

 **ANALYTICAL REPORT****PREPARED FOR**

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Generated 6/4/2024 8:25:08 AM

JOB DESCRIPTION

TDS Leachate Sampling

JOB NUMBER

580-140271-1

Eurofins Seattle

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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Case Narrative

Client: Environmental Chemical Corp.
Project: TDS Leachate Sampling

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Job Narrative 580-140271-1

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.

Receipt

The samples were received on 5/23/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.8°C, 1.5°C and 1.9°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample Preservation. This does not meet regulatory requirements.

The following sample is marked for TSS and TDS analyses on the COC but no containers were received. Only received six 40mL HCl preserved vials.

Trip Blank (580-140271-2)

Method 8260D - Volatile Organic Compounds (GC/MS)

Samples TDS-RP-20MAY24 (580-140271-1) and Trip Blank (580-140271-2) were analyzed for Volatile Organic Compounds (GC/MS). The samples were prepared on 5/28/2024 and analyzed on 5/29/2024 and 5/30/2024.

The response for Chloromethane in the continuing calibration verification (CCV) marginally exceeds, low-biased, the DoD acceptance criteria on batch 410-511809. Due to the marginal nature of the outlier(s), the data is reported.

The continuing calibration verification (CCV) associated with batch 410-511809 recovered above the upper control limit for Pentachloroethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

The preservative used in the sample containers provided is not compatible with the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TDS-RP-20MAY24 (580-140271-1) and Trip Blank (580-140271-2). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium.

Method 8270D - Semivolatile Organic Compounds (GC/MS)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Semivolatile Organic Compounds (GC/MS). The sample was prepared on 5/24/2024 and analyzed on 5/28/2024 and 5/29/2024.

Method 8015D DRO - Diesel Range Organics (DRO) (GC)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Diesel Range Organics (DRO) (GC). The sample was prepared on 5/24/2024 and analyzed on 5/25/2024.

Method 8151A DOD - Herbicides (GC)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Herbicides (GC). The sample was prepared on 5/25/2024 and analyzed on 5/28/2024.

Method 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography. The sample was prepared on 5/24/2024 and analyzed on 5/27/2024.

The continuing calibration verification (CCV) associated with batch 410-510691 recovered above the upper control limit for DCB Decachlorobiphenyl (Surr) on one column. Results are reported from the passing column: TDS-RP-20MAY24 (580-140271-1).

Method 8081B - Organochlorine Pesticides (GC)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Organochlorine Pesticides (GC). The sample was prepared on 5/24/2024 and analyzed on 5/25/2024 and 5/27/2024.

Method EPA 300.0 R2.1 - Anions, Ion Chromatography

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Anions, Ion Chromatography. The sample was analyzed on 5/24/2024.

Samples TDS-RP-20MAY24 (580-140271-1)[10x] and TDS-RP-20MAY24 (580-140271-1)[50x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 9056A - Anions, Ion Chromatography

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Anions, Ion Chromatography. The sample was analyzed on 5/23/2024 and 5/24/2024.

Samples TDS-RP-20MAY24 (580-140271-1)[10x], TDS-RP-20MAY24 (580-140271-1)[5x] and TDS-RP-20MAY24 (580-140271-1)[50x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 8290A - Dioxins and Furans (HRGC/HRMS)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Dioxins and Furans (HRGC/HRMS). The sample was prepared on 5/30/2024 and analyzed on 6/2/2024.

Method 6010D - Metals (ICP)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Metals (ICP). The sample was prepared on 5/28/2024 and analyzed on 5/28/2024 and 5/30/2024.

Method 6010D - Metals (ICP) - TCLP

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Metals (ICP) - TCLP. The sample was leached on 5/29/2024, prepared on 5/28/2024 and 5/29/2024 and analyzed on 5/29/2024 and 5/30/2024.

The TCLP leachate blank for batch 410-511428 contained Barium above the method detection limit (MDL) and below the reporting limit (RL). This target analyte concentration was less than the TCLP Regulatory Hazard Limit as well as the laboratory action limit. The associated samples were also below the TCLP Regulatory Hazard Limit for this analyte; therefore, re-extraction was not performed.

Method 7470A - Mercury (CVAA)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Mercury (CVAA). The sample was prepared and analyzed on 5/24/2024.

Method 7470A - Mercury (CVAA) - TCLP

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Mercury (CVAA) - TCLP. The sample was leached on 5/29/2024, prepared on 5/28/2024 and 5/29/2024 and analyzed on 5/29/2024 and 5/30/2024.

Method 1010B - Ignitability, Pensky-Martens Closed-Cup Method

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Ignitability, Pensky-Martens Closed-Cup Method. The sample was analyzed on 5/24/2024.

Method 1664B - HEM and SGT-HEM

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for HEM and SGT-HEM. The sample was analyzed on 5/24/2024.

Method 180.1 - Turbidity, Nephelometric

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Turbidity, Nephelometric. The sample was analyzed on 5/23/2024.

Method 2320B-2011 - Alkalinity, Total

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Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Alkalinity, Total. The sample was analyzed on 5/23/2024.

Method 2340C-2011 - Hardness, Total

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Hardness, Total. The sample was analyzed on 5/27/2024.

Sample TDS-RP-20MAY24 (580-140271-1)[5x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 2540C - 2015 - Solids, Total Dissolved (TDS)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Solids, Total Dissolved (TDS). The sample was analyzed on 5/23/2024.

Method 2540D-2015 - Solids, Total Suspended (TSS)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Solids, Total Suspended (TSS). The sample was analyzed on 5/23/2024.

Method 330.4 - Chlorine, Total Residual

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Chlorine, Total Residual. The sample was analyzed on 5/28/2024.

Method 351.2 - Nitrogen, Total Kjeldahl

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Nitrogen, Total Kjeldahl. The sample was prepared on 5/28/2024 and analyzed on 5/29/2024.

Method 360.1 - Oxygen, Dissolved

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Oxygen, Dissolved. The sample was analyzed on 5/27/2024.

Sample was transferred to 300 ml BOD bottle

TDS-RP-20MAY24 (580-140271-1)

Method 410.4 - COD

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for COD. The sample was analyzed on 5/28/2024.

Method 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Total Organic Carbon/Persulfate - Ultrav. The sample was analyzed on 5/29/2024.

Method 9012 - Cyanide, Reactive

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Cyanide, Reactive. The sample was prepared and analyzed on 5/28/2024.

Method 9012A - Cyanide, Total and/or Amenable

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Cyanide, Total and/or Amenable. The sample was prepared on 5/24/2024 and analyzed on 5/28/2024.

Method 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Sulfide, Acid Soluble and Insoluble (Titrimetric). The sample was analyzed on 5/24/2024.

Headspace observed in container for sulfide:

TDS-RP-20MAY24 (580-140271-1)

Method 9034 - Sulfide, Reactive

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Sulfide, Reactive. The sample was prepared and analyzed