg/L	1	30-Aug-2023 13:44
Vanadium	0.0128	J	0.00600	0.0500	mg/L	1	10-Aug-2023 17:24
Zinc	2.91		0.0200	0.0500	mg/L	1	10-Aug-2023 17:24
EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 03-Aug-2023	Prep: SW3010A / 11-Aug-2023		Analyst: JHD
Antimony	0.0276	J	0.00400	0.0500	mg/L	1	11-Aug-2023 16:36
Arsenic	0.0178	J	0.00400	0.0500	mg/L	1	11-Aug-2023 16:36
Barium	0.0288	J	0.0190	0.200	mg/L	1	11-Aug-2023 16:36
Beryllium	U		0.00200	0.0200	mg/L	1	11-Aug-2023 16:36
Cadmium	U		0.00200	0.0500	mg/L	1	11-Aug-2023 16:36
Chromium	0.0180	J	0.00400	0.0500	mg/L	1	11-Aug-2023 16:36
Cobalt	0.00827	J	0.00200	0.0500	mg/L	1	11-Aug-2023 16:36
Copper	0.0177	J	0.0100	0.0200	mg/L	1	11-Aug-2023 16:36
Lead	0.00692	J	0.00600	0.0500	mg/L	1	11-Aug-2023 16:36
Nickel	0.0284	J	0.00600	0.0500	mg/L	1	11-Aug-2023 16:36
Selenium	0.0960		0.0110	0.0500	mg/L	1	11-Aug-2023 16:36
Silver	U		0.00200	0.0500	mg/L	1	11-Aug-2023 16:36
Thallium	U		0.00200	0.0200	mg/L	1	11-Aug-2023 16:36
Tin	U		0.0150	0.0500	mg/L	1	31-Aug-2023 16:53
Vanadium	0.126		0.00600	0.0500	mg/L	1	11-Aug-2023 16:36
Zinc	0.158		0.0200	0.0500	mg/L	1	11-Aug-2023 16:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A		Method: SW1311/6020		Leache: SW1311 / 02-Aug-2023	Prep: SW3010A / 11-Aug-2023		Analyst: JHD
Antimony	0.0435	J	0.00400	0.0500	mg/L	1	11-Aug-2023 17:15
Arsenic		U	0.00400	0.0500	mg/L	1	11-Aug-2023 17:15
Barium	0.0682	J	0.0190	0.200	mg/L	1	11-Aug-2023 17:15
Beryllium		U	0.00200	0.0200	mg/L	1	11-Aug-2023 17:15
Cadmium		U	0.00200	0.0500	mg/L	1	11-Aug-2023 17:15
Chromium	0.0357	J	0.00400	0.0500	mg/L	1	11-Aug-2023 17:15
Cobalt	0.00375	J	0.00200	0.0500	mg/L	1	11-Aug-2023 17:15
Copper		U	0.0100	0.0200	mg/L	1	11-Aug-2023 17:15
Lead	0.0104	J	0.00600	0.0500	mg/L	1	11-Aug-2023 17:15
Nickel	0.0171	J	0.00600	0.0500	mg/L	1	11-Aug-2023 17:15
Selenium	0.0516		0.0110	0.0500	mg/L	1	11-Aug-2023 17:15
Silver		U	0.00200	0.0500	mg/L	1	11-Aug-2023 17:15
Thallium	0.00259	J	0.00200	0.0200	mg/L	1	11-Aug-2023 17:15
Tin		U	0.0150	0.0500	mg/L	1	31-Aug-2023 16:58
Vanadium	0.0156	J	0.00600	0.0500	mg/L	1	11-Aug-2023 17:15
Zinc	0.0259	J	0.0200	0.0500	mg/L	1	11-Aug-2023 17:15
METALS BY SW6020A		Method: SW6020A			Prep: SW3050B / 10-Aug-2023		Analyst: JHD
Antimony	2.81		0.126	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Arsenic	8.54		0.135	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Barium	194		0.0579	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Beryllium	0.273	J	0.0406	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Cadmium	1.11		0.0522	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Chromium	59.1		0.0444	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Cobalt	9.32		0.0290	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Copper	51.3		0.0734	0.386	mg/Kg-dry	1	10-Aug-2023 22:38
Lead	31.0		0.0251	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Nickel	63.8		0.0927	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Selenium	51.4		0.176	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Silver	0.560	J	0.0290	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Thallium		U	0.431	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Tin	8.58		0.124	1.93	mg/Kg-dry	1	10-Aug-2023 22:38
Vanadium	107		0.145	0.966	mg/Kg-dry	1	10-Aug-2023 22:38
Zinc	2,230		32.8	96.6	mg/Kg-dry	100	11-Aug-2023 14:22
TCLP MERCURY AT PH 10 BY SW7470A		Method: SW7040		Leache: SW1311 / 03-Aug-2023	Prep: SW7040 / 11-Aug-2023		Analyst: JC
Mercury	0.0000570	J	0.0000400	0.000200	mg/L	1	11-Aug-2023 18:15
TCLP MERCURY AT PH 7 BY SW7470A		Method: SW7040		Leache: SW1311 / 30-Aug-2023	Prep: SW7040 / 11-Aug-2023		Analyst: JC
Mercury		U	0.0000400	0.000200	mg/L	1	11-Aug-2023 17:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: DUP-01-SL-20230727
 Collection Date: 27-Jul-2023 08:50

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-02
 Matrix: Soil

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP MERCURY BY SW7470A		Method: SW7470A		Leache: SW1311 / 02-Aug-2023	Prep: SW7470A / 10-Aug-2023		Analyst: JC
Mercury	0.0000570	J	0.0000300	0.000200	mg/L	1	10-Aug-2023 14:55
MERCURY BY SW7471B		Method: SW7471B			Prep: SW7471B / 09-Aug-2023		Analyst: MSC
Mercury	1.28		0.000947	0.00670	mg/Kg-dry	1	09-Aug-2023 14:14
MOISTURE - ASTM D2216		Method: ASTM D2216					Analyst: MR
Percent Moisture	49.9		0.0100	0.0100	wt%	1	09-Aug-2023 11:17
FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B		Method: ASTM D92-12b					Analyst: MZD
Flash Point	> 212		50.0	50.0	°F	1	02-Aug-2023 15:11
LEACHED SULFIDE		Method: SM4500 S2-F			Prep: ASTM Leachate / 03-Aug-2023		Analyst: CD
Sulfide	U		4.99	9.97	mg/Kg-dry	1	03-Aug-2023 15:00
REACTIVE CYANIDE		Method: SW7.3.3.2					Analyst: MZD
Reactive Cyanide	U		100	100	mg/Kg	1	10-Aug-2023 14:52
REACTIVE SULFIDE		Method: SW7.3.4.2					Analyst: MZD
Reactive Sulfide	U		100	100	mg/Kg	1	10-Aug-2023 14:49
CYANIDE BY SW-846 9014		Method: SW9014			Prep: SW9010C / 03-Aug-2023		Analyst: MZD
Cyanide	U		0.587	3.91	mg/Kg-dry	1	04-Aug-2023 15:00
PH SOIL BY SW9045D		Method: SW9045D					Analyst: DW
pH	7.88	H	0.100	0.100	pH Units	1	10-Aug-2023 15:01
Temp Deg C @pH	24.2	H	0	0	°C	1	10-Aug-2023 15:01
ANIONS BY SW9056A		Method: SW9056			Prep: SW9056 / 09-Aug-2023		Analyst: TH
Fluoride	U		0.570	1.90	mg/Kg-dry	1	11-Aug-2023 01:23
SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A		Method: NA					Analyst: SUB
Subcontract Analysis	See Attached		0			1	31-Aug-2023 13:22
SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES		Method: NA					Analyst: SUBK
Subcontract Analysis	See Attached		0			1	15-Sep-2023 07:13
SUBCONTRACTED ANALYSIS		Method: NA					Analyst: SUBHO
Miscellaneous Analysis	See Attached		0		NA	1	15-Aug-2023 11:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: TB-01-SL-20230727
 Collection Date: 27-Jul-2023 00:00

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-03
 Matrix: Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method: SW8260			Analyst: PC		
1,1,1,2-Tetrachloroethane	U		0.00030	0.0050	mg/L	1	03-Aug-2023 00:19
1,1,1-Trichloroethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
1,1,2,2-Tetrachloroethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
1,1,2-Trichloroethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
1,1-Dichloroethane	U		0.00040	0.0050	mg/L	1	03-Aug-2023 00:19
1,1-Dichloroethene	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
1,2-Dibromoethane	U		0.00040	0.0050	mg/L	1	03-Aug-2023 00:19
1,2-Dichlorobenzene	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
1,2-Dichloroethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
1,2-Dichloropropane	U		0.00070	0.0050	mg/L	1	03-Aug-2023 00:19
1,3-Dichlorobenzene	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
1,4-Dichlorobenzene	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
1,4-Dioxane	U		0.0050	0.010	mg/L	1	03-Aug-2023 00:19
2-Butanone	U		0.0010	0.010	mg/L	1	03-Aug-2023 00:19
2-Chloro-1,3-butadiene	U		0.0010	0.0050	mg/L	1	03-Aug-2023 00:19
2-Hexanone	U		0.0010	0.010	mg/L	1	03-Aug-2023 00:19
4-Methyl-2-pentanone	U		0.0010	0.010	mg/L	1	03-Aug-2023 00:19
Acetone	U		0.0020	0.010	mg/L	1	03-Aug-2023 00:19
Acetonitrile	U		0.025	0.050	mg/L	1	03-Aug-2023 00:19
Acrolein	U		0.0040	0.020	mg/L	1	03-Aug-2023 00:19
Acrylonitrile	U		0.0040	0.010	mg/L	1	03-Aug-2023 00:19
Allyl Chloride	U		0.0030	0.010	mg/L	1	03-Aug-2023 00:19
Benzene	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Bromodichloromethane	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Bromoform	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Bromomethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Carbon disulfide	U		0.00090	0.010	mg/L	1	03-Aug-2023 00:19
Carbon tetrachloride	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Chlorobenzene	U		0.00040	0.0050	mg/L	1	03-Aug-2023 00:19
Chloroethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Chloroform	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Chloromethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
cis-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Dibromochloromethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Dibromomethane	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Dichlorodifluoromethane	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Ethyl methacrylate	U		0.00090	0.0050	mg/L	1	03-Aug-2023 00:19
Ethylbenzene	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Iodomethane	U		0.0020	0.010	mg/L	1	03-Aug-2023 00:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
 Project: Preliminary Joliet Delisting
 Sample ID: TB-01-SL-20230727
 Collection Date: 27-Jul-2023 00:00

ANALYTICAL REPORT
 WorkOrder: HS23071844
 Lab ID: HS23071844-03
 Matrix: Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method: SW8260			Analyst: PC		
Isobutyl alcohol	U		0.020	0.10	mg/L	1	03-Aug-2023 00:19
Methacrylonitrile	U		0.0010	0.0050	mg/L	1	03-Aug-2023 00:19
Methyl methacrylate	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Methylene chloride	U		0.0010	0.010	mg/L	1	03-Aug-2023 00:19
Propionitrile	U		0.0050	0.050	mg/L	1	03-Aug-2023 00:19
Styrene	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Tetrachloroethene	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Toluene	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
trans-1,2-Dichloroethene	U		0.00040	0.0050	mg/L	1	03-Aug-2023 00:19
trans-1,3-Dichloropropene	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
trans-1,4-Dichloro-2-butene	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Trichloroethene	U		0.00050	0.0050	mg/L	1	03-Aug-2023 00:19
Trichlorofluoromethane	U		0.00060	0.0050	mg/L	1	03-Aug-2023 00:19
Vinyl acetate	U		0.0019	0.010	mg/L	1	03-Aug-2023 00:19
Vinyl chloride	U		0.00040	0.0020	mg/L	1	03-Aug-2023 00:19
Xylenes, Total	U		0.00050	0.015	mg/L	1	03-Aug-2023 00:19
Surr: 1,2-Dichloroethane-d4		107		70-126	%REC	1	03-Aug-2023 00:19
Surr: 4-Bromofluorobenzene		94.6		82-124	%REC	1	03-Aug-2023 00:19
Surr: Dibromofluoromethane		102		77-123	%REC	1	03-Aug-2023 00:19
Surr: Toluene-d8		104		82-127	%REC	1	03-Aug-2023 00:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

Batch ID: 6212 **Start Date:** 31 Jul 2023 11:10 **End Date:** 31 Jul 2023 11:10
Method: TCLP VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS23071844-01	1	3.876 (g)	5 (mL)	1.29	TerraCore (5035A)
HS23071844-02	1	3.966 (g)	5 (mL)	1.26	TerraCore (5035A)
HS23071844-01	1	3.876 (g)	5 (mL)	1.29	TerraCore (5035A)
HS23071844-02	1	3.966 (g)	5 (mL)	1.26	TerraCore (5035A)

Batch ID: 6221 **Start Date:** 02 Aug 2023 09:48 **End Date:** 02 Aug 2023 09:48
Method: VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS23071844-01	3	3.325 (g)	5 (mL)	1.5	TerraCore (5035A)
HS23071844-02	3	3.663 (g)	5 (mL)	1.37	TerraCore (5035A)

Batch ID: 198408 **Start Date:** 01 Aug 2023 15:00 **End Date:** 01 Aug 2023 15:00
Method: TCLP MERCURY EXTRACTION BY SW1311 **Prep Code:** 1311LHG EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23071844-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 198410 **Start Date:** 01 Aug 2023 15:00 **End Date:** 01 Aug 2023 15:00
Method: TCLP METALS EXTRACTION BY SW1311 **Prep Code:** 1311LM EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23071844-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 198411 **Start Date:** 01 Aug 2023 15:00 **End Date:** 01 Aug 2023 15:00
Method: TCLP SEMIVOLATILE EXTRACTION BY SW1311 **Prep Code:** 1311LO_SV

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23071844-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Batch ID: 198414 **Start Date:** 01 Aug 2023 15:00 **End Date:** 01 Aug 2023 15:00
Method: TCLP HERBICIDE EXTRACTION BY SW1311 **Prep Code:** 1311LO_HERB

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		150 (grams)	3000 (mL)	20	1-L WM glass, Neat
HS23071844-02		100 (grams)	2000 (mL)	20	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.

Project: Preliminary Joliet Delisting

WorkOrder: HS23071844

Batch ID: 198415	Start Date: 01 Aug 2023 15:00	End Date: 01 Aug 2023 15:00
Method: TCLP PESTICIDE EXTRACTION BY SW1311	Prep Code: 1311LO_PEST	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		100 (grams)	2000 (mL)	20	1-L WM glass, Neat
HS23071844-02		150 (grams)	3000 (mL)	20	1-L WM glass, Neat

Batch ID: 198417	Start Date: 02 Aug 2023 11:18	End Date: 02 Aug 2023 11:18
Method: SV AQ SEP FUNNEL EXTRACTION - SW3510C	Prep Code: 3510_B	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01	1	1000 (mL)	1 (mL)	0.001	1-L WM glass, Neat
HS23071844-02	1	1000 (mL)	1 (mL)	0.001	1-L WM glass, Neat

Batch ID: 198419	Start Date: 02 Aug 2023 11:18	End Date: 02 Aug 2023 11:18
Method: HERBICIDE AQ SEP FUN EXTRACT-SW8151	Prep Code: 3510_H_1311	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat
HS23071844-02	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat

Batch ID: 198420	Start Date: 02 Aug 2023 11:19	End Date: 02 Aug 2023 11:19
Method: PEST AQ SEP FUN EXTRACT-SW3510C	Prep Code: 3510_P_1311	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat
HS23071844-02	1	1000 (mL)	10 (mL)	0.01	1-L WM glass, Neat

Batch ID: 198425	Start Date: 01 Aug 2023 15:00	End Date: 01 Aug 2023 15:00
Method: TCLP VOLATILE ZERO HEADSPACE EXTRACTION BY SW1311	Prep Code: 1311ZHE_NR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat
HS23071844-02		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 198431	Start Date: 01 Aug 2023 15:00	End Date: 01 Aug 2023 15:00
Method: TCLP WATER LEACH	Prep Code: 1311_WATER LEACH	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		25 (g)	500 (mL)	20	1-L WM glass, Neat
HS23071844-02		25 (g)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 198432	Start Date: 01 Aug 2023 15:00	End Date: 01 Aug 2023 15:00
Method: TCLP SAMPLE LEACH DI WATER	Prep Code: 1311DI LEACH	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		25 (g)	500 (mL)	20	1-L WM glass, Neat
HS23071844-02		25 (g)	500 (mL)	20	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

Batch ID: 198493 **Start Date:** 03 Aug 2023 09:00 **End Date:** 03 Aug 2023 09:00
Method: CYANIDE PREP - SW9010C **Prep Code:** CN_TS_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		1.01 (grams)	50 (mL)	49.5	8-oz glass, Neat
HS23071844-02		1.02 (grams)	50 (mL)	49.02	8-oz glass, Neat

Batch ID: 198509 **Start Date:** 03 Aug 2023 11:30 **End Date:** 03 Aug 2023 11:30
Method: PEST SOXHLET EXTRACTION **Prep Code:** PESTPR_SOX

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		30.03 (g)	10 (mL)	0.333	8-oz glass, Neat
HS23071844-02		30.23 (g)	10 (mL)	0.3308	8-oz glass, Neat

Batch ID: 198515 **Start Date:** 02 Aug 2023 15:00 **End Date:** 02 Aug 2023 15:00
Method: TCLP MERCURY EXTRACTION AT PH 10 BY SW1311 **Prep Code:** 1311LHG PH 10 EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat
HS23071844-02		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 198517 **Start Date:** 02 Aug 2023 15:00 **End Date:** 02 Aug 2023 15:00
Method: TCLP MODIFIED METALS EXTRACTION AT PH 10 BY SW1311 **Prep Code:** 1311LM PH10 EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat
HS23071844-02		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 198521 **Start Date:** 03 Aug 2023 14:00 **End Date:** 03 Aug 2023 14:00
Method: ASTM LEACH PROCEDURE **Prep Code:** ASTM LEACH PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		50.01 (g)	250 (mL)	4.999	8-oz glass, Neat
HS23071844-02		50.05 (g)	250 (mL)	4.995	8-oz glass, Neat

Batch ID: 198539 **Start Date:** 04 Aug 2023 08:04 **End Date:** 04 Aug 2023 08:04
Method: SV SOXHLET EXTRACTION - SW3541 **Prep Code:** 3541_B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		30.25 (grams)	1 (mL)	0.03306	8-oz glass, Neat
HS23071844-02		30.14 (grams)	1 (mL)	0.03318	8-oz glass, Neat

Batch ID: 198705 **Start Date:** 10 Aug 2023 08:00 **End Date:** 10 Aug 2023 08:00
Method: METALS PREP - SOLIDS - SW3050B **Prep Code:** 3050_I_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		0.5116 (g)	50 (mL)	97.73	8-oz glass, Neat
HS23071844-02		0.5167 (g)	50 (mL)	96.77	8-oz glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

Batch ID: 198712 **Start Date:** 09 Aug 2023 11:00 **End Date:** 09 Aug 2023 11:00
Method: MERCURY PREP - SOLID - 7471B **Prep Code:** HG_S_LOWPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		0.5863 (grams)	40 (mL)	68.22	8-oz glass, Neat
HS23071844-02		0.5942 (grams)	40 (mL)	67.32	8-oz glass, Neat

Batch ID: 198719 **Start Date:** 09 Aug 2023 08:30 **End Date:** 09 Aug 2023 08:30
Method: 9056 ANIONS SOIL PREP **Prep Code:** 9056_S_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		5.0995 (g)	50 (mL)	9.805	8-oz glass, Neat
HS23071844-02		5.2484 (g)	50 (mL)	9.527	8-oz glass, Neat

Batch ID: 198793 **Start Date:** 10 Aug 2023 11:00 **End Date:** 10 Aug 2023 11:00
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		10 (mL)	10 (mL)	1	1-L WM glass, Neat
HS23071844-02		10 (mL)	10 (mL)	1	1-L WM glass, Neat

Batch ID: 198811 **Start Date:** 10 Aug 2023 09:00 **End Date:** 10 Aug 2023 09:00
Method: TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat
HS23071844-02		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 198847 **Start Date:** 11 Aug 2023 09:00 **End Date:** 11 Aug 2023 09:00
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR_PH7

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		40 (mL)	40 (mL)	1	1-L WM glass, Neat
HS23071844-02		40 (mL)	40 (mL)	1	1-L WM glass, Neat

Batch ID: 198848 **Start Date:** 11 Aug 2023 09:00 **End Date:** 11 Aug 2023 09:00
Method: MERCURY TCLP PREP BY SW7470A **Prep Code:** 1311_HGPR_PH10

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		40 (mL)	40 (mL)	1	1-L WM glass, Neat
HS23071844-02		40 (mL)	40 (mL)	1	1-L WM glass, Neat

Batch ID: 198850 **Start Date:** 11 Aug 2023 08:30 **End Date:** 11 Aug 2023 08:30
Method: TCLP LEACHATE DIGESTION BY SW3010A **Prep Code:** 3010A_TCLP_PH7

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat
HS23071844-02		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Weight / Prep Log

Client: Environmental Resources Mgmt.

Project: Preliminary Joliet Delisting

WorkOrder: HS23071844

Batch ID: 198851	Start Date: 11 Aug 2023 08:30	End Date: 11 Aug 2023 08:30
Method: TCLP LEACHATE DIGESTION BY SW3010A		Prep Code: 3010A_TCLP_PH10

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat
HS23071844-02		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 199633	Start Date: 29 Aug 2023 08:30	End Date: 29 Aug 2023 08:30
Method: TCLP LEACHATE DIGESTION BY SW3010A		Prep Code: 3010A_TCLP

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat
HS23071844-02		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 199700	Start Date: 29 Aug 2023 15:00	End Date: 29 Aug 2023 15:00
Method: TCLP MODIFIED METALS EXTRACTION AT PH 10 BY SW1311		Prep Code: 1311LM PH10 EXT

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		25 (grams)	500 (mL)	20	1-L WM glass, Neat
HS23071844-02		25 (grams)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 199703	Start Date: 29 Aug 2023 15:00	End Date: 29 Aug 2023 15:00
Method: TCLP SAMPLE LEACH DI WATER		Prep Code: 1311DI LEACH

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		25 (g)	500 (mL)	20	1-L WM glass, Neat
HS23071844-02		25 (g)	500 (mL)	20	1-L WM glass, Neat

Batch ID: 199733	Start Date: 31 Aug 2023 08:30	End Date: 31 Aug 2023 08:30
Method: TCLP LEACHATE DIGESTION BY SW3010A		Prep Code: 3010A_TCLP_PH7

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat
HS23071844-02		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Batch ID: 199734	Start Date: 31 Aug 2023 08:30	End Date: 31 Aug 2023 08:30
Method: TCLP LEACHATE DIGESTION BY SW3010A		Prep Code: 3010A_TCLP_PH10

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23071844-01		1 (mL)	10 (mL)	10	1-L WM glass, Neat
HS23071844-02		1 (mL)	10 (mL)	10	1-L WM glass, Neat

Electronic Filing: Received, Clerk's Office 04/28/2025

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 198417 (0)		Test Name : TCLP SEMIVOLATILES			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	02 Aug 2023 11:18	07 Aug 2023 17:33	10
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	02 Aug 2023 11:18	04 Aug 2023 19:46	10
Batch ID: 198419 (0)		Test Name : TCLP HERBICIDES BY SW8151A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	02 Aug 2023 11:18	09 Aug 2023 09:56	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	02 Aug 2023 11:18	09 Aug 2023 10:31	1
Batch ID: 198420 (0)		Test Name : TCLP ORGANOCHLORINE PESTICIDES BY SW8081B			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	02 Aug 2023 11:19	10 Aug 2023 01:58	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	02 Aug 2023 11:19	10 Aug 2023 02:19	1
Batch ID: 198425 (0)		Test Name : TCLP VOLATILES BY SW8260C			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	02 Aug 2023 08:00	03 Aug 2023 15:45	20
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	02 Aug 2023 08:00	03 Aug 2023 16:06	20
Batch ID: 198493 (0)		Test Name : CYANIDE BY SW-846 9014			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45		03 Aug 2023 09:00	04 Aug 2023 15:00	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50		03 Aug 2023 09:00	04 Aug 2023 15:00	1
Batch ID: 198509 (0)		Test Name : ORGANOCHLORINE PESTICIDES BY SW8081B			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45		03 Aug 2023 11:30	15 Aug 2023 05:30	10
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50		03 Aug 2023 11:30	15 Aug 2023 06:29	10
Batch ID: 198521 (0)		Test Name : LEACHED SULFIDE			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45		03 Aug 2023 14:00	03 Aug 2023 15:00	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50		03 Aug 2023 14:00	03 Aug 2023 15:00	1
Batch ID: 198539 (0)		Test Name : SEMIVOLATILES			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45		04 Aug 2023 08:04	04 Aug 2023 20:08	10
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50		04 Aug 2023 08:04	04 Aug 2023 20:29	10
Batch ID: 198705 (0)		Test Name : METALS BY SW6020A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45		10 Aug 2023 08:00	11 Aug 2023 14:20	100
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45		10 Aug 2023 08:00	10 Aug 2023 22:36	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50		10 Aug 2023 08:00	11 Aug 2023 14:22	100
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50		10 Aug 2023 08:00	10 Aug 2023 22:38	1
Batch ID: 198712 (0)		Test Name : MERCURY BY SW7471B			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45		09 Aug 2023 11:00	09 Aug 2023 13:59	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50		09 Aug 2023 11:00	09 Aug 2023 14:14	1
Batch ID: 198719 (0)		Test Name : ANIONS BY SW9056A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45		09 Aug 2023 08:30	11 Aug 2023 01:18	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50		09 Aug 2023 08:30	11 Aug 2023 01:23	1

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Project: Preliminary Joliet Delisting
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DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 198793 (0)		Test Name : TCLP MERCURY BY SW7470A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	10 Aug 2023 11:00	10 Aug 2023 14:53	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	10 Aug 2023 11:00	10 Aug 2023 14:55	1
Batch ID: 198811 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	10 Aug 2023 09:00	10 Aug 2023 17:22	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	10 Aug 2023 09:00	10 Aug 2023 17:24	1
Batch ID: 198847 (0)		Test Name : TCLP MERCURY AT PH 7 BY SW7470A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	30 Aug 2023 08:00	11 Aug 2023 09:00	11 Aug 2023 17:44	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	30 Aug 2023 08:00	11 Aug 2023 09:00	11 Aug 2023 17:59	1
Batch ID: 198848 (0)		Test Name : TCLP MERCURY AT PH 10 BY SW7470A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	03 Aug 2023 08:00	11 Aug 2023 09:00	11 Aug 2023 18:10	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	03 Aug 2023 08:00	11 Aug 2023 09:00	11 Aug 2023 18:15	1
Batch ID: 198850 (0)		Test Name : EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	11 Aug 2023 08:30	11 Aug 2023 17:05	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	11 Aug 2023 08:30	11 Aug 2023 17:15	1
Batch ID: 198851 (0)		Test Name : EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	03 Aug 2023 08:00	11 Aug 2023 08:30	11 Aug 2023 16:34	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	03 Aug 2023 08:00	11 Aug 2023 08:30	11 Aug 2023 16:36	1
Batch ID: 199633 (0)		Test Name : TCLP METALS BY SW6020A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	29 Aug 2023 08:30	30 Aug 2023 13:35	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	29 Aug 2023 08:30	30 Aug 2023 13:44	1
Batch ID: 199733 (0)		Test Name : EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	02 Aug 2023 08:00	31 Aug 2023 08:30	31 Aug 2023 16:46	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	02 Aug 2023 08:00	31 Aug 2023 08:30	31 Aug 2023 16:58	1
Batch ID: 199734 (0)		Test Name : EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45	03 Aug 2023 08:00	31 Aug 2023 08:30	31 Aug 2023 16:51	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50	03 Aug 2023 08:00	31 Aug 2023 08:30	31 Aug 2023 16:53	1
Batch ID: R442947 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			02 Aug 2023 09:36	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			02 Aug 2023 09:58	1
Batch ID: R443044 (0)		Test Name : VOLATILES BY SW8260C			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			02 Aug 2023 13:50	50
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			02 Aug 2023 14:11	50
Batch ID: R443066 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS23071844-03	TB-01-SL-20230727	27 Jul 2023 00:00			03 Aug 2023 00:19	1

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Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R443115 (0)		Test Name : FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			02 Aug 2023 15:11	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			02 Aug 2023 15:11	1
Batch ID: R443653 (0)		Test Name : MOISTURE - ASTM D2216			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			09 Aug 2023 11:17	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			09 Aug 2023 11:17	1
Batch ID: R443688 (0)		Test Name : REACTIVE SULFIDE			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			10 Aug 2023 14:49	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			10 Aug 2023 14:49	1
Batch ID: R443690 (0)		Test Name : REACTIVE CYANIDE			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			10 Aug 2023 14:52	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			10 Aug 2023 14:52	1
Batch ID: R443694 (0)		Test Name : PH SOIL BY SW9045D			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			10 Aug 2023 15:00	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			10 Aug 2023 15:01	1
Batch ID: R443975 (0)		Test Name : SUBCONTRACTED ANALYSIS			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			15 Aug 2023 11:24	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			15 Aug 2023 11:24	1
Batch ID: R445285 (0)		Test Name : SUBCONTRACT ANALYSIS - DIOXINS/FURANS 8290A			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			31 Aug 2023 13:22	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			31 Aug 2023 13:22	1
Batch ID: R446390 (0)		Test Name : SUBCONTRACT ANALYSIS - SPECIALIZED HERBICIDES			Matrix: Soil	
HS23071844-01	PTS-01-SL-20230727	27 Jul 2023 08:45			15 Sep 2023 07:13	1
HS23071844-02	DUP-01-SL-20230727	27 Jul 2023 08:50			15 Sep 2023 07:13	1

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Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 198419 (0) **Instrument:** ECD_13 **Method:** TCLP HERBICIDES BY SW8151A

MBLK		Sample ID: MBLK-198419		Units: mg/L		Analysis Date: 09-Aug-2023 11:24				
Client ID:		Run ID: ECD_13_443616		SeqNo: 7482493		PrepDate: 02-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	U	0.00020								
2,4-D	U	0.00020								
Surr: DCAA	0.0050	0.00020	0.005	0	100	40 - 140				

LCS		Sample ID: LCS-198419		Units: mg/L		Analysis Date: 09-Aug-2023 10:49				
Client ID:		Run ID: ECD_13_443616		SeqNo: 7482491		PrepDate: 02-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	0.0019	0.00020	0.0025	0	75.8	40 - 140				
2,4-D	0.0020	0.00020	0.0025	0	80.1	20 - 125				
Surr: DCAA	0.0047	0.00020	0.005	0	94.9	40 - 140				

LCSD		Sample ID: LCSD-198419		Units: mg/L		Analysis Date: 09-Aug-2023 11:07				
Client ID:		Run ID: ECD_13_443616		SeqNo: 7482492		PrepDate: 02-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	0.0019	0.00020	0.0025	0	76.5	40 - 140	0.001894	0.915	30	
2,4-D	0.0019	0.00020	0.0025	0	77.0	20 - 125	0.002001	3.85	30	
Surr: DCAA	0.0047	0.00020	0.005	0	93.3	40 - 140	0.004744	1.7	30	

MS		Sample ID: HS23071844-01MS		Units: mg/L		Analysis Date: 09-Aug-2023 10:14				
Client ID: PTS-01-SL-20230727		Run ID: ECD_13_443616		SeqNo: 7482489		PrepDate: 02-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	0.0017	0.00020	0.0025	0	69.5	40 - 140				
2,4-D	0.0019	0.00020	0.0025	0.0002399	65.8	20 - 125				
Surr: DCAA	0.0043	0.00020	0.005	0	86.9	40 - 140				

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

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QC BATCH REPORT

Batch ID: 198420 (0) **Instrument:** ECD_11 **Method:** TCLP ORGANOCHLORINE PESTICIDES BY SW8081B

MBLK Sample ID: **MBLK-198420** Units: **mg/L** Analysis Date: **10-Aug-2023 00:56**
 Client ID: Run ID: **ECD_11_443615** SeqNo: **7482428** PrepDate: **02-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

4,4'-DDD	U	0.00010								
4,4'-DDE	U	0.00010								
4,4'-DDT	U	0.00010								
Aldrin	U	0.000050								
alpha-BHC	U	0.000050								
beta-BHC	U	0.000050								
Chlordane	U	0.00050								
delta-BHC	U	0.000050								
Dieldrin	U	0.00010								
Endosulfan I	U	0.000050								
Endosulfan II	U	0.00010								
Endosulfan sulfate	U	0.00010								
Endrin	U	0.00010								
Endrin aldehyde	U	0.00010								
gamma-BHC	U	0.000050								
Heptachlor	U	0.000050								
Heptachlor epoxide	U	0.000050								
Methoxychlor	U	0.00050								
Toxaphene	U	0.00050								
Surr: Decachlorobiphenyl	0.00021	0.00010	0.0002	0	104	30 - 150				
Surr: Tetrachloro-m-xylene	0.00019	0.000050	0.0002	0	93.3	30 - 150				

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QC BATCH REPORT

Batch ID: 198420 (0)		Instrument: ECD_11		Method: TCLP ORGANOCHLORINE PESTICIDES BY SW8081B						
LCS	Sample ID: LCS-198420	Units: mg/L			Analysis Date: 10-Aug-2023 00:15					
Client ID:	Run ID: ECD_11_443615	SeqNo: 7482426	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00042	0.00010	0.0005	0	84.9	40 - 140				
4,4'-DDE	0.00042	0.00010	0.0005	0	84.9	40 - 140				
4,4'-DDT	0.00041	0.00010	0.0005	0	81.7	40 - 141				
Aldrin	0.00020	0.000050	0.00025	0	80.2	29 - 128				
alpha-BHC	0.00021	0.000050	0.00025	0	85.1	50 - 150				
beta-BHC	0.00020	0.000050	0.00025	0	80.1	50 - 150				
delta-BHC	0.00021	0.000050	0.00025	0	85.1	50 - 150				
Dieldrin	0.00042	0.00010	0.0005	0	83.8	54 - 124				
Endosulfan I	0.00020	0.000050	0.00025	0	80.3	50 - 150				
Endosulfan II	0.00041	0.00010	0.0005	0	81.9	50 - 150				
Endosulfan sulfate	0.00043	0.00010	0.0005	0	86.7	50 - 150				
Endrin	0.00046	0.00010	0.0005	0	92.0	54 - 148				
Endrin aldehyde	0.00039	0.00010	0.0005	0	78.7	50 - 150				
gamma-BHC	0.00022	0.000050	0.00025	0	86.6	58 - 130				
Heptachlor	0.00020	0.000050	0.00025	0	79.8	40 - 140				
Heptachlor epoxide	0.00021	0.000050	0.00025	0	82.6	40 - 140				
Methoxychlor	0.0021	0.00050	0.0025	0	83.5	50 - 150				
<i>Surr: Decachlorobiphenyl</i>	<i>0.00020</i>	<i>0.00010</i>	<i>0.0002</i>	<i>0</i>	<i>101</i>	<i>30 - 150</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.00018</i>	<i>0.000050</i>	<i>0.0002</i>	<i>0</i>	<i>89.1</i>	<i>30 - 150</i>				

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QC BATCH REPORT

Batch ID: 198420 (0)		Instrument: ECD_11		Method: TCLP ORGANOCHLORINE PESTICIDES BY SW8081B						
LCSD	Sample ID: LCSD-198420	Units: mg/L			Analysis Date: 10-Aug-2023 00:35					
Client ID:	Run ID: ECD_11_443615	SeqNo: 7482427	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00046	0.00010	0.0005	0	91.2	40 - 140	0.0004243	7.17	20	
4,4'-DDE	0.00045	0.00010	0.0005	0	89.4	40 - 140	0.0004245	5.16	20	
4,4'-DDT	0.00044	0.00010	0.0005	0	88.5	40 - 141	0.0004084	7.97	20	
Aldrin	0.00021	0.000050	0.00025	0	84.9	29 - 128	0.0002005	5.73	20	
alpha-BHC	0.00022	0.000050	0.00025	0	89.5	50 - 150	0.0002128	4.97	20	
beta-BHC	0.00022	0.000050	0.00025	0	86.5	50 - 150	0.0002003	7.69	20	
delta-BHC	0.00023	0.000050	0.00025	0	90.6	50 - 150	0.0002127	6.23	20	
Dieldrin	0.00046	0.00010	0.0005	0	91.0	54 - 124	0.0004191	8.21	20	
Endosulfan I	0.00022	0.000050	0.00025	0	87.1	50 - 150	0.0002009	8.09	20	
Endosulfan II	0.00045	0.00010	0.0005	0	89.0	50 - 150	0.0004097	8.3	20	
Endosulfan sulfate	0.00045	0.00010	0.0005	0	90.9	50 - 150	0.0004334	4.76	20	
Endrin	0.00050	0.00010	0.0005	0	99.3	54 - 148	0.0004602	7.58	20	
Endrin aldehyde	0.00042	0.00010	0.0005	0	84.5	50 - 150	0.0003934	7.14	20	
gamma-BHC	0.00023	0.000050	0.00025	0	92.0	58 - 130	0.0002164	6.06	20	
Heptachlor	0.00021	0.000050	0.00025	0	83.8	40 - 140	0.0001996	4.8	20	
Heptachlor epoxide	0.00022	0.000050	0.00025	0	89.1	40 - 140	0.0002064	7.64	20	
Methoxychlor	0.0022	0.00050	0.0025	0	87.2	50 - 150	0.002088	4.29	20	
Surr: Decachlorobiphenyl	0.00021	0.00010	0.0002	0	107	30 - 150	0.0002011	5.74	20	
Surr: Tetrachloro-m-xylene	0.00019	0.000050	0.0002	0	94.7	30 - 150	0.0001783	6.08	20	

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QC BATCH REPORT

Batch ID: 198420 (0)		Instrument: ECD_11		Method: TCLP ORGANOCHLORINE PESTICIDES BY SW8081B						
MS	Sample ID: HS23071844-02MS	Units: mg/L			Analysis Date: 10-Aug-2023 02:40					
Client ID: DUP-01-SL-20230727	Run ID: ECD_11_443615	SeqNo: 7482431	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.00040	0.00010	0.0005	0	80.7	40 - 140				
4,4'-DDE	0.00034	0.00010	0.0005	0	68.6	40 - 140				
4,4'-DDT	0.00042	0.00010	0.0005	0	83.1	40 - 141				
Aldrin	0.00017	0.000050	0.00025	0	67.0	29 - 128				
alpha-BHC	0.00022	0.000050	0.00025	0	88.3	50 - 150				
beta-BHC	0.00022	0.000050	0.00025	0	87.3	50 - 150				
delta-BHC	0.00018	0.000050	0.00025	0	71.3	50 - 150				
Dieldrin	0.00039	0.00010	0.0005	0	78.5	54 - 124				
Endosulfan I	0.00017	0.000050	0.00025	0	66.2	50 - 150				
Endosulfan II	0.00038	0.00010	0.0005	0	76.4	50 - 150				
Endosulfan sulfate	0.00041	0.00010	0.0005	0	81.6	50 - 150				
Endrin	0.00051	0.00010	0.0005	0	102	54 - 148				
Endrin aldehyde	0.00037	0.00010	0.0005	0	74.5	50 - 150				
gamma-BHC	0.00018	0.000050	0.00025	0	72.6	58 - 130				
Heptachlor	0.00018	0.000050	0.00025	0	73.5	40 - 140				
Heptachlor epoxide	0.00018	0.000050	0.00025	0	72.0	40 - 140				
Methoxychlor	0.0022	0.00050	0.0025	0	88.0	50 - 150				
Surr: Decachlorobiphenyl	0.00019	0.00010	0.0002	0	95.4	30 - 150				
Surr: Tetrachloro-m-xylene	0.00022	0.000050	0.0002	0	109	30 - 150				

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

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QC BATCH REPORT

Batch ID: 198509 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
MBLK	Sample ID: MBLK-198509	Units: mg/Kg			Analysis Date: 11-Aug-2023 04:46					
Client ID:	Run ID: ECD_15_443959	SeqNo: 7490343		PrepDate: 03-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
4,4'-DDD	U	0.0033								
4,4'-DDE	U	0.0033								
4,4'-DDT	U	0.0033								
Aldrin	U	0.0017								
alpha-BHC	U	0.0017								
beta-BHC	U	0.0017								
delta-BHC	U	0.0017								
Dieldrin	U	0.0033								
Endosulfan I	U	0.0017								
Endosulfan II	U	0.0033								
Endosulfan sulfate	U	0.0033								
Endrin	U	0.0033								
Endrin aldehyde	U	0.0033								
gamma-BHC	U	0.0017								
Heptachlor	U	0.0017								
Heptachlor epoxide	U	0.0017								
Methoxychlor	U	0.017								
<i>Surr: Decachlorobiphenyl</i>	<i>0.0062</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>93.7</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0059</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>88.6</i>	<i>56.9 - 130</i>				

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QC BATCH REPORT

Batch ID: 198509 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
LCS	Sample ID: LCS-198509	Units: mg/Kg			Analysis Date: 11-Aug-2023 04:07					
Client ID:	Run ID: ECD_15_443959	SeqNo: 7490341		PrepDate: 03-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
4,4'-DDD	0.014	0.0033	0.01667	0	81.6	53 - 138				
4,4'-DDE	0.014	0.0033	0.01667	0	82.6	57 - 136				
4,4'-DDT	0.010	0.0033	0.01667	0	62.9	53 - 139				
Aldrin	0.0064	0.0017	0.008333	0	76.5	52 - 130				
alpha-BHC	0.0067	0.0017	0.008333	0	80.7	52 - 130				
beta-BHC	0.0068	0.0017	0.008333	0	81.4	62 - 130				
delta-BHC	0.0062	0.0017	0.008333	0	73.8	41 - 137				
Dieldrin	0.014	0.0033	0.01667	0	82.3	54 - 138				
Endosulfan I	0.0061	0.0017	0.008333	0	73.1	55 - 132				
Endosulfan II	0.011	0.0033	0.01667	0	63.4	59 - 134				
Endosulfan sulfate	0.013	0.0033	0.01667	0	80.2	54 - 141				
Endrin	0.015	0.0033	0.01667	0	90.1	60 - 157				
Endrin aldehyde	0.013	0.0033	0.01667	0	80.8	56 - 146				
gamma-BHC	0.0069	0.0017	0.008333	0	82.9	52 - 133				
Heptachlor	0.0071	0.0017	0.008333	0	84.7	54 - 134				
Heptachlor epoxide	0.0066	0.0017	0.008333	0	78.8	58 - 130				
Methoxychlor	0.066	0.017	0.0833	0	78.9	60 - 140				
<i>Surr: Decachlorobiphenyl</i>	<i>0.0061</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>91.6</i>	<i>59 - 144</i>				
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0056</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>84.6</i>	<i>56.9 - 130</i>				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198509 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
LCSD	Sample ID: LCSD-198509	Units: mg/Kg			Analysis Date: 11-Aug-2023 04:26					
Client ID:	Run ID: ECD_15_443959	SeqNo: 7490342		PrepDate: 03-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.014	0.0033	0.01667	0	81.2	53 - 138	0.01360	0.538	30	
4,4'-DDE	0.014	0.0033	0.01667	0	82.5	57 - 136	0.01377	0.0727	30	
4,4'-DDT	0.011	0.0033	0.01667	0	65.3	53 - 139	0.01048	3.77	30	
Aldrin	0.0064	0.0017	0.008333	0	76.9	52 - 130	0.006374	0.496	30	
alpha-BHC	0.0067	0.0017	0.008333	0	80.9	52 - 130	0.006725	0.208	30	
beta-BHC	0.0069	0.0017	0.008333	0	82.5	62 - 130	0.006785	1.31	30	
delta-BHC	0.0068	0.0017	0.008333	0	81.3	41 - 137	0.006150	9.61	30	
Dieldrin	0.014	0.0033	0.01667	0	82.1	54 - 138	0.01372	0.309	30	
Endosulfan I	0.0061	0.0017	0.008333	0	73.6	55 - 132	0.006092	0.654	30	
Endosulfan II	0.011	0.0033	0.01667	0	63.9	59 - 134	0.01056	0.933	30	
Endosulfan sulfate	0.014	0.0033	0.01667	0	85.7	54 - 141	0.01337	6.68	30	
Endrin	0.014	0.0033	0.01667	0	86.3	60 - 157	0.01501	4.24	30	
Endrin aldehyde	0.013	0.0033	0.01667	0	80.5	56 - 146	0.01347	0.439	30	
gamma-BHC	0.0069	0.0017	0.008333	0	82.2	52 - 133	0.006910	0.848	30	
Heptachlor	0.0071	0.0017	0.008333	0	84.8	54 - 134	0.007054	0.189	30	
Heptachlor epoxide	0.0066	0.0017	0.008333	0	78.7	58 - 130	0.006569	0.193	30	
Methoxychlor	0.066	0.017	0.0833	0	79.3	60 - 140	0.06572	0.492	30	
<i>Surr: Decachlorobiphenyl</i>	<i>0.0059</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>88.9</i>	<i>59 - 144</i>	<i>0.006109</i>	<i>3.02</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0056</i>	<i>0</i>	<i>0.006667</i>	<i>0</i>	<i>84.7</i>	<i>56.9 - 130</i>	<i>0.005638</i>	<i>0.171</i>	<i>30</i>	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198509 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
MS	Sample ID: HS23071844-01MS	Units: mg/Kg			Analysis Date: 15-Aug-2023 05:50					
Client ID: PTS-01-SL-20230727	Run ID: ECD_15_443959	SeqNo: 7491535	PrepDate: 03-Aug-2023	DF: 10						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.011	0.033	0.01658	0.0008059	62.8	53 - 138				J
4,4'-DDE	0.010	0.033	0.01658	0.02272	-75.3	57 - 136				JS
4,4'-DDT	U	0.033	0.01658	0.001329	-8.01	53 - 139				S
Aldrin	U	0.017	0.008292	0.00005994	-0.723	52 - 130				S
alpha-BHC	0.0100	0.017	0.008292	0.004206	69.3	52 - 130				J
beta-BHC	U	0.017	0.008292	0	0	62 - 130				S
delta-BHC	0.0045	0.017	0.008292	0.0001099	52.8	41 - 137				J
Dieldrin	U	0.033	0.01658	0.001951	-11.8	54 - 138				S
Endosulfan I	U	0.017	0.008292	0	0	55 - 132				S
Endosulfan II	0.010	0.033	0.01658	0.001329	53.5	59 - 134				JS
Endosulfan sulfate	0.014	0.033	0.01658	0.0001598	81.2	54 - 141				J
Endrin	0.013	0.033	0.01658	0.007479	34.9	60 - 157				JS
Endrin aldehyde	U	0.033	0.01658	0.001372	-8.27	56 - 146				S
gamma-BHC	U	0.017	0.008292	0.0005694	-6.87	52 - 133				S
Heptachlor	0.0038	0.017	0.008292	0.00009990	44.3	54 - 134				JS
Heptachlor epoxide	U	0.017	0.008292	0.00007326	-0.884	58 - 130				S
Methoxychlor	0.045	0.17	0.08289	0	54.7	60 - 140				JS
Surr: Decachlorobiphenyl	0.0063	0	0.006634	0	94.8	59 - 144				
Surr: Tetrachloro-m-xylene	0.0071	0	0.006634	0	107	56.9 - 130				

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198509 (0)		Instrument: ECD_15		Method: ORGANOCHLORINE PESTICIDES BY SW8081B						
MSD	Sample ID: HS23071844-01MSD	Units: mg/Kg			Analysis Date: 15-Aug-2023 06:09					
Client ID: PTS-01-SL-20230727	Run ID: ECD_15_443959	SeqNo: 7491536	PrepDate: 03-Aug-2023	DF: 10						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.011	0.033	0.01662	0.0008059	62.3	53 - 138	0.01123	0	30	J
4,4'-DDE	0.037	0.033	0.01662	0.02272	84.1	57 - 136	0.01023	113	30	R
4,4'-DDT	U	0.033	0.01662	0.001329	-7.99	53 - 139	0	0	30	S
Aldrin	U	0.017	0.008311	0.00005994	-0.721	52 - 130	0	0	30	S
alpha-BHC	0.0067	0.017	0.008311	0.004206	29.6	52 - 130	0.009950	0	30	JS
beta-BHC	U	0.017	0.008311	0	0	62 - 130	0	0	30	S
delta-BHC	0.0048	0.017	0.008311	0.0001099	56.0	41 - 137	0.004491	0	30	J
Dieldrin	U	0.033	0.01662	0.001951	-11.7	54 - 138	0	0	30	S
Endosulfan I	0.0041	0.017	0.008311	0	49.4	55 - 132	0	0	30	JS
Endosulfan II	0.012	0.033	0.01662	0.001329	62.8	59 - 134	0.01020	0	30	J
Endosulfan sulfate	0.013	0.033	0.01662	0.0001598	78.6	54 - 141	0.01363	0	30	J
Endrin	0.012	0.033	0.01662	0.007479	29.2	60 - 157	0.01327	0	30	JS
Endrin aldehyde	U	0.033	0.01662	0.001372	-8.25	56 - 146	0	0	30	S
gamma-BHC	U	0.017	0.008311	0.0005694	-6.85	52 - 133	0	0	30	S
Heptachlor	0.0039	0.017	0.008311	0.00009990	45.6	54 - 134	0.003774	0	30	JS
Heptachlor epoxide	U	0.017	0.008311	0.00007326	-0.881	58 - 130	0	0	30	S
Methoxychlor	0.046	0.17	0.08308	0	54.8	60 - 140	0.04536	0	30	JS
<i>Surr: Decachlorobiphenyl</i>	<i>0.0059</i>	<i>0</i>	<i>0.006649</i>	<i>0</i>	<i>88.5</i>	<i>59 - 144</i>	<i>0.006292</i>	<i>6.64</i>	<i>30</i>	
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0071</i>	<i>0</i>	<i>0.006649</i>	<i>0</i>	<i>107</i>	<i>56.9 - 130</i>	<i>0.007095</i>	<i>0.232</i>	<i>30</i>	

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198705 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A						
MBLK	Sample ID: MBLK-198705	Units: mg/Kg		Analysis Date: 11-Aug-2023 14:35						
Client ID:	Run ID: ICPMS06_443765	SeqNo: 7486503		PrepDate: 10-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.499								
Arsenic	U	0.499								
Barium	U	0.499								
Beryllium	U	0.499								
Cadmium	U	0.499								
Chromium	U	0.499								
Cobalt	U	0.499								
Copper	U	0.199								
Lead	U	0.499								
Nickel	U	0.499								
Selenium	U	0.499								
Silver	U	0.499								
Thallium	U	0.499								
Tin	U	0.997								
Vanadium	U	0.499								
Zinc	U	0.499								

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198705 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A					
LCS	Sample ID: LCS-198705	Units: mg/Kg			Analysis Date: 11-Aug-2023 14:18				
Client ID:	Run ID: ICPMS06_443765	SeqNo: 7486500		PrepDate: 10-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Antimony	9.498	0.498	9.966	0	95.3	80 - 120			
Arsenic	9.991	0.498	9.966	0	100	80 - 120			
Barium	9.864	0.498	9.966	0	99.0	80 - 120			
Beryllium	9.125	0.498	9.966	0	91.6	80 - 120			
Cadmium	9.947	0.498	9.966	0	99.8	80 - 120			
Chromium	10.24	0.498	9.966	0	103	80 - 120			
Cobalt	9.751	0.498	9.966	0	97.8	80 - 120			
Copper	11.86	0.199	9.966	0	119	80 - 120			
Lead	9.972	0.498	9.966	0	100	80 - 120			
Nickel	10.25	0.498	9.966	0	103	80 - 120			
Selenium	9.982	0.498	9.966	0	100	80 - 120			
Silver	9.865	0.498	9.966	0	99.0	80 - 120			
Thallium	10.42	0.498	9.966	0	105	80 - 120			
Tin	10.51	0.997	9.966	0	105	80 - 120			
Vanadium	9.874	0.498	9.966	0	99.1	80 - 120			
Zinc	10.04	0.498	9.966	0	101	80 - 120			

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198705 (0)		Instrument: ICPMS06			Method: METALS BY SW6020A					
MS	Sample ID: HS23070823-04MS	Units: mg/Kg			Analysis Date: 10-Aug-2023 22:24					
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484587	PrepDate: 10-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	3.018	0.482	9.639	0.2459	28.8	75 - 125				S
Arsenic	10.76	0.482	9.639	2.204	88.8	75 - 125				
Barium	101.2	0.482	9.639	145.2	-457	75 - 125				SO
Beryllium	9.797	0.482	9.639	0.6462	94.9	75 - 125				
Cadmium	9.17	0.482	9.639	0.08099	94.3	75 - 125				
Chromium	20.8	0.482	9.639	12.63	84.8	75 - 125				
Cobalt	11.82	0.482	9.639	2.767	93.9	75 - 125				
Copper	14.8	0.193	9.639	6.78	83.2	75 - 125				
Lead	14.4	0.482	9.639	4.891	98.6	75 - 125				
Nickel	16.56	0.482	9.639	8.117	87.6	75 - 125				
Selenium	9.299	0.482	9.639	0.5343	90.9	75 - 125				
Silver	9.019	0.482	9.639	0.03913	93.2	75 - 125				
Thallium	9.755	0.482	9.639	0.2319	98.8	75 - 125				
Tin	10.16	0.964	9.639	1.499	89.9	75 - 125				
Vanadium	26.33	0.482	9.639	17.51	91.5	75 - 125				
Zinc	34.36	0.482	9.639	26.15	85.2	75 - 125				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198705 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A							
MSD	Sample ID: HS23070823-04MSD	Units: mg/Kg			Analysis Date: 10-Aug-2023 22:26						
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484588	PrepDate: 10-Aug-2023	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	2.952	0.477	9.537	0.2459	28.4	75 - 125	3.018	2.21	20	S	
Arsenic	11.11	0.477	9.537	2.204	93.4	75 - 125	10.76	3.2	20		
Barium	152.1	0.477	9.537	145.2	71.9	75 - 125	101.2	40.2	20	SRO	
Beryllium	9.97	0.477	9.537	0.6462	97.8	75 - 125	9.797	1.75	20		
Cadmium	9.278	0.477	9.537	0.08099	96.4	75 - 125	9.17	1.17	20		
Chromium	22.26	0.477	9.537	12.63	101	75 - 125	20.8	6.76	20		
Cobalt	12.02	0.477	9.537	2.767	97.1	75 - 125	11.82	1.71	20		
Copper	15.7	0.191	9.537	6.78	93.5	75 - 125	14.8	5.87	20		
Lead	14.88	0.477	9.537	4.891	105	75 - 125	14.4	3.28	20		
Nickel	17.44	0.477	9.537	8.117	97.8	75 - 125	16.56	5.16	20		
Selenium	9.503	0.477	9.537	0.5343	94.0	75 - 125	9.299	2.17	20		
Silver	9.176	0.477	9.537	0.03913	95.8	75 - 125	9.019	1.73	20		
Thallium	9.93	0.477	9.537	0.2319	102	75 - 125	9.755	1.78	20		
Tin	10.25	0.954	9.537	1.499	91.7	75 - 125	10.16	0.805	20		
Vanadium	27.97	0.477	9.537	17.51	110	75 - 125	26.33	6.03	20		
Zinc	35.38	0.477	9.537	26.15	96.8	75 - 125	34.36	2.91	20		

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198705 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A						
PDS		Sample ID: HS23070823-04PDS		Units: mg/Kg		Analysis Date: 10-Aug-2023 22:28				
Client ID:		Run ID: ICPMS05_443668		SeqNo: 7484589		PrepDate: 10-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	9.129	0.486	9.711	0.2459	91.5	75 - 125				
Arsenic	11.75	0.486	9.711	2.204	98.3	75 - 125				
Barium	153.4	0.486	9.711	145.2	84.4	75 - 125			O	
Beryllium	10.07	0.486	9.711	0.6462	97.0	75 - 125				
Cadmium	9.392	0.486	9.711	0.08099	95.9	75 - 125				
Chromium	21.46	0.486	9.711	12.63	90.9	75 - 125				
Cobalt	11.82	0.486	9.711	2.767	93.2	75 - 125				
Copper	15.7	0.194	9.711	6.78	91.8	75 - 125				
Lead	14.43	0.486	9.711	4.891	98.3	75 - 125				
Nickel	16.73	0.486	9.711	8.117	88.7	75 - 125				
Selenium	10.02	0.486	9.711	0.5343	97.6	75 - 125				
Silver	8.902	0.486	9.711	0.03913	91.3	75 - 125				
Thallium	9.948	0.486	9.711	0.2319	100	75 - 125				
Vanadium	26.85	0.486	9.711	17.51	96.2	75 - 125				
Zinc	34.86	0.486	9.711	26.15	89.8	75 - 125				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198705 (0)		Instrument: ICPMS06		Method: METALS BY SW6020A						
SD	Sample ID: HS23070823-04SD	Units: mg/Kg		Analysis Date: 10-Aug-2023 22:22						
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484586	PrepDate: 10-Aug-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Antimony	0.3262	2.43					0.2459	0	10	J
Arsenic	2.199	2.43					2.204	0	10	J
Barium	144.6	2.43					145.2	0.447	10	
Beryllium	0.63	2.43					0.6462	0	10	J
Cadmium	U	2.43					0.08099	0	10	
Chromium	12.76	2.43					12.63	1.02	10	
Cobalt	2.921	2.43					2.767	5.55	10	
Copper	7.357	0.971					6.78	8.52	10	
Lead	4.982	2.43					4.891	1.86	10	
Nickel	8.547	2.43					8.117	5.29	10	
Selenium	0.5256	2.43					0.5343	0	10	J
Silver	U	2.43					0.03913	0	10	
Thallium	U	2.43					0.2319	0	10	
Tin	1.569	4.86					1.499	0	10	J
Vanadium	17.9	2.43					17.51	2.25	10	
Zinc	28.34	2.43					26.15	8.39	10	

The following samples were analyzed in this batch:

HS23071844-01	HS23071844-02
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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198712 (0) **Instrument:** HG04 **Method:** MERCURY BY SW7471B

MBLK Sample ID: **MBLK-198712** Units: **mg/Kg** Analysis Date: **09-Aug-2023 13:56**
 Client ID: Run ID: **HG04_443547** SeqNo: **7481038** PrepDate: **09-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury U 0.00332

LCS Sample ID: **LCS-198712** Units: **mg/Kg** Analysis Date: **09-Aug-2023 13:57**
 Client ID: Run ID: **HG04_443547** SeqNo: **7481039** PrepDate: **09-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.355 0.00332 0.3333 0 107 80 - 120

MS Sample ID: **HS23071884-08MS** Units: **mg/Kg** Analysis Date: **09-Aug-2023 14:11**
 Client ID: Run ID: **HG04_443547** SeqNo: **7481044** PrepDate: **09-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.405 0.00352 0.3527 0.02844 107 80 - 120

MSD Sample ID: **HS23071884-08MSD** Units: **mg/Kg** Analysis Date: **09-Aug-2023 14:12**
 Client ID: Run ID: **HG04_443547** SeqNo: **7481045** PrepDate: **09-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.381 0.00335 0.3363 0.02844 105 80 - 120 0.4049 5.99 20

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198793 (0)	Instrument: HG04	Method: TCLP MERCURY BY SW7470A
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MBLK	Sample ID: MBLKT2-198225	Units: mg/L	Analysis Date: 10-Aug-2023 14:15							
Client ID:	Run ID: HG04_443696	SeqNo: 7483914	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT4-198515	Units: mg/L	Analysis Date: 10-Aug-2023 14:18							
Client ID:	Run ID: HG04_443696	SeqNo: 7483916	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT6-198611	Units: mg/L	Analysis Date: 10-Aug-2023 14:21							
Client ID:	Run ID: HG04_443696	SeqNo: 7483918	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT7-198407	Units: mg/L	Analysis Date: 10-Aug-2023 14:23							
Client ID:	Run ID: HG04_443696	SeqNo: 7483919	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT5-198408	Units: mg/L	Analysis Date: 10-Aug-2023 14:20							
Client ID:	Run ID: HG04_443696	SeqNo: 7483917	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLKT3-198558	Units: mg/L	Analysis Date: 10-Aug-2023 14:16							
Client ID:	Run ID: HG04_443696	SeqNo: 7483915	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198793 (0)	Instrument: HG04	Method: TCLP MERCURY BY SW7470A
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MBLK	Sample ID: MBLKT1-198556	Units: mg/L	Analysis Date: 10-Aug-2023 14:13							
Client ID:	Run ID: HG04_443696	SeqNo: 7483913	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury U 0.000200

MBLK	Sample ID: MBLK-198793	Units: mg/L	Analysis Date: 10-Aug-2023 14:11							
Client ID:	Run ID: HG04_443696	SeqNo: 7483912	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury U 0.000200

LCS	Sample ID: LCS-198793	Units: mg/L	Analysis Date: 10-Aug-2023 14:27							
Client ID:	Run ID: HG04_443696	SeqNo: 7483920	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00486 0.000200 0.005 0 97.2 80 - 120

MS	Sample ID: HS23080131-01MS	Units: mg/L	Analysis Date: 10-Aug-2023 14:41							
Client ID:	Run ID: HG04_443696	SeqNo: 7483924	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00442 0.000200 0.005 -0.000008 88.6 75 - 125

MSD	Sample ID: HS23080131-01MSD	Units: mg/L	Analysis Date: 10-Aug-2023 14:43							
Client ID:	Run ID: HG04_443696	SeqNo: 7483925	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Mercury 0.00434 0.000200 0.005 -0.000008 87.0 75 - 125 0.00442 1.83 20

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198811 (0)	Instrument: ICPMS05	Method: TCLP METALS BY SW6020A								
MBLK	Sample ID: MBLKT2-198473	Units: mg/L	Analysis Date: 10-Aug-2023 17:03							
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484417	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	0.00914	0.0500								J
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	0.00667	0.0500								J
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Vanadium	U	0.0500								
Zinc	U	0.0500								

MBLK	Sample ID: MBLKT4-198791	Units: mg/L	Analysis Date: 11-Aug-2023 15:08							
Client ID:	Run ID: ICPMS06_443765	SeqNo: 7486642	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Lead	0.00613	0.0500								J
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Vanadium	U	0.0500								

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198811 (0) **Instrument:** ICPMS05 **Method:** TCLP METALS BY SW6020A

MBLK Sample ID: **MBLKT5-198788** Units: **mg/L** Analysis Date: **11-Aug-2023 15:10**
 Client ID: Run ID: **ICPMS06_443765** SeqNo: **7486643** PrepDate: **10-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Vanadium	U	0.0500								

MBLK Sample ID: **MBLKT3-198781** Units: **mg/L** Analysis Date: **11-Aug-2023 15:06**
 Client ID: Run ID: **ICPMS06_443765** SeqNo: **7486641** PrepDate: **10-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Vanadium	U	0.0500								

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198811 (0)	Instrument: ICPMS05	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT1-198410	Units: mg/L	Analysis Date: 10-Aug-2023 17:01							
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484416	PrepDate: 10-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	0.00487	0.0500								J
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	0.00651	0.0500								J
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Vanadium	U	0.0500								
Zinc	U	0.0500								

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Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198811 (0) **Instrument:** ICPMS05 **Method:** TCLP METALS BY SW6020A

MBLK Sample ID: **MBLK-198811** Units: **mg/L** Analysis Date: **10-Aug-2023 16:59**
 Client ID: Run ID: **ICPMS05_443668** SeqNo: **7484415** PrepDate: **10-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	0.000474	0.00500								J
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Thallium	U	0.00200								
Vanadium	U	0.00500								
Zinc	U	0.00500								

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198811 (0)		Instrument: ICPMS05		Method: TCLP METALS BY SW6020A						
LCS	Sample ID: LCS-198811	Units: mg/L			Analysis Date: 10-Aug-2023 17:05					
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484418	PrepDate: 10-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05057	0.00500	0.05	0	101	80 - 120				
Arsenic	0.05152	0.00500	0.05	0	103	80 - 120				
Barium	0.04923	0.0200	0.05	0	98.5	80 - 120				
Beryllium	0.0468	0.00200	0.05	0	93.6	80 - 120				
Cadmium	0.05106	0.00500	0.05	0	102	80 - 120				
Chromium	0.05075	0.00500	0.05	0	102	80 - 120				
Cobalt	0.05148	0.00500	0.05	0	103	80 - 120				
Copper	0.05214	0.00200	0.05	0	104	80 - 120				
Lead	0.0489	0.00500	0.05	0	97.8	80 - 120				
Nickel	0.05245	0.00500	0.05	0	105	80 - 120				
Selenium	0.05439	0.00500	0.05	0	109	80 - 120				
Silver	0.04991	0.00500	0.05	0	99.8	80 - 120				
Thallium	0.0458	0.00200	0.05	0	91.6	80 - 120				
Vanadium	0.05062	0.00500	0.05	0	101	80 - 120				
Zinc	0.05578	0.00500	0.05	0	112	80 - 120				

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Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198811 (0)		Instrument: ICPMS05		Method: TCLP METALS BY SW6020A						
MS	Sample ID: HS23080500-01MS	Units: mg/L			Analysis Date: 10-Aug-2023 17:32					
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484409	PrepDate: 10-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5129	0.0500	0.5	0.00144	102	80 - 120				
Arsenic	0.5284	0.0500	0.5	0.00967	104	80 - 120				
Barium	0.7896	0.200	0.5	0.3014	97.6	80 - 120				
Beryllium	0.4551	0.0200	0.5	-0.00003	91.0	80 - 120				
Cadmium	0.4866	0.0500	0.5	0.00058	97.2	80 - 120				
Chromium	0.4938	0.0500	0.5	0.00935	96.9	80 - 120				
Cobalt	0.5033	0.0500	0.5	0.00829	99.0	80 - 120				
Copper	0.4989	0.0200	0.5	0.00692	98.4	80 - 120				
Lead	0.501	0.0500	0.5	0.00838	98.5	80 - 120				
Nickel	0.4999	0.0500	0.5	0.01807	96.4	80 - 120				
Selenium	0.5453	0.0500	0.5	0.0046	108	80 - 120				
Silver	0.4739	0.0500	0.5	-0.00002	94.8	80 - 120				
Thallium	0.4703	0.0200	0.5	-0.00007	94.1	80 - 120				
Vanadium	0.512	0.0500	0.5	0.01216	100.0	80 - 120				
Zinc	0.5351	0.0500	0.5	0.01948	103	80 - 120				

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198811 (0)		Instrument: ICPMS05			Method: TCLP METALS BY SW6020A					
MSD	Sample ID: HS23080500-01MSD	Units: mg/L			Analysis Date: 10-Aug-2023 17:34					
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484410			PrepDate: 10-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5228	0.0500	0.5	0.00144	104	80 - 120	0.5129	1.92	20	
Arsenic	0.5356	0.0500	0.5	0.00967	105	80 - 120	0.5284	1.35	20	
Barium	0.7884	0.200	0.5	0.3014	97.4	80 - 120	0.7896	0.152	20	
Beryllium	0.4621	0.0200	0.5	-0.00003	92.4	80 - 120	0.4551	1.52	20	
Cadmium	0.4916	0.0500	0.5	0.00058	98.2	80 - 120	0.4866	1.03	20	
Chromium	0.507	0.0500	0.5	0.00935	99.5	80 - 120	0.4938	2.63	20	
Cobalt	0.51	0.0500	0.5	0.00829	100	80 - 120	0.5033	1.32	20	
Copper	0.5076	0.0200	0.5	0.00692	100	80 - 120	0.4989	1.73	20	
Lead	0.499	0.0500	0.5	0.00838	98.1	80 - 120	0.501	0.392	20	
Nickel	0.5106	0.0500	0.5	0.01807	98.5	80 - 120	0.4999	2.12	20	
Selenium	0.5571	0.0500	0.5	0.0046	110	80 - 120	0.5453	2.14	20	
Silver	0.4696	0.0500	0.5	-0.00002	93.9	80 - 120	0.4739	0.914	20	
Thallium	0.4815	0.0200	0.5	-0.00007	96.3	80 - 120	0.4703	2.35	20	
Vanadium	0.5116	0.0500	0.5	0.01216	99.9	80 - 120	0.512	0.0899	20	
Zinc	0.5192	0.0500	0.5	0.01948	100.0	80 - 120	0.5351	3.01	20	

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ALS Houston, US

Date: 07-Nov-23

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Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198811 (0)		Instrument: ICPMS05		Method: TCLP METALS BY SW6020A						
SD	Sample ID: HS23080500-01SD	Units: mg/L		Analysis Date: 10-Aug-2023 17:30						
Client ID:	Run ID: ICPMS05_443668	SeqNo: 7484408	PrepDate: 10-Aug-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Antimony	U	0.250					0.00144	0	10	
Arsenic	U	0.250					0.00967	0	10	
Barium	0.2871	1.00					0.3014	0	10	J
Beryllium	U	0.100					-0.00003	0	10	
Cadmium	U	0.250					0.00058	0	10	
Chromium	0.02141	0.250					0.00935	0	10	J
Cobalt	U	0.250					0.00829	0	10	
Copper	U	0.100					0.00692	0	10	
Lead	U	0.250					0.00838	0	10	
Nickel	U	0.250					0.01807	0	10	
Selenium	0.06629	0.250					0.0046	0	10	J
Silver	U	0.250					-0.00002	0	10	
Thallium	U	0.100					-0.00007	0	10	
Vanadium	U	0.250					0.01216	0	10	
Zinc	U	0.250					0.01948	0	10	

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198847 (0)	Instrument: HG04	Method: TCLP MERCURY AT PH 7 BY SW7470A
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MBLK	Sample ID: MBLKT1-198847	Units: mg/L	Analysis Date: 11-Aug-2023 17:40							
Client ID:	Run ID: HG04_443779	SeqNo: 7486937	PrepDate: 11-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

MBLK	Sample ID: MBLK-198847	Units: mg/L	Analysis Date: 11-Aug-2023 17:39							
Client ID:	Run ID: HG04_443779	SeqNo: 7486936	PrepDate: 11-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury U 0.000200

LCS	Sample ID: LCS-198847	Units: mg/L	Analysis Date: 11-Aug-2023 17:42							
Client ID:	Run ID: HG04_443779	SeqNo: 7486938	PrepDate: 11-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00534 0.000200 0.005 0 107 80 - 124

MS	Sample ID: HS23071844-01MS	Units: mg/L	Analysis Date: 11-Aug-2023 17:56							
Client ID: PTS-01-SL-20230727	Run ID: HG04_443779	SeqNo: 7486942	PrepDate: 11-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.0055 0.000200 0.005 -0.000003 110 80 - 124

MSD	Sample ID: HS23071844-01MSD	Units: mg/L	Analysis Date: 11-Aug-2023 17:57							
Client ID: PTS-01-SL-20230727	Run ID: HG04_443779	SeqNo: 7486943	PrepDate: 11-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00541 0.000200 0.005 -0.000003 108 80 - 124 0.0055 1.65 20

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198850 (0)		Instrument: ICPMS05		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
MBLK	Sample ID: MBLKT1-198431	Units: mg/L			Analysis Date: 11-Aug-2023 17:01					
Client ID:	Run ID: ICPMS05_443762	SeqNo: 7488306	PrepDate: 11-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	0.00623	0.0500								J
Cobalt	U	0.0500								
Copper	U	0.0200								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Thallium	U	0.0200								
Vanadium	0.00704	0.0500								J
Zinc	U	0.0500								

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198850 (0)		Instrument: ICPMS05		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
MBLK	Sample ID: MBLK-198850	Units: mg/L			Analysis Date: 11-Aug-2023 16:59					
Client ID:	Run ID: ICPMS05_443762	SeqNo: 7488305	PrepDate: 11-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	0.00041	0.00500								J
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Thallium	U	0.00200								
Vanadium	0.000752	0.00500								J
Zinc	U	0.00500								

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198850 (0)		Instrument: ICPMS05			Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A					
LCS	Sample ID: LCS-198850	Units: mg/L			Analysis Date: 11-Aug-2023 17:03					
Client ID:	Run ID: ICPMS05_443762			SeqNo: 7488307	PrepDate: 11-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04962	0.00500	0.05	0	99.2	80 - 120				
Arsenic	0.04957	0.00500	0.05	0	99.1	80 - 120				
Barium	0.04766	0.0200	0.05	0	95.3	80 - 120				
Beryllium	0.04536	0.00200	0.05	0	90.7	80 - 120				
Cadmium	0.049	0.00500	0.05	0	98.0	80 - 120				
Chromium	0.0474	0.00500	0.05	0	94.8	80 - 120				
Cobalt	0.0477	0.00500	0.05	0	95.4	80 - 120				
Copper	0.04888	0.00200	0.05	0	97.8	80 - 120				
Lead	0.04674	0.00500	0.05	0	93.5	80 - 120				
Nickel	0.04876	0.00500	0.05	0	97.5	80 - 120				
Selenium	0.05245	0.00500	0.05	0	105	80 - 120				
Silver	0.04791	0.00500	0.05	0	95.8	80 - 120				
Thallium	0.04456	0.00200	0.05	0	89.1	80 - 120				
Vanadium	0.04872	0.00500	0.05	0	97.4	80 - 120				
Zinc	0.05204	0.00500	0.05	0	104	80 - 120				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198850 (0)		Instrument: ICPMS05		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
MS		Sample ID: HS23071844-01MS		Units: mg/L		Analysis Date: 11-Aug-2023 17:09				
Client ID: PTS-01-SL-20230727		Run ID: ICPMS05_443762		SeqNo: 7488310		PrepDate: 11-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	0.503	0.0500	0.5	0.0167	97.3	80 - 120				
Arsenic	0.4826	0.0500	0.5	0.00528	95.5	80 - 120				
Barium	0.535	0.200	0.5	0.06449	94.1	80 - 120				
Beryllium	0.448	0.0200	0.5	0.00023	89.5	80 - 120				
Cadmium	0.4851	0.0500	0.5	0.00045	96.9	80 - 120				
Chromium	0.4659	0.0500	0.5	0.01496	90.2	80 - 120				
Cobalt	0.4696	0.0500	0.5	0.00356	93.2	80 - 120				
Copper	0.4787	0.0200	0.5	0.00401	94.9	80 - 120				
Lead	0.4643	0.0500	0.5	0.00653	91.6	80 - 120				
Nickel	0.4859	0.0500	0.5	0.01734	93.7	80 - 120				
Selenium	0.534	0.0500	0.5	0.05229	96.4	80 - 120				
Silver	0.4691	0.0500	0.5	0.00022	93.8	80 - 120				
Thallium	0.4458	0.0200	0.5	0.00804	87.6	80 - 120				
Vanadium	0.4714	0.0500	0.5	0.01882	90.5	80 - 120				
Zinc	0.5532	0.0500	0.5	0.0293	105	80 - 120				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198850 (0) **Instrument:** ICPMS05 **Method:** EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A

MSD		Sample ID: HS23071844-01MSD			Units: mg/L		Analysis Date: 11-Aug-2023 17:11			
Client ID: PTS-01-SL-20230727		Run ID: ICPMS05_443762			SeqNo: 7488311		PrepDate: 11-Aug-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5077	0.0500	0.5	0.0167	98.2	80 - 120	0.503	0.934	20	
Arsenic	0.4901	0.0500	0.5	0.00528	97.0	80 - 120	0.4826	1.54	20	
Barium	0.5306	0.200	0.5	0.06449	93.2	80 - 120	0.535	0.841	20	
Beryllium	0.4507	0.0200	0.5	0.00023	90.1	80 - 120	0.448	0.601	20	
Cadmium	0.4765	0.0500	0.5	0.00045	95.2	80 - 120	0.4851	1.79	20	
Chromium	0.4672	0.0500	0.5	0.01496	90.5	80 - 120	0.4659	0.294	20	
Cobalt	0.4768	0.0500	0.5	0.00356	94.6	80 - 120	0.4696	1.52	20	
Copper	0.4843	0.0200	0.5	0.00401	96.1	80 - 120	0.4787	1.17	20	
Lead	0.4653	0.0500	0.5	0.00653	91.8	80 - 120	0.4643	0.209	20	
Nickel	0.477	0.0500	0.5	0.01734	91.9	80 - 120	0.4859	1.85	20	
Selenium	0.5374	0.0500	0.5	0.05229	97.0	80 - 120	0.534	0.636	20	
Silver	0.4651	0.0500	0.5	0.00022	93.0	80 - 120	0.4691	0.863	20	
Thallium	0.4547	0.0200	0.5	0.00804	89.3	80 - 120	0.4458	1.96	20	
Vanadium	0.4745	0.0500	0.5	0.01882	91.1	80 - 120	0.4714	0.662	20	
Zinc	0.6209	0.0500	0.5	0.0293	118	80 - 120	0.5532	11.5	20	

PDS		Sample ID: HS23071844-01PDS			Units: mg/L		Analysis Date: 11-Aug-2023 17:13			
Client ID: PTS-01-SL-20230727		Run ID: ICPMS05_443762			SeqNo: 7488312		PrepDate: 11-Aug-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	1.134	0.200	1	0.06449	107	75 - 125				
Beryllium	1.03	0.0200	1	0.00023	103	75 - 125				
Cadmium	1.087	0.0500	1	0.00045	109	75 - 125				
Lead	1.068	0.0500	1	0.00653	106	75 - 125				
Silver	0.9898	0.0500	1	0.00022	99.0	75 - 125				
Thallium	1.077	0.0200	1	0.00804	107	75 - 125				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198850 (0)		Instrument: ICPMS05		Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A						
SD	Sample ID: HS23071844-01SD	Units: mg/L			Analysis Date: 11-Aug-2023 17:07					
Client ID: PTS-01-SL-20230727	Run ID: ICPMS05_443762	SeqNo: 7488309	PrepDate: 11-Aug-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual	
Antimony	0.02832	0.250					0.0167	0 10	J	
Arsenic	U	0.250					0.00528	0 10		
Barium	U	1.00					0.06449	0 10		
Beryllium	U	0.100					0.00023	0 10		
Cadmium	U	0.250					0.00045	0 10		
Chromium	0.02035	0.250					0.01496	0 10	J	
Cobalt	U	0.250					0.00356	0 10		
Copper	U	0.100					0.00401	0 10		
Lead	U	0.250					0.00653	0 10		
Nickel	U	0.250					0.01734	0 10		
Selenium	0.06769	0.250					0.05229	0 10	J	
Silver	U	0.250					0.00022	0 10		
Thallium	U	0.100					0.00804	0 10		
Vanadium	0.06421	0.250					0.01882	0 10	J	
Zinc	U	0.250					0.0293	0 10		

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198851 (0) **Instrument:** ICPMS05 **Method:** EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A

MBLK	Sample ID:	MBLKT1-198517		Units:	mg/L						Analysis Date:	11-Aug-2023 16:30	
Client ID:	Run ID:	ICPMS05_443762		SeqNo:	7488297		PrepDate:	11-Aug-2023		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Antimony	U	0.0500											
Arsenic	U	0.0500											
Barium	U	0.200											
Beryllium	U	0.0200											
Cadmium	U	0.0500											
Chromium	0.00631	0.0500										J	
Cobalt	U	0.0500											
Copper	0.01867	0.0200										J	
Lead	0.00831	0.0500										J	
Nickel	U	0.0500											
Selenium	U	0.0500											
Silver	U	0.0500											
Thallium	U	0.0200											
Vanadium	U	0.0500											
Zinc	0.02297	0.0500										J	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198851 (0)	Instrument: ICPMS05	Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A								
MBLK	Sample ID: MBLK-198851	Units: mg/L	Analysis Date: 11-Aug-2023 16:28							
Client ID:	Run ID: ICPMS05_443762	SeqNo: 7488296	PrepDate: 11-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	0.000559	0.00500								J
Cobalt	U	0.00500								
Copper	U	0.00200								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Thallium	U	0.00200								
Vanadium	U	0.00500								
Zinc	U	0.00500								

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198851 (0)		Instrument: ICPMS05		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
LCS	Sample ID: LCS-198851	Units: mg/L			Analysis Date: 11-Aug-2023 16:32					
Client ID:	Run ID: ICPMS05_443762	SeqNo: 7488298		PrepDate: 11-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05074	0.00500	0.05	0	101	80 - 120				
Arsenic	0.05066	0.00500	0.05	0	101	80 - 120				
Barium	0.04848	0.0200	0.05	0	97.0	80 - 120				
Beryllium	0.04622	0.00200	0.05	0	92.4	80 - 120				
Cadmium	0.05031	0.00500	0.05	0	101	80 - 120				
Chromium	0.04891	0.00500	0.05	0	97.8	80 - 120				
Cobalt	0.04843	0.00500	0.05	0	96.9	80 - 120				
Copper	0.04933	0.00200	0.05	0	98.7	80 - 120				
Lead	0.0481	0.00500	0.05	0	96.2	80 - 120				
Nickel	0.04884	0.00500	0.05	0	97.7	80 - 120				
Selenium	0.05316	0.00500	0.05	0	106	80 - 120				
Silver	0.04838	0.00500	0.05	0	96.8	80 - 120				
Thallium	0.04569	0.00200	0.05	0	91.4	80 - 120				
Vanadium	0.0491	0.00500	0.05	0	98.2	80 - 120				
Zinc	0.05191	0.00500	0.05	0	104	80 - 120				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198851 (0)		Instrument: ICPMS05		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
MS		Sample ID: HS23071844-02MS		Units: mg/L		Analysis Date: 11-Aug-2023 16:40				
Client ID: DUP-01-SL-20230727		Run ID: ICPMS05_443762		SeqNo: 7488302		PrepDate: 11-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Antimony	0.5201	0.0500	0.5	0.02764	98.5	80 - 120				
Arsenic	0.5153	0.0500	0.5	0.01784	99.5	80 - 120				
Barium	0.5152	0.200	0.5	0.02881	97.3	80 - 120				
Beryllium	0.4586	0.0200	0.5	0.00005	91.7	80 - 120				
Cadmium	0.4842	0.0500	0.5	0.00031	96.8	80 - 120				
Chromium	0.4827	0.0500	0.5	0.01795	92.9	80 - 120				
Cobalt	0.4834	0.0500	0.5	0.00827	95.0	80 - 120				
Copper	0.4886	0.0200	0.5	0.01766	94.2	80 - 120				
Lead	0.4865	0.0500	0.5	0.00692	95.9	80 - 120				
Nickel	0.5073	0.0500	0.5	0.02841	95.8	80 - 120				
Selenium	0.6023	0.0500	0.5	0.09596	101	80 - 120				
Silver	0.4584	0.0500	0.5	0.00014	91.7	80 - 120				
Thallium	0.4595	0.0200	0.5	0.00052	91.8	80 - 120				
Vanadium	0.595	0.0500	0.5	0.1256	93.9	80 - 120				
Zinc	0.633	0.0500	0.5	0.1576	95.1	80 - 120				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198851 (0) **Instrument:** ICPMS05 **Method:** EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A

MSD		Sample ID: HS23071844-02MSD			Units: mg/L		Analysis Date: 11-Aug-2023 16:42			
Client ID: DUP-01-SL-20230727		Run ID: ICPMS05_443762			SeqNo: 7488303		PrepDate: 11-Aug-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5724	0.0500	0.5	0.02764	109	80 - 120	0.5201	9.59	20	
Arsenic	0.5552	0.0500	0.5	0.01784	107	80 - 120	0.5153	7.45	20	
Barium	0.5523	0.200	0.5	0.02881	105	80 - 120	0.5152	6.94	20	
Beryllium	0.493	0.0200	0.5	0.00005	98.6	80 - 120	0.4586	7.22	20	
Cadmium	0.5198	0.0500	0.5	0.00031	104	80 - 120	0.4842	7.09	20	
Chromium	0.5156	0.0500	0.5	0.01795	99.5	80 - 120	0.4827	6.59	20	
Cobalt	0.5182	0.0500	0.5	0.00827	102	80 - 120	0.4834	6.95	20	
Copper	0.5256	0.0200	0.5	0.01766	102	80 - 120	0.4886	7.31	20	
Lead	0.5212	0.0500	0.5	0.00692	103	80 - 120	0.4865	6.89	20	
Nickel	0.5355	0.0500	0.5	0.02841	101	80 - 120	0.5073	5.4	20	
Selenium	0.6655	0.0500	0.5	0.09596	114	80 - 120	0.6023	9.97	20	
Silver	0.4948	0.0500	0.5	0.00014	98.9	80 - 120	0.4584	7.64	20	
Thallium	0.5013	0.0200	0.5	0.00052	100	80 - 120	0.4595	8.71	20	
Vanadium	0.6482	0.0500	0.5	0.1256	105	80 - 120	0.595	8.55	20	
Zinc	0.7074	0.0500	0.5	0.1576	110	80 - 120	0.633	11.1	20	

PDS		Sample ID: HS23071844-02PDS			Units: mg/L		Analysis Date: 11-Aug-2023 16:44			
Client ID: DUP-01-SL-20230727		Run ID: ICPMS05_443762			SeqNo: 7488304		PrepDate: 11-Aug-2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	1.239	0.0500	1	0.02764	121	75 - 125				
Barium	1.222	0.200	1	0.02881	119	75 - 125				
Beryllium	1.129	0.0200	1	0.00005	113	75 - 125				
Cadmium	1.177	0.0500	1	0.00031	118	75 - 125				
Chromium	1.194	0.0500	1	0.01795	118	75 - 125				
Cobalt	1.216	0.0500	1	0.00827	121	75 - 125				
Copper	1.223	0.0200	1	0.01766	121	75 - 125				
Lead	1.179	0.0500	1	0.00692	117	75 - 125				
Nickel	1.235	0.0500	1	0.02841	121	75 - 125				
Silver	1.068	0.0500	1	0.00014	107	75 - 125				
Thallium	1.186	0.0200	1	0.00052	119	75 - 125				
Vanadium	1.331	0.0500	1	0.1256	121	75 - 125				
Zinc	1.401	0.0500	1	0.1576	124	75 - 125				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198851 (0)		Instrument: ICPMS05		Method: EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A						
SD	Sample ID: HS23071844-02SD	Units: mg/L		Analysis Date: 11-Aug-2023 16:38						
Client ID: DUP-01-SL-20230727	Run ID: ICPMS05_443762	SeqNo: 7488301	PrepDate: 11-Aug-2023	DF: 5						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual
Antimony	0.02985	0.250					0.02764	0	10	J
Arsenic	U	0.250					0.01784	0	10	
Barium	U	1.00					0.02881	0	10	
Beryllium	U	0.100					0.00005	0	10	
Cadmium	U	0.250					0.00031	0	10	
Chromium	0.0458	0.250					0.01795	0	10	J
Cobalt	U	0.250					0.00827	0	10	
Copper	U	0.100					0.01766	0	10	
Lead	U	0.250					0.00692	0	10	
Nickel	0.03175	0.250					0.02841	0	10	J
Selenium	0.1092	0.250					0.09596	0	10	J
Silver	U	0.250					0.00014	0	10	
Thallium	U	0.100					0.00052	0	10	
Vanadium	0.126	0.250					0.1256	0	10	J
Zinc	0.1571	0.250					0.1576	0	10	J

The following samples were analyzed in this batch:

HS23071844-01	HS23071844-02
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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 199633 (0)	Instrument: ICPMS06	Method: TCLP METALS BY SW6020A
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MBLK	Sample ID: MBLKT1-198410	Units: mg/L	Analysis Date: 30-Aug-2023 13:31							
Client ID:	Run ID: ICPMS06_445164	SeqNo: 7517901	PrepDate: 29-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin U 0.0500

MBLK	Sample ID: MBLK-199633	Units: mg/L	Analysis Date: 30-Aug-2023 13:29							
Client ID:	Run ID: ICPMS06_445164	SeqNo: 7517900	PrepDate: 29-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin U 0.00500

LCS	Sample ID: LCS-199633	Units: mg/L	Analysis Date: 30-Aug-2023 13:33							
Client ID:	Run ID: ICPMS06_445164	SeqNo: 7517902	PrepDate: 29-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin 0.0983 0.00500 0.1 0 98.3 80 - 120

MS	Sample ID: HS23071844-01MS	Units: mg/L	Analysis Date: 30-Aug-2023 13:38							
Client ID: PTS-01-SL-20230727	Run ID: ICPMS06_445164	SeqNo: 7517905	PrepDate: 29-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin 1.001 0.0500 1 0.00406 99.7 80 - 120

MSD	Sample ID: HS23071844-01MSD	Units: mg/L	Analysis Date: 30-Aug-2023 13:40							
Client ID: PTS-01-SL-20230727	Run ID: ICPMS06_445164	SeqNo: 7517906	PrepDate: 29-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin 1.02 0.0500 1 0.00406 102 80 - 120 1.001 1.87 20

PDS	Sample ID: HS23071844-01PDS	Units: mg/L	Analysis Date: 30-Aug-2023 13:42							
Client ID: PTS-01-SL-20230727	Run ID: ICPMS06_445164	SeqNo: 7517907	PrepDate: 29-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin 1.045 0.0500 1 0.00406 104 75 - 125

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 199633 (0) **Instrument:** ICPMS06 **Method:** TCLP METALS BY SW6020A

SD Sample ID: **HS23071844-01SD** Units: **mg/L** Analysis Date: **30-Aug-2023 13:36**
 Client ID: **PTS-01-SL-20230727** Run ID: **ICPMS06_445164** SeqNo: **7517904** PrepDate: **29-Aug-2023** DF: **5**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %D %D Limit Qual

Tin U 0.250 0.00406 0 10

The following samples were analyzed in this batch:

HS23071844-01	HS23071844-02
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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 199733 (0)	Instrument: ICPMS07	Method: EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A
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MBLK	Sample ID: MBLKT1-199703	Units: mg/L	Analysis Date: 31-Aug-2023 16:41							
Client ID:	Run ID: ICPMS07_445259	SeqNo: 7521860	PrepDate: 31-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin U 0.0500

MBLK	Sample ID: MBLK-199733	Units: mg/L	Analysis Date: 31-Aug-2023 16:39							
Client ID:	Run ID: ICPMS07_445259	SeqNo: 7521859	PrepDate: 31-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin U 0.00500

LCS	Sample ID: LCS-199733	Units: mg/L	Analysis Date: 31-Aug-2023 16:44							
Client ID:	Run ID: ICPMS07_445259	SeqNo: 7521861	PrepDate: 31-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin 0.1067 0.00500 0.1 0 107 80 - 120

MS	Sample ID: HS23071844-01MS	Units: mg/L	Analysis Date: 31-Aug-2023 16:51							
Client ID: PTS-01-SL-20230727	Run ID: ICPMS07_445259	SeqNo: 7521864	PrepDate: 31-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin 1.06 0.0500 1 0 106 80 - 120

MSD	Sample ID: HS23071844-01MSD	Units: mg/L	Analysis Date: 31-Aug-2023 16:53							
Client ID: PTS-01-SL-20230727	Run ID: ICPMS07_445259	SeqNo: 7521865	PrepDate: 31-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin 1.084 0.0500 1 0 108 80 - 120 1.06 2.19 20

PDS	Sample ID: HS23071844-01PDS	Units: mg/L	Analysis Date: 31-Aug-2023 16:56							
Client ID: PTS-01-SL-20230727	Run ID: ICPMS07_445259	SeqNo: 7521866	PrepDate: 31-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Tin 1.199 0.0500 1 0.00816 119 75 - 125

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 199733 (0) **Instrument:** ICPMS07 **Method:** EPA REGION 6 MODIFY TCLP PH 7 METALS BY SW6020A

SD Sample ID: **HS23071844-01SD** Units: **mg/L** Analysis Date: **31-Aug-2023 16:49**
Client ID: **PTS-01-SL-20230727** **Run ID:** **ICPMS07_445259** **SeqNo:** **7521863** **PrepDate:** **31-Aug-2023** **DF:** **5**
Analyte **Result** **PQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%D** **%D Limit Qual**

Tin U 0.250 0.00816 0 10

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 199734 (0) **Instrument:** ICPMS06 **Method:** EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A

MBLK Sample ID: **MBLKT1-199700** Units: **mg/L** Analysis Date: **31-Aug-2023 16:47**
 Client ID: Run ID: **ICPMS06_445262** SeqNo: **7521835** PrepDate: **31-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Tin U 0.0500

MBLK Sample ID: **MBLK-199734** Units: **mg/L** Analysis Date: **31-Aug-2023 16:45**
 Client ID: Run ID: **ICPMS06_445262** SeqNo: **7521834** PrepDate: **31-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Tin U 0.00500

LCS Sample ID: **LCS-199734** Units: **mg/L** Analysis Date: **31-Aug-2023 16:49**
 Client ID: Run ID: **ICPMS06_445262** SeqNo: **7521836** PrepDate: **31-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Tin 0.09382 0.00500 0.1 0 93.8 80 - 120

MS Sample ID: **HS23071844-02MS** Units: **mg/L** Analysis Date: **31-Aug-2023 16:57**
 Client ID: **DUP-01-SL-20230727** Run ID: **ICPMS06_445262** SeqNo: **7521840** PrepDate: **31-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Tin 1.015 0.0500 1 0 101 80 - 120

MSD Sample ID: **HS23071844-02MSD** Units: **mg/L** Analysis Date: **31-Aug-2023 16:59**
 Client ID: **DUP-01-SL-20230727** Run ID: **ICPMS06_445262** SeqNo: **7521841** PrepDate: **31-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Tin 1.011 0.0500 1 0 101 80 - 120 1.015 0.369 20

PDS Sample ID: **HS23071844-02PDS** Units: **mg/L** Analysis Date: **31-Aug-2023 17:01**
 Client ID: **DUP-01-SL-20230727** Run ID: **ICPMS06_445262** SeqNo: **7521842** PrepDate: **31-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Tin 1.048 0.0500 1 0.00153 105 75 - 125

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 199734 (0) **Instrument:** ICPMS06 **Method:** EPA REIGON MODIFY TCLP PH 10 METALS BY SW6020A

SD Sample ID: **HS23071844-02SD** Units: **mg/L** Analysis Date: **31-Aug-2023 16:55**
Client ID: **DUP-01-SL-20230727** **Run ID:** **ICPMS06_445262** **SeqNo:** **7521839** **PrepDate:** **31-Aug-2023** **DF:** **5**
Analyte **Result** **PQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%D** **Limit Qual**

Tin U 0.250 0 0 10

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES					
MBLK	Sample ID: MBLK-198417	Units: mg/L			Analysis Date: 04-Aug-2023 13:37				
Client ID:	Run ID: SV-4_443242	SeqNo: 7475834		PrepDate: 02-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2,4,5-Tetrachlorobenzene	U	0.0050							
1,2,4-Trichlorobenzene	U	0.0050							
1,3-Dinitrobenzene	U	0.0050							
1,4-Dioxane	U	0.0050							
1,4-Naphthoquinone	U	0.0050							
1-Naphthylamine	U	0.0050							
2,3,4,6-Tetrachlorophenol	U	0.0050							
2,4,5-Trichlorophenol	U	0.0050							
2,4,6-Trichlorophenol	U	0.0050							
2,4-Dichlorophenol	U	0.0050							
2,4-Dimethylphenol	U	0.0050							
2,4-Dinitrophenol	U	0.0050							
2,4-Dinitrotoluene	U	0.0050							
2,6-Dichlorophenol	U	0.0050							
2,6-Dinitrotoluene	U	0.0050							
2-Acetylaminofluorene	U	0.0050							
2-Chloronaphthalene	U	0.0050							
2-Chlorophenol	U	0.0050							
2-Methylnaphthalene	U	0.0050							
2-Methylphenol	U	0.0050							
2-Naphthylamine	U	0.0050							
2-Nitroaniline	U	0.0050							
2-Nitrophenol	U	0.0050							
2-Picoline	U	0.0050							
3&4-Methylphenol	U	0.0050							
3,3'-Dichlorobenzidine	U	0.0050							
3,3'-Dimethylbenzidine	U	0.0050							
3-Methylcholanthrene	U	0.0050							
3-Nitroaniline	U	0.0050							
4,6-Dinitro-2-methylphenol	U	0.0050							
4-Aminobiphenyl	U	0.0050							
4-Chloroaniline	U	0.0050							
4-Chlorophenyl phenyl ether	U	0.0050							
4-Nitroaniline	U	0.0050							

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES					
MBLK	Sample ID: MBLK-198417	Units: mg/L			Analysis Date: 04-Aug-2023 13:37				
Client ID:	Run ID: SV-4_443242	SeqNo: 7475834		PrepDate: 02-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

4-Nitrophenol	U	0.0050							
4-Nitroquinoline-1-oxide	U	0.0050							
5-Nitro-o-toluidine	U	0.0050							
7,12-Dimethylbenz(a)anthracene	U	0.0050							
a,a-Dimethylphenethylamine	U	0.0050							
Acenaphthene	U	0.0050							
Acenaphthylene	U	0.0050							
Acetophenone	U	0.0050							
Aniline	U	0.0050							
Anthracene	U	0.0050							
Aramite	U	0.0050							
Benz(a)anthracene	U	0.0050							
Benzo(a)pyrene	U	0.0050							
Benzo(b)fluoranthene	U	0.0050							
Benzo(g,h,i)perylene	U	0.0050							
Benzo(k)fluoranthene	U	0.0050							
Benzyl alcohol	U	0.0050							
Bis(2-chloroethoxy)methane	U	0.0050							
Bis(2-chloroethyl)ether	U	0.0050							
Bis(2-chloroisopropyl)ether	U	0.0050							
Bis(2-ethylhexyl)phthalate	U	0.0050							
Butyl benzyl phthalate	U	0.0050							
Chlorobenzilate	U	0.0050							
Chrysene	U	0.0050							
Diallate	U	0.0050							
Dibenz(a,h)anthracene	U	0.0050							
Dibenzofuran	U	0.0050							
Diethyl phthalate	U	0.0050							
Dimethoate	U	0.0050							
Dimethyl phthalate	U	0.0050							
Di-n-butyl phthalate	U	0.0050							
Di-n-octyl phthalate	U	0.0050							
Dinoseb	U	0.0050							
Diphenylamine	U	0.0050							

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0) **Instrument:** SV-4 **Method:** TCLP SEMIVOLATILES

MBLK Sample ID: **MBLK-198417** Units: **mg/L** Analysis Date: **04-Aug-2023 13:37**
 Client ID: Run ID: **SV-4_443242** SeqNo: **7475834** PrepDate: **02-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Disulfoton	U	0.0050								
Ethyl methanesulfonate	U	0.0050								
Ethyl parathion	U	0.0050								
Famphur	U	0.0050								
Fluoranthene	U	0.0050								
Fluorene	U	0.0050								
Hexachlorobenzene	U	0.0050								
Hexachlorobutadiene	U	0.0050								
Hexachlorocyclopentadiene	U	0.0050								
Hexachloroethane	U	0.0050								
Hexachlorophene	U	0.025								
Hexachloropropene	U	0.0050								
Indeno(1,2,3-cd)pyrene	U	0.0050								
Isodrin	U	0.0050								
Isophorone	U	0.0050								
Isosafrole	U	0.0050								
Kepone	U	0.0050								
Methapyrilene	U	0.0050								
Methyl methanesulfonate	U	0.0050								
Methyl parathion	U	0.0050								
Naphthalene	U	0.0050								
Nitrobenzene	U	0.0050								
N-Nitrosodiethylamine	U	0.0050								
N-Nitrosodimethylamine	U	0.0050								
N-Nitroso-di-n-butylamine	U	0.0050								
N-Nitrosodiphenylamine	U	0.0050								
N-Nitrosomethylethylamine	U	0.0050								
N-Nitrosomorpholine	U	0.0050								
N-Nitrosopiperidine	U	0.0050								
N-Nitrosopyrrolidine	U	0.0050								
o-Toluidine	U	0.0050								
p-Dimethylaminoazobenzene	U	0.0050								
Pentachlorobenzene	U	0.0050								
Pentachloroethane	U	0.0050								

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)	Instrument: SV-4	Method: TCLP SEMIVOLATILES
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MBLK	Sample ID: MBLK-198417	Units: mg/L			Analysis Date: 04-Aug-2023 13:37					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475834	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Pentachloronitrobenzene	U	0.0050								
Pentachlorophenol	U	0.0050								
Phenacetin	U	0.0050								
Phenanthrene	U	0.0050								
Phenol	U	0.0050								
Phorate	U	0.0050								
p-Phenylenediamine	U	0.0050								
Pronamide	U	0.0050								
Pyrene	U	0.0050								
Pyridine	U	0.0050								
Safrole	U	0.0050								
Tetraethyldithiopyrophosphate	U	0.0050								
Thionazin	U	0.0050								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.064</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>64.1</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.069</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>69.5</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.061</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>61.4</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.068</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>67.7</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.072</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>71.9</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.068</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>68.0</i>	<i>11 - 110</i>				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-198417	Units: mg/L			Analysis Date: 04-Aug-2023 13:59					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475835	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	0.033	0.0050	0.05	0	66.3	55 - 120				
1,2,4-Trichlorobenzene	0.036	0.0050	0.05	0	72.8	55 - 120				
1,3-Dinitrobenzene	0.040	0.0050	0.05	0	79.6	55 - 120				
1,4-Dioxane	0.021	0.0050	0.05	0	42.9	15 - 120				
1,4-Naphthoquinone	0.029	0.0050	0.05	0	57.5	55 - 120				
1-Naphthylamine	0.016	0.0050	0.05	0	31.1	10 - 80				
2,3,4,6-Tetrachlorophenol	0.074	0.0050	0.1	0	74.4	55 - 120				
2,4,5-Trichlorophenol	0.073	0.0050	0.1	0	73.1	55 - 120				
2,4,6-Trichlorophenol	0.077	0.0050	0.1	0	77.0	55 - 120				
2,4-Dichlorophenol	0.076	0.0050	0.1	0	76.3	55 - 120				
2,4-Dimethylphenol	0.073	0.0050	0.1	0	73.3	55 - 125				
2,4-Dinitrophenol	0.078	0.0050	0.1	0	78.4	40 - 125				
2,4-Dinitrotoluene	0.041	0.0050	0.05	0	81.1	55 - 125				
2,6-Dichlorophenol	0.066	0.0050	0.1	0	66.3	55 - 120				
2,6-Dinitrotoluene	0.040	0.0050	0.05	0	79.5	55 - 120				
2-Acetylaminofluorene	0.034	0.0050	0.05	0	68.7	40 - 130				
2-Chloronaphthalene	0.041	0.0050	0.05	0	82.8	55 - 145				
2-Chlorophenol	0.082	0.0050	0.1	0	82.4	55 - 120				
2-Methylnaphthalene	0.038	0.0050	0.05	0	75.4	55 - 120				
2-Methylphenol	0.088	0.0050	0.1	0	87.8	55 - 120				
2-Naphthylamine	0.022	0.0050	0.05	0	44.8	40 - 130				
2-Nitroaniline	0.039	0.0050	0.05	0	77.9	55 - 130				
2-Nitrophenol	0.076	0.0050	0.1	0	75.5	55 - 120				
2-Picoline	0.025	0.0050	0.05	0	49.9	40 - 130				
3&4-Methylphenol	0.099	0.0050	0.15	0	66.2	55 - 120				
3,3'-Dichlorobenzidine	0.037	0.0050	0.05	0	73.6	32 - 125				
3,3'-Dimethylbenzidine	0.023	0.0050	0.05	0	46.2	20 - 120				
3-Methylcholanthrene	0.038	0.0050	0.05	0	75.4	55 - 125				
3-Nitroaniline	0.036	0.0050	0.05	0	71.9	43 - 120				
4,6-Dinitro-2-methylphenol	0.086	0.0050	0.1	0	86.0	50 - 130				
4-Aminobiphenyl	0.015	0.0050	0.05	0	30.3	20 - 120				
4-Chloroaniline	0.029	0.0050	0.05	0	57.2	30 - 120				
4-Chlorophenyl phenyl ether	0.037	0.0050	0.05	0	74.8	55 - 120				
4-Nitroaniline	0.039	0.0050	0.05	0	78.4	55 - 120				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-198417	Units: mg/L			Analysis Date: 04-Aug-2023 13:59					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475835		PrepDate: 02-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
4-Nitrophenol	0.093	0.0050	0.1	0	93.3	50 - 130				
4-Nitroquinoline-1-oxide	0.026	0.0050	0.05	0	51.8	50 - 150				
5-Nitro-o-toluidine	0.030	0.0050	0.05	0	60.9	40 - 130				
7,12-Dimethylbenz(a)anthracene	0.046	0.0050	0.05	0	93.0	55 - 120				
a,a-Dimethylphenethylamine	0.039	0.0050	0.05	0	78.1	40 - 130				
Acenaphthene	0.039	0.0050	0.05	0	77.5	55 - 120				
Acenaphthylene	0.040	0.0050	0.05	0	81.0	55 - 120				
Acetophenone	0.040	0.0050	0.05	0	79.5	54 - 120				
Aniline	0.038	0.0050	0.05	0	76.2	25 - 120				
Anthracene	0.042	0.0050	0.05	0	83.7	55 - 120				
Aramite	0.033	0.0050	0.05	0	65.7	55 - 142				
Benz(a)anthracene	0.041	0.0050	0.05	0	81.9	55 - 125				
Benzo(a)pyrene	0.042	0.0050	0.05	0	83.3	55 - 120				
Benzo(b)fluoranthene	0.040	0.0050	0.05	0	79.7	55 - 125				
Benzo(g,h,i)perylene	0.040	0.0050	0.05	0	79.6	55 - 120				
Benzo(k)fluoranthene	0.040	0.0050	0.05	0	80.5	55 - 130				
Benzyl alcohol	0.044	0.0050	0.05	0	87.8	55 - 120				
Bis(2-chloroethoxy)methane	0.049	0.0050	0.05	0	97.3	55 - 120				
Bis(2-chloroethyl)ether	0.039	0.0050	0.05	0	77.5	55 - 120				
Bis(2-chloroisopropyl)ether	0.040	0.0050	0.05	0	80.4	55 - 120				
Bis(2-ethylhexyl)phthalate	0.041	0.0050	0.05	0	82.9	55 - 125				
Butyl benzyl phthalate	0.041	0.0050	0.05	0	81.3	55 - 125				
Chlorobenzilate	0.040	0.0050	0.05	0	79.7	55 - 130				
Chrysene	0.041	0.0050	0.05	0	81.9	55 - 125				
Diallate	0.034	0.0050	0.05	0	68.0	50 - 140				
Dibenz(a,h)anthracene	0.042	0.0050	0.05	0	83.6	55 - 120				
Dibenzofuran	0.040	0.0050	0.05	0	79.0	55 - 120				
Diethyl phthalate	0.041	0.0050	0.05	0	81.1	55 - 120				
Dimethoate	0.024	0.0050	0.05	0	48.1	40 - 130				
Dimethyl phthalate	0.040	0.0050	0.05	0	79.3	55 - 120				
Di-n-butyl phthalate	0.042	0.0050	0.05	0	83.9	55 - 125				
Di-n-octyl phthalate	0.043	0.0050	0.05	0	86.2	55 - 130				
Dinoseb	0.040	0.0050	0.05	0	79.6	40 - 130				
Diphenylamine	0.042	0.0050	0.05	0	83.5	55 - 120				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-198417	Units: mg/L			Analysis Date: 04-Aug-2023 13:59					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475835		PrepDate: 02-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Disulfoton	0.036	0.0050	0.05	0	71.8	40 - 130				
Ethyl methanesulfonate	0.036	0.0050	0.05	0	72.5	55 - 120				
Ethyl parathion	0.034	0.0050	0.05	0	68.1	40 - 130				
Famphur	0.0057	0.0050	0.05	0	11.5	40 - 130			S	
Fluoranthene	0.041	0.0050	0.05	0	82.4	55 - 125				
Fluorene	0.038	0.0050	0.05	0	76.2	55 - 120				
Hexachlorobenzene	0.043	0.0050	0.05	0	85.0	55 - 120				
Hexachlorobutadiene	0.035	0.0050	0.05	0	69.2	55 - 120				
Hexachlorocyclopentadiene	0.028	0.0050	0.05	0	56.0	50 - 120				
Hexachloroethane	0.035	0.0050	0.05	0	70.8	55 - 120				
Hexachlorophene	0.13	0.025	0.25	0	51.0	20 - 125				
Hexachloropropene	0.032	0.0050	0.05	0	63.2	55 - 120				
Indeno(1,2,3-cd)pyrene	0.041	0.0050	0.05	0	82.5	55 - 125				
Isodrin	0.032	0.0050	0.05	0	63.6	55 - 120				
Isophorone	0.038	0.0050	0.05	0	76.5	55 - 120				
Isosafrole	0.034	0.0050	0.05	0	67.1	45 - 140				
Kepone	0.026	0.0050	0.05	0	51.5	15 - 110				
Methapyrilene	0.029	0.0050	0.05	0	58.9	40 - 130				
Methyl methanesulfonate	0.033	0.0050	0.05	0	66.6	55 - 120				
Methyl parathion	0.026	0.0050	0.05	0	52.9	40 - 130				
Naphthalene	0.037	0.0050	0.05	0	74.9	55 - 120				
Nitrobenzene	0.038	0.0050	0.05	0	75.6	55 - 120				
N-Nitrosodiethylamine	0.031	0.0050	0.05	0	61.3	50 - 130				
N-Nitrosodimethylamine	0.036	0.0050	0.05	0	71.3	45 - 120				
N-Nitroso-di-n-butylamine	0.032	0.0050	0.05	0	64.2	40 - 130				
N-Nitrosodiphenylamine	0.042	0.0050	0.05	0	83.5	55 - 120				
N-Nitrosomethylethylamine	0.029	0.0050	0.05	0	58.2	40 - 130				
N-Nitrosomorpholine	0.041	0.0050	0.05	0	81.8	40 - 130				
N-Nitrosopiperidine	0.030	0.0050	0.05	0	59.3	40 - 130				
N-Nitrosopyrrolidine	0.034	0.0050	0.05	0	67.7	40 - 130				
o-Toluidine	0.030	0.0050	0.05	0	60.0	30 - 120				
p-Dimethylaminoazobenzene	0.032	0.0050	0.05	0	64.7	40 - 130				
Pentachlorobenzene	0.036	0.0050	0.05	0	73.0	55 - 120				
Pentachloroethane	0.030	0.0050	0.05	0	59.5	40 - 140				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCS	Sample ID: LCS-198417	Units: mg/L			Analysis Date: 04-Aug-2023 13:59					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475835		PrepDate: 02-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Pentachloronitrobenzene	0.040	0.0050	0.05	0	79.0	55 - 140				
Pentachlorophenol	0.080	0.0050	0.1	0	79.6	50 - 135				
Phenacetin	0.036	0.0050	0.05	0	72.2	55 - 125				
Phenanthrene	0.037	0.0050	0.05	0	74.1	55 - 120				
Phenol	0.084	0.0050	0.1	0	84.0	50 - 120				
Phorate	0.031	0.0050	0.05	0	62.5	40 - 130				
p-Phenylenediamine	0.013	0.0050	0.05	0	25.0	10 - 61				
Pronamide	0.032	0.0050	0.05	0	64.6	55 - 125				
Pyrene	0.042	0.0050	0.05	0	83.6	55 - 125				
Pyridine	0.027	0.0050	0.05	0	54.6	30 - 120				
Safrole	0.034	0.0050	0.05	0	67.4	55 - 120				
Tetraethyldithiopyrophosphate	0.034	0.0050	0.05	0	68.0	40 - 130				
Thionazin	0.034	0.0050	0.05	0	67.1	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.074</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>73.9</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.070</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>70.1</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.072</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>71.5</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.074</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>73.8</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.073</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>73.4</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.083</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>82.5</i>	<i>11 - 110</i>				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCSD	Sample ID: LCSD-198417	Units: mg/L			Analysis Date: 04-Aug-2023 14:20					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475836	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	0.034	0.0050	0.05	0	67.1	55 - 120	0.03315	1.22	30	
1,2,4-Trichlorobenzene	0.037	0.0050	0.05	0	73.2	55 - 120	0.03641	0.551	30	
1,3-Dinitrobenzene	0.040	0.0050	0.05	0	80.5	55 - 120	0.03980	1.15	30	
1,4-Dioxane	0.028	0.0050	0.05	0	55.0	15 - 120	0.02145	24.8	30	
1,4-Naphthoquinone	0.031	0.0050	0.05	0	62.7	55 - 120	0.02876	8.7	30	
1-Naphthylamine	0.015	0.0050	0.05	0	30.8	10 - 80	0.01556	0.894	30	
2,3,4,6-Tetrachlorophenol	0.075	0.0050	0.1	0	74.8	55 - 120	0.07445	0.465	30	
2,4,5-Trichlorophenol	0.074	0.0050	0.1	0	74.4	55 - 120	0.07311	1.69	30	
2,4,6-Trichlorophenol	0.076	0.0050	0.1	0	76.5	55 - 120	0.07701	0.669	30	
2,4-Dichlorophenol	0.074	0.0050	0.1	0	74.3	55 - 120	0.07633	2.69	30	
2,4-Dimethylphenol	0.071	0.0050	0.1	0	71.5	55 - 125	0.07326	2.47	30	
2,4-Dinitrophenol	0.081	0.0050	0.1	0	80.5	40 - 125	0.07839	2.68	30	
2,4-Dinitrotoluene	0.041	0.0050	0.05	0	82.0	55 - 125	0.04053	1.11	30	
2,6-Dichlorophenol	0.064	0.0050	0.1	0	64.3	55 - 120	0.06630	3.12	30	
2,6-Dinitrotoluene	0.040	0.0050	0.05	0	79.7	55 - 120	0.03977	0.165	30	
2-Acetylaminofluorene	0.035	0.0050	0.05	0	69.2	40 - 130	0.03437	0.661	30	
2-Chloronaphthalene	0.044	0.0050	0.05	0	88.0	55 - 145	0.04138	6.11	30	
2-Chlorophenol	0.076	0.0050	0.1	0	75.6	55 - 120	0.08244	8.66	30	
2-Methylnaphthalene	0.037	0.0050	0.05	0	74.0	55 - 120	0.03771	1.9	30	
2-Methylphenol	0.077	0.0050	0.1	0	77.2	55 - 120	0.08784	12.9	30	
2-Naphthylamine	0.019	0.0050	0.05	0	38.9	40 - 130	0.02241	14.1	30	S
2-Nitroaniline	0.040	0.0050	0.05	0	80.8	55 - 130	0.03895	3.65	30	
2-Nitrophenol	0.075	0.0050	0.1	0	74.7	55 - 120	0.07551	1.04	30	
2-Picoline	0.027	0.0050	0.05	0	54.0	40 - 130	0.02494	7.92	30	
3&4-Methylphenol	0.095	0.0050	0.15	0	63.5	55 - 120	0.09930	4.12	30	
3,3'-Dichlorobenzidine	0.037	0.0050	0.05	0	74.4	32 - 125	0.03680	1.12	30	
3,3'-Dimethylbenzidine	0.023	0.0050	0.05	0	45.9	20 - 120	0.02310	0.754	30	
3-Methylcholanthrene	0.038	0.0050	0.05	0	75.7	55 - 125	0.03769	0.401	30	
3-Nitroaniline	0.037	0.0050	0.05	0	73.2	43 - 120	0.03596	1.72	30	
4,6-Dinitro-2-methylphenol	0.085	0.0050	0.1	0	85.5	50 - 130	0.08598	0.576	30	
4-Aminobiphenyl	0.016	0.0050	0.05	0	33.0	20 - 120	0.01514	8.56	30	
4-Chloroaniline	0.030	0.0050	0.05	0	59.7	30 - 120	0.02858	4.32	30	
4-Chlorophenyl phenyl ether	0.038	0.0050	0.05	0	76.5	55 - 120	0.03742	2.14	30	
4-Nitroaniline	0.041	0.0050	0.05	0	82.3	55 - 120	0.03920	4.85	30	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCSD		Sample ID: LCSD-198417		Units: mg/L		Analysis Date: 04-Aug-2023 14:20				
Client ID:		Run ID: SV-4_443242		SeqNo: 7475836		PrepDate: 02-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4-Nitrophenol	0.093	0.0050	0.1	0	93.1	50 - 130	0.09327	0.132	30	
4-Nitroquinoline-1-oxide	0.027	0.0050	0.05	0	54.8	50 - 150	0.02592	5.48	30	
5-Nitro-o-toluidine	0.031	0.0050	0.05	0	61.5	40 - 130	0.03045	0.984	30	
7,12-Dimethylbenz(a)anthracene	0.046	0.0050	0.05	0	92.0	55 - 120	0.04649	1.09	30	
a,a-Dimethylphenethylamine	0.036	0.0050	0.05	0	72.8	40 - 130	0.03904	7.05	30	
Acenaphthene	0.039	0.0050	0.05	0	77.3	55 - 120	0.03875	0.228	30	
Acenaphthylene	0.041	0.0050	0.05	0	81.8	55 - 120	0.04050	0.963	30	
Acetophenone	0.040	0.0050	0.05	0	79.3	54 - 120	0.03977	0.351	30	
Aniline	0.033	0.0050	0.05	0	66.1	25 - 120	0.03808	14.1	30	
Anthracene	0.042	0.0050	0.05	0	83.6	55 - 120	0.04183	0.0447	30	
Aramite	0.033	0.0050	0.05	0	66.6	55 - 142	0.03284	1.34	30	
Benz(a)anthracene	0.041	0.0050	0.05	0	82.8	55 - 125	0.04093	1.18	30	
Benzo(a)pyrene	0.041	0.0050	0.05	0	82.9	55 - 120	0.04164	0.48	30	
Benzo(b)fluoranthene	0.041	0.0050	0.05	0	82.2	55 - 125	0.03986	3.07	30	
Benzo(g,h,i)perylene	0.041	0.0050	0.05	0	81.6	55 - 120	0.03981	2.41	30	
Benzo(k)fluoranthene	0.038	0.0050	0.05	0	76.1	55 - 130	0.04026	5.65	30	
Benzyl alcohol	0.039	0.0050	0.05	0	77.6	55 - 120	0.04391	12.4	30	
Bis(2-chloroethoxy)methane	0.047	0.0050	0.05	0	94.0	55 - 120	0.04864	3.38	30	
Bis(2-chloroethyl)ether	0.037	0.0050	0.05	0	74.5	55 - 120	0.03873	3.84	30	
Bis(2-chloroisopropyl)ether	0.037	0.0050	0.05	0	74.3	55 - 120	0.04022	7.95	30	
Bis(2-ethylhexyl)phthalate	0.040	0.0050	0.05	0	79.4	55 - 125	0.04146	4.38	30	
Butyl benzyl phthalate	0.040	0.0050	0.05	0	80.1	55 - 125	0.04065	1.52	30	
Chlorobenzilate	0.039	0.0050	0.05	0	77.6	55 - 130	0.03984	2.67	30	
Chrysene	0.041	0.0050	0.05	0	82.4	55 - 125	0.04094	0.602	30	
Diallate	0.032	0.0050	0.05	0	64.8	50 - 140	0.03400	4.77	30	
Dibenz(a,h)anthracene	0.041	0.0050	0.05	0	82.3	55 - 120	0.04182	1.68	30	
Dibenzofuran	0.039	0.0050	0.05	0	79.0	55 - 120	0.03951	0.0583	30	
Diethyl phthalate	0.040	0.0050	0.05	0	79.2	55 - 120	0.04055	2.38	30	
Dimethoate	0.030	0.0050	0.05	0	59.1	40 - 130	0.02405	20.6	30	
Dimethyl phthalate	0.039	0.0050	0.05	0	78.4	55 - 120	0.03967	1.14	30	
Di-n-butyl phthalate	0.041	0.0050	0.05	0	81.2	55 - 125	0.04195	3.27	30	
Di-n-octyl phthalate	0.041	0.0050	0.05	0	82.8	55 - 130	0.04312	4.05	30	
Dinoseb	0.049	0.0050	0.05	0	97.9	40 - 130	0.03982	20.5	30	
Diphenylamine	0.041	0.0050	0.05	0	81.8	55 - 120	0.04177	2.06	30	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCSD		Sample ID: LCSD-198417		Units: mg/L		Analysis Date: 04-Aug-2023 14:20				
Client ID:		Run ID: SV-4_443242		SeqNo: 7475836		PrepDate: 02-Aug-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Disulfoton	0.036	0.0050	0.05	0	72.0	40 - 130	0.03590	0.221	30	
Ethyl methanesulfonate	0.032	0.0050	0.05	0	65.0	55 - 120	0.03623	10.9	30	
Ethyl parathion	0.035	0.0050	0.05	0	69.6	40 - 130	0.03404	2.22	30	
Famphur	0.0052	0.0050	0.05	0	10.4	40 - 130	0.005738	9.68	30 S	
Fluoranthene	0.042	0.0050	0.05	0	83.1	55 - 125	0.04121	0.82	30	
Fluorene	0.039	0.0050	0.05	0	77.5	55 - 120	0.03811	1.68	30	
Hexachlorobenzene	0.041	0.0050	0.05	0	81.9	55 - 120	0.04252	3.77	30	
Hexachlorobutadiene	0.036	0.0050	0.05	0	71.9	55 - 120	0.03461	3.79	30	
Hexachlorocyclopentadiene	0.029	0.0050	0.05	0	58.9	50 - 120	0.02798	5.13	30	
Hexachloroethane	0.036	0.0050	0.05	0	71.5	55 - 120	0.03539	1.05	30	
Hexachlorophene	0.13	0.025	0.25	0	53.0	20 - 125	0.1275	3.82	30	
Hexachloropropene	0.033	0.0050	0.05	0	66.9	55 - 120	0.03160	5.73	30	
Indeno(1,2,3-cd)pyrene	0.041	0.0050	0.05	0	82.6	55 - 125	0.04124	0.117	30	
Isodrin	0.032	0.0050	0.05	0	64.0	55 - 120	0.03180	0.678	30	
Isophorone	0.037	0.0050	0.05	0	73.9	55 - 120	0.03825	3.49	30	
Isosafrole	0.033	0.0050	0.05	0	66.2	45 - 140	0.03354	1.28	30	
Kepone	0.034	0.0050	0.05	0	68.3	15 - 110	0.02576	28.1	30	
Methapyrilene	0.031	0.0050	0.05	0	61.6	40 - 130	0.02943	4.47	30	
Methyl methanesulfonate	0.032	0.0050	0.05	0	63.3	55 - 120	0.03331	5.16	30	
Methyl parathion	0.032	0.0050	0.05	0	64.2	40 - 130	0.02645	19.3	30	
Naphthalene	0.037	0.0050	0.05	0	74.8	55 - 120	0.03744	0.0782	30	
Nitrobenzene	0.038	0.0050	0.05	0	75.3	55 - 120	0.03780	0.411	30	
N-Nitrosodiethylamine	0.029	0.0050	0.05	0	58.1	50 - 130	0.03063	5.25	30	
N-Nitrosodimethylamine	0.039	0.0050	0.05	0	77.1	45 - 120	0.03567	7.75	30	
N-Nitroso-di-n-butylamine	0.031	0.0050	0.05	0	61.1	40 - 130	0.03208	4.87	30	
N-Nitrosodiphenylamine	0.041	0.0050	0.05	0	81.8	55 - 120	0.04177	2.06	30	
N-Nitrosomethylethylamine	0.029	0.0050	0.05	0	57.2	40 - 130	0.02912	1.77	30	
N-Nitrosomorpholine	0.036	0.0050	0.05	0	72.1	40 - 130	0.04092	12.7	30	
N-Nitrosopiperidine	0.029	0.0050	0.05	0	58.3	40 - 130	0.02963	1.56	30	
N-Nitrosopyrrolidine	0.030	0.0050	0.05	0	59.4	40 - 130	0.03387	13.1	30	
o-Toluidine	0.027	0.0050	0.05	0	53.8	30 - 120	0.03000	10.9	30	
p-Dimethylaminoazobenzene	0.033	0.0050	0.05	0	66.5	40 - 130	0.03234	2.8	30	
Pentachlorobenzene	0.036	0.0050	0.05	0	72.2	55 - 120	0.03649	1.01	30	
Pentachloroethane	0.030	0.0050	0.05	0	61.0	40 - 140	0.02975	2.45	20	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
LCSD	Sample ID: LCSD-198417	Units: mg/L			Analysis Date: 04-Aug-2023 14:20					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475836		PrepDate: 02-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Pentachloronitrobenzene	0.039	0.0050	0.05	0	77.8	55 - 140	0.03950	1.47	30	
Pentachlorophenol	0.080	0.0050	0.1	0	79.8	50 - 135	0.07961	0.222	30	
Phenacetin	0.036	0.0050	0.05	0	71.8	55 - 125	0.03608	0.533	30	
Phenanthrene	0.038	0.0050	0.05	0	75.4	55 - 120	0.03703	1.83	30	
Phenol	0.075	0.0050	0.1	0	74.9	50 - 120	0.08397	11.4	30	
Phorate	0.030	0.0050	0.05	0	60.3	40 - 130	0.03125	3.53	30	
p-Phenylenediamine	0.013	0.0050	0.05	0	25.2	10 - 61	0.01251	0.486	30	
Pronamide	0.032	0.0050	0.05	0	64.6	55 - 125	0.03228	0.0118	30	
Pyrene	0.042	0.0050	0.05	0	84.1	55 - 125	0.04180	0.581	30	
Pyridine	0.032	0.0050	0.05	0	63.8	30 - 120	0.02731	15.4	30	
Safrole	0.033	0.0050	0.05	0	65.2	55 - 120	0.03369	3.29	30	
Tetraethyldithiopyrophosphate	0.033	0.0050	0.05	0	66.3	40 - 130	0.03401	2.64	30	
Thionazin	0.033	0.0050	0.05	0	66.5	40 - 130	0.03357	0.89	30	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.074</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>74.2</i>	<i>39 - 153</i>	<i>0.07393</i>	<i>0.364</i>	<i>30</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.071</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>70.7</i>	<i>40 - 147</i>	<i>0.07006</i>	<i>0.873</i>	<i>30</i>	
<i>Surr: 2-Fluorophenol</i>	<i>0.068</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>67.6</i>	<i>21 - 110</i>	<i>0.07151</i>	<i>5.6</i>	<i>30</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>0.072</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>71.7</i>	<i>39 - 141</i>	<i>0.07378</i>	<i>2.82</i>	<i>30</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>0.073</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>73.4</i>	<i>37 - 140</i>	<i>0.07337</i>	<i>0.0518</i>	<i>30</i>	
<i>Surr: Phenol-d6</i>	<i>0.074</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>74.0</i>	<i>11 - 110</i>	<i>0.08253</i>	<i>10.9</i>	<i>30</i>	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS	Sample ID: HS23071829-01MS	Units: mg/L			Analysis Date: 07-Aug-2023 18:16					
Client ID:	Run ID: SV-4_443490	SeqNo: 7513164	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	0.036	0.0050	0.05	0	71.0	55 - 120				
1,2,4-Trichlorobenzene	0.039	0.0050	0.05	0	77.3	55 - 120				
1,3-Dinitrobenzene	0.046	0.0050	0.05	0	91.6	55 - 120				
1,4-Dioxane	0.043	0.0050	0.05	0	86.8	15 - 120				
1,4-Naphthoquinone	0.032	0.0050	0.05	0	65.0	55 - 120				
1-Naphthylamine	0.029	0.0050	0.05	0	58.9	10 - 80				
2,3,4,6-Tetrachlorophenol	0.083	0.0050	0.1	0	83.2	55 - 120				
2,4,5-Trichlorophenol	0.091	0.0050	0.1	0	91.4	55 - 120				
2,4,6-Trichlorophenol	0.090	0.0050	0.1	0	90.3	55 - 120				
2,4-Dichlorophenol	0.083	0.0050	0.1	0	82.6	55 - 120				
2,4-Dimethylphenol	0.079	0.0050	0.1	0	79.2	55 - 125				
2,4-Dinitrophenol	0.096	0.0050	0.1	0	96.4	40 - 125				
2,4-Dinitrotoluene	0.048	0.0050	0.05	0	95.6	55 - 125				
2,6-Dichlorophenol	0.070	0.0050	0.1	0	70.0	55 - 120				
2,6-Dinitrotoluene	0.047	0.0050	0.05	0	94.7	55 - 120				
2-Acetylaminofluorene	0.046	0.0050	0.05	0	92.0	40 - 130				
2-Chloronaphthalene	0.053	0.0050	0.05	0	105	55 - 145				
2-Chlorophenol	0.082	0.0050	0.1	0	81.6	55 - 120				
2-Methylnaphthalene	0.049	0.0050	0.05	0	99.0	55 - 120				
2-Methylphenol	0.084	0.0050	0.1	0	84.3	55 - 120				
2-Naphthylamine	0.018	0.0050	0.05	0	35.3	40 - 130				S
2-Nitroaniline	0.046	0.0050	0.05	0	92.7	55 - 130				
2-Nitrophenol	0.083	0.0050	0.1	0	82.5	55 - 120				
2-Picoline	0.029	0.0050	0.05	0	57.1	40 - 130				
3&4-Methylphenol	0.086	0.0050	0.15	0	57.3	55 - 120				
3,3'-Dichlorobenzidine	0.044	0.0050	0.05	0	87.1	32 - 125				
3,3'-Dimethylbenzidine	0.021	0.0050	0.05	0	41.2	20 - 120				
3-Methylcholanthrene	0.044	0.0050	0.05	0	87.4	55 - 125				
3-Nitroaniline	0.043	0.0050	0.05	0	86.9	43 - 120				
4,6-Dinitro-2-methylphenol	0.11	0.0050	0.1	0	109	50 - 130				
4-Aminobiphenyl	0.024	0.0050	0.05	0	47.2	20 - 120				
4-Chloroaniline	0.031	0.0050	0.05	0	62.5	30 - 120				
4-Chlorophenyl phenyl ether	0.039	0.0050	0.05	0	78.4	55 - 120				
4-Nitroaniline	0.050	0.0050	0.05	0	99.7	55 - 120				

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ALS Houston, US

Date: 07-Nov-23

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Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS	Sample ID: HS23071829-01MS	Units: mg/L			Analysis Date: 07-Aug-2023 18:16					
Client ID:	Run ID: SV-4_443490	SeqNo: 7513164	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4-Nitrophenol	0.10	0.0050	0.1	0	103	50 - 130				
4-Nitroquinoline-1-oxide	0.025	0.0050	0.05	0	50.0	50 - 150				S
5-Nitro-o-toluidine	0.035	0.0050	0.05	0	69.4	40 - 130				
7,12-Dimethylbenz(a)anthracene	0.052	0.0050	0.05	0	104	55 - 120				
a,a-Dimethylphenethylamine	0.045	0.0050	0.05	0	89.8	40 - 130				
Acenaphthene	0.043	0.0050	0.05	0	85.8	55 - 120				
Acenaphthylene	0.045	0.0050	0.05	0	89.1	55 - 120				
Acetophenone	0.044	0.0050	0.05	0	88.6	54 - 120				
Aniline	0.013	0.0050	0.05	0	26.4	25 - 120				
Anthracene	0.051	0.0050	0.05	0	102	55 - 120				
Aramite	0.040	0.0050	0.05	0	79.8	55 - 142				
Benz(a)anthracene	0.054	0.0050	0.05	0	109	55 - 125				
Benzo(a)pyrene	0.050	0.0050	0.05	0	100	55 - 120				
Benzo(b)fluoranthene	0.062	0.0050	0.05	0	123	55 - 125				
Benzo(g,h,i)perylene	0.046	0.0050	0.05	0	91.3	55 - 120				
Benzo(k)fluoranthene	0.035	0.0050	0.05	0	69.2	55 - 130				
Benzyl alcohol	0.038	0.0050	0.05	0	76.8	55 - 120				
Bis(2-chloroethoxy)methane	0.055	0.0050	0.05	0	109	55 - 120				
Bis(2-chloroethyl)ether	0.052	0.0050	0.05	0	104	55 - 120				
Bis(2-chloroisopropyl)ether	0.040	0.0050	0.05	0	79.5	55 - 120				
Bis(2-ethylhexyl)phthalate	0.052	0.0050	0.05	0	104	55 - 125				
Butyl benzyl phthalate	0.053	0.0050	0.05	0	106	55 - 125				
Chlorobenzilate	0.048	0.0050	0.05	0	96.6	55 - 130				
Chrysene	0.043	0.0050	0.05	0	85.8	55 - 125				
Diallate	0.041	0.0050	0.05	0	82.9	50 - 140				
Dibenz(a,h)anthracene	0.048	0.0050	0.05	0	95.8	55 - 120				
Dibenzofuran	0.043	0.0050	0.05	0	87.0	55 - 120				
Diethyl phthalate	0.046	0.0050	0.05	0	91.7	55 - 120				
Dimethoate	0.030	0.0050	0.05	0	60.3	40 - 130				
Dimethyl phthalate	0.045	0.0050	0.05	0	90.0	55 - 120				
Di-n-butyl phthalate	0.051	0.0050	0.05	0	103	55 - 125				
Di-n-octyl phthalate	0.051	0.0050	0.05	0	101	55 - 130				
Dinoseb	0.053	0.0050	0.05	0	107	40 - 130				
Diphenylamine	0.052	0.0050	0.05	0.001016	101	55 - 120				

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS	Sample ID: HS23071829-01MS	Units: mg/L			Analysis Date: 07-Aug-2023 18:16					
Client ID:	Run ID: SV-4_443490	SeqNo: 7513164	PrepDate: 02-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Disulfoton	0.044	0.0050	0.05	0	87.7	40 - 130				
Ethyl methanesulfonate	0.035	0.0050	0.05	0	70.2	55 - 120				
Ethyl parathion	0.043	0.0050	0.05	0	86.7	40 - 130				
Famphur	0.026	0.0050	0.05	0	52.1	40 - 130				
Fluoranthene	0.051	0.0050	0.05	0	102	55 - 125				
Fluorene	0.042	0.0050	0.05	0	84.9	55 - 120				
Hexachlorobenzene	0.049	0.0050	0.05	0	98.6	55 - 120				
Hexachlorobutadiene	0.038	0.0050	0.05	0	75.3	55 - 120				
Hexachlorocyclopentadiene	0.019	0.0050	0.05	0	38.7	50 - 120				S
Hexachloroethane	0.036	0.0050	0.05	0	71.2	55 - 120				
Hexachlorophene	0.13	0.025	0.25	0	52.3	20 - 125				
Hexachloropropene	0.032	0.0050	0.05	0	63.3	55 - 120				
Indeno(1,2,3-cd)pyrene	0.047	0.0050	0.05	0	94.7	55 - 125				
Isodrin	0.036	0.0050	0.05	0	72.8	55 - 120				
Isophorone	0.041	0.0050	0.05	0	82.5	55 - 120				
Isosafrole	0.039	0.0050	0.05	0	78.6	45 - 140				
Kepone	0.028	0.0050	0.05	0	56.0	15 - 110				
Methapyrilene	0.041	0.0050	0.05	0	82.8	40 - 130				
Methyl methanesulfonate	0.033	0.0050	0.05	0	65.5	55 - 120				
Methyl parathion	0.038	0.0050	0.05	0	75.8	40 - 130				
Naphthalene	0.040	0.0050	0.05	0	80.6	55 - 120				
Nitrobenzene	0.043	0.0050	0.05	0	86.5	55 - 120				
N-Nitrosodiethylamine	0.031	0.0050	0.05	0	62.2	50 - 130				
N-Nitrosodimethylamine	0.042	0.0050	0.05	0	83.0	45 - 120				
N-Nitroso-di-n-butylamine	0.034	0.0050	0.05	0	68.0	40 - 130				
N-Nitrosodiphenylamine	0.052	0.0050	0.05	0.001016	101	55 - 120				
N-Nitrosomethylethylamine	0.031	0.0050	0.05	0	62.6	40 - 130				
N-Nitrosomorpholine	0.039	0.0050	0.05	0	77.5	40 - 130				
N-Nitrosopiperidine	0.032	0.0050	0.05	0	63.6	40 - 130				
N-Nitrosopyrrolidine	0.032	0.0050	0.05	0	64.1	40 - 130				
o-Toluidine	0.024	0.0050	0.05	0	47.8	30 - 120				
p-Dimethylaminoazobenzene	0.043	0.0050	0.05	0	85.6	40 - 130				
Pentachlorobenzene	0.039	0.0050	0.05	0	78.2	55 - 120				
Pentachloroethane	0.031	0.0050	0.05	0	62.8	40 - 140				

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ALS Houston, US

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198417 (0)		Instrument: SV-4		Method: TCLP SEMIVOLATILES						
MS	Sample ID: HS23071829-01MS	Units: mg/L			Analysis Date: 07-Aug-2023 18:16					
Client ID:	Run ID: SV-4_443490	SeqNo: 7513164		PrepDate: 02-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Pentachloronitrobenzene	0.050	0.0050	0.05	0	101	55 - 140				
Pentachlorophenol	0.11	0.0050	0.1	0	113	50 - 135				
Phenacetin	0.044	0.0050	0.05	0	88.7	55 - 125				
Phenanthrene	0.045	0.0050	0.05	0	90.1	55 - 120				
Phenol	0.082	0.0050	0.1	0	81.9	50 - 120				
Phorate	0.040	0.0050	0.05	0	79.8	40 - 130				
p-Phenylenediamine	0.0059	0.0050	0.05	0	11.8	10 - 61				
Pronamide	0.040	0.0050	0.05	0	80.9	55 - 125				
Pyrene	0.055	0.0050	0.05	0	110	55 - 125				
Pyridine	0.034	0.0050	0.05	0	67.8	30 - 120				
Safrole	0.034	0.0050	0.05	0	68.6	55 - 120				
Tetraethyldithiopyrophosphate	0.041	0.0050	0.05	0	81.8	40 - 130				
Thionazin	0.046	0.0050	0.05	0	92.2	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0.082</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>82.1</i>	<i>39 - 153</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>0.074</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>73.7</i>	<i>40 - 147</i>				
<i>Surr: 2-Fluorophenol</i>	<i>0.073</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>72.9</i>	<i>21 - 110</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>0.086</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>85.6</i>	<i>39 - 141</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>0.077</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>76.9</i>	<i>37 - 140</i>				
<i>Surr: Phenol-d6</i>	<i>0.082</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>81.6</i>	<i>11 - 110</i>				

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES					
MBLK	Sample ID: MBLK-198539	Units: mg/Kg		Analysis Date: 04-Aug-2023 12:54					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475879		PrepDate: 04-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2,4,5-Tetrachlorobenzene	U	0.17							
1,2,4-Trichlorobenzene	U	0.17							
1,3-Dinitrobenzene	U	0.17							
1,4-Dioxane	U	0.17							
1,4-Naphthoquinone	U	0.17							
1-Naphthylamine	U	0.17							
2,3,4,6-Tetrachlorophenol	U	0.17							
2,4,5-Trichlorophenol	U	0.17							
2,4,6-Trichlorophenol	U	0.17							
2,4-Dichlorophenol	U	0.17							
2,4-Dimethylphenol	U	0.17							
2,4-Dinitrophenol	U	0.17							
2,4-Dinitrotoluene	U	0.17							
2,6-Dichlorophenol	U	0.17							
2,6-Dinitrotoluene	U	0.17							
2-Acetylaminofluorene	U	0.17							
2-Chloronaphthalene	U	0.17							
2-Chlorophenol	U	0.17							
2-Methylnaphthalene	U	0.17							
2-Methylphenol	U	0.17							
2-Naphthylamine	U	0.17							
2-Nitroaniline	U	0.17							
2-Nitrophenol	U	0.17							
2-Picoline	U	0.17							
3&4-Methylphenol	U	0.17							
3,3'-Dichlorobenzidine	U	0.17							
3,3'-Dimethylbenzidine	U	0.17							
3-Methylcholanthrene	U	0.17							
3-Nitroaniline	U	0.17							
4,6-Dinitro-2-methylphenol	U	0.17							
4-Aminobiphenyl	U	0.17							
4-Chloroaniline	U	0.17							
4-Chlorophenyl phenyl ether	U	0.17							
4-Nitroaniline	U	0.17							

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QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES					
MBLK	Sample ID: MBLK-198539	Units: mg/Kg			Analysis Date: 04-Aug-2023 12:54				
Client ID:	Run ID: SV-4_443242	SeqNo: 7475879		PrepDate: 04-Aug-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

4-Nitrophenol	U	0.17							
4-Nitroquinoline-1-oxide	U	0.17							
5-Nitro-o-toluidine	U	0.17							
7,12-Dimethylbenz(a)anthracene	U	0.17							
a,a-Dimethylphenethylamine	U	0.17							
Acenaphthene	U	0.17							
Acenaphthylene	U	0.17							
Acetophenone	U	0.17							
Aniline	U	0.17							
Anthracene	U	0.17							
Aramite	U	0.17							
Benz(a)anthracene	U	0.17							
Benzo(a)pyrene	U	0.17							
Benzo(b)fluoranthene	U	0.17							
Benzo(g,h,i)perylene	U	0.17							
Benzo(k)fluoranthene	U	0.17							
Benzyl alcohol	U	0.17							
Bis(2-chloroethoxy)methane	U	0.17							
Bis(2-chloroethyl)ether	U	0.17							
Bis(2-chloroisopropyl)ether	U	0.17							
Bis(2-ethylhexyl)phthalate	U	0.17							
Butyl benzyl phthalate	U	0.17							
Chlorobenzilate	U	0.17							
Chrysene	U	0.17							
Diallate	U	0.17							
Dibenz(a,h)anthracene	U	0.17							
Dibenzofuran	U	0.17							
Diethyl phthalate	U	0.17							
Dimethoate	U	0.17							
Dimethyl phthalate	U	0.17							
Di-n-butyl phthalate	U	0.17							
Di-n-octyl phthalate	U	0.17							
Dinoseb	U	0.17							
Diphenylamine	U	0.17							

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILES

MBLK Sample ID: **MBLK-198539** Units: **mg/Kg** Analysis Date: **04-Aug-2023 12:54**
 Client ID: Run ID: **SV-4_443242** SeqNo: **7475879** PrepDate: **04-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Disulfoton	U	0.17								
Ethyl methanesulfonate	U	0.17								
Ethyl parathion	U	0.17								
Famphur	U	0.17								
Fluoranthene	U	0.17								
Fluorene	U	0.17								
Hexachlorobenzene	U	0.17								
Hexachlorobutadiene	U	0.17								
Hexachlorocyclopentadiene	U	0.17								
Hexachloroethane	U	0.17								
Hexachlorophene	U	1.7								
Hexachloropropene	U	0.17								
Indeno(1,2,3-cd)pyrene	U	0.17								
Isodrin	U	0.17								
Isophorone	U	0.17								
Isosafrole	U	0.17								
Kepone	U	0.17								
Methapyrilene	U	0.17								
Methyl methanesulfonate	U	0.17								
Methyl parathion	U	0.17								
Naphthalene	U	0.17								
Nitrobenzene	U	0.17								
N-Nitrosodiethylamine	U	0.17								
N-Nitrosodimethylamine	U	0.17								
N-Nitroso-di-n-butylamine	U	0.17								
N-Nitrosodiphenylamine	U	0.17								
N-Nitrosomethylethylamine	U	0.17								
N-Nitrosomorpholine	U	0.17								
N-Nitrosopiperidine	U	0.17								
N-Nitrosopyrrolidine	U	0.17								
o-Toluidine	U	0.17								
p-Dimethylaminoazobenzene	U	0.17								
Pentachlorobenzene	U	0.17								
Pentachloroethane	U	0.17								

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILES

MBLK	Sample ID: MBLK-198539	Units: mg/Kg			Analysis Date: 04-Aug-2023 12:54					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475879	PrepDate: 04-Aug-2023	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Pentachloronitrobenzene	U	0.17								
Pentachlorophenol	U	0.17								
Phenacetin	U	0.17								
Phenanthrene	U	0.17								
Phenol	U	0.17								
Phorate	U	0.17								
p-Phenylenediamine	U	0.17								
Pronamide	U	0.17								
Pyrene	U	0.17								
Pyridine	U	0.17								
Safrole	U	0.17								
Tetraethyldithiopyrophosphate	U	0.17								
Thionazin	U	0.17								
<i>Surr: 2,4,6-Tribromophenol</i>	2.3	0.17	3.333	0	69.5	36 - 126				
<i>Surr: 2-Fluorobiphenyl</i>	2.6	0.17	3.333	0	78.0	43 - 125				
<i>Surr: 2-Fluorophenol</i>	2.2	0.17	3.333	0	65.1	37 - 125				
<i>Surr: 4-Terphenyl-d14</i>	2.5	0.17	3.333	0	74.2	32 - 125				
<i>Surr: Nitrobenzene-d5</i>	2.6	0.17	3.333	0	79.0	37 - 125				
<i>Surr: Phenol-d6</i>	2.5	0.17	3.333	0	73.8	40 - 125				

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-198539	Units: mg/Kg			Analysis Date: 04-Aug-2023 13:16					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475880		PrepDate: 04-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2,4,5-Tetrachlorobenzene	1.2	0.17	1.667	0	72.5	55 - 120				
1,2,4-Trichlorobenzene	1.4	0.17	1.667	0	81.5	55 - 120				
1,3-Dinitrobenzene	1.5	0.17	1.667	0	88.0	55 - 120				
1,4-Dioxane	1.1	0.17	1.667	0	66.5	15 - 120				
1,4-Naphthoquinone	1.1	0.17	1.667	0	67.5	55 - 120				
1-Naphthylamine	0.40	0.17	1.667	0	24.0	40 - 130			S	
2,3,4,6-Tetrachlorophenol	2.7	0.17	3.333	0	81.5	55 - 120				
2,4,5-Trichlorophenol	3.0	0.17	3.333	0	89.6	55 - 120				
2,4,6-Trichlorophenol	2.8	0.17	3.333	0	84.4	55 - 120				
2,4-Dichlorophenol	2.8	0.17	3.333	0	84.6	55 - 120				
2,4-Dimethylphenol	2.6	0.17	3.333	0	78.7	55 - 125				
2,4-Dinitrophenol	2.8	0.17	3.333	0	84.5	40 - 125				
2,4-Dinitrotoluene	1.5	0.17	1.667	0	90.3	55 - 125				
2,6-Dichlorophenol	2.4	0.17	3.333	0	72.2	55 - 120				
2,6-Dinitrotoluene	1.5	0.17	1.667	0	88.0	55 - 120				
2-Acetylaminofluorene	1.4	0.17	1.667	0	81.8	40 - 130				
2-Chloronaphthalene	1.6	0.17	1.667	0	98.0	55 - 145				
2-Chlorophenol	2.7	0.17	3.333	0	79.9	55 - 120				
2-Methylnaphthalene	1.4	0.17	1.667	0	82.5	55 - 120				
2-Methylphenol	2.7	0.17	3.333	0	81.8	55 - 120				
2-Naphthylamine	0.72	0.17	1.667	0	43.4	40 - 130				
2-Nitroaniline	1.4	0.17	1.667	0	85.8	55 - 130				
2-Nitrophenol	2.7	0.17	3.333	0	82.4	55 - 120				
2-Picoline	1.1	0.17	1.667	0	68.6	40 - 130				
3&4-Methylphenol	5.2	0.17	5	0	104	55 - 120				
3,3'-Dichlorobenzidine	1.2	0.17	1.667	0	70.5	32 - 125				
3,3'-Dimethylbenzidine	0.65	0.17	1.667	0	39.0	20 - 120				
3-Methylcholanthrene	1.3	0.17	1.667	0	78.1	55 - 125				
3-Nitroaniline	1.1	0.17	1.667	0	65.0	43 - 120				
4,6-Dinitro-2-methylphenol	3.0	0.17	3.333	0	90.0	50 - 130				
4-Aminobiphenyl	0.61	0.17	1.667	0	36.7	20 - 120				
4-Chloroaniline	0.81	0.17	1.667	0	48.4	30 - 120				
4-Chlorophenyl phenyl ether	1.5	0.17	1.667	0	92.3	55 - 120				
4-Nitroaniline	1.4	0.17	1.667	0	86.5	55 - 120				

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QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-198539	Units: mg/Kg			Analysis Date: 04-Aug-2023 13:16					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475880		PrepDate: 04-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4-Nitrophenol	3.4	0.17	3.333	0	103	50 - 130				
4-Nitroquinoline-1-oxide	0.99	0.17	1.667	0	59.3	50 - 150				
5-Nitro-o-toluidine	1.00	0.17	1.667	0	59.8	40 - 130				
7,12-Dimethylbenz(a)anthracene	1.6	0.17	1.667	0	95.0	55 - 120				
a,a-Dimethylphenethylamine	1.1	0.17	1.667	0	64.3	40 - 130				
Acenaphthene	1.4	0.17	1.667	0	86.6	55 - 120				
Acenaphthylene	1.5	0.17	1.667	0	91.2	55 - 120				
Acetophenone	1.4	0.17	1.667	0	83.7	54 - 120				
Aniline	0.97	0.17	1.667	0	58.1	25 - 120				
Anthracene	1.5	0.17	1.667	0	90.6	55 - 120				
Aramite	1.2	0.17	1.667	0	73.4	55 - 142				
Benz(a)anthracene	1.5	0.17	1.667	0	88.3	55 - 125				
Benzo(a)pyrene	1.5	0.17	1.667	0	88.2	55 - 120				
Benzo(b)fluoranthene	1.4	0.17	1.667	0	82.6	55 - 125				
Benzo(g,h,i)perylene	1.4	0.17	1.667	0	85.5	55 - 120				
Benzo(k)fluoranthene	1.4	0.17	1.667	0	86.9	55 - 130				
Benzyl alcohol	1.3	0.17	1.667	0	80.9	55 - 120				
Bis(2-chloroethoxy)methane	1.3	0.17	1.667	0	77.3	55 - 120				
Bis(2-chloroethyl)ether	1.3	0.17	1.667	0	77.3	55 - 120				
Bis(2-chloroisopropyl)ether	1.3	0.17	1.667	0	79.7	55 - 120				
Bis(2-ethylhexyl)phthalate	1.4	0.17	1.667	0	83.0	55 - 125				
Butyl benzyl phthalate	1.4	0.17	1.667	0	85.0	55 - 125				
Chlorobenzilate	1.3	0.17	1.667	0	79.3	55 - 130				
Chrysene	1.5	0.17	1.667	0	87.4	55 - 125				
Diallate	1.1	0.17	1.667	0	67.6	50 - 140				
Dibenz(a,h)anthracene	1.4	0.17	1.667	0	86.2	55 - 120				
Dibenzofuran	1.5	0.17	1.667	0	88.0	55 - 120				
Diethyl phthalate	1.4	0.17	1.667	0	87.0	55 - 120				
Dimethoate	1.4	0.17	1.667	0	83.2	40 - 130				
Dimethyl phthalate	1.4	0.17	1.667	0	85.3	55 - 120				
Di-n-butyl phthalate	1.5	0.17	1.667	0	89.6	55 - 125				
Di-n-octyl phthalate	1.5	0.17	1.667	0	88.4	55 - 130				
Dinoseb	1.8	0.17	1.667	0	109	40 - 130				
Diphenylamine	1.5	0.17	1.667	0	88.1	55 - 120				

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QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-198539	Units: mg/Kg			Analysis Date: 04-Aug-2023 13:16					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475880		PrepDate: 04-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Disulfoton	1.4	0.17	1.667	0	82.8	40 - 130				
Ethyl methanesulfonate	1.1	0.17	1.667	0	66.1	55 - 120				
Ethyl parathion	1.4	0.17	1.667	0	83.8	40 - 130				
Famphur	0.65	0.17	1.667	0	38.8	40 - 130			S	
Fluoranthene	1.5	0.17	1.667	0	92.1	55 - 125				
Fluorene	1.5	0.17	1.667	0	90.8	55 - 120				
Hexachlorobenzene	1.5	0.17	1.667	0	88.0	55 - 120				
Hexachlorobutadiene	1.3	0.17	1.667	0	80.9	55 - 120				
Hexachlorocyclopentadiene	0.90	0.17	1.667	0	54.1	50 - 120				
Hexachloroethane	1.3	0.17	1.667	0	76.4	55 - 120				
Hexachlorophene	3.8	1.7	8.335	0	45.7	20 - 125				
Hexachloropropene	1.2	0.17	1.667	0	74.3	55 - 120				
Indeno(1,2,3-cd)pyrene	1.5	0.17	1.667	0	87.6	55 - 125				
Isodrin	1.2	0.17	1.667	0	72.2	55 - 120				
Isophorone	1.3	0.17	1.667	0	80.8	55 - 120				
Isosafrole	1.2	0.17	1.667	0	71.2	45 - 140				
Kepone	0.73	0.17	1.667	0	43.7	15 - 110				
Methapyrilene	1.4	0.17	1.667	0	81.1	40 - 130				
Methyl methanesulfonate	1.1	0.17	1.667	0	65.5	55 - 120				
Methyl parathion	1.4	0.17	1.667	0	86.5	40 - 130				
Naphthalene	1.4	0.17	1.667	0	82.3	55 - 120				
Nitrobenzene	1.3	0.17	1.667	0	79.9	55 - 120				
N-Nitrosodiethylamine	1.1	0.17	1.667	0	66.8	50 - 130				
N-Nitrosodimethylamine	1.4	0.17	1.667	0	83.4	45 - 120				
N-Nitroso-di-n-butylamine	1.2	0.17	1.667	0	74.6	40 - 130				
N-Nitrosodiphenylamine	1.5	0.17	1.667	0	88.1	55 - 120				
N-Nitrosomethylethylamine	1.1	0.17	1.667	0	68.7	40 - 130				
N-Nitrosomorpholine	1.4	0.17	1.667	0	81.2	40 - 130				
N-Nitrosopiperidine	1.2	0.17	1.667	0	71.0	40 - 130				
N-Nitrosopyrrolidine	1.2	0.17	1.667	0	70.1	40 - 130				
o-Toluidine	0.70	0.17	1.667	0	41.7	30 - 120				
p-Dimethylaminoazobenzene	1.3	0.17	1.667	0	77.3	40 - 130				
Pentachlorobenzene	1.3	0.17	1.667	0	78.9	55 - 120				
Pentachloroethane	1.1	0.17	1.667	0	64.9	55 - 120				

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QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
LCS	Sample ID: LCS-198539	Units: mg/Kg			Analysis Date: 04-Aug-2023 13:16					
Client ID:	Run ID: SV-4_443242	SeqNo: 7475880		PrepDate: 04-Aug-2023		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Pentachloronitrobenzene	1.4	0.17	1.667	0	81.1	55 - 140				
Pentachlorophenol	3.0	0.17	3.333	0	91.4	50 - 135				
Phenacetin	1.2	0.17	1.667	0	73.5	55 - 125				
Phenanthrene	1.4	0.17	1.667	0	85.6	55 - 120				
Phenol	2.6	0.17	3.333	0	77.2	50 - 120				
Phorate	1.2	0.17	1.667	0	73.7	40 - 130				
p-Phenylenediamine	0.28	0.17	1.667	0	17.1	20 - 120			S	
Pronamide	1.2	0.17	1.667	0	70.5	55 - 125				
Pyrene	1.5	0.17	1.667	0	89.2	55 - 125				
Pyridine	1.2	0.17	1.667	0	72.7	30 - 120				
Safrole	1.2	0.17	1.667	0	71.2	55 - 120				
Tetraethyldithiopyrophosphate	1.3	0.17	1.667	0	79.8	40 - 130				
Thionazin	1.4	0.17	1.667	0	82.9	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3.0</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>89.3</i>	<i>36 - 126</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.0</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>88.9</i>	<i>43 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>2.6</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>77.2</i>	<i>37 - 125</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>3.0</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>89.0</i>	<i>32 - 125</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>2.9</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>86.7</i>	<i>37 - 125</i>				
<i>Surr: Phenol-d6</i>	<i>2.8</i>	<i>0.17</i>	<i>3.333</i>	<i>0</i>	<i>85.0</i>	<i>40 - 125</i>				

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MS		Sample ID: HS23071844-02MS		Units: mg/Kg		Analysis Date: 04-Aug-2023 20:51				
Client ID: DUP-01-SL-20230727		Run ID: SV-4_443242		SeqNo: 7475883		PrepDate: 04-Aug-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2,4,5-Tetrachlorobenzene	0.99	1.7	1.665	0	59.3	55 - 120			J	
1,2,4-Trichlorobenzene	1.0	1.7	1.665	0	61.8	55 - 120			J	
1,3-Dinitrobenzene	2.1	1.7	1.665	0	125	55 - 120			S	
1,4-Dioxane	U	1.7	1.665	0	0	15 - 120			S	
1,4-Naphthoquinone	0.48	1.7	1.665	0	28.8	55 - 120			JS	
1-Naphthylamine	1.5	1.7	1.665	0	88.5	40 - 130			J	
2,3,4,6-Tetrachlorophenol	2.0	1.7	3.33	0	61.2	55 - 120				
2,4,5-Trichlorophenol	2.6	1.7	3.33	0	77.2	55 - 120				
2,4,6-Trichlorophenol	2.2	1.7	3.33	0	67.4	55 - 120				
2,4-Dichlorophenol	2.2	1.7	3.33	0	67.1	55 - 120				
2,4-Dimethylphenol	2.1	1.7	3.33	0	63.4	55 - 125				
2,4-Dinitrophenol	1.9	1.7	3.33	0	55.7	40 - 125				
2,4-Dinitrotoluene	3.4	1.7	1.665	0	206	55 - 125			S	
2,6-Dichlorophenol	2.0	1.7	3.33	0	59.6	55 - 120				
2,6-Dinitrotoluene	2.0	1.7	1.665	0	122	55 - 120			S	
2-Acetylaminofluorene	1.3	1.7	1.665	0	79.7	40 - 130			J	
2-Chloronaphthalene	1.6	1.7	1.665	0	95.7	55 - 145			J	
2-Chlorophenol	2.0	1.7	3.33	0	59.9	55 - 120				
2-Methylnaphthalene	4.7	1.7	1.665	2.812	114	55 - 120				
2-Methylphenol	2.5	1.7	3.33	0	76.3	55 - 120				
2-Naphthylamine	1.2	1.7	1.665	0	71.5	40 - 130			J	
2-Nitroaniline	1.8	1.7	1.665	0	106	55 - 130				
2-Nitrophenol	2.5	1.7	3.33	0	74.6	55 - 120				
2-Picoline	0.55	1.7	1.665	0	32.8	40 - 130			JS	
3&4-Methylphenol	6.4	1.7	4.995	2.014	88.1	55 - 120				
3,3'-Dichlorobenzidine	1.8	1.7	1.665	0	108	32 - 125				
3,3'-Dimethylbenzidine	U	1.7	1.665	0	0	20 - 120			S	
3-Methylcholanthrene	1.2	1.7	1.665	0	73.4	55 - 125			J	
3-Nitroaniline	1.8	1.7	1.665	0	106	43 - 120				
4,6-Dinitro-2-methylphenol	1.7	1.7	3.33	0	49.6	50 - 130			JS	
4-Aminobiphenyl	0.96	1.7	1.665	0	57.7	20 - 120			J	
4-Chloroaniline	0.89	1.7	1.665	0	53.3	30 - 120			J	
4-Chlorophenyl phenyl ether	1.2	1.7	1.665	0	72.8	55 - 120			J	
4-Nitroaniline	1.9	1.7	1.665	0	112	55 - 120				

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QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MS		Sample ID: HS23071844-02MS		Units: mg/Kg		Analysis Date: 04-Aug-2023 20:51				
Client ID: DUP-01-SL-20230727		Run ID: SV-4_443242		SeqNo: 7475883		PrepDate: 04-Aug-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
4-Nitrophenol	2.3	1.7	3.33	0	67.8	50 - 130				
4-Nitroquinoline-1-oxide	2.0	1.7	1.665	0	118	50 - 150				
5-Nitro-o-toluidine	16	1.7	1.665	0	989	40 - 130			S	
7,12-Dimethylbenz(a)anthracene	1.8	1.7	1.665	0	108	55 - 120				
a,a-Dimethylphenethylamine	0.68	1.7	1.665	0	40.9	40 - 130			J	
Acenaphthene	3.5	1.7	1.665	2.806	43.5	55 - 120			S	
Acenaphthylene	1.7	1.7	1.665	0	102	55 - 120				
Acetophenone	2.4	1.7	1.665	0	143	54 - 120			S	
Aniline	1.1	1.7	1.665	0	65.1	25 - 120			J	
Anthracene	3.3	1.7	1.665	2.508	47.9	55 - 120			S	
Aramite	1.1	1.7	1.665	0	67.6	55 - 142			J	
Benz(a)anthracene	2.9	1.7	1.665	2.272	35.3	55 - 125			S	
Benzo(a)pyrene	2.0	1.7	1.665	1.009	59.6	55 - 120				
Benzo(b)fluoranthene	1.6	1.7	1.665	0.4602	71.4	55 - 125			J	
Benzo(g,h,i)perylene	1.6	1.7	1.665	0.4657	67.8	55 - 120			J	
Benzo(k)fluoranthene	1.2	1.7	1.665	0.3343	54.8	55 - 130			JS	
Benzyl alcohol	1.1	1.7	1.665	0	64.2	55 - 120			J	
Bis(2-chloroethoxy)methane	0.94	1.7	1.665	0	56.2	55 - 120			J	
Bis(2-chloroethyl)ether	1.1	1.7	1.665	0	66.9	55 - 120			J	
Bis(2-chloroisopropyl)ether	1.1	1.7	1.665	0	67.1	55 - 120			J	
Bis(2-ethylhexyl)phthalate	1.5	1.7	1.665	0	88.5	55 - 125			J	
Butyl benzyl phthalate	1.2	1.7	1.665	0	71.2	55 - 125			J	
Chlorobenzilate	1.5	1.7	1.665	0	88.4	55 - 130			J	
Chrysene	3.4	1.7	1.665	2.980	25.8	55 - 125			S	
Diallate	2.7	1.7	1.665	0	164	50 - 140			S	
Dibenz(a,h)anthracene	1.3	1.7	1.665	0	79.5	55 - 120			J	
Dibenzofuran	2.1	1.7	1.665	0	125	55 - 120			S	
Diethyl phthalate	1.3	1.7	1.665	0	77.7	55 - 120			J	
Dimethoate	2.4	1.7	1.665	0	145	40 - 130			S	
Dimethyl phthalate	1.2	1.7	1.665	0	69.2	55 - 120			J	
Di-n-butyl phthalate	1.3	1.7	1.665	0	80.9	55 - 125			J	
Di-n-octyl phthalate	1.3	1.7	1.665	0	80.3	55 - 130			J	
Dinoseb	2.0	1.7	1.665	0	118	40 - 130				
Diphenylamine	7.1	1.7	1.665	0	424	55 - 120			S	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MS		Sample ID: HS23071844-02MS		Units: mg/Kg		Analysis Date: 04-Aug-2023 20:51				
Client ID: DUP-01-SL-20230727		Run ID: SV-4_443242		SeqNo: 7475883		PrepDate: 04-Aug-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Disulfoton	2.7	1.7	1.665	0	165	40 - 130			S	
Ethyl methanesulfonate	0.96	1.7	1.665	0	57.7	55 - 120			J	
Ethyl parathion	U	1.7	1.665	0	0	40 - 130			S	
Famphur	2.9	1.7	1.665	0	175	40 - 130			S	
Fluoranthene	2.3	1.7	1.665	0	139	55 - 125			S	
Fluorene	4.0	1.7	1.665	4.007	2.40	55 - 120			S	
Hexachlorobenzene	1.2	1.7	1.665	0	74.3	55 - 120			J	
Hexachlorobutadiene	1.1	1.7	1.665	0	64.4	55 - 120			J	
Hexachlorocyclopentadiene	U	1.7	1.665	0	0	50 - 120			S	
Hexachloroethane	1.5	1.7	1.665	0	87.6	55 - 120			J	
Hexachlorophene	U	17	1.665	0	0	20 - 125			S	
Hexachloropropene	U	1.7	1.665	0	0	55 - 120			S	
Indeno(1,2,3-cd)pyrene	1.4	1.7	1.665	0	82.2	55 - 125			J	
Isodrin	U	1.7	1.665	0	0	55 - 120			S	
Isophorone	1.4	1.7	1.665	0	81.7	55 - 120			J	
Isosafrole	0.95	1.7	1.665	0	57.0	45 - 140			J	
Kepone	0.78	1.7	1.665	0	46.7	15 - 110			J	
Methapyrilene	1.4	1.7	1.665	0	85.0	40 - 130			J	
Methyl methanesulfonate	0.67	1.7	1.665	0	40.4	55 - 120			JS	
Methyl parathion	1.8	1.7	1.665	0	106	40 - 130			J	
Naphthalene	2.0	1.7	1.665	0	120	55 - 120			S	
Nitrobenzene	1.1	1.7	1.665	0	65.8	55 - 120			J	
N-Nitrosodiethylamine	0.74	1.7	1.665	0	44.2	50 - 130			JS	
N-Nitrosodimethylamine	0.63	1.7	1.665	0	37.7	45 - 120			JS	
N-Nitroso-di-n-butylamine	1.5	1.7	1.665	0	88.9	40 - 130			J	
N-Nitrosodiphenylamine	7.1	1.7	1.665	0	424	55 - 120			S	
N-Nitrosomethylethylamine	0.69	1.7	1.665	0	41.2	40 - 130			J	
N-Nitrosomorpholine	1.4	1.7	1.665	0	82.1	40 - 130			J	
N-Nitrosopiperidine	0.91	1.7	1.665	0	54.6	40 - 130			J	
N-Nitrosopyrrolidine	0.88	1.7	1.665	0	52.6	40 - 130			J	
o-Toluidine	0.88	1.7	1.665	0	52.7	30 - 120			J	
p-Dimethylaminoazobenzene	1.2	1.7	1.665	0	70.9	40 - 130			J	
Pentachlorobenzene	1.1	1.7	1.665	0	67.6	55 - 120			J	
Pentachloroethane	0.76	1.7	1.665	0	45.4	55 - 120			JS	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MS		Sample ID: HS23071844-02MS		Units: mg/Kg		Analysis Date: 04-Aug-2023 20:51				
Client ID: DUP-01-SL-20230727		Run ID: SV-4_443242		SeqNo: 7475883		PrepDate: 04-Aug-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Pentachloronitrobenzene	0.95	1.7	1.665	0	56.8	55 - 140			J	
Pentachlorophenol	1.4	1.7	3.33	0	43.3	50 - 135			JS	
Phenacetin	0.91	1.7	1.665	0	54.5	55 - 125			JS	
Phenanthrene	9.1	1.7	1.665	10.91	-109	55 - 120			SO	
Phenol	2.9	1.7	3.33	0.9699	59.2	50 - 120				
Phorate	1.0	1.7	1.665	0	61.5	40 - 130			J	
p-Phenylenediamine	U	1.7	1.665	0	0	20 - 120			S	
Pronamide	1.6	1.7	1.665	0	97.9	55 - 125			J	
Pyrene	4.3	1.7	1.665	4.563	-15.1	55 - 125			S	
Pyridine	0.53	1.7	1.665	0	31.6	30 - 120			J	
Safrole	1.6	1.7	1.665	0	99.0	55 - 120			J	
Tetraethyldithiopyrophosphate	1.1	1.7	1.665	0	64.6	40 - 130			J	
Thionazin	1.2	1.7	1.665	0	74.0	40 - 130			J	
<i>Surr: 2,4,6-Tribromophenol</i>	2.4	1.7	3.33	0	71.3	36 - 126				
<i>Surr: 2-Fluorobiphenyl</i>	2.6	1.7	3.33	0	77.7	43 - 125				
<i>Surr: 2-Fluorophenol</i>	1.5	1.7	3.33	0	46.1	37 - 125			J	
<i>Surr: 4-Terphenyl-d14</i>	2.5	1.7	3.33	0	74.6	32 - 125				
<i>Surr: Nitrobenzene-d5</i>	2.2	1.7	3.33	0	66.2	37 - 125				
<i>Surr: Phenol-d6</i>	2.1	1.7	3.33	0	63.1	40 - 125				

Revision: 1

ALS Houston, US

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Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES							
MSD		Sample ID: HS23071844-02MSD		Units: mg/Kg		Analysis Date: 04-Aug-2023 21:13					
Client ID: DUP-01-SL-20230727		Run ID: SV-4_443242		SeqNo: 7475884		PrepDate: 04-Aug-2023		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2,4,5-Tetrachlorobenzene	1.2	1.7	1.661	0	73.1	55 - 120	0.9870	0	30	J	
1,2,4-Trichlorobenzene	1.2	1.7	1.661	0	72.2	55 - 120	1.030	0	30	J	
1,3-Dinitrobenzene	1.0	1.7	1.661	0	61.1	55 - 120	2.085	0	30	J	
1,4-Dioxane	U	1.7	1.661	0	0	15 - 120	0	0	30	S	
1,4-Naphthoquinone	0.40	1.7	1.661	0	23.9	55 - 120	0.4803	0	30	JS	
1-Naphthylamine	1.5	1.7	1.661	0	89.4	40 - 130	1.473	0	30	J	
2,3,4,6-Tetrachlorophenol	1.1	1.7	3.321	0	31.9	55 - 120	2.038	0	30	JS	
2,4,5-Trichlorophenol	3.0	1.7	3.321	0	89.6	55 - 120	2.570	14.6	30		
2,4,6-Trichlorophenol	2.7	1.7	3.321	0	81.6	55 - 120	2.244	18.8	30		
2,4-Dichlorophenol	2.6	1.7	3.321	0	79.4	55 - 120	2.235	16.5	30		
2,4-Dimethylphenol	2.3	1.7	3.321	0	68.9	55 - 125	2.113	7.93	30		
2,4-Dinitrophenol	2.6	1.7	3.321	0	78.2	40 - 125	1.853	33.4	30	R	
2,4-Dinitrotoluene	3.5	1.7	1.661	0	210	55 - 125	3.424	2.04	30	S	
2,6-Dichlorophenol	2.4	1.7	3.321	0	73.3	55 - 120	1.986	20.3	30		
2,6-Dinitrotoluene	1.9	1.7	1.661	0	116	55 - 120	2.038	5.91	30		
2-Acetylaminofluorene	1.1	1.7	1.661	0	69.1	40 - 130	1.327	0	30	J	
2-Chloronaphthalene	1.7	1.7	1.661	0	102	55 - 145	1.594	6.04	30		
2-Chlorophenol	2.2	1.7	3.321	0	66.0	55 - 120	1.993	9.42	30		
2-Methylnaphthalene	3.5	1.7	1.661	2.812	42.3	55 - 120	4.706	29	30	S	
2-Methylphenol	2.6	1.7	3.321	0	77.5	55 - 120	2.542	1.28	30		
2-Naphthylamine	1.4	1.7	1.661	0	87.1	40 - 130	1.191	0	30	J	
2-Nitroaniline	2.1	1.7	1.661	0	124	55 - 130	1.762	15.4	30		
2-Nitrophenol	2.8	1.7	3.321	0	83.9	55 - 120	2.484	11.5	30		
2-Picoline	0.67	1.7	1.661	0	40.3	40 - 130	0.5456	0	30	J	
3&4-Methylphenol	6.8	1.7	4.982	2.014	96.3	55 - 120	6.415	5.97	30		
3,3'-Dichlorobenzidine	1.3	1.7	1.661	0	75.8	32 - 125	1.803	0	30	J	
3,3'-Dimethylbenzidine	U	1.7	1.661	0	0	20 - 120	0	0	30	S	
3-Methylcholanthrene	1.4	1.7	1.661	0	82.4	55 - 125	1.223	0	30	J	
3-Nitroaniline	1.6	1.7	1.661	0	93.5	43 - 120	1.762	0	30	J	
4,6-Dinitro-2-methylphenol	1.2	1.7	3.321	0	37.1	50 - 130	1.652	0	30	JS	
4-Aminobiphenyl	1.7	1.7	1.661	0	102	20 - 120	0.9609	55.2	30	R	
4-Chloroaniline	0.96	1.7	1.661	0	57.8	30 - 120	0.8883	0	30	J	
4-Chlorophenyl phenyl ether	1.4	1.7	1.661	0	86.9	55 - 120	1.212	0	30	J	
4-Nitroaniline	1.4	1.7	1.661	0	84.1	55 - 120	1.857	0	30	J	

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES							
MSD		Sample ID: HS23071844-02MSD		Units: mg/Kg		Analysis Date: 04-Aug-2023 21:13					
Client ID: DUP-01-SL-20230727		Run ID: SV-4_443242		SeqNo: 7475884		PrepDate: 04-Aug-2023		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
4-Nitrophenol	4.4	1.7	3.321	0	133	50 - 130	2.257	64.8	30	SR	
4-Nitroquinoline-1-oxide	1.9	1.7	1.661	0	116	50 - 150	1.957	1.38	30		
5-Nitro-o-toluidine	1.7	1.7	1.661	0	105	40 - 130	16.47	162	30	R	
7,12-Dimethylbenz(a)anthracene	0.85	1.7	1.661	0	51.3	55 - 120	1.793	0	30	JS	
a,a-Dimethylphenethylamine	0.65	1.7	1.661	0	39.2	40 - 130	0.6810	0	30	JS	
Acenaphthene	3.5	1.7	1.661	2.806	39.2	55 - 120	3.530	2.09	30	S	
Acenaphthylene	2.0	1.7	1.661	0	119	55 - 120	1.707	15	30		
Acetophenone	2.5	1.7	1.661	0	150	54 - 120	2.388	4.05	30	S	
Aniline	1.2	1.7	1.661	0	72.7	25 - 120	1.084	0	30	J	
Anthracene	3.2	1.7	1.661	2.508	39.4	55 - 120	3.306	4.43	30	S	
Aramite	1.3	1.7	1.661	0	78.9	55 - 142	1.125	0	30	J	
Benz(a)anthracene	3.1	1.7	1.661	2.272	47.3	55 - 125	2.860	6.71	30	S	
Benzo(a)pyrene	1.8	1.7	1.661	1.009	49.2	55 - 120	2.002	9.17	30	S	
Benzo(b)fluoranthene	1.6	1.7	1.661	0.4602	67.6	55 - 125	1.650	0	30	J	
Benzo(g,h,i)perylene	1.6	1.7	1.661	0.4657	70.0	55 - 120	1.595	0	30	J	
Benzo(k)fluoranthene	1.5	1.7	1.661	0.3343	67.4	55 - 130	1.246	0	30	J	
Benzyl alcohol	1.2	1.7	1.661	0	74.4	55 - 120	1.070	0	30	J	
Bis(2-chloroethoxy)methane	1.2	1.7	1.661	0	71.6	55 - 120	0.9360	0	30	J	
Bis(2-chloroethyl)ether	1.2	1.7	1.661	0	73.0	55 - 120	1.114	0	30	J	
Bis(2-chloroisopropyl)ether	1.2	1.7	1.661	0	71.5	55 - 120	1.118	0	30	J	
Bis(2-ethylhexyl)phthalate	1.7	1.7	1.661	0	102	55 - 125	1.474	13.7	30		
Butyl benzyl phthalate	1.4	1.7	1.661	0	85.1	55 - 125	1.186	0	30	J	
Chlorobenzilate	1.3	1.7	1.661	0	75.8	55 - 130	1.472	0	30	J	
Chrysene	3.8	1.7	1.661	2.980	50.4	55 - 125	3.410	11.2	30	S	
Diallate	3.1	1.7	1.661	0	187	50 - 140	2.737	12.6	30	S	
Dibenz(a,h)anthracene	1.4	1.7	1.661	0	85.9	55 - 120	1.324	0	30	J	
Dibenzofuran	2.2	1.7	1.661	0	131	55 - 120	2.085	3.87	30	S	
Diethyl phthalate	1.5	1.7	1.661	0	92.3	55 - 120	1.295	0	30	J	
Dimethoate	1.8	1.7	1.661	0	106	40 - 130	2.419	31.3	30	R	
Dimethyl phthalate	1.4	1.7	1.661	0	83.4	55 - 120	1.152	0	30	J	
Di-n-butyl phthalate	1.5	1.7	1.661	0	91.4	55 - 125	1.347	0	30	J	
Di-n-octyl phthalate	1.5	1.7	1.661	0	88.2	55 - 130	1.338	0	30	J	
Dinoseb	2.0	1.7	1.661	0	119	40 - 130	1.966	0.255	30		
Diphenylamine	2.0	1.7	1.661	0	119	55 - 120	7.058	113	30	R	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MSD		Sample ID: HS23071844-02MSD		Units: mg/Kg		Analysis Date: 04-Aug-2023 21:13				
Client ID: DUP-01-SL-20230727		Run ID: SV-4_443242		SeqNo: 7475884		PrepDate: 04-Aug-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Disulfoton	1.1	1.7	1.661	0	66.9	40 - 130	2.747	0	30	J
Ethyl methanesulfonate	1.0	1.7	1.661	0	63.1	55 - 120	0.9612	0	30	J
Ethyl parathion	U	1.7	1.661	0	0	40 - 130	0	0	30	S
Famphur	U	1.7	1.661	0	0	40 - 130	2.919	0	30	S
Fluoranthene	2.1	1.7	1.661	0	125	55 - 125	2.317	11.2	30	
Fluorene	4.6	1.7	1.661	4.007	34.9	55 - 120	4.047	12.5	30	S
Hexachlorobenzene	1.3	1.7	1.661	0	79.6	55 - 120	1.237	0	30	J
Hexachlorobutadiene	1.2	1.7	1.661	0	71.9	55 - 120	1.072	0	30	J
Hexachlorocyclopentadiene	U	1.7	1.661	0	0	50 - 120	0	0	30	S
Hexachloroethane	1.4	1.7	1.661	0	82.9	55 - 120	1.458	0	30	J
Hexachlorophene	U	17	1.661	0	0	20 - 125	0	0	30	S
Hexachloropropene	U	1.7	1.661	0	0	55 - 120	0	0	30	S
Indeno(1,2,3-cd)pyrene	1.5	1.7	1.661	0	89.5	55 - 125	1.368	0	30	J
Isodrin	1.9	1.7	1.661	0	116	55 - 120	0	45	30	R
Isophorone	1.7	1.7	1.661	0	99.8	55 - 120	1.361	0	30	J
Isosafrole	1.2	1.7	1.661	0	72.2	45 - 140	0.9486	0	30	J
Kepone	U	1.7	1.661	0	0	15 - 110	0.7775	0	30	S
Methapyrilene	0.72	1.7	1.661	0	43.2	40 - 130	1.415	0	30	J
Methyl methanesulfonate	0.80	1.7	1.661	0	48.2	55 - 120	0.6733	0	30	JS
Methyl parathion	1.5	1.7	1.661	0	91.7	40 - 130	1.761	0	30	J
Naphthalene	1.6	1.7	1.661	0	93.8	55 - 120	2.006	0	30	J
Nitrobenzene	1.2	1.7	1.661	0	74.7	55 - 120	1.096	0	30	J
N-Nitrosodiethylamine	0.88	1.7	1.661	0	53.1	50 - 130	0.7366	0	30	J
N-Nitrosodimethylamine	0.69	1.7	1.661	0	41.6	45 - 120	0.6277	0	30	JS
N-Nitroso-di-n-butylamine	1.6	1.7	1.661	0	97.5	40 - 130	1.481	0	30	J
N-Nitrosodiphenylamine	1.8	1.7	1.661	0	107	55 - 120	7.058	120	30	R
N-Nitrosomethylethylamine	0.75	1.7	1.661	0	45.1	40 - 130	0.6858	0	30	J
N-Nitrosomorpholine	1.3	1.7	1.661	0	80.5	40 - 130	1.367	0	30	J
N-Nitrosopiperidine	1.1	1.7	1.661	0	63.5	40 - 130	0.9087	0	30	J
N-Nitrosopyrrolidine	1.0	1.7	1.661	0	61.2	40 - 130	0.8758	0	30	J
o-Toluidine	0.89	1.7	1.661	0	53.3	30 - 120	0.8769	0	30	J
p-Dimethylaminoazobenzene	0.96	1.7	1.661	0	57.8	40 - 130	1.181	0	30	J
Pentachlorobenzene	1.3	1.7	1.661	0	79.1	55 - 120	1.125	0	30	J
Pentachloroethane	0.88	1.7	1.661	0	53.1	55 - 120	0.7563	0	30	JS

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198539 (0)		Instrument: SV-4		Method: SEMIVOLATILES						
MSD		Sample ID: HS23071844-02MSD		Units: mg/Kg		Analysis Date: 04-Aug-2023 21:13				
Client ID: DUP-01-SL-20230727		Run ID: SV-4_443242		SeqNo: 7475884		PrepDate: 04-Aug-2023		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Pentachloronitrobenzene	0.98	1.7	1.661	0	58.9	55 - 140	0.9452	0	30	J
Pentachlorophenol	1.7	1.7	3.321	0	52.6	50 - 135	1.441	19.1	30	
Phenacetin	1.2	1.7	1.661	0	75.3	55 - 125	0.9082	0	30	J
Phenanthrene	8.3	1.7	1.661	10.91	-158	55 - 120	9.096	9.35	30	SO
Phenol	3.0	1.7	3.321	0.9699	60.5	50 - 120	2.940	1.33	30	
Phorate	1.2	1.7	1.661	0	72.1	40 - 130	1.024	0	30	J
p-Phenylenediamine	U	1.7	1.661	0	0	20 - 120	0	0	30	S
Pronamide	1.5	1.7	1.661	0	92.4	55 - 125	1.630	0	30	J
Pyrene	4.2	1.7	1.661	4.563	-21.0	55 - 125	4.311	2.24	30	S
Pyridine	0.60	1.7	1.661	0	35.9	30 - 120	0.5255	0	30	J
Safrole	1.7	1.7	1.661	0	105	55 - 120	1.649	5.53	30	
Tetraethyldithiopyrophosphate	1.2	1.7	1.661	0	73.9	40 - 130	1.076	0	30	J
Thionazin	1.5	1.7	1.661	0	89.4	40 - 130	1.232	0	30	J
<i>Surr: 2,4,6-Tribromophenol</i>	2.7	1.7	3.321	0	80.5	36 - 126	2.374	11.8	30	
<i>Surr: 2-Fluorobiphenyl</i>	3.0	1.7	3.321	0	89.9	43 - 125	2.586	14.4	30	
<i>Surr: 2-Fluorophenol</i>	1.8	1.7	3.321	0	52.8	37 - 125	1.534	13.3	30	
<i>Surr: 4-Terphenyl-d14</i>	2.6	1.7	3.321	0	78.9	32 - 125	2.484	5.36	30	
<i>Surr: Nitrobenzene-d5</i>	2.5	1.7	3.321	0	75.3	37 - 125	2.203	12.7	30	
<i>Surr: Phenol-d6</i>	2.4	1.7	3.321	0	72.6	40 - 125	2.100	13.8	30	

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198425 (0)	Instrument: VOA11	Method: TCLP VOLATILES BY SW8260C								
MBLK	Sample ID: MBLK-198425	Units: mg/L	Analysis Date: 03-Aug-2023 15:03							
Client ID:	Run ID: VOA11_443147	SeqNo: 7471156	PrepDate: 02-Aug-2023 DF: 20							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

1,1,1,2-Tetrachloroethane	U	0.10								
1,1,1-Trichloroethane	U	0.10								
1,1,2,2-Tetrachloroethane	U	0.10								
1,1,2-Trichloroethane	U	0.10								
1,1-Dichloroethane	U	0.10								
1,1-Dichloroethene	U	0.10								
1,2-Dibromoethane	U	0.10								
1,2-Dichlorobenzene	U	0.10								
1,2-Dichloroethane	U	0.10								
1,2-Dichloropropane	U	0.10								
1,3-Dichlorobenzene	U	0.10								
1,4-Dichlorobenzene	U	0.10								
1,4-Dioxane	U	2.0								
2-Butanone	U	0.20								
2-Chloro-1,3-butadiene	U	0.10								
2-Hexanone	U	0.20								
4-Methyl-2-pentanone	U	0.20								
Acetone	U	0.20								
Acetonitrile	U	1.0								
Acrolein	U	0.40								
Acrylonitrile	U	0.20								
Allyl Chloride	U	0.20								
Benzene	U	0.10								
Bromodichloromethane	U	0.10								
Bromoform	U	0.10								
Bromomethane	U	0.10								
Carbon disulfide	U	0.20								
Carbon tetrachloride	U	0.10								
Chlorobenzene	U	0.10								
Chloroethane	U	0.10								
Chloroform	U	0.10								
Chloromethane	U	0.10								
cis-1,3-Dichloropropene	U	0.10								
Dibromochloromethane	U	0.10								

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198425 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
MBLK	Sample ID: MBLK-198425	Units: mg/L			Analysis Date: 03-Aug-2023 15:03					
Client ID:	Run ID: VOA11_443147	SeqNo: 7471156	PrepDate: 02-Aug-2023	DF: 20						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	U	0.10								
Dichlorodifluoromethane	U	0.10								
Ethyl methacrylate	U	0.10								
Ethylbenzene	U	0.10								
Iodomethane	U	0.20								
Isobutyl alcohol	U	2.0								
Methacrylonitrile	U	0.10								
Methyl methacrylate	U	0.10								
Methylene chloride	U	0.20								
Propionitrile	U	1.0								
Styrene	U	0.10								
Tetrachloroethene	U	0.10								
Toluene	U	0.10								
trans-1,2-Dichloroethene	U	0.10								
trans-1,3-Dichloropropene	U	0.10								
trans-1,4-Dichloro-2-butene	U	0.10								
Trichloroethene	U	0.10								
Trichlorofluoromethane	U	0.10								
Vinyl acetate	U	0.20								
Vinyl chloride	U	0.040								
Xylenes, Total	U	0.10								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1.00</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>99.5</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>1.00</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>99.5</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.92</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>92.0</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>				

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Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198425 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
LCS	Sample ID: VLCSW-230803	Units: mg/L			Analysis Date: 03-Aug-2023 09:43					
Client ID:	Run ID: VOA11_443147	SeqNo: 7471152	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.019	0.0050	0.02	0	93.6	77 - 118				
1,1,1-Trichloroethane	0.019	0.0050	0.02	0	92.6	70 - 130				
1,1,2,2-Tetrachloroethane	0.019	0.0050	0.02	0	93.7	70 - 120				
1,1,2-Trichloroethane	0.018	0.0050	0.02	0	89.6	77 - 113				
1,1-Dichloroethane	0.021	0.0050	0.02	0	107	71 - 122				
1,1-Dichloroethene	0.022	0.0050	0.02	0	111	70 - 130				
1,2-Dibromoethane	0.018	0.0050	0.02	0	89.7	76 - 123				
1,2-Dichlorobenzene	0.019	0.0050	0.02	0	94.3	77 - 113				
1,2-Dichloroethane	0.019	0.0050	0.02	0	95.8	70 - 124				
1,2-Dichloropropane	0.018	0.0050	0.02	0	89.7	72 - 119				
1,3-Dichlorobenzene	0.019	0.0050	0.02	0	93.2	78 - 118				
1,4-Dichlorobenzene	0.020	0.0050	0.02	0	97.8	79 - 113				
1,4-Dioxane	0.32	0.10	0.4	0	79.2	60 - 154				
2-Butanone	0.044	0.010	0.04	0	110	70 - 130				
2-Chloro-1,3-butadiene	0.021	0.0050	0.02	0	107	70 - 130				
2-Hexanone	0.042	0.010	0.04	0	106	70 - 130				
4-Methyl-2-pentanone	0.037	0.010	0.04	0	93.2	70 - 130				
Acetone	0.043	0.010	0.04	0	106	70 - 130				
Acetonitrile	0.21	0.050	0.2	0	104	70 - 130				
Acrolein	0.042	0.020	0.04	0	104	70 - 130				
Acrylonitrile	0.043	0.010	0.04	0	107	70 - 130				
Allyl Chloride	0.022	0.010	0.02	0	111	70 - 130				
Benzene	0.018	0.0050	0.02	0	91.8	74 - 120				
Bromodichloromethane	0.017	0.0050	0.02	0	87.2	74 - 122				
Bromoform	0.015	0.0050	0.02	0	76.7	73 - 128				
Bromomethane	0.021	0.0050	0.02	0	103	70 - 130				
Carbon disulfide	0.037	0.010	0.04	0	93.6	70 - 130				
Carbon tetrachloride	0.017	0.0050	0.02	0	86.9	71 - 125				
Chlorobenzene	0.018	0.0050	0.02	0	90.3	76 - 113				
Chloroethane	0.018	0.0050	0.02	0	91.3	70 - 130				
Chloroform	0.020	0.0050	0.02	0	102	71 - 121				
Chloromethane	0.019	0.0050	0.02	0	94.7	70 - 129				
cis-1,3-Dichloropropene	0.017	0.0050	0.02	0	84.2	73 - 127				
Dibromochloromethane	0.016	0.0050	0.02	0	78.0	77 - 122				

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 198425 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
LCS	Sample ID: VLCSW-230803	Units: mg/L			Analysis Date: 03-Aug-2023 09:43					
Client ID:	Run ID: VOA11_443147	SeqNo: 7471152	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.018	0.0050	0.02	0	90.3	78 - 121				
Dichlorodifluoromethane	0.019	0.0050	0.02	0	96.4	70 - 130				
Ethyl methacrylate	0.020	0.0050	0.02	0	98.0	65 - 135				
Ethylbenzene	0.019	0.0050	0.02	0	95.0	77 - 117				
Iodomethane	0.051	0.010	0.04	0	127	70 - 130				
Isobutyl alcohol	0.42	0.10	0.4	0	104	70 - 130				
Methacrylonitrile	0.020	0.0050	0.02	0	102	70 - 130				
Methyl methacrylate	0.019	0.0050	0.02	0	93.7	73 - 139				
Methylene chloride	0.024	0.010	0.02	0	119	70 - 127				
Propionitrile	0.21	0.050	0.2	0	107	70 - 130				
Styrene	0.020	0.0050	0.02	0	101	72 - 126				
Tetrachloroethene	0.020	0.0050	0.02	0	97.5	76 - 119				
Toluene	0.018	0.0050	0.02	0	90.0	77 - 118				
trans-1,2-Dichloroethene	0.022	0.0050	0.02	0	112	72 - 127				
trans-1,3-Dichloropropene	0.017	0.0050	0.02	0	85.7	77 - 119				
trans-1,4-Dichloro-2-butene	0.018	0.0050	0.02	0	91.0	70 - 126				
Trichloroethene	0.018	0.0050	0.02	0	88.5	77 - 121				
Trichlorofluoromethane	0.020	0.0050	0.02	0	99.3	70 - 130				
Vinyl acetate	0.041	0.010	0.04	0	104	70 - 130				
Vinyl chloride	0.021	0.0020	0.02	0	104	70 - 130				
Xylenes, Total	0.058	0.0050	0.06	0	96.4	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.049</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>97.6</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.050</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>101</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.049</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>97.6</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.051</i>	<i>0.0050</i>	<i>0.05</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>				

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198425 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
MS	Sample ID: HS23071877-01MS	Units: mg/L			Analysis Date: 03-Aug-2023 11:33					
Client ID:	Run ID: VOA11_443147	SeqNo: 7471155	PrepDate: 02-Aug-2023	DF: 20						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.40	0.10	0.4	0	99.3	70 - 120				
1,1,1-Trichloroethane	0.38	0.10	0.4	0	94.9	70 - 130				
1,1,2,2-Tetrachloroethane	0.37	0.10	0.4	0	91.8	70 - 123				
1,1,2-Trichloroethane	0.37	0.10	0.4	0	92.0	70 - 117				
1,1-Dichloroethane	0.38	0.10	0.4	0	94.0	70 - 127				
1,1-Dichloroethene	0.42	0.10	0.4	0	105	70 - 130				
1,2-Dibromoethane	0.37	0.10	0.4	0	91.7	70 - 124				
1,2-Dichlorobenzene	0.36	0.10	0.4	0	90.3	70 - 115				
1,2-Dichloroethane	0.37	0.10	0.4	0	92.8	70 - 127				
1,2-Dichloropropane	0.36	0.10	0.4	0	91.1	70 - 122				
1,3-Dichlorobenzene	0.37	0.10	0.4	0	92.6	70 - 119				
1,4-Dichlorobenzene	0.39	0.10	0.4	0	97.9	70 - 114				
1,4-Dioxane	6.2	2.0	8	0	77.1	60 - 154				
2-Butanone	0.73	0.20	0.8	0	90.8	70 - 130				
2-Chloro-1,3-butadiene	0.37	0.10	0.4	0	92.6	70 - 130				
2-Hexanone	0.69	0.20	0.8	0	86.4	70 - 130				
4-Methyl-2-pentanone	0.75	0.20	0.8	0	94.2	70 - 130				
Acetone	0.66	0.20	0.8	0	82.6	70 - 130				
Acetonitrile	3.7	1.0	4	0	93.1	70 - 130				
Acrolein	1.4	0.40	0.8	0	173	70 - 130				S
Acrylonitrile	0.73	0.20	0.8	0	91.6	70 - 130				
Allyl Chloride	0.36	0.20	0.4	0	91.0	70 - 130				
Benzene	0.39	0.10	0.4	0	98.4	70 - 127				
Bromodichloromethane	0.37	0.10	0.4	0	92.9	70 - 124				
Bromoform	0.32	0.10	0.4	0	81.1	70 - 129				
Bromomethane	0.43	0.10	0.4	0	107	70 - 130				
Carbon disulfide	0.70	0.20	0.8	0	88.1	70 - 130				
Carbon tetrachloride	0.37	0.10	0.4	0	93.2	70 - 130				
Chlorobenzene	0.38	0.10	0.4	0	93.9	70 - 114				
Chloroethane	0.40	0.10	0.4	0	100	70 - 130				
Chloroform	0.36	0.10	0.4	0	91.2	70 - 125				
Chloromethane	0.39	0.10	0.4	0	98.0	70 - 130				
cis-1,3-Dichloropropene	0.34	0.10	0.4	0	84.3	70 - 125				
Dibromochloromethane	0.33	0.10	0.4	0	83.0	70 - 124				

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: 198425 (0)		Instrument: VOA11		Method: TCLP VOLATILES BY SW8260C						
MS	Sample ID: HS23071877-01MS	Units: mg/L			Analysis Date: 03-Aug-2023 11:33					
Client ID:	Run ID: VOA11_443147	SeqNo: 7471155	PrepDate: 02-Aug-2023	DF: 20						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.36	0.10	0.4	0	89.8	70 - 124				
Dichlorodifluoromethane	0.52	0.10	0.4	0	130	70 - 130				
Ethyl methacrylate	0.32	0.10	0.4	0	80.8	70 - 130				
Ethylbenzene	0.39	0.10	0.4	0	98.4	70 - 124				
Iodomethane	0.84	0.20	0.8	0	105	70 - 130				
Isobutyl alcohol	5.9	2.0	8	0	73.9	70 - 130				
Methacrylonitrile	0.36	0.10	0.4	0	89.7	70 - 130				
Methyl methacrylate	0.38	0.10	0.4	0	94.4	73 - 139				
Methylene chloride	0.41	0.20	0.4	0	103	70 - 128				
Propionitrile	3.5	1.0	8	0	43.7	70 - 130				S
Styrene	0.40	0.10	0.4	0	100	70 - 130				
Tetrachloroethene	0.40	0.10	0.4	0	101	70 - 130				
Toluene	0.37	0.10	0.4	0	92.8	70 - 123				
trans-1,2-Dichloroethene	0.41	0.10	0.4	0	103	70 - 130				
trans-1,3-Dichloropropene	0.34	0.10	0.4	0	83.9	70 - 121				
trans-1,4-Dichloro-2-butene	0.33	0.10	0.4	0	82.6	70 - 130				
Trichloroethene	0.37	0.10	0.4	0	93.0	70 - 129				
Trichlorofluoromethane	0.42	0.10	0.4	0	105	70 - 130				
Vinyl acetate	0.72	0.20	0.8	0	89.8	70 - 130				
Vinyl chloride	0.44	0.040	0.4	0	110	70 - 130				
Xylenes, Total	1.2	0.10	1.2	0	97.9	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.95</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>95.4</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>1.0</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>102</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>1.00</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>99.9</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>1.00</i>	<i>0.10</i>	<i>1</i>	<i>0</i>	<i>99.6</i>	<i>82 - 127</i>				

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R442947 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKS1-080223	Units: mg/Kg		Analysis Date: 02-Aug-2023 08:53					
Client ID:	Run ID: VOA5_442947	SeqNo: 7466294		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,1,1,2-Tetrachloroethane	U	0.0050							
1,1,1-Trichloroethane	U	0.0050							
1,1,2,2-Tetrachloroethane	U	0.0050							
1,1,2-Trichloroethane	U	0.0050							
1,1-Dichloroethane	U	0.0050							
1,1-Dichloroethene	U	0.0050							
1,2-Dibromoethane	U	0.0050							
1,2-Dichlorobenzene	U	0.0050							
1,2-Dichloroethane	U	0.0050							
1,2-Dichloropropane	U	0.0050							
1,3-Dichlorobenzene	U	0.0050							
1,4-Dichlorobenzene	U	0.0050							
1,4-Dioxane	U	0.10							
2-Butanone	U	0.010							
2-Chloro-1,3-butadiene	U	0.0050							
2-Hexanone	U	0.010							
4-Methyl-2-pentanone	U	0.010							
Acetone	U	0.020							
Acetonitrile	U	0.050							
Acrolein	U	0.020							
Acrylonitrile	U	0.010							
Allyl Chloride	U	0.010							
Benzene	U	0.0050							
Bromodichloromethane	U	0.0050							
Bromoform	U	0.0050							
Bromomethane	U	0.010							
Carbon disulfide	U	0.010							
Carbon tetrachloride	U	0.0050							
Chlorobenzene	U	0.0050							
Chloroethane	U	0.010							
Chloroform	U	0.0050							
Chloromethane	U	0.010							
cis-1,3-Dichloropropene	U	0.0050							
Dibromochloromethane	U	0.0050							

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Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R442947 (0)	Instrument: VOA5	Method: VOLATILES BY SW8260C
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MBLK	Sample ID: VBLKS1-080223	Units: mg/Kg			Analysis Date: 02-Aug-2023 08:53					
Client ID:	Run ID: VOA5_442947	SeqNo: 7466294	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	U	0.0050								
Dichlorodifluoromethane	U	0.0050								
Ethyl methacrylate	U	0.0050								
Ethylbenzene	U	0.0050								
Iodomethane	U	0.010								
Isobutyl alcohol	U	0.10								
Methacrylonitrile	U	0.0050								
Methyl methacrylate	U	0.0050								
Methylene chloride	U	0.010								
Propionitrile	U	0.050								
Styrene	U	0.0050								
Tetrachloroethene	U	0.0050								
Toluene	U	0.0050								
trans-1,2-Dichloroethene	U	0.0050								
trans-1,3-Dichloropropene	U	0.0050								
trans-1,4-Dichloro-2-butene	U	0.0050								
Trichloroethene	U	0.0050								
Trichlorofluoromethane	U	0.0050								
Vinyl acetate	U	0.010								
Vinyl chloride	U	0.0050								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>89.3</i>	<i>76 - 125</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.047</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>94.1</i>	<i>80 - 120</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.045</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>89.5</i>	<i>80 - 119</i>				
<i>Surr: Toluene-d8</i>	<i>0.052</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>104</i>	<i>81 - 118</i>				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R442947 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
LCS	Sample ID: VLCSS1-080223	Units: mg/Kg			Analysis Date: 02-Aug-2023 08:11					
Client ID:	Run ID: VOA5_442947	SeqNo: 7466293		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.045	0.0050	0.05	0	90.8	79 - 121				
1,1,1-Trichloroethane	0.053	0.0050	0.05	0	106	72 - 130				
1,1,2,2-Tetrachloroethane	0.047	0.0050	0.05	0	93.1	71 - 124				
1,1,2-Trichloroethane	0.051	0.0050	0.05	0	102	78 - 117				
1,1-Dichloroethane	0.051	0.0050	0.05	0	101	76 - 128				
1,1-Dichloroethene	0.053	0.0050	0.05	0	107	72 - 130				
1,2-Dibromoethane	0.047	0.0050	0.05	0	94.3	78 - 120				
1,2-Dichlorobenzene	0.051	0.0050	0.05	0	102	79 - 121				
1,2-Dichloroethane	0.045	0.0050	0.05	0	89.1	77 - 120				
1,2-Dichloropropane	0.050	0.0050	0.05	0	100.0	77 - 121				
1,3-Dichlorobenzene	0.053	0.0050	0.05	0	106	78 - 121				
1,4-Dichlorobenzene	0.051	0.0050	0.05	0	101	78 - 120				
1,4-Dioxane	0.90	0.10	1	0	89.7	64 - 135				
2-Butanone	0.090	0.010	0.1	0	90.1	70 - 128				
2-Chloro-1,3-butadiene	0.048	0.0050	0.05	0	95.6	72 - 126				
2-Hexanone	0.086	0.010	0.1	0	85.9	72 - 127				
4-Methyl-2-pentanone	0.092	0.010	0.1	0	91.7	70 - 128				
Acetone	0.080	0.020	0.1	0	79.6	70 - 130				
Acetonitrile	0.48	0.050	0.5	0	95.5	70 - 130				
Acrolein	0.096	0.020	0.1	0	95.5	76 - 120				
Acrylonitrile	0.096	0.010	0.1	0	95.9	72 - 126				
Allyl Chloride	0.046	0.010	0.05	0	93.0	72 - 130				
Benzene	0.051	0.0050	0.05	0	102	75 - 124				
Bromodichloromethane	0.042	0.0050	0.05	0	83.6	78 - 122				
Bromoform	0.043	0.0050	0.05	0	85.3	74 - 120				
Bromomethane	0.049	0.010	0.05	0	98.1	70 - 130				
Carbon disulfide	0.098	0.010	0.1	0	98.0	70 - 122				
Carbon tetrachloride	0.044	0.0050	0.05	0	87.2	72 - 128				
Chlorobenzene	0.052	0.0050	0.05	0	104	78 - 122				
Chloroethane	0.052	0.010	0.05	0	103	70 - 130				
Chloroform	0.049	0.0050	0.05	0	98.7	73 - 127				
Chloromethane	0.041	0.010	0.05	0	82.9	70 - 130				
cis-1,3-Dichloropropene	0.045	0.0050	0.05	0	89.9	78 - 122				
Dibromochloromethane	0.054	0.0050	0.05	0	108	78 - 120				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

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Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R442947 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
LCS	Sample ID: VLCSS1-080223	Units: mg/Kg			Analysis Date: 02-Aug-2023 08:11					
Client ID:	Run ID: VOA5_442947	SeqNo: 7466293		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.049	0.0050	0.05	0	97.8	78 - 120				
Dichlorodifluoromethane	0.046	0.0050	0.05	0	91.9	70 - 130				
Ethyl methacrylate	0.044	0.0050	0.05	0	87.2	72 - 128				
Ethylbenzene	0.055	0.0050	0.05	0	111	70 - 123				
Iodomethane	0.099	0.010	0.1	0	98.7	72 - 130				
Isobutyl alcohol	0.99	0.10	1	0	99.4	60 - 136				
Methacrylonitrile	0.043	0.0050	0.05	0	86.7	69 - 131				
Methyl methacrylate	0.042	0.0050	0.05	0	84.6	73 - 122				
Methylene chloride	0.047	0.010	0.05	0	94.6	71 - 125				
Propionitrile	0.47	0.050	0.5	0	94.3	67 - 135				
Styrene	0.049	0.0050	0.05	0	98.5	80 - 123				
Tetrachloroethene	0.055	0.0050	0.05	0	111	70 - 130				
Toluene	0.050	0.0050	0.05	0	99.1	76 - 122				
trans-1,2-Dichloroethene	0.049	0.0050	0.05	0	97.8	75 - 128				
trans-1,3-Dichloropropene	0.047	0.0050	0.05	0	93.5	75 - 123				
trans-1,4-Dichloro-2-butene	0.049	0.0050	0.05	0	97.3	70 - 127				
Trichloroethene	0.053	0.0050	0.05	0	107	78 - 125				
Trichlorofluoromethane	0.052	0.0050	0.05	0	104	70 - 130				
Vinyl acetate	0.095	0.010	0.1	0	94.9	70 - 130				
Vinyl chloride	0.050	0.0050	0.05	0	101	70 - 130				
Surr: 1,2-Dichloroethane-d4	0.046	0	0.05	0	91.0	76 - 125				
Surr: 4-Bromofluorobenzene	0.051	0	0.05	0	102	80 - 120				
Surr: Dibromofluoromethane	0.048	0	0.05	0	96.9	80 - 119				
Surr: Toluene-d8	0.051	0	0.05	0	101	81 - 118				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R442947 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MS	Sample ID: HS23080085-01MS	Units: mg/Kg			Analysis Date: 02-Aug-2023 12:06					
Client ID:	Run ID: VOA5_442947	SeqNo: 7466681		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.038	0.0048	0.048	0	79.3	70 - 130				
1,1,1-Trichloroethane	0.049	0.0048	0.048	0	103	70 - 130				
1,1,2,2-Tetrachloroethane	0.041	0.0048	0.048	0	84.6	70 - 130				
1,1,2-Trichloroethane	0.045	0.0048	0.048	0	93.6	70 - 130				
1,1-Dichloroethane	0.046	0.0048	0.048	0	96.9	70 - 130				
1,1-Dichloroethene	0.049	0.0048	0.048	0	102	70 - 130				
1,2-Dibromoethane	0.040	0.0048	0.048	0	83.8	70 - 120				
1,2-Dichlorobenzene	0.042	0.0048	0.048	0	88.2	70 - 130				
1,2-Dichloroethane	0.038	0.0048	0.048	0	79.5	70 - 130				
1,2-Dichloropropane	0.044	0.0048	0.048	0	92.3	70 - 130				
1,3-Dichlorobenzene	0.043	0.0048	0.048	0	89.6	70 - 130				
1,4-Dichlorobenzene	0.042	0.0048	0.048	0	86.9	70 - 130				
1,4-Dioxane	0.82	0.096	0.96	0	85.3	64 - 135				
2-Butanone	0.081	0.0096	0.096	0	84.3	70 - 130				
2-Chloro-1,3-butadiene	0.041	0.0048	0.048	0	84.5	72 - 126				
2-Hexanone	0.072	0.0096	0.096	0	75.0	70 - 130				
4-Methyl-2-pentanone	0.086	0.0096	0.096	0	89.9	70 - 128				
Acetone	0.064	0.019	0.096	0	67.1	70 - 130				S
Acetonitrile	0.38	0.048	0.48	0	78.5	70 - 130				
Acrolein	0.088	0.019	0.096	0	91.4	70 - 130				
Acrylonitrile	0.081	0.0096	0.096	0	84.7	70 - 130				
Allyl Chloride	0.042	0.0096	0.048	0	88.3	72 - 130				
Benzene	0.045	0.0048	0.048	0	93.8	70 - 130				
Bromodichloromethane	0.035	0.0048	0.048	0	73.0	70 - 130				
Bromoform	0.035	0.0048	0.048	0	72.7	70 - 130				
Bromomethane	0.049	0.0096	0.048	0	103	70 - 130				
Carbon disulfide	0.085	0.0096	0.096	0	89.0	70 - 130				
Carbon tetrachloride	0.036	0.0048	0.048	0	74.0	70 - 130				
Chlorobenzene	0.044	0.0048	0.048	0	92.0	70 - 130				
Chloroethane	0.052	0.0096	0.048	0	109	70 - 130				
Chloroform	0.044	0.0048	0.048	0	91.3	70 - 130				
Chloromethane	0.046	0.0096	0.048	0	94.8	70 - 130				
cis-1,3-Dichloropropene	0.040	0.0048	0.048	0	83.4	70 - 130				
Dibromochloromethane	0.043	0.0048	0.048	0	88.9	70 - 130				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R442947 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MS	Sample ID: HS23080085-01MS	Units: mg/Kg			Analysis Date: 02-Aug-2023 12:06					
Client ID:	Run ID: VOA5_442947	SeqNo: 7466681		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.041	0.0048	0.048	0	85.1	70 - 130				
Dichlorodifluoromethane	0.041	0.0048	0.048	0	86.3	70 - 130				
Ethyl methacrylate	0.040	0.0048	0.048	0	83.6	72 - 128				
Ethylbenzene	0.046	0.0048	0.048	0	94.8	70 - 130				
Iodomethane	0.077	0.0096	0.096	0	80.7	65 - 135				
Isobutyl alcohol	0.82	0.096	0.96	0	85.2	60 - 136				
Methacrylonitrile	0.039	0.0048	0.048	0	81.6	69 - 131				
Methyl methacrylate	0.037	0.0048	0.048	0	78.1	73 - 122				
Methylene chloride	0.043	0.0096	0.048	0	90.0	70 - 130				
Propionitrile	0.41	0.048	0.48	0	86.3	67 - 135				
Styrene	0.042	0.0048	0.048	0	87.4	70 - 130				
Tetrachloroethene	0.044	0.0048	0.048	0	91.1	70 - 130				
Toluene	0.043	0.0048	0.048	0	89.9	70 - 130				
trans-1,2-Dichloroethene	0.045	0.0048	0.048	0	93.7	70 - 130				
trans-1,3-Dichloropropene	0.041	0.0048	0.048	0	85.3	70 - 130				
trans-1,4-Dichloro-2-butene	0.045	0.0048	0.048	0	93.0	70 - 130				
Trichloroethene	0.048	0.0048	0.048	0	101	70 - 130				
Trichlorofluoromethane	0.045	0.0048	0.048	0	93.7	70 - 130				
Vinyl acetate	0.089	0.0096	0.096	0	92.5	70 - 130				
Vinyl chloride	0.056	0.0048	0.048	0	116	70 - 130				
Surr: 1,2-Dichloroethane-d4	0.043	0	0.048	0	88.8	70 - 126				
Surr: 4-Bromofluorobenzene	0.049	0	0.048	0	101	70 - 130				
Surr: Dibromofluoromethane	0.047	0	0.048	0	97.8	70 - 130				
Surr: Toluene-d8	0.049	0	0.048	0	103	70 - 130				

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R442947 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C							
MSD	Sample ID: HS23080085-01MSD	Units: mg/Kg			Analysis Date: 02-Aug-2023 12:27						
Client ID:	Run ID: VOA5_442947	SeqNo: 7466682		PrepDate:		DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1,2-Tetrachloroethane	0.033	0.0048	0.0475	0	69.4	70 - 130	0.03805	14.3	30	S	
1,1,1-Trichloroethane	0.041	0.0048	0.0475	0	86.5	70 - 130	0.04921	18	30		
1,1,2,2-Tetrachloroethane	0.035	0.0048	0.0475	0	73.8	70 - 130	0.04061	14.8	30		
1,1,2-Trichloroethane	0.037	0.0048	0.0475	0	77.7	70 - 130	0.04493	19.6	30		
1,1-Dichloroethane	0.040	0.0048	0.0475	0	83.6	70 - 130	0.04650	15.8	30		
1,1-Dichloroethene	0.041	0.0048	0.0475	0	85.9	70 - 130	0.04892	18.1	30		
1,2-Dibromoethane	0.035	0.0048	0.0475	0	73.1	70 - 120	0.04024	14.6	30		
1,2-Dichlorobenzene	0.034	0.0048	0.0475	0	71.6	70 - 130	0.04233	21.8	30		
1,2-Dichloroethane	0.033	0.0048	0.0475	0	69.4	70 - 130	0.03815	14.6	30	S	
1,2-Dichloropropane	0.038	0.0048	0.0475	0	80.2	70 - 130	0.04433	15.1	30		
1,3-Dichlorobenzene	0.034	0.0048	0.0475	0	72.0	70 - 130	0.04301	22.8	30		
1,4-Dichlorobenzene	0.034	0.0048	0.0475	0	70.8	70 - 130	0.04172	21.5	30		
1,4-Dioxane	0.86	0.095	0.95	0	90.4	64 - 135	0.8185	4.84	30		
2-Butanone	0.082	0.0095	0.095	0	86.6	70 - 130	0.08089	1.69	30		
2-Chloro-1,3-butadiene	0.035	0.0048	0.0475	0	73.3	72 - 126	0.04054	15.2	30		
2-Hexanone	0.069	0.0095	0.095	0	72.1	70 - 130	0.07195	4.87	30		
4-Methyl-2-pentanone	0.078	0.0095	0.095	0	82.2	70 - 128	0.08635	10	30		
Acetone	0.066	0.019	0.095	0	69.1	70 - 130	0.06441	1.96	30	S	
Acetonitrile	0.31	0.048	0.475	0	66.0	70 - 130	0.3770	18.4	30	S	
Acrolein	0.081	0.019	0.095	0	84.9	70 - 130	0.08776	8.42	30		
Acrylonitrile	0.070	0.0095	0.095	0	73.6	70 - 130	0.08135	15.2	30		
Allyl Chloride	0.037	0.0095	0.0475	0	77.2	72 - 130	0.04239	14.5	30		
Benzene	0.038	0.0048	0.0475	0	80.3	70 - 130	0.04504	16.6	30		
Bromodichloromethane	0.030	0.0048	0.0475	0	64.1	70 - 130	0.03503	13.9	30	S	
Bromoform	0.030	0.0048	0.0475	0	63.3	70 - 130	0.03491	14.8	30	S	
Bromomethane	0.037	0.0095	0.0475	0	76.9	70 - 130	0.04927	29.7	30		
Carbon disulfide	0.074	0.0095	0.095	0	77.4	70 - 130	0.08544	14.9	30		
Carbon tetrachloride	0.030	0.0048	0.0475	0	63.9	70 - 130	0.03550	15.6	30	S	
Chlorobenzene	0.036	0.0048	0.0475	0	76.8	70 - 130	0.04418	19.1	30		
Chloroethane	0.041	0.0095	0.0475	0	86.8	70 - 130	0.05218	23.4	30		
Chloroform	0.036	0.0048	0.0475	0	76.7	70 - 130	0.04382	18.4	30		
Chloromethane	0.040	0.0095	0.0475	0	85.0	70 - 130	0.04551	12	30		
cis-1,3-Dichloropropene	0.034	0.0048	0.0475	0	72.4	70 - 130	0.04002	15.1	30		
Dibromochloromethane	0.035	0.0048	0.0475	0	74.1	70 - 130	0.04266	19.2	30		

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R442947 (0)		Instrument: VOA5		Method: VOLATILES BY SW8260C						
MSD	Sample ID: HS23080085-01MSD	Units: mg/Kg			Analysis Date: 02-Aug-2023 12:27					
Client ID:	Run ID: VOA5_442947	SeqNo: 7466682		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.035	0.0048	0.0475	0	72.9	70 - 130	0.04084	16.5	30	
Dichlorodifluoromethane	0.035	0.0048	0.0475	0	73.3	70 - 130	0.04144	17.4	30	
Ethyl methacrylate	0.033	0.0048	0.0475	0	70.1	72 - 128	0.04013	18.6	30	S
Ethylbenzene	0.037	0.0048	0.0475	0	78.7	70 - 130	0.04552	19.6	30	
Iodomethane	0.072	0.0095	0.095	0	75.9	65 - 135	0.07745	7.15	30	
Isobutyl alcohol	0.75	0.095	0.95	0	78.8	60 - 136	0.8179	8.8	30	
Methacrylonitrile	0.034	0.0048	0.0475	0	70.8	69 - 131	0.03918	15.2	30	
Methyl methacrylate	0.039	0.0048	0.0475	0	81.7	73 - 122	0.03749	3.43	30	
Methylene chloride	0.038	0.0095	0.0475	0	79.7	70 - 130	0.04321	13.2	30	
Propionitrile	0.37	0.048	0.475	0	78.4	67 - 135	0.4142	10.7	30	
Styrene	0.035	0.0048	0.0475	0	74.0	70 - 130	0.04193	17.5	30	
Tetrachloroethene	0.034	0.0048	0.0475	0	72.6	70 - 130	0.04374	23.6	30	
Toluene	0.035	0.0048	0.0475	0	74.5	70 - 130	0.04316	19.8	30	
trans-1,2-Dichloroethene	0.038	0.0048	0.0475	0	79.4	70 - 130	0.04497	17.5	30	
trans-1,3-Dichloropropene	0.036	0.0048	0.0475	0	76.4	70 - 130	0.04096	12.1	30	
trans-1,4-Dichloro-2-butene	0.039	0.0048	0.0475	0	82.7	70 - 130	0.04464	12.8	30	
Trichloroethene	0.040	0.0048	0.0475	0	84.0	70 - 130	0.04839	19.3	30	
Trichlorofluoromethane	0.038	0.0048	0.0475	0	79.2	70 - 130	0.04498	17.8	30	
Vinyl acetate	0.076	0.0095	0.095	0	80.1	70 - 130	0.08876	15.4	30	
Vinyl chloride	0.046	0.0048	0.0475	0	95.8	70 - 130	0.05588	20.5	30	
Surr: 1,2-Dichloroethane-d4	0.044	0	0.0475	0	92.7	70 - 126	0.04262	3.24	30	
Surr: 4-Bromofluorobenzene	0.048	0	0.0475	0	100	70 - 130	0.04862	1.99	30	
Surr: Dibromofluoromethane	0.048	0	0.0475	0	100	70 - 130	0.04694	1.62	30	
Surr: Toluene-d8	0.049	0	0.0475	0	103	70 - 130	0.04933	0.908	30	

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443044 (0)	Instrument: VOA10	Method: VOLATILES BY SW8260C
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MBLK	Sample ID: VBLKM-230802	Units: mg/Kg	Analysis Date: 02-Aug-2023 09:59						
Client ID:	Run ID: VOA10_443044	SeqNo: 7468774	PrepDate: DF: 50						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Ethylbenzene	U	0.25							
Xylenes, Total	U	0.75							
Surr: 1,2-Dichloroethane-d4	3.0	0	2.5	0	119	76 - 125			
Surr: 4-Bromofluorobenzene	2.4	0	2.5	0	95.2	80 - 120			
Surr: Dibromofluoromethane	2.6	0	2.5	0	104	80 - 119			
Surr: Toluene-d8	2.5	0	2.5	0	102	81 - 118			

LCS	Sample ID: VLCSW-230802	Units: ug/L	Analysis Date: 02-Aug-2023 09:38						
Client ID:	Run ID: VOA10_443044	SeqNo: 7468770	PrepDate: DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Ethylbenzene	17.71	1.0	20	0	88.5	77 - 117			
Xylenes, Total	53.33	3.0	60	0	88.9	75 - 122			
Surr: 1,2-Dichloroethane-d4	59.15	1.0	50	0	118	70 - 123			
Surr: 4-Bromofluorobenzene	49.39	1.0	50	0	98.8	77 - 113			
Surr: Dibromofluoromethane	54.75	1.0	50	0	109	73 - 126			
Surr: Toluene-d8	53.09	1.0	50	0	106	81 - 120			

MS	Sample ID: HS23071906-01MS	Units: ug/L	Analysis Date: 02-Aug-2023 11:23						
Client ID:	Run ID: VOA10_443044	SeqNo: 7468772	PrepDate: DF: 20						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Ethylbenzene	353.6	20	400	0	88.4	70 - 124			
Xylenes, Total	1043	60	1200	0	87.0	70 - 130			
Surr: 1,2-Dichloroethane-d4	1147	20	1000	0	115	70 - 126			
Surr: 4-Bromofluorobenzene	939.9	20	1000	0	94.0	77 - 113			
Surr: Dibromofluoromethane	1067	20	1000	0	107	77 - 123			
Surr: Toluene-d8	1028	20	1000	0	103	82 - 127			

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443044 (0) **Instrument:** VOA10 **Method:** VOLATILES BY SW8260C

MSD		Sample ID: HS23071906-01MSD			Units: ug/L		Analysis Date: 02-Aug-2023 11:44			
Client ID:		Run ID: VOA10_443044			SeqNo: 7468773		PrepDate:		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	360.5	20	400	0	90.1	70 - 124	353.6	1.96	20	
Xylenes, Total	1074	60	1200	0	89.5	70 - 130	1043	2.85	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1180</i>	<i>20</i>	<i>1000</i>	<i>0</i>	<i>118</i>	<i>70 - 126</i>	<i>1147</i>	<i>2.85</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>937.5</i>	<i>20</i>	<i>1000</i>	<i>0</i>	<i>93.8</i>	<i>77 - 113</i>	<i>939.9</i>	<i>0.25</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1062</i>	<i>20</i>	<i>1000</i>	<i>0</i>	<i>106</i>	<i>77 - 123</i>	<i>1067</i>	<i>0.528</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>1055</i>	<i>20</i>	<i>1000</i>	<i>0</i>	<i>106</i>	<i>82 - 127</i>	<i>1028</i>	<i>2.57</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS23071844-01	HS23071844-02
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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443066 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-230802	Units: mg/L			Analysis Date: 02-Aug-2023 23:56				
Client ID:	Run ID: VOA9_443066	SeqNo: 7469248		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,1,1,2-Tetrachloroethane	U	0.0050							
1,1,1-Trichloroethane	U	0.0050							
1,1,2,2-Tetrachloroethane	U	0.0050							
1,1,2-Trichloroethane	U	0.0050							
1,1-Dichloroethane	U	0.0050							
1,1-Dichloroethene	U	0.0050							
1,2-Dibromoethane	U	0.0050							
1,2-Dichlorobenzene	U	0.0050							
1,2-Dichloroethane	U	0.0050							
1,2-Dichloropropane	U	0.0050							
1,3-Dichlorobenzene	U	0.0050							
1,4-Dichlorobenzene	U	0.0050							
1,4-Dioxane	U	0.010							
2-Butanone	U	0.010							
2-Chloro-1,3-butadiene	U	0.0050							
2-Hexanone	U	0.010							
4-Methyl-2-pentanone	U	0.010							
Acetone	U	0.010							
Acetonitrile	U	0.050							
Acrolein	U	0.020							
Acrylonitrile	U	0.010							
Allyl Chloride	U	0.010							
Benzene	U	0.0050							
Bromodichloromethane	U	0.0050							
Bromoform	U	0.0050							
Bromomethane	U	0.0050							
Carbon disulfide	U	0.010							
Carbon tetrachloride	U	0.0050							
Chlorobenzene	U	0.0050							
Chloroethane	U	0.0050							
Chloroform	U	0.0050							
Chloromethane	U	0.0050							
cis-1,3-Dichloropropene	U	0.0050							
Dibromochloromethane	U	0.0050							

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443066 (0) **Instrument:** VOA9 **Method:** VOLATILES - SW8260C

MBLK Sample ID: **VBLKW-230802** Units: **mg/L** Analysis Date: **02-Aug-2023 23:56**
 Client ID: Run ID: **VOA9_443066** SeqNo: **7469248** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Dibromomethane	U	0.0050								
Dichlorodifluoromethane	U	0.0050								
Ethyl methacrylate	U	0.0050								
Ethylbenzene	U	0.0050								
Iodomethane	U	0.010								
Isobutyl alcohol	U	0.10								
Methacrylonitrile	U	0.0050								
Methyl methacrylate	U	0.0050								
Methylene chloride	U	0.010								
Propionitrile	U	0.050								
Styrene	U	0.0050								
Tetrachloroethene	U	0.0050								
Toluene	U	0.0050								
trans-1,2-Dichloroethene	U	0.0050								
trans-1,3-Dichloropropene	U	0.0050								
trans-1,4-Dichloro-2-butene	U	0.0050								
Trichloroethene	U	0.0050								
Trichlorofluoromethane	U	0.0050								
Vinyl acetate	U	0.010								
Vinyl chloride	U	0.0020								
Xylenes, Total	U	0.015								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.056</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>112</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.048</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>95.0</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>101</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.053</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>106</i>	<i>81 - 120</i>				

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443066 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
LCS	Sample ID: VLCSW-230802	Units: mg/L			Analysis Date: 02-Aug-2023 23:12					
Client ID:	Run ID: VOA9_443066	SeqNo: 7469247	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.019	0.0050	0.02	0	94.9	77 - 118				
1,1,1-Trichloroethane	0.022	0.0050	0.02	0	109	70 - 130				
1,1,2,2-Tetrachloroethane	0.017	0.0050	0.02	0	83.2	70 - 120				
1,1,2-Trichloroethane	0.019	0.0050	0.02	0	94.0	77 - 113				
1,1-Dichloroethane	0.021	0.0050	0.02	0	103	71 - 122				
1,1-Dichloroethene	0.021	0.0050	0.02	0	104	70 - 130				
1,2-Dibromoethane	0.019	0.0050	0.02	0	97.0	76 - 123				
1,2-Dichlorobenzene	0.020	0.0050	0.02	0	98.7	77 - 113				
1,2-Dichloroethane	0.021	0.0050	0.02	0	106	70 - 124				
1,2-Dichloropropane	0.020	0.0050	0.02	0	97.7	72 - 119				
1,3-Dichlorobenzene	0.020	0.0050	0.02	0	99.4	78 - 118				
1,4-Dichlorobenzene	0.019	0.0050	0.02	0	93.4	79 - 113				
1,4-Dioxane	0.35	0.010	0.4	0	88.5	60 - 154				
2-Butanone	0.042	0.010	0.04	0	105	70 - 130				
2-Chloro-1,3-butadiene	0.023	0.0050	0.02	0	117	70 - 130				
2-Hexanone	0.041	0.010	0.04	0	104	70 - 130				
4-Methyl-2-pentanone	0.039	0.010	0.04	0	97.0	70 - 130				
Acetone	0.057	0.010	0.04	0	143	70 - 130				S
Acetonitrile	0.21	0.050	0.2	0	105	70 - 130				
Acrolein	0.034	0.020	0.04	0	84.7	70 - 130				
Acrylonitrile	0.040	0.010	0.04	0	101	70 - 130				
Allyl Chloride	0.020	0.010	0.02	0	99.0	70 - 130				
Benzene	0.020	0.0050	0.02	0	99.6	74 - 120				
Bromodichloromethane	0.019	0.0050	0.02	0	94.7	74 - 122				
Bromoform	0.018	0.0050	0.02	0	90.9	73 - 128				
Bromomethane	0.020	0.0050	0.02	0	101	70 - 130				
Carbon disulfide	0.040	0.010	0.04	0	101	70 - 130				
Carbon tetrachloride	0.021	0.0050	0.02	0	105	71 - 125				
Chlorobenzene	0.020	0.0050	0.02	0	101	76 - 113				
Chloroethane	0.019	0.0050	0.02	0	97.0	70 - 130				
Chloroform	0.021	0.0050	0.02	0	103	71 - 121				
Chloromethane	0.022	0.0050	0.02	0	108	70 - 129				
cis-1,3-Dichloropropene	0.018	0.0050	0.02	0	89.3	73 - 127				
Dibromochloromethane	0.019	0.0050	0.02	0	93.0	77 - 122				

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Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
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QC BATCH REPORT

Batch ID: R443066 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
LCS	Sample ID: VLCSW-230802	Units: mg/L			Analysis Date: 02-Aug-2023 23:12					
Client ID:	Run ID: VOA9_443066	SeqNo: 7469247	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.020	0.0050	0.02	0	102	78 - 121				
Dichlorodifluoromethane	0.021	0.0050	0.02	0	105	70 - 130				
Ethyl methacrylate	0.019	0.0050	0.02	0	95.6	65 - 135				
Ethylbenzene	0.021	0.0050	0.02	0	103	77 - 117				
Iodomethane	0.042	0.010	0.04	0	105	70 - 130				
Isobutyl alcohol	0.41	0.10	0.4	0	102	70 - 130				
Methacrylonitrile	0.019	0.0050	0.02	0	93.2	70 - 130				
Methyl methacrylate	0.020	0.0050	0.02	0	97.7	73 - 139				
Methylene chloride	0.021	0.010	0.02	0	105	70 - 127				
Propionitrile	0.21	0.050	0.2	0	105	70 - 130				
Styrene	0.022	0.0050	0.02	0	110	72 - 126				
Tetrachloroethene	0.020	0.0050	0.02	0	101	76 - 119				
Toluene	0.020	0.0050	0.02	0	102	77 - 118				
trans-1,2-Dichloroethene	0.020	0.0050	0.02	0	102	72 - 127				
trans-1,3-Dichloropropene	0.018	0.0050	0.02	0	90.4	77 - 119				
trans-1,4-Dichloro-2-butene	0.021	0.0050	0.02	0	106	70 - 126				
Trichloroethene	0.021	0.0050	0.02	0	105	77 - 121				
Trichlorofluoromethane	0.022	0.0050	0.02	0	112	70 - 130				
Vinyl acetate	0.035	0.010	0.04	0	87.2	70 - 130				
Vinyl chloride	0.019	0.0020	0.02	0	95.4	70 - 130				
Xylenes, Total	0.067	0.015	0.06	0	112	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.058</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>116</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.055</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>109</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.054</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>109</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>0.050</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>99.2</i>	<i>81 - 120</i>				

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ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443066 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MS	Sample ID: HS23071846-06MS	Units: mg/L			Analysis Date: 03-Aug-2023 02:33					
Client ID:	Run ID: VOA9_443066	SeqNo: 7469251	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.0084	0.0050	0.02	0	42.2	70 - 120				S
1,1,1-Trichloroethane	0.0096	0.0050	0.02	0	47.8	70 - 130				S
1,1,2,2-Tetrachloroethane	0.0081	0.0050	0.02	0	40.6	70 - 123				S
1,1,2-Trichloroethane	0.0086	0.0050	0.02	0	43.0	70 - 117				S
1,1-Dichloroethane	0.0088	0.0050	0.02	0	43.9	70 - 127				S
1,1-Dichloroethene	0.0088	0.0050	0.02	0	44.0	70 - 130				S
1,2-Dibromoethane	0.0086	0.0050	0.02	0	43.2	70 - 124				S
1,2-Dichlorobenzene	0.0087	0.0050	0.02	0	43.6	70 - 115				S
1,2-Dichloroethane	0.0098	0.0050	0.02	0	49.2	70 - 127				S
1,2-Dichloropropane	0.0088	0.0050	0.02	0	44.1	70 - 122				S
1,3-Dichlorobenzene	0.0088	0.0050	0.02	0	44.0	70 - 119				S
1,4-Dichlorobenzene	0.0085	0.0050	0.02	0	42.5	70 - 114				S
1,4-Dioxane	0.13	0.010	0.4	0	33.1	60 - 154				S
2-Butanone	0.015	0.010	0.04	0	36.5	70 - 130				S
2-Chloro-1,3-butadiene	0.0052	0.0050	0.02	0	26.1	70 - 130				S
2-Hexanone	0.016	0.010	0.04	0	40.0	70 - 130				S
4-Methyl-2-pentanone	0.016	0.010	0.04	0	40.4	70 - 130				S
Acetone	0.014	0.010	0.04	0	35.0	70 - 130				S
Acetonitrile	0.22	0.050	0.2	0	108	70 - 130				S
Acrolein	0.038	0.020	0.04	0	94.7	70 - 130				S
Acrylonitrile	0.036	0.010	0.04	0	89.7	70 - 130				S
Allyl Chloride	0.018	0.010	0.02	0	91.4	70 - 130				S
Benzene	0.0089	0.0050	0.02	0	44.3	70 - 127				S
Bromodichloromethane	0.0086	0.0050	0.02	0	43.2	70 - 124				S
Bromoform	0.0081	0.0050	0.02	0	40.3	70 - 129				S
Bromomethane	0.0078	0.0050	0.02	0	38.9	70 - 130				S
Carbon disulfide	0.016	0.010	0.04	0	40.9	70 - 130				S
Carbon tetrachloride	0.0088	0.0050	0.02	0	43.9	70 - 130				S
Chlorobenzene	0.0093	0.0050	0.02	0	46.4	70 - 114				S
Chloroethane	0.0082	0.0050	0.02	0	40.9	70 - 130				S
Chloroform	0.0093	0.0050	0.02	0	46.4	70 - 125				S
Chloromethane	0.0089	0.0050	0.02	0	44.6	70 - 130				S
cis-1,3-Dichloropropene	0.0086	0.0050	0.02	0	43.1	70 - 125				S
Dibromochloromethane	0.0079	0.0050	0.02	0	39.5	70 - 124				S

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443066 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C						
MS	Sample ID: HS23071846-06MS	Units: mg/L			Analysis Date: 03-Aug-2023 02:33					
Client ID:	Run ID: VOA9_443066	SeqNo: 7469251	PrepDate:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Dibromomethane	0.0089	0.0050	0.02	0	44.3	70 - 124				S
Dichlorodifluoromethane	0.0084	0.0050	0.02	0	42.2	70 - 130				S
Ethyl methacrylate	0.019	0.0050	0.02	0	94.5	70 - 130				
Ethylbenzene	0.0094	0.0050	0.02	0	47.1	70 - 124				S
Iodomethane	0.019	0.010	0.04	0	46.7	70 - 130				S
Isobutyl alcohol	0.20	0.10	0.4	0	49.7	70 - 130				S
Methacrylonitrile	0.016	0.0050	0.02	0	78.0	70 - 130				
Methyl methacrylate	0.017	0.0050	0.02	0	86.8	73 - 139				
Methylene chloride	0.0084	0.010	0.02	0	41.9	70 - 128				JS
Propionitrile	0.18	0.050	0.4	0	44.8	70 - 130				S
Styrene	0.011	0.0050	0.02	0	54.1	70 - 130				S
Tetrachloroethene	0.011	0.0050	0.02	0	55.0	70 - 130				S
Toluene	0.0095	0.0050	0.02	0	47.5	70 - 123				S
trans-1,2-Dichloroethene	0.0085	0.0050	0.02	0	42.6	70 - 130				S
trans-1,3-Dichloropropene	0.0075	0.0050	0.02	0	37.4	70 - 121				S
trans-1,4-Dichloro-2-butene	0.0076	0.0050	0.02	0	38.2	70 - 130				S
Trichloroethene	0.013	0.0050	0.02	0.004322	44.9	70 - 129				S
Trichlorofluoromethane	0.011	0.0050	0.02	0	52.9	70 - 130				S
Vinyl acetate	0.020	0.010	0.04	0	49.1	70 - 130				S
Vinyl chloride	0.0078	0.0020	0.02	0	39.0	70 - 130				S
Xylenes, Total	0.030	0.015	0.06	0	49.9	70 - 130				S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.059</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>117</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.052</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>104</i>	<i>82 - 124</i>				
<i>Surr: Dibromofluoromethane</i>	<i>0.053</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>105</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>0.053</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>105</i>	<i>82 - 127</i>				

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443066 (0)		Instrument: VOA9			Method: VOLATILES - SW8260C						
MSD	Sample ID: HS23071846-06MSD	Units: mg/L			Analysis Date: 03-Aug-2023 02:56						
Client ID:	Run ID: VOA9_443066	SeqNo: 7469252	PrepDate:	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1,2-Tetrachloroethane	0.0086	0.0050	0.02	0	42.8	70 - 120	0.008445	1.27	20	S	
1,1,1-Trichloroethane	0.0092	0.0050	0.02	0	46.1	70 - 130	0.009567	3.76	20	S	
1,1,2,2-Tetrachloroethane	0.0078	0.0050	0.02	0	38.8	70 - 123	0.008117	4.45	20	S	
1,1,2-Trichloroethane	0.0083	0.0050	0.02	0	41.6	70 - 117	0.008601	3.43	20	S	
1,1-Dichloroethane	0.0082	0.0050	0.02	0	40.9	70 - 127	0.008776	7	20	S	
1,1-Dichloroethene	0.0085	0.0050	0.02	0	42.5	70 - 130	0.008793	3.27	20	S	
1,2-Dibromoethane	0.0088	0.0050	0.02	0	44.1	70 - 124	0.008632	2.24	20	S	
1,2-Dichlorobenzene	0.0085	0.0050	0.02	0	42.4	70 - 115	0.008729	2.94	20	S	
1,2-Dichloroethane	0.0099	0.0050	0.02	0	49.6	70 - 127	0.009846	0.716	20	S	
1,2-Dichloropropane	0.0082	0.0050	0.02	0	41.1	70 - 122	0.008825	7.21	20	S	
1,3-Dichlorobenzene	0.0088	0.0050	0.02	0	44.2	70 - 119	0.008806	0.313	20	S	
1,4-Dichlorobenzene	0.0085	0.0050	0.02	0	42.3	70 - 114	0.008496	0.308	20	S	
1,4-Dioxane	0.13	0.010	0.4	0	32.9	60 - 154	0.1326	0.62	20	S	
2-Butanone	0.015	0.010	0.04	0	38.0	70 - 130	0.01459	4.14	20	S	
2-Chloro-1,3-butadiene	0.0052	0.0050	0.02	0	26.2	70 - 130	0.005218	0.348	20	S	
2-Hexanone	0.017	0.010	0.04	0	41.6	70 - 130	0.01599	3.91	20	S	
4-Methyl-2-pentanone	0.017	0.010	0.04	0	41.6	70 - 130	0.01616	2.99	20	S	
Acetone	0.013	0.010	0.04	0	32.3	70 - 130	0.01401	8.18	20	S	
Acetonitrile	0.20	0.050	0.2	0	99.9	70 - 130	0.2162	7.83	20		
Acrolein	0.035	0.020	0.04	0	88.6	70 - 130	0.03787	6.59	20		
Acrylonitrile	0.035	0.010	0.04	0	86.8	70 - 130	0.03587	3.26	20		
Allyl Chloride	0.018	0.010	0.02	0	88.6	70 - 130	0.01828	3.1	20		
Benzene	0.0089	0.0050	0.02	0	44.5	70 - 127	0.008860	0.456	20	S	
Bromodichloromethane	0.0084	0.0050	0.02	0	42.0	70 - 124	0.008640	2.75	20	S	
Bromoform	0.0077	0.0050	0.02	0	38.5	70 - 129	0.008065	4.57	20	S	
Bromomethane	0.0071	0.0050	0.02	0	35.5	70 - 130	0.007786	9.12	20	S	
Carbon disulfide	0.015	0.010	0.04	0	38.4	70 - 130	0.01637	6.5	20	S	
Carbon tetrachloride	0.0087	0.0050	0.02	0	43.5	70 - 130	0.008789	1.13	20	S	
Chlorobenzene	0.0092	0.0050	0.02	0	46.2	70 - 114	0.009270	0.227	20	S	
Chloroethane	0.0078	0.0050	0.02	0	38.8	70 - 130	0.008178	5.3	20	S	
Chloroform	0.0089	0.0050	0.02	0	44.3	70 - 125	0.009280	4.55	20	S	
Chloromethane	0.0082	0.0050	0.02	0	41.1	70 - 130	0.008928	8.18	20	S	
cis-1,3-Dichloropropene	0.0083	0.0050	0.02	0	41.7	70 - 125	0.008618	3.23	20	S	
Dibromochloromethane	0.0080	0.0050	0.02	0	40.1	70 - 124	0.007892	1.68	20	S	

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443066 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C							
MSD	Sample ID: HS23071846-06MSD	Units: mg/L			Analysis Date: 03-Aug-2023 02:56						
Client ID:	Run ID: VOA9_443066	SeqNo: 7469252	PrepDate:	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Dibromomethane	0.0086	0.0050	0.02	0	43.2	70 - 124	0.008854	2.37	20	S	
Dichlorodifluoromethane	0.0077	0.0050	0.02	0	38.4	70 - 130	0.008430	9.28	20	S	
Ethyl methacrylate	0.018	0.0050	0.02	0	91.1	70 - 130	0.01889	3.63	20		
Ethylbenzene	0.0091	0.0050	0.02	0	45.6	70 - 124	0.009418	3.3	20	S	
Iodomethane	0.018	0.010	0.04	0	45.3	70 - 130	0.01868	3.1	20	S	
Isobutyl alcohol	0.19	0.10	0.4	0	48.7	70 - 130	0.1990	2.07	20	S	
Methacrylonitrile	0.018	0.0050	0.02	0	87.9	70 - 130	0.01559	11.9	20		
Methyl methacrylate	0.017	0.0050	0.02	0	86.2	73 - 139	0.01736	0.71	20		
Methylene chloride	0.0083	0.010	0.02	0	41.3	70 - 128	0.008388	0	20	JS	
Propionitrile	0.18	0.050	0.4	0	43.8	70 - 130	0.1794	2.38	20	S	
Styrene	0.0090	0.0050	0.02	0	45.0	70 - 130	0.01083	18.5	20	S	
Tetrachloroethene	0.011	0.0050	0.02	0	54.6	70 - 130	0.01100	0.827	20	S	
Toluene	0.0095	0.0050	0.02	0	47.4	70 - 123	0.009504	0.336	20	S	
trans-1,2-Dichloroethene	0.0079	0.0050	0.02	0	39.5	70 - 130	0.008530	7.57	20	S	
trans-1,3-Dichloropropene	0.0069	0.0050	0.02	0	34.5	70 - 121	0.007471	7.89	20	S	
trans-1,4-Dichloro-2-butene	0.0070	0.0050	0.02	0	35.2	70 - 130	0.007634	8.13	20	S	
Trichloroethene	0.013	0.0050	0.02	0.004322	41.5	70 - 129	0.01330	5.16	20	S	
Trichlorofluoromethane	0.0097	0.0050	0.02	0	48.6	70 - 130	0.01057	8.41	20	S	
Vinyl acetate	0.019	0.010	0.04	0	48.1	70 - 130	0.01966	2.18	20	S	
Vinyl chloride	0.0076	0.0020	0.02	0	38.1	70 - 130	0.007809	2.43	20	S	
Xylenes, Total	0.028	0.015	0.06	0	47.4	70 - 130	0.02995	5.21	20	S	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>0.058</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>116</i>	<i>70 - 126</i>	<i>0.05870</i>	<i>1.53</i>	<i>20</i>		
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.052</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>103</i>	<i>82 - 124</i>	<i>0.05200</i>	<i>0.647</i>	<i>20</i>		
<i>Surr: Dibromofluoromethane</i>	<i>0.052</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>104</i>	<i>77 - 123</i>	<i>0.05257</i>	<i>1.4</i>	<i>20</i>		
<i>Surr: Toluene-d8</i>	<i>0.054</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>107</i>	<i>82 - 127</i>	<i>0.05269</i>	<i>1.59</i>	<i>20</i>		

The following samples were analyzed in this batch: HS23071844-03

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198493 (0)	Instrument: UV-2450	Method: CYANIDE BY SW-846 9014
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MBLK	Sample ID: MBLK-198493	Units: mg/Kg	Analysis Date: 04-Aug-2023 15:00							
Client ID:	Run ID: UV-2450_443238	SeqNo: 7473151	PrepDate: 03-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Cyanide U 2.00

LCS	Sample ID: LCS-198493	Units: mg/Kg	Analysis Date: 04-Aug-2023 15:00							
Client ID:	Run ID: UV-2450_443238	SeqNo: 7473150	PrepDate: 03-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Cyanide 10.6 2.00 10 0 106 80 - 120

MS	Sample ID: HS23071844-01MS	Units: mg/Kg	Analysis Date: 04-Aug-2023 15:00							
Client ID: PTS-01-SL-20230727	Run ID: UV-2450_443238	SeqNo: 7473148	PrepDate: 03-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Cyanide 10.83 1.94 9.709 -0.198 114 75 - 125

MSD	Sample ID: HS23071844-01MSD	Units: mg/Kg	Analysis Date: 04-Aug-2023 15:00							
Client ID: PTS-01-SL-20230727	Run ID: UV-2450_443238	SeqNo: 7473149	PrepDate: 03-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Cyanide 10.98 1.96 9.804 -0.198 114 75 - 125 10.83 1.42 30

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198521 (0)	Instrument: WetChem_HS	Method: LEACHED SULFIDE
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MBLK	Sample ID: MBLK-198521	Units: mg/Kg	Analysis Date: 03-Aug-2023 15:00							
Client ID:	Run ID: WetChem_HS_443120	SeqNo: 7470784	PrepDate: 03-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide U 5.00

LCS	Sample ID: LCS-198521	Units: mg/Kg	Analysis Date: 03-Aug-2023 15:00							
Client ID:	Run ID: WetChem_HS_443120	SeqNo: 7470782	PrepDate: 03-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 108.4 5.00 125 0 86.7 70 - 130

LCSD	Sample ID: LCSD-198521	Units: mg/Kg	Analysis Date: 03-Aug-2023 15:00							
Client ID:	Run ID: WetChem_HS_443120	SeqNo: 7470783	PrepDate: 03-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 107.4 5.00 125 0 85.9 70 - 130 108.4 0.927 30

MS	Sample ID: HS23071844-01MS	Units: mg/Kg	Analysis Date: 03-Aug-2023 15:00							
Client ID: PTS-01-SL-20230727	Run ID: WetChem_HS_443120	SeqNo: 7470781	PrepDate: 03-Aug-2023 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Sulfide 107.4 5.00 125 -8.598 92.8 70 - 130

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: 198719 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK-198719** Units: **mg/Kg** Analysis Date: **10-Aug-2023 23:51**
 Client ID: Run ID: **ICS-Integrion_443736** SeqNo: **7485226** PrepDate: **09-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Fluoride U 1.00

LCS Sample ID: **LCS-198719** Units: **mg/Kg** Analysis Date: **10-Aug-2023 23:56**
 Client ID: Run ID: **ICS-Integrion_443736** SeqNo: **7485227** PrepDate: **09-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Fluoride 38.3 1.00 40 0 95.8 80 - 120

MS Sample ID: **HS23071871-01MS** Units: **mg/Kg** Analysis Date: **11-Aug-2023 00:08**
 Client ID: Run ID: **ICS-Integrion_443736** SeqNo: **7485229** PrepDate: **09-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Fluoride 18.45 0.998 19.96 2.842 78.2 80 - 120 S

MSD Sample ID: **HS23071871-01MSD** Units: **mg/Kg** Analysis Date: **11-Aug-2023 00:14**
 Client ID: Run ID: **ICS-Integrion_443736** SeqNo: **7485230** PrepDate: **09-Aug-2023** DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Fluoride 18.22 0.999 19.98 2.842 76.9 80 - 120 18.45 1.28 20 S

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443115 (0)		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS23071759-01DUP	Units: °F		Analysis Date: 02-Aug-2023 15:11					
Client ID:	Run ID: WetChem_HS_443115	SeqNo: 7470191	PrepDate:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Flash Point	> 212	50.0					0	0	30
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The following samples were analyzed in this batch:

HS23071844-01	HS23071844-02
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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443653 (0)	Instrument: Balance1	Method: MOISTURE - ASTM D2216
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DUP	Sample ID: HS23071871-02DUP	Units: wt%	Analysis Date: 09-Aug-2023 11:17						
Client ID:	Run ID: Balance1_443653	SeqNo: 7483262	PrepDate: DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Percent Moisture	21.2	0.0100	22.9	7.71	20
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The following samples were analyzed in this batch:

HS23071844-01	HS23071844-02
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Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443688 (0)		Instrument: WetChem_HS		Method: REACTIVE SULFIDE					
MBLK	Sample ID: MBLK-R443688	Units: mg/Kg		Analysis Date: 10-Aug-2023 14:49					
Client ID:	Run ID: WetChem_HS_443688	SeqNo: 7483713		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Sulfide U 100

LCS	Sample ID: LCS-R443688	Units: mg/Kg		Analysis Date: 10-Aug-2023 14:49					
Client ID:	Run ID: WetChem_HS_443688	SeqNo: 7483712		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Sulfide 64 100 100 0 64.0 20 - 120 J

MS	Sample ID: HS23080212-01MS	Units: mg/Kg		Analysis Date: 10-Aug-2023 14:49					
Client ID:	Run ID: WetChem_HS_443688	SeqNo: 7483714		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Reactive Sulfide 68 100 100 0 68.0 20 - 120 J

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443690 (0) **Instrument:** UV-2450 **Method:** REACTIVE CYANIDE

MBLK Sample ID: **MBLK-R443690** Units: **mg/Kg** Analysis Date: **10-Aug-2023 14:52**
 Client ID: Run ID: **UV-2450_443690** SeqNo: **7483733** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Reactive Cyanide U 100

LCS Sample ID: **LCS-R443690** Units: **mg/Kg** Analysis Date: **10-Aug-2023 14:52**
 Client ID: Run ID: **UV-2450_443690** SeqNo: **7483732** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Reactive Cyanide 0.61 100 10 0 6.10 5 - 100 J

MS Sample ID: **HS23080212-01MS** Units: **mg/Kg** Analysis Date: **10-Aug-2023 14:52**
 Client ID: Run ID: **UV-2450_443690** SeqNo: **7483734** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Reactive Cyanide 0.62 100 10 0 6.20 5 - 100 J

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

QC BATCH REPORT

Batch ID: R443694 (0) **Instrument:** WetChem_HS **Method:** PH SOIL BY SW9045D

DUP Sample ID: **HS23080230-08DUP** Units: **pH Units** Analysis Date: **10-Aug-2023 15:06**
 Client ID: Run ID: **WetChem_HS_443694** SeqNo: **7483820** PrepDate: DF: **1**
 Analyte Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

pH	8.58	0.100						8.58	0	10
Temp Deg C @pH	24.2	0						24	0.83	10

The following samples were analyzed in this batch: HS23071844-01 HS23071844-02

Revision: 1

ALS Houston, US

Date: 07-Nov-23

Client: Environmental Resources Mgmt.
Project: Preliminary Joliet Delisting
WorkOrder: HS23071844

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected
mg/L	Milligrams per Liter

CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 07-Nov-23

Sample Receipt Checklist

Work Order ID: HS23071844

Date/Time Received: **28-Jul-2023 09:50**

Client Name: ERMSW-HOU

Received by: **Corey Grandits**

Completed By: <u>/S/ Corey Grandits</u>	28-Jul-2023 17:03	Reviewed by: <u>/S/ Bernadette A. Fini</u>	30-Jul-2023 19:06
eSignature	Date/Time	eSignature	Date/Time

Matrices: **S/W**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	2 Page(s)
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	COC IDs:268136 , 268133
Samplers name present on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	1.7UC/1.6C IR31		
Cooler(s)/Kit(s):	49942		
Date/Time sample(s) sent to storage:	7/28/23		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 8300
Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 221 8900
Holland, MI
+1 616 399 6070

Chain of Custody Form
Electronic Filing: Received, Clerk's Office 04/28/2025

HS23071844

Environmental Resources Mgmt.
Preliminary Joliet Delisting

Page _____ of _____

COC ID: 268136



ALS Project Manager:

Customer Information		Project Information	
Purchase Order	0647752	Project Name	Preliminary Joliet Delisting
Work Order		Project Number	
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.
Send Report To	Cecilia Anderson	Invoice Attn	Accounts Payable
Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6	Address	CityCentre Four 840 W. Sam Houston Pkwy., Suite 6
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024
Phone	(281) 600-1000	Phone	(281) 600-1000
Fax	(281) 600-1001	Fax	(281) 600-1001
e-Mail Address	Cecilia.Anderson@erm.com	e-Mail Address	ERM.NA.accountsPayable@erm.com

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PTS-01-SL-20230727	7/27/23	8:45	S	Y/N	11	X	X	X	X	X	X	X	X	X	X	
2	Dup-01-SL-20230727	7/27/23	8:50	S	Y/N	11	X	X	X	X	X	X	X	X	X	X	
3	TB-01-SL-20230727	7/27/23	-	W	Y	2					X						
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign
Herdie Mulhall *Herdie Mulhall*

Shipment Method _____ **Required Turnaround Time: (Check Box)**
 STD 10 Wk Days 5 Wk Days 2 Wk Days 24 hour

Results Due Date: _____

Relinquished by: *Herdie Mulhall* **Date:** 7/27/23 **Time:** 11:21
Received by: *[Signature]* **Date:** 7/27/23/1124 **Time:** _____

Relinquished by: _____ **Date:** _____ **Time:** _____
Received by (Laboratory): _____ **Date:** 7-28-24 **Time:** 09:50

Logged by (Laboratory): _____ **Date:** _____ **Time:** _____
Checked by (Laboratory): _____

Notes: ERM Preliminary Joliet Delisting

Cooler ID: C19942 **Cooler Temp.:** 670

QC Package: (Check One Box Below)
 Level 2 S&C TPAW (Check that TPAW Level)
 Level 1 S&C/PAW/PAW TPAW Level
 Level 1 S&C/PAW TPAW Level

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5036

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Cincinnati, OH
+1 513 733 5135
Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 443 1111
Holland, MI
+1 616 399 6070

Chain of Custody Form
Electronic Filing: Received, Clerk's Office 04/28/2025

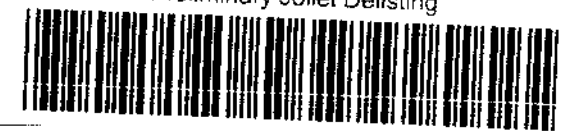
Page 2 of 2

Houston, TX
+1 281 530 5656
Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903
Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168
York, PA
+1 717 505 5280

COC ID: 268133


Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	0647752	Project Name	Preliminary Joliet Delisting	A	SUB_Herbicides (1,4,5-T (Silvex) 6151 ALS Kelso)											
Work Order		Project Number		B	SUB_DIOXINS/FURANS (Diox/Furans ALS High Res Lab)											
Company Name	Environmental Resources Mgmt.	Bill To Company	Environmental Resources Mgmt.	C												
Send Report To	Cecilia Anderson	Invoice Attn	Accounts Payable	D												
Address	CityCentre Four	Address	CityCentre Four	E	<p style="text-align: center;">HS23071844</p> <p style="text-align: center;">Environmental Resources Mgmt. Preliminary Joliet Delisting</p> 											
	840 W. Sam Houston Pkwy., Suite 6		840 W. Sam Houston Pkwy., Suite 6	F												
City/State/Zip	Houston, TX 77024	City/State/Zip	Houston TX 77024	G												
Phone	(281) 600-1000	Phone	(281) 600-1000	H												
Fax	(281) 600-1001	Fax	(281) 600-1001	I												
e-Mail Address	Cecilia.Anderson@erm.com	e-Mail Address	ERMNAAccountsPayable@erm.com	J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	PTS-01-SL-20230727	7/27/23	8:45	S	Y/N	11	X	X									
2	Dup-01-SL-20230727	7/27/23	8:50	S	Y/N	11	X	X									
3	TB-01-SL-20230727	7/27/23	—	W	Y	2											
4																	
5																	
6																	
7																	
8																	
9																	
10																	


Sampler(s) Please Print & Sign <i>Heidi Muthall</i>		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:				
Relinquished by: <i>Heidi Muthall</i>		Date: 7/27/23	Time: 11:21	Received by: <i>[Signature]</i>		Date: 7/21/23		Notes: ERM Preliminary Joliet Delisting				
Relinquished by:		Date:	Time:	Received by (Laboratory): <i>[Signature]</i>		Date: 7-28-23		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				<input checked="" type="checkbox"/>	Level II SW/CC	<input type="checkbox"/>	TERRA Client/Erst	
Preservative Key:		1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/>	Level III SW/CC/TS/Date	<input type="checkbox"/>	TERRA Client/Erst	
								<input type="checkbox"/>	Level IV SW/CC/TS/Date			

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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 Electronic Filing: Received 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5856 Fax. +1 281 530 5887	CUSTOMER SEAL Date: 7/28/23 Time: 11:20 Name: Heidi Mena Company: ExxonMobil		04/28/2025 Seal Broken By: SM Date: 07/28/23
	10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5856 Fax. +1 281 530 5887		07/28/23

10450 JUL 28 2023

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5856 Fax. +1 281 530 5887	CUSTOMER SEAL Date: 7/28/23 Time: 11:20 Name: Heidi Mena Company: ExxonMobil		Seal Broken By: SM Date: 07/28/23
	10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5856 Fax. +1 281 530 5887		07/28/23



10450

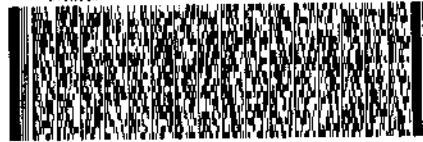
ORIGIN ID: SGRA <630> 395-1573
 HEIDI MULHALL
 EXXONMOBIL JOLLET REFINERY
 25815 S. FRONTAGE RD
 CHANNAHON, IL 60410
 UNITED STATES US

SHIP DATE: 19JUN23
 ACTWGT: 1.00 LB NNN
 CNO: 0221247/CAFES707
 DIMS: 26x14x14 IN

TO SHIPPING DEPT
 ALS LABORATORY GROUP
 10450 STANCLIFF RD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5856
 REF: JOLLET DELISTING = 80 93449 - BF

RMA: ||| ||| |||



FedEx
Express



FedEx
TX# 6230 3001 6102

FRI - 28 JUL 10:30A
 PRIORITY OVERNIGHT

AB SGRA

77099
 TX-US IAH





August 30, 2023

Service Request No:E2300700

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23071844

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory July 31, 2023
For your reference, these analyses have been assigned our service request number **E2300700**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental



Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client: ALS Environmental - US

Service Request: E2300700

Project: HS23071844

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2300700-001	PTS-01-SL-20230727	7/27/2023	0845
E2300700-002	DUP-01-SL-20230727	7/27/2023	0850

Electronic File Service Request Summary 04/28/2025

Folder #: E2300700
Client Name: ALS Environmental - US
Project Name: HS23071844
Project Number:
Report To: Bernadette Fini
 ALS Laboratory Group
 10450 Stancliff Road
 Houston, TX 77099-4338
 USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 07/31/23
Internal Due Date: 9/5/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23071844
EDD: EQUIS EFWEDD ERM
 Global High-res

4 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: EHRMS-WIC 6D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS	
				PCDD PCDF/8290A	Total Solids/ALS SOP
E2300700-001	PTS-01-SL-20230727	Soil	07/27/23 0845		
E2300700-002	DUP-01-SL-20230727	Soil	07/27/23 0850		

Folder #: E2300700
Client Name: ALS Environmental - US
Project Name: HS23071844
Project Number:
Report To: Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: bernadette.fini@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 07/31/23
Internal Due Date: 9/5/2023
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23071844
EDD: EQUIS EFWEDD ERM
Global High-res

4 4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: EHRMS-WIC 6D
Pressure Gas:

Data Qualifiers

HRMS Qualifier Set

- * Indicates the samples were extracted outside of the recommended holding time.
- B Indicates the associated analyte was found in the method blank at >1/10th the reported value.
- E Estimated value. The reported concentration is above the calibration range of the instrument.
- J Estimated value. The reported concentration is below the MRL.
- K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits. The concentration of this analyte should be considered as an estimate.
- P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
- Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.
- S Signal saturated detector. Result reported from dilution.
- U Compound was analyzed for, but was not detected (ND).
- X See Case Narrative.
- Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-noise ratios are greater than 10:1, making the recoveries acceptable.
 - i The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCEntration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient



State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Arkansas Department of Environmental Quality	88-00356	3/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L22-90	3/31/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Department of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
New York Department of Health	11707	3/31/2024
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Conservation	TN04016-2023	4/30/2024
Texas Commission on Environmental Quality	T104704231-23-30	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-22	11/14/2023

ALS ENVIRONMENTAL – Houston

Data Processing/Form Production and Peer Review Signatures

SR# Unique ID F2300700

DB-5MSUI

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
08/29/23	LKL	001 DL, 002 DL

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
08/29/23	SL	001 DL, 002 DL



Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com



Cooler Receipt Form

Project Chemist JL

Client/Project ALS Thermometer ID 1251

Date/Time Received: 7-21-23 Initials: ry Date/Time Logged in: 7-21-23 Initials ry

1. Method of delivery: US Mail Fed Ex UPS DHL ALS Courier Client

2. Samples received in: Cooler Box Envelope Other

3. Were custody seals on coolers? Yes No
 Were they intact? Yes No N/A
 Were they signed and dated? Yes No N/A
 If yes, how many and where?

4. Packing Material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other

5. Foreign or Regulated Soil? Yes No Location of Sampling: _____

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
<u> NA </u>		<u> 7-21-23 </u>	<u> 0830 </u>	<u> ry </u>	<u> 1.2° </u>	<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

- 6. Were custody papers properly filled out (ink, signed, dated, etc)? Yes No
- 7. Did all bottles arrive in good condition (not broken, no signs of leakage)? Yes No
- 8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? Yes No
- 9. Were appropriate bottles/containers and volumes received for the requested tests? Yes No
- 10. Did sample labels and tags agree with custody documents? Yes No

Notes, Discrepancies, & Resolutions:

Service request Label:

E2300700

5

ALS Laboratory Group
HS23071844





SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample. The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report



Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet
 Electronic Filing: Received, Clerk's Office 04/28/2025

Prep Run#: 423876
 Team: Semivoa GCMS/OOLUJIMI

Prep Workflow: OrgExtDioxS(30)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 7/31/23 09:49

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300651-002	SWT	.03	8290/PCDD PCDF			Soil	10.022g	brown soil
2	E2300658-001	137741 Inorganic Solids	.02	8290A/PCDD PCDF			Soil	10.029g	gray soil
3	E2300660-001	SS-01	.02	8290/PCDD PCDF			Soil	10.057g	brown soil
4	E2300660-002	SB-01	.02	8290/PCDD PCDF			Soil	10.013g	gray soil
5	E2300660-003	SS-02	.02	8290/PCDD PCDF			Soil	10.072g	black soil
6	E2300660-004	SS-02-D	.02	8290/PCDD PCDF			Soil	10.059g	brown soil
7	E2300660-005	SB-02	.02	8290/PCDD PCDF			Soil	10.087g	gray orange soil
8	E2300660-006	SS-03	.02	8290/PCDD PCDF			Soil	10.076g	black soil
9	E2300660-007	SB-03	.04	8290/PCDD PCDF			Soil	10.084g	gray orange soil
10	E2300700-001	PTS-01-SL-20230727	.01	8290A/PCDD PCDF			Soil	10.064g	black soil
11	E2300700-002	DUP-01-SL-20230727	.01	8290A/PCDD PCDF			Soil	10.014g	black soil
12	EQ2300371-01	MB		8290A/PCDD PCDF			Solid	10.046g	
13	EQ2300371-02	LCS		8290A/PCDD PCDF			Solid	10.060g	
14	EQ2300371-03	DLCS		8290A/PCDD PCDF			Solid	10.042g	
15	K2307686-001	C1-20230707_0648_NAVFA	.04	8290A/PCDD PCDF			Biosolids Solids	10.089g	black soil

Spiking Solutions

Name:	1613B Matrix Working Standard	Inventory ID	230161	Logbook Ref:	OO/7/6/23@MWS@2-20ng/ml	Expires On:	01/02/2024
-------	-------------------------------	--------------	--------	--------------	-------------------------	-------------	------------

E2300651-002	100.00µL	E2300658-001	100.00µL	E2300660-001	100.00µL	E2300660-002	100.00µL	E2300660-003	100.00µL	E2300660-004	100.00µL
E2300660-005	100.00µL	E2300660-006	100.00µL	E2300660-007	100.00µL	E2300700-001	100.00µL	E2300700-002	100.00µL	EQ2300371-01	100.00µL
EQ2300371-01	100.00µL	EQ2300371-02	100.00µL	EQ2300371-02	100.00µL	EQ2300371-03	100.00µL	EQ2300371-03	100.00µL	K2307686-001	100.00µL

Name:	8290/1613B Cleanup Working Standard	Inventory ID	230332	Logbook Ref:	DD 7/18/2023 CWS @8ng/mL	Expires On:	10/10/2023
-------	-------------------------------------	--------------	--------	--------------	--------------------------	-------------	------------

E2300651-002	100.00µL	E2300658-001	100.00µL	E2300660-001	100.00µL	E2300660-002	100.00µL	E2300660-003	100.00µL	E2300660-004	100.00µL
E2300660-005	100.00µL	E2300660-006	100.00µL	E2300660-007	100.00µL	E2300700-001	100.00µL	E2300700-002	100.00µL	EQ2300371-01	100.00µL
EQ2300371-01	100.00µL	EQ2300371-02	100.00µL	EQ2300371-02	100.00µL	EQ2300371-03	100.00µL	EQ2300371-03	100.00µL	K2307686-001	100.00µL

Name:	1613B Labeled Working Standard	Inventory ID	230485	Logbook Ref:	OO/7/25/23@LWS@2-4ng/ml	Expires On:	12/21/2023
-------	--------------------------------	--------------	--------	--------------	-------------------------	-------------	------------

E2300651-002	1,000.00µL	E2300658-001	1,000.00µL	E2300660-001	1,000.00µL	E2300660-002	1,000.00µL	E2300660-003	1,000.00µL	E2300660-004	1,000.00µL
E2300660-005	1,000.00µL	E2300660-006	1,000.00µL	E2300660-007	1,000.00µL	E2300700-001	1,000.00µL	E2300700-002	1,000.00µL	EQ2300371-01	1,000.00µL
EQ2300371-01	1,000.00µL	EQ2300371-02	1,000.00µL	EQ2300371-02	1,000.00µL	EQ2300371-03	1,000.00µL	EQ2300371-03	1,000.00µL	K2307686-001	1,000.00µL

Prep Run#: 423876
Team: Semivoa GCMS/OOLUJIMI

Prep Workflow: OrgExtDioxS(30)
Prep Method: Method

Status: Prepped
Prep Date/Time: 7/31/23 09:49

Preparation Materials

Carbon, High Purity	JS 6/12/2023 (229794)	Ethyl Acetate 99.9% Minimum EtOAc	OO 4/24/23 C4H8O4 (228820)	Glass Wool	bf 12/08/2022 (226936)
Hexanes 95%	OO4/24/23 Hexane (228821)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	OO 4/24/23 CH2CL2 (228819)	Sodium Hydroxide 1N NaOH	NB 11/22/22 Soduum hydroxide 1 (226259)
Sodium Sulfate Anhydrous Reagent Grade Na2SO4	TW 05/18/23 (229795)	Silica Gel	JS 6/6/2023 (229714)	sulfuric acid	NB 02/02/23 H2SO4 (227458)
Toluene 99.9% Minimum	OO/6/27/23 TOLUENE (230023)				

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	7/31/23 09:49	Started:	8/1/23 14:15	Started:	8/2/23 09:00	Started:	8/2/23 11:10
Finished:	8/1/23 09:00	Finished:	8/1/23 15:00	Finished:	8/2/23 11:05	Finished:	8/2/23 15:00
By:	OOLUJIMI	By:	DDO	By:	DDO	By:	DDO
Comments		Comments		Comments		Comments	

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____	Date: _____	Extracts Examined
Received By: _____	Date: _____	Yes No



Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: 07/27/23 08:45
Date Received: 07/31/23 08:30

Sample Name: PTS-01-SL-20230727
Lab Code: E2300700-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.064g

Date Analyzed: 08/28/23 21:41
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: EQ371
Cal Ver. File Name: P544245

Data File Name: P544251
ICAL Date: 07/12/23

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.00000248	0.00000494			5
1,2,3,7,8-PeCDD	0.00000250JK		0.00000147	0.00000247	1.88	1.001	5
1,2,3,6,7,8-HxCDD	0.00000566JK		0.00000123	0.00000247	0.80	1.000	5
1,2,3,4,7,8-HxCDD	0.00000274JK		0.00000119	0.00000247	0.79	1.000	5
1,2,3,7,8,9-HxCDD	0.00000686J		0.00000116	0.00000247	1.06	1.007	5
1,2,3,4,6,7,8-HpCDD	0.000145		0.00000182	0.00000247	1.03	1.000	5
OCDD	0.00165		0.00000320	0.00000494	0.91	1.000	5
2,3,7,8-TCDF	ND	U	0.00000272	0.00000494			5
1,2,3,7,8-PeCDF	ND	U	0.00000271	0.00000247			5
2,3,4,7,8-PeCDF	ND	U	0.00000250	0.00000247			5
1,2,3,6,7,8-HxCDF	0.00000763J		0.000000686	0.00000247	1.31	1.000	5
1,2,3,7,8,9-HxCDF	0.00000649J		0.000000779	0.00000247	1.20	1.000	5
1,2,3,4,7,8-HxCDF	0.00000430JK		0.000000577	0.00000247	0.86	1.000	5
2,3,4,6,7,8-HxCDF	0.00000434J		0.000000686	0.00000247	1.30	1.000	5
1,2,3,4,6,7,8-HpCDF	0.0000880		0.00000160	0.00000247	1.07	1.000	5
1,2,3,4,7,8,9-HpCDF	0.00000687J		0.000000971	0.00000247	0.99	1.000	5
OCDF	0.000160		0.00000193	0.00000494	0.76	1.005	5

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: 07/27/23 08:45
Date Received: 07/31/23 08:30

Sample Name: PTS-01-SL-20230727
Lab Code: E2300700-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.064g
Data File Name: P544251
ICAL Date: 07/12/23

Date Analyzed: 08/28/23 21:41
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: EQ371
Cal Ver. File Name: P544245

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.00000248	0.00000494			5
Total Penta-Dioxins	ND	U	0.00000147	0.0000247			5
Total Hexa-Dioxins	0.0000322		0.00000119	0.0000247	1.08		5
Total Hepta-Dioxins	0.000321		0.00000182	0.0000247	1.06		5
Total Tetra-Furans	ND	U	0.00000272	0.00000494			5
Total Penta-Furans	ND	U	0.00000262	0.0000247			5
Total Hexa-Furans	0.0000372		0.000000672	0.0000247	1.40		5
Total Hepta-Furans	0.000205		0.00000121	0.0000247	1.07		5

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: PTS-01-SL-20230727
Lab Code: E2300700-001

Service Request: E2300700
Date Collected: 07/27/23 08:45
Date Received: 07/31/23 08:30
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.064g
Data File Name: P544251
ICAL Date: 07/12/23

Date Analyzed: 08/28/23 21:41
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: EQ371
Cal Ver. File Name: P544245

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1445.156	72		40-135	0.78	1.026
13C-1,2,3,7,8-PeCDD	2000	1625.946	81		40-135	1.56	1.219
13C-1,2,3,4,7,8-HxCDD	2000	1744.343	87		40-135	1.35	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1692.606	85		40-135	1.31	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1515.056	76		40-135	1.08	1.068
13C-OCDD	4000	3039.886	76		40-135	0.89	1.140
13C-2,3,7,8-TCDF	2000	1273.130	64		40-135	0.77	0.993
13C-1,2,3,7,8-PeCDF	2000	1561.295	78		40-135	1.63	1.171
13C-2,3,4,7,8-PeCDF	2000	1305.953	65		40-135	1.61	1.208
13C-1,2,3,4,7,8-HxCDF	2000	1867.737	93		40-135	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1350.131	68		40-135	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1287.701	64		40-135	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1496.408	75		40-135	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	849.175	42		40-135	0.42	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1508.290	75		40-135	0.43	1.080
37Cl-2,3,7,8-TCDD	160	69.219	43		40-135	NA	1.028

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: 07/27/23 08:45
Date Received: 07/31/23 08:30

Sample Name: PTS-01-SL-20230727
Lab Code: E2300700-001

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.00000248	0.00000494	5	1	
1,2,3,7,8-PeCDD	0.00000250	0.00000147	0.0000247	5	1	0.00000250
1,2,3,6,7,8-HxCDD	0.00000566	0.00000123	0.0000247	5	0.1	0.000000566
1,2,3,4,7,8-HxCDD	0.00000274	0.00000119	0.0000247	5	0.1	0.000000274
1,2,3,7,8,9-HxCDD	0.00000686	0.00000116	0.0000247	5	0.1	0.000000686
1,2,3,4,6,7,8-HpCDD	0.000145	0.00000182	0.0000247	5	0.01	0.00000145
OCDD	0.00165	0.00000320	0.0000494	5	0.0003	0.000000495
2,3,7,8-TCDF	ND	0.00000272	0.00000494	5	0.1	
1,2,3,7,8-PeCDF	ND	0.00000271	0.0000247	5	0.03	
2,3,4,7,8-PeCDF	ND	0.00000250	0.0000247	5	0.3	
1,2,3,6,7,8-HxCDF	0.00000763	0.00000068	0.0000247	5	0.1	0.000000763
1,2,3,7,8,9-HxCDF	0.00000649	0.00000077	0.0000247	5	0.1	0.000000649
1,2,3,4,7,8-HxCDF	0.00000430	0.00000057	0.0000247	5	0.1	0.000000430
2,3,4,6,7,8-HxCDF	0.00000434	0.00000068	0.0000247	5	0.1	0.000000434
1,2,3,4,6,7,8-HpCDF	0.0000880	0.00000160	0.0000247	5	0.01	0.000000880
1,2,3,4,7,8,9-HpCDF	0.00000687	0.00000097	0.0000247	5	0.01	0.000000687
OCDF	0.000160	0.00000193	0.0000494	5	0.0003	0.000000480
Total TEQ						0.00000924

2005 WHO TEFs, ND = 0

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: PTS-01-SL-20230727
Lab Code: E2300700-001

Service Request: E2300700
Date Collected: 07/27/23 08:45
Date Received: 07/31/23 08:30
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
 5.8733g

Date Analyzed: 08/04/23 10:17
 NA
 E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	50.3		-	-			1

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: 07/27/23 08:50
Date Received: 07/31/23 08:30

Sample Name: DUP-01-SL-20230727
Lab Code: E2300700-002

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.014g

Data File Name: P544252
ICAL Date: 07/12/23

Date Analyzed: 08/28/23 22:30
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: EQ371
Cal Ver. File Name: P544245

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.00000243	0.00000485			5
1,2,3,7,8-PeCDD	ND	U	0.00000182	0.0000242			5
1,2,3,6,7,8-HxCDD	0.00000613J		0.00000119	0.0000242	1.21	1.000	5
1,2,3,4,7,8-HxCDD	ND	U	0.00000128	0.0000242			5
1,2,3,7,8,9-HxCDD	0.00000414JK		0.00000118	0.0000242	0.91	1.007	5
1,2,3,4,6,7,8-HpCDD	0.000176		0.00000177	0.0000242	0.95	1.000	5
OCDD	0.00198		0.00000387	0.0000485	0.91	1.000	5
2,3,7,8-TCDF	ND	U	0.00000237	0.00000485			5
1,2,3,7,8-PeCDF	ND	U	0.00000314	0.0000242			5
2,3,4,7,8-PeCDF	ND	U	0.00000444	0.0000242			5
1,2,3,6,7,8-HxCDF	0.00000573JK		0.00000113	0.0000242	0.94	1.000	5
1,2,3,7,8,9-HxCDF	0.00000254JK		0.00000125	0.0000242	0.76	1.000	5
1,2,3,4,7,8-HxCDF	0.00000498JK		0.00000106	0.0000242	0.91	1.000	5
2,3,4,6,7,8-HxCDF	0.00000270JK		0.00000114	0.0000242	0.68	1.000	5
1,2,3,4,6,7,8-HpCDF	0.0000781		0.00000128	0.0000242	1.01	1.000	5
1,2,3,4,7,8,9-HpCDF	0.00000479JK		0.00000141	0.0000242	1.21	1.001	5
OCDF	0.000212		0.00000286	0.0000485	0.84	1.004	5

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: 07/27/23 08:50
Date Received: 07/31/23 08:30

Sample Name: DUP-01-SL-20230727
Lab Code: E2300700-002

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.014g

Data File Name: P544252
ICAL Date: 07/12/23

Date Analyzed: 08/28/23 22:30
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: EQ371
Cal Ver. File Name: P544245

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.00000243	0.00000485			5
Total Penta-Dioxins	ND	U	0.00000182	0.0000242			5
Total Hexa-Dioxins	0.0000129J		0.00000122	0.0000242	1.18		5
Total Hepta-Dioxins	0.000385		0.00000177	0.0000242	1.01		5
Total Tetra-Furans	ND	U	0.00000237	0.00000485			5
Total Penta-Furans	ND	U	0.00000362	0.0000242			5
Total Hexa-Furans	0.0000187J		0.00000114	0.0000242	1.07		5
Total Hepta-Furans	0.0000796		0.00000134	0.0000242	1.01		5

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: DUP-01-SL-20230727
Lab Code: E2300700-002

Service Request: E2300700
Date Collected: 07/27/23 08:50
Date Received: 07/31/23 08:30
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.014g
Data File Name: P544252
ICAL Date: 07/12/23

Date Analyzed: 08/28/23 22:30
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: EQ371
Cal Ver. File Name: P544245

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1334.510	67		40-135	0.78	1.027
13C-1,2,3,7,8-PeCDD	2000	1308.915	65		40-135	1.59	1.221
13C-1,2,3,4,7,8-HxCDD	2000	1411.087	71		40-135	1.32	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1497.708	75		40-135	1.31	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1409.419	70		40-135	1.12	1.067
13C-OCDD	4000	3172.382	79		40-135	0.91	1.140
13C-2,3,7,8-TCDF	2000	1181.221	59		40-135	0.78	0.994
13C-1,2,3,7,8-PeCDF	2000	1322.782	66		40-135	1.60	1.174
13C-2,3,4,7,8-PeCDF	2000	805.409	40		40-135	1.60	1.210
13C-1,2,3,4,7,8-HxCDF	2000	1407.296	70		40-135	0.50	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1396.100	70		40-135	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1313.394	66		40-135	0.51	1.007
13C-2,3,4,6,7,8-HxCDF	2000	1486.973	74		40-135	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1385.746	69		40-135	0.43	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1535.927	77		40-135	0.44	1.079
37Cl-2,3,7,8-TCDD	160	70.247	44		40-135	NA	1.029

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: DUP-01-SL-20230727
Lab Code: E2300700-002

Service Request: E2300700
Date Collected: 07/27/23 08:50
Date Received: 07/31/23 08:30
Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.00000243	0.00000485	5	1	
1,2,3,7,8-PeCDD	ND	0.00000182	0.0000242	5	1	
1,2,3,6,7,8-HxCDD	0.00000613	0.00000119	0.0000242	5	0.1	0.000000613
1,2,3,4,7,8-HxCDD	ND	0.00000128	0.0000242	5	0.1	
1,2,3,7,8,9-HxCDD	0.00000414	0.00000118	0.0000242	5	0.1	0.000000414
1,2,3,4,6,7,8-HpCDD	0.000176	0.00000177	0.0000242	5	0.01	0.00000176
OCDD	0.00198	0.00000387	0.0000485	5	0.0003	0.000000594
2,3,7,8-TCDF	ND	0.00000237	0.00000485	5	0.1	
1,2,3,7,8-PeCDF	ND	0.00000314	0.0000242	5	0.03	
2,3,4,7,8-PeCDF	ND	0.00000444	0.0000242	5	0.3	
1,2,3,6,7,8-HxCDF	0.00000573	0.00000113	0.0000242	5	0.1	0.000000573
1,2,3,7,8,9-HxCDF	0.00000254	0.00000125	0.0000242	5	0.1	0.000000254
1,2,3,4,7,8-HxCDF	0.00000498	0.00000106	0.0000242	5	0.1	0.000000498
2,3,4,6,7,8-HxCDF	0.00000270	0.00000114	0.0000242	5	0.1	0.000000270
1,2,3,4,6,7,8-HpCDF	0.0000781	0.00000128	0.0000242	5	0.01	0.000000781
1,2,3,4,7,8,9-HpCDF	0.00000479	0.00000141	0.0000242	5	0.01	0.0000000479
OCDF	0.000212	0.00000286	0.0000485	5	0.0003	0.000000636
Total TEQ						0.00000587

2005 WHO TEFs, ND = 0

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: DUP-01-SL-20230727
Lab Code: E2300700-002

Service Request: E2300700
Date Collected: 07/27/23 08:50
Date Received: 07/31/23 08:30
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
 5.8896g

Date Analyzed: 08/04/23 10:17
 NA
 E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	51.5		-	-			1

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300371-01

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.046g

Data File Name: P543965
ICAL Date: 07/12/23

Date Analyzed: 08/14/23 23:20
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.000000165	0.000000498			1
1,2,3,7,8-PeCDD	ND	U	0.0000000766	0.00000249			1
1,2,3,6,7,8-HxCDD	0.0000000628JK		0.0000000350	0.00000249	0.76	1.000	1
1,2,3,4,7,8-HxCDD	0.000000159JK		0.0000000343	0.00000249	1.67	1.000	1
1,2,3,7,8,9-HxCDD	0.0000000446J		0.0000000333	0.00000249	1.14	1.007	1
1,2,3,4,6,7,8-HpCDD	0.000000168J		0.0000000076	0.00000249	0.96	1.000	1
			7				
OCDD	0.000000328JK		0.0000000260	0.00000498	1.57	1.000	1
2,3,7,8-TCDF	ND	U	0.0000000995	0.000000498			1
1,2,3,7,8-PeCDF	ND	U	0.0000000737	0.00000249			1
2,3,4,7,8-PeCDF	ND	U	0.0000000697	0.00000249			1
1,2,3,6,7,8-HxCDF	0.0000000219JK		0.0000000200	0.00000249	3.79	1.000	1
1,2,3,7,8,9-HxCDF	0.000000161J		0.0000000263	0.00000249	1.28	1.000	1
1,2,3,4,7,8-HxCDF	0.0000000685JK		0.0000000188	0.00000249	1.03	1.001	1
2,3,4,6,7,8-HxCDF	0.0000000831J		0.0000000212	0.00000249	1.30	1.000	1
1,2,3,4,6,7,8-HpCDF	0.000000138JK		0.0000000158	0.00000249	0.60	1.000	1
1,2,3,4,7,8,9-HpCDF	0.000000131J		0.0000000188	0.00000249	0.93	1.000	1
OCDF	0.00000145J		0.000000102	0.00000498	0.80	1.005	1

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300371-01

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.046g
Data File Name: P543965
ICAL Date: 07/12/23

Date Analyzed: 08/14/23 23:20
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.000000165	0.000000498			1
Total Penta-Dioxins	ND	U	0.0000000766	0.00000249			1
Total Hexa-Dioxins	0.0000000446J		0.000000342	0.00000249	1.14		1
Total Hepta-Dioxins	0.000000168J		0.000000076	0.00000249	0.96		1
			7				
Total Tetra-Furans	ND	U	0.0000000995	0.000000498			1
Total Penta-Furans	ND	U	0.0000000717	0.00000249			1
Total Hexa-Furans	0.000000245J		0.0000000213	0.00000249	1.30		1
Total Hepta-Furans	0.000000131J		0.0000000173	0.00000249	0.93		1

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2300371-01

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.046g

Date Analyzed: 08/14/23 23:20
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Data File Name: P543965
ICAL Date: 07/12/23

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1587.546	79		40-135	0.79	1.024
13C-1,2,3,7,8-PeCDD	2000	1619.921	81		40-135	1.58	1.204
13C-1,2,3,4,7,8-HxCDD	2000	1893.036	95		40-135	1.26	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1914.918	96		40-135	1.27	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1483.253	74		40-135	1.05	1.068
13C-OCDD	4000	2488.599	62		40-135	0.88	1.141
13C-2,3,7,8-TCDF	2000	1483.905	74		40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1497.829	75		40-135	1.59	1.158
13C-2,3,4,7,8-PeCDF	2000	1534.630	77		40-135	1.58	1.194
13C-1,2,3,4,7,8-HxCDF	2000	1792.189	90		40-135	0.52	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1655.492	83		40-135	0.53	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1495.378	75		40-135	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1590.421	80		40-135	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1402.239	70		40-135	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1468.243	73		40-135	0.44	1.080
37Cl-2,3,7,8-TCDD	800	863.993	108		40-135	NA	1.025



Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

QA/QC Report

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Analyzed: 08/15/23
Date Extracted: 07/31/23

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Units: mg/Kg
Basis: Dry
Analysis Lot: 814366

Lab Control Sample
EQ2300371-02

Duplicate Lab Control Sample
EQ2300371-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	0.0000956	0.0000994	96	0.0000945	0.0000996	95	70-130	1	25
1,2,3,4,7,8-HxCDD	0.0000838	0.0000994	84	0.0000833	0.0000996	84	70-130	<1	25
1,2,3,6,7,8-HxCDD	0.0000841	0.0000994	85	0.0000840	0.0000996	84	70-130	<1	25
1,2,3,7,8,9-HxCDD	0.0000820	0.0000994	82	0.0000794	0.0000996	80	70-130	3	25
1,2,3,7,8-PeCDD	0.0000923	0.0000994	93	0.0000911	0.0000996	91	70-130	1	25
2,3,7,8-TCDD	0.0000172	0.0000199	87	0.0000167	0.0000199	84	70-130	3	25
OCDD	0.000195	0.000199	98	0.000190	0.000199	95	70-130	3	25
1,2,3,4,6,7,8-HpCDF	0.000104	0.0000994	104	0.000105	0.0000996	105	70-130	1	25
1,2,3,4,7,8,9-HpCDF	0.0000998	0.0000994	100	0.0000994	0.0000996	100	70-130	<1	25
1,2,3,4,7,8-HxCDF	0.0000954	0.0000994	96	0.0000950	0.0000996	95	70-130	<1	25
1,2,3,6,7,8-HxCDF	0.000107	0.0000994	107	0.000104	0.0000996	104	70-130	3	25
1,2,3,7,8,9-HxCDF	0.000102	0.0000994	103	0.000101	0.0000996	101	70-130	2	25
1,2,3,7,8-PeCDF	0.000108	0.0000994	108	0.000107	0.0000996	108	70-130	<1	25
2,3,4,6,7,8-HxCDF	0.000107	0.0000994	107	0.000108	0.0000996	109	70-130	1	25
2,3,4,7,8-PeCDF	0.000110	0.0000994	111	0.000106	0.0000996	107	70-130	3	25
2,3,7,8-TCDF	0.0000196	0.0000199	98	0.0000193	0.0000199	97	70-130	1	25
OCDF	0.000216	0.000199	109	0.000216	0.000199	109	70-130	<1	25

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300371-02

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.060g

Data File Name: P543972
ICAL Date: 07/12/23

Date Analyzed: 08/15/23 04:58
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	0.0000172		0.000000130	0.000000497	0.74	1.001	1
1,2,3,7,8-PeCDD	0.0000923		0.000000731	0.00000249	1.58	1.001	1
1,2,3,6,7,8-HxCDD	0.0000841		0.000000556	0.00000249	1.28	1.000	1
1,2,3,4,7,8-HxCDD	0.0000838		0.000000559	0.00000249	1.25	1.000	1
1,2,3,7,8,9-HxCDD	0.0000820		0.000000535	0.00000249	1.28	1.007	1
1,2,3,4,6,7,8-HpCDD	0.0000956		0.000000698	0.00000249	1.08	1.000	1
OCDD	0.000195		0.000000239	0.00000497	0.89	1.000	1
2,3,7,8-TCDF	0.0000196		0.000000708	0.000000497	0.74	1.001	1
1,2,3,7,8-PeCDF	0.000108		0.000000633	0.00000249	1.64	1.001	1
2,3,4,7,8-PeCDF	0.000110		0.000000637	0.00000249	1.57	1.001	1
1,2,3,6,7,8-HxCDF	0.000107		0.000000380	0.00000249	1.24	1.000	1
1,2,3,7,8,9-HxCDF	0.000102		0.000000454	0.00000249	1.25	1.000	1
1,2,3,4,7,8-HxCDF	0.0000954		0.000000342	0.00000249	1.27	1.000	1
2,3,4,6,7,8-HxCDF	0.000107		0.000000408	0.00000249	1.26	1.000	1
1,2,3,4,6,7,8-HpCDF	0.000104		0.000000111	0.00000249	1.05	1.000	1
1,2,3,4,7,8,9-HpCDF	0.0000998		0.000000133	0.00000249	1.06	1.000	1
OCDF	0.000216		0.000000793	0.00000497	0.97	1.005	1

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300371-02

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.060g

Date Analyzed: 08/15/23 04:58
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Data File Name: P543972
ICAL Date: 07/12/23

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	0.0000172		0.000000130	0.000000497	0.74		1
Total Penta-Dioxins	0.0000923		0.0000000731	0.00000249	1.58		1
Total Hexa-Dioxins	0.000250		0.0000000550	0.00000249	1.25		1
Total Hepta-Dioxins	0.0000956		0.0000000698	0.00000249	1.08		1
Total Tetra-Furans	0.0000199		0.0000000708	0.000000497	0.88		1
Total Penta-Furans	0.000220		0.0000000635	0.00000249	1.32		1
Total Hexa-Furans	0.000411		0.0000000392	0.00000249	1.27		1
Total Hepta-Furans	0.000203		0.000000121	0.00000249	1.05		1

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2300371-02

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.060g

Data File Name: P543972
ICAL Date: 07/12/23

Date Analyzed: 08/15/23 04:58
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1453.857	73		40-135	0.78	1.024
13C-1,2,3,7,8-PeCDD	2000	1476.845	74		40-135	1.57	1.204
13C-1,2,3,4,7,8-HxCDD	2000	1653.991	83		40-135	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1715.866	86		40-135	1.27	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1258.384	63		40-135	1.04	1.068
13C-OCDD	4000	1905.591	48		40-135	0.88	1.141
13C-2,3,7,8-TCDF	2000	1348.263	67		40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1395.353	70		40-135	1.62	1.158
13C-2,3,4,7,8-PeCDF	2000	1395.732	70		40-135	1.61	1.194
13C-1,2,3,4,7,8-HxCDF	2000	1630.132	82		40-135	0.52	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1462.689	73		40-135	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1379.644	69		40-135	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1430.058	72		40-135	0.53	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1246.502	62		40-135	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1239.309	62		40-135	0.44	1.081
37Cl-2,3,7,8-TCDD	800	836.980	105		40-135	NA	1.025

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300371-03

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.042g

Data File Name: P543973
ICAL Date: 07/12/23

Date Analyzed: 08/15/23 05:47
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	0.0000167		0.000000128	0.000000498	0.78	1.001	1
1,2,3,7,8-PeCDD	0.0000911		0.0000000851	0.00000249	1.60	1.001	1
1,2,3,6,7,8-HxCDD	0.0000840		0.0000000479	0.00000249	1.28	1.000	1
1,2,3,4,7,8-HxCDD	0.0000833		0.0000000489	0.00000249	1.25	1.000	1
1,2,3,7,8,9-HxCDD	0.0000794		0.0000000466	0.00000249	1.27	1.007	1
1,2,3,4,6,7,8-HpCDD	0.0000945		0.0000000785	0.00000249	1.08	1.000	1
OCDD	0.000190		0.000000229	0.00000498	0.87	1.000	1
2,3,7,8-TCDF	0.0000193		0.0000000702	0.000000498	0.75	1.001	1
1,2,3,7,8-PeCDF	0.000107		0.000000131	0.00000249	1.62	1.001	1
2,3,4,7,8-PeCDF	0.000106		0.000000124	0.00000249	1.55	1.001	1
1,2,3,6,7,8-HxCDF	0.000104		0.0000000453	0.00000249	1.24	1.000	1
1,2,3,7,8,9-HxCDF	0.000101		0.0000000551	0.00000249	1.29	1.000	1
1,2,3,4,7,8-HxCDF	0.0000950		0.0000000406	0.00000249	1.24	1.000	1
2,3,4,6,7,8-HxCDF	0.000108		0.0000000479	0.00000249	1.27	1.000	1
1,2,3,4,6,7,8-HpCDF	0.000105		0.000000100	0.00000249	1.07	1.000	1
1,2,3,4,7,8,9-HpCDF	0.0000994		0.000000121	0.00000249	1.04	1.000	1
OCDF	0.000216		0.0000000974	0.00000498	0.93	1.005	1

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300371-03

Units: mg/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.042g

Data File Name: P543973
ICAL Date: 07/12/23

Date Analyzed: 08/15/23 05:47
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	0.0000167		0.000000128	0.000000498	0.78		1
Total Penta-Dioxins	0.0000911		0.0000000851	0.00000249	1.60		1
Total Hexa-Dioxins	0.000247		0.0000000477	0.00000249	1.25		1
Total Hepta-Dioxins	0.0000945		0.0000000785	0.00000249	1.08		1
Total Tetra-Furans	0.0000194		0.0000000702	0.000000498	0.75		1
Total Penta-Furans	0.000216		0.000000127	0.00000249	1.37		1
Total Hexa-Furans	0.000408		0.0000000468	0.00000249	1.24		1
Total Hepta-Furans	0.000204		0.000000110	0.00000249	1.07		1

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: E2300700
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2300371-03

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.042g

Data File Name: P543973
ICAL Date: 07/12/23

Date Analyzed: 08/15/23 05:47
Date Extracted: 7/31/23
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P543965
Cal Ver. File Name: P543962

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1420.894	71		40-135	0.78	1.023
13C-1,2,3,7,8-PeCDD	2000	1433.755	72		40-135	1.60	1.204
13C-1,2,3,4,7,8-HxCDD	2000	1622.602	81		40-135	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1688.216	84		40-135	1.26	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1265.659	63		40-135	1.07	1.068
13C-OCDD	4000	1961.867	49		40-135	0.88	1.141
13C-2,3,7,8-TCDF	2000	1317.280	66		40-135	0.80	0.992
13C-1,2,3,7,8-PeCDF	2000	1352.197	68		40-135	1.56	1.158
13C-2,3,4,7,8-PeCDF	2000	1362.924	68		40-135	1.59	1.194
13C-1,2,3,4,7,8-HxCDF	2000	1611.846	81		40-135	0.52	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1455.329	73		40-135	0.53	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1375.151	69		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1392.157	70		40-135	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1209.951	60		40-135	0.45	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1260.868	63		40-135	0.46	1.081
37Cl-2,3,7,8-TCDD	800	815.541	102		40-135	NA	1.025



15-Aug-2023

Bernadette Fini
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS23071844**

Work Order: **23080085**

Dear Bernadette,

ALS Environmental received 2 samples on 01-Aug-2023 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chelsey Cook

Chelsey Cook
Project Manager

Report of Laboratory Analysis

Certificate No: IL: 200076

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group, USA

Date: 15-Aug-23

Client: ALS Environmental
Project: HS23071844
Work Order: 23080085

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
23080085-01	PTS-01-SL-20230727	Soil	HS23071844-01	7/27/2023 08:45	8/1/2023 09:30	<input type="checkbox"/>
23080085-02	DUP-01-SL-20230727	Soil	HS23071844-02	7/27/2023 08:50	8/1/2023 09:30	<input type="checkbox"/>

ALS Group, USA

Date: 15-Aug-23

Client: ALS Environmental
Project: HS23071844
WorkOrder: 23080085

**QUALIFIERS,
ACRONYMS, UNITS**

ALS Group, USA

Date: 15-Aug-23

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group, USA

Date: 15-Aug-23

Client: ALS Environmental
Project: HS23071844
Work Order: 23080085

Case Narrative

Samples for the above noted Work Order were received on 08/01/2023. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Extractable Organics:

No deviations or anomalies were noted.

ALS Group, USA

Date: 15-Aug-23

Client: ALS Environmental
Project: HS23071844
Sample ID: PTS-01-SL-20230727
Collection Date: 7/27/2023 08:45 AM

Work Order: 23080085
Lab ID: 23080085-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			Method: SW8082A		Prep: SW3550 / 8/9/23		Analyst: RM
Aroclor 1016	U		0.064	0.16	mg/Kg-dry	1	8/11/2023 19:27
Aroclor 1221	U		0.064	0.16	mg/Kg-dry	1	8/11/2023 19:27
Aroclor 1232	U		0.064	0.16	mg/Kg-dry	1	8/11/2023 19:27
Aroclor 1242	U		0.064	0.16	mg/Kg-dry	1	8/11/2023 19:27
Aroclor 1248	U		0.064	0.16	mg/Kg-dry	1	8/11/2023 19:27
Aroclor 1254	U		0.044	0.16	mg/Kg-dry	1	8/11/2023 19:27
Aroclor 1260	U		0.044	0.16	mg/Kg-dry	1	8/11/2023 19:27
Aroclor 1262	U		0.044	0.16	mg/Kg-dry	1	8/11/2023 19:27
Aroclor 1268	U		0.044	0.16	mg/Kg-dry	1	8/11/2023 19:27
PCBs, Total	U		0.044	0.16	mg/Kg-dry	1	8/11/2023 19:27
<i>Surr: Decachlorobiphenyl</i>	83.8			40-140	%REC	1	8/11/2023 19:27
<i>Surr: Tetrachloro-m-xylene</i>	54.2			45-124	%REC	1	8/11/2023 19:27
MOISTURE			Method: SW3550C				Analyst: SGH
Moisture	49		0.10	0.10	% of sample	1	8/8/2023 12:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 15-Aug-23

Client: ALS Environmental
Project: HS23071844
Sample ID: DUP-01-SL-20230727
Collection Date: 7/27/2023 08:50 AM

Work Order: 23080085
Lab ID: 23080085-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			Method: SW8082A		Prep: SW3550 / 8/9/23		Analyst: RM
Aroclor 1016	U		0.062	0.16	mg/Kg-dry	1	8/11/2023 19:39
Aroclor 1221	U		0.062	0.16	mg/Kg-dry	1	8/11/2023 19:39
Aroclor 1232	U		0.062	0.16	mg/Kg-dry	1	8/11/2023 19:39
Aroclor 1242	U		0.062	0.16	mg/Kg-dry	1	8/11/2023 19:39
Aroclor 1248	U		0.062	0.16	mg/Kg-dry	1	8/11/2023 19:39
Aroclor 1254	U		0.043	0.16	mg/Kg-dry	1	8/11/2023 19:39
Aroclor 1260	U		0.043	0.16	mg/Kg-dry	1	8/11/2023 19:39
Aroclor 1262	U		0.043	0.16	mg/Kg-dry	1	8/11/2023 19:39
Aroclor 1268	U		0.043	0.16	mg/Kg-dry	1	8/11/2023 19:39
PCBs, Total	U		0.043	0.16	mg/Kg-dry	1	8/11/2023 19:39
<i>Surr: Decachlorobiphenyl</i>	107			40-140	%REC	1	8/11/2023 19:39
<i>Surr: Tetrachloro-m-xylene</i>	77.3			45-124	%REC	1	8/11/2023 19:39
MOISTURE			Method: SW3550C				Analyst: SGH
Moisture	49		0.10	0.10	% of sample	1	8/8/2023 12:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Client: ALS Environmental
 Work Order: 23080085
 Project: HS23071844

QC BATCH REPORT

Batch ID: **221456** Instrument ID **GC14** Method: **SW8082A**

MBLK		Sample ID: PBLKS1-221456-221456			Units: µg/Kg		Analysis Date: 8/11/2023 02:20 PM			
Client ID:		Run ID: GC14_230811A			SeqNo: 9873214		Prep Date: 8/9/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Aroclor 1262	U	83								
Aroclor 1268	U	83								
PCBs, Total	U	83								
<i>Surr: Decachlorobiphenyl</i>	40	0	33.3	0	120	40-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	34.02	0	33.3	0	102	45-124	0			

LCS		Sample ID: PLCSS1-221456-221456			Units: µg/Kg		Analysis Date: 8/11/2023 02:32 PM			
Client ID:		Run ID: GC14_230811A			SeqNo: 9873217		Prep Date: 8/9/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	850.1	83	833	0	102	50-130	0			
Aroclor 1260	868.3	83	833	0	104	50-130	0			
<i>Surr: Decachlorobiphenyl</i>	34.42	0	33.3	0	103	40-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	29.88	0	33.3	0	89.7	45-124	0			

MS		Sample ID: 23080180-01A MS			Units: µg/Kg		Analysis Date: 8/11/2023 03:58 PM			
Client ID:		Run ID: GC14_230811A			SeqNo: 9873222		Prep Date: 8/9/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	593.4	81	810	0	73.3	40-140	0			
Aroclor 1260	609.2	81	810	0	75.2	40-140	0			
<i>Surr: Decachlorobiphenyl</i>	27.54	0	32.38	0	85	40-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	22.97	0	32.38	0	70.9	45-124	0			

MSD		Sample ID: 23080180-01A MSD			Units: µg/Kg		Analysis Date: 8/11/2023 04:09 PM			
Client ID:		Run ID: GC14_230811A			SeqNo: 9873225		Prep Date: 8/9/2023		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	535.6	82	818.5	0	65.4	40-140	593.4	10.2	50	
Aroclor 1260	590.7	82	818.5	0	72.2	40-140	609.2	3.07	50	
<i>Surr: Decachlorobiphenyl</i>	26.76	0	32.72	0	81.8	40-140	27.54	2.86	50	
<i>Surr: Tetrachloro-m-xylene</i>	21.27	0	32.72	0	65	45-124	22.97	7.65	50	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental

QC BATCH REPORT

Work Order: 23080085

Project: HS23071844

Batch ID: **221456**

Instrument ID **GC14**

Method: **SW8082A**

The following samples were analyzed in this batch:

23080085-01A	23080085-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
Work Order: 23080085
Project: HS23071844

QC BATCH REPORT

Batch ID: **R378620** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R378620				Units: % of sample		Analysis Date: 8/8/2023 12:48 PM		
Client ID:		Run ID: MOIST_230808C				SeqNo: 9857101		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R378620				Units: % of sample		Analysis Date: 8/8/2023 12:48 PM		
Client ID:		Run ID: MOIST_230808C				SeqNo: 9857100		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: 23072597-14B DUP				Units: % of sample		Analysis Date: 8/8/2023 12:48 PM		
Client ID:		Run ID: MOIST_230808C				SeqNo: 9857079		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.46	0.10	0	0	0	0-0	8.83	4.28	10	

DUP		Sample ID: 23080518-05A DUP				Units: % of sample		Analysis Date: 8/8/2023 12:48 PM		
Client ID:		Run ID: MOIST_230808C				SeqNo: 9857098		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	3.37	0.10	0	0	0	0-0	3.5	3.78	10	

The following samples were analyzed in this batch: 23080085-01A 23080085-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS-PCB-PTM-ALS Environmental
Project: HS23071844



10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 22541

SUBCONTRACT TO:

ALS Laboratory Group
3352 128th Ave.
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23071844
TSR: Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS23071844-01	PTS-01-SL-20230727	Soil	27 Jul 2023 08:45
PCB-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			11 Aug 2023
2. HS23071844-02	DUP-01-SL-20230727	Soil	27 Jul 2023 08:50
PCB-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			11 Aug 2023

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: _____

Date/Time: 7/31/23 1800

Received By: Karl J. Lawal

Date/Time: 8/11/23 0930

Cooler ID(s): DF2

Temperature(s): 2.2°C



September 14, 2023

Service Request No:K2308599

Bernadette Fini
ALS Laboratory Group
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS23071844

Dear Bernadette,

Enclosed are the results of the sample(s) submitted to our laboratory August 01, 2023
For your reference, these analyses have been assigned our service request number **K2308599**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: K2308599
Date Received: 08/01/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

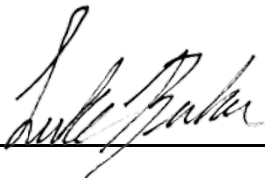
Sample Receipt:

Two soil samples were received for analysis at ALS Environmental on 08/01/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

Method 8151A, 09/07/2023: The upper control criterion was exceeded for 2,4-Dichlorophenylacetic Acid in samples PTS-01-SL-20230727 and DUP-01-SL-20230727. No target analytes were detected in the samples. The error associated with an elevated recovery equated to a high bias. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Method 8151A, 09/07/2023: The upper control criterion was exceeded for 2,4,5-T in Initial Calibration Verification (ICV). The field samples associated with this ICV did not contain the analyte in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Approved by 

Date 09/14/2023



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: PTS-01-SL-20230727			Lab ID: K2308599-001			
--------------------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total	51.2				Percent	160.3 Modified

CLIENT ID: DUP-01-SL-20230727			Lab ID: K2308599-002			
--------------------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total	50.1				Percent	160.3 Modified



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: ALS Environmental - US

Service Request: K2308599

Project: HS23071844

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2308599-001	PTS-01-SL-20230727	7/27/2023	0845
K2308599-002	DUP-01-SL-20230727	7/27/2023	0850



67308599

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Illinois

COC ID: 22540

SUBCONTRACT TO:

ALS Environmental Kelso
1317 S. 13th Avenue
Kelso, WA 98626

Phone: +1 360 501 3312

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Bernadette A. Fini
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Bernadette.fini@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS23071844
TSR: Ron Martino

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS23071844-01	PTS-01-SL-20230727	Soil	27 Jul 2023 08:45
Herbs 8151-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			11 Aug 2023
2. HS23071844-02	DUP-01-SL-20230727	Soil	27 Jul 2023 08:50
Herbs 8151-Report in mg/Kg, Need ERM Osage EDD, dry weight correct data, report J flags down to MDL			11 Aug 2023

Comments: Please analyze for the analysis listed above. Send report to the emails shown above.

REPORT 2,4,5-T AND SILVEX

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: [Signature]
Received By: M. Mulhegan
Cooler ID(s): _____

Date/Time: 7/31/23 1800.
Date/Time: 8/1/23 1015
Temperature(s): _____

PM cl

Cooler Receipt and Preservation Form

Client ALS Houston Service Request K23 08599
 Received: 8/1/23 Opened: 8/1/23 By: MM Unloaded: 8/1/23 By: MM

- Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- Samples were received in: (circle) Cooler Box Envelope Other NA
- Were custody seals on coolers? NA Y N If yes, how many and where? 2 front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
	<u>1.1</u>	<u>1802</u>				<u>6230 3003 3756</u>	

- Was a Temperature Blank present in cooler? NA Y N If yes, note the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
 - Were samples received within the method specified temperature ranges? NA Y N
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
- If applicable, tissue samples were received: Frozen Partially Thawed Thawed
- Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves
 - Were custody papers properly filled out (ink, signed, etc.)? NA Y N
 - Were samples received in good condition (unbroken) NA Y N
 - Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
 - Did all sample labels and tags agree with custody papers? NA Y N
 - Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
 - Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
 - Were VOA vials received without headspace? Indicate in the table below. NA Y N
 - Was C12/Res negative? NA Y N
 - Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
 - Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Electronic Filing: Received, Clerk's Office 04/28/2025
ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client: ALS Environmental - US
Project: HS23071844/

Service Request: K2308599

Sample Name: PTS-01-SL-20230727
Lab Code: K2308599-001
Sample Matrix: Soil

Date Collected: 07/27/23
Date Received: 08/1/23

Analysis Method
160.3 Modified
8151A

Extracted/Digested By
MCRESWELL

Analyzed By
TRICKMAN
BBRIGHT

Sample Name: PTS-01-SL-20230727
Lab Code: K2308599-001.R01
Sample Matrix: Soil

Date Collected: 07/27/23
Date Received: 08/1/23

Analysis Method
8151A

Extracted/Digested By
MCRESWELL

Analyzed By
JWALTER

Sample Name: DUP-01-SL-20230727
Lab Code: K2308599-002
Sample Matrix: Soil

Date Collected: 07/27/23
Date Received: 08/1/23

Analysis Method
160.3 Modified
8151A

Extracted/Digested By
MCRESWELL

Analyzed By
TRICKMAN
BBRIGHT

Sample Name: DUP-01-SL-20230727
Lab Code: K2308599-002.R01
Sample Matrix: Soil

Date Collected: 07/27/23
Date Received: 08/1/23

Analysis Method
8151A

Extracted/Digested By
MCRESWELL

Analyzed By
JWALTER



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Semivolatile Organic Compounds by GC

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Analytical Report

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: PTS-01-SL-20230727
Lab Code: K2308599-001

Service Request: K2308599
Date Collected: 07/27/23 08:45
Date Received: 08/01/23 10:15
Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	ND U	9600	780	100	09/07/23 13:20	8/4/23	*
2,4,5-TP	ND U	9600	470	100	09/07/23 13:20	8/4/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	136	26 - 127	09/07/23 13:20	*

Analytical Report

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: DUP-01-SL-20230727
Lab Code: K2308599-002

Service Request: K2308599
Date Collected: 07/27/23 08:50
Date Received: 08/01/23 10:15
Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	ND U	10000	800	100	09/07/23 13:46	8/4/23	*
2,4,5-TP	ND U	10000	480	100	09/07/23 13:46	8/4/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	136	26 - 127	09/07/23 13:46	*



General Chemistry

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Analytical Report

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: PTS-01-SL-20230727
Lab Code: K2308599-001

Service Request: K2308599
Date Collected: 07/27/23 08:45
Date Received: 08/01/23 10:15
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	51.2	Percent	-	-	1	08/02/23 08:36	

Analytical Report

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil
Sample Name: DUP-01-SL-20230727
Lab Code: K2308599-002

Service Request: K2308599
Date Collected: 07/27/23 08:50
Date Received: 08/01/23 10:15
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	50.1	Percent	-	-	1	08/02/23 08:36	



QC Summary Forms

ALS Environmental—Kelso Laboratory
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Semivolatile Organic Compounds by GC

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1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

QA/QC Report

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: K2308599

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 26 - 127
PTS-01-SL-20230727	K2308599-001	136 *
DUP-01-SL-20230727	K2308599-002	136 *
Method Blank	KQ2313535-05	51
Lab Control Sample	KQ2313535-06	63

Analytical Report

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: K2308599
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2313535-05

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	ND U	49	4.0	1	09/09/23 01:12	8/4/23	
2,4,5-TP	ND U	49	2.4	1	09/09/23 01:12	8/4/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	51	26 - 127	09/09/23 01:12	

QA/QC Report

Client: ALS Environmental - US
Project: HS23071844
Sample Matrix: Soil

Service Request: K2308599
Date Analyzed: 09/09/23
Date Extracted: 08/04/23

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry
Analysis Lot: 816634

Lab Control Sample
KQ2313535-06

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-T	116	167	70	44-125
2,4,5-TP	114	167	68	46-125

Confirmation Results

Client: ALS Environmental - US
Project: HS23071844
Matrix: Soil

Service Request: K2308599
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2313535-06

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	4.0	116	120	3		1	09/09/23 01:37
2,4,5-TP	2.4	114	115	<1		1	09/09/23 01:37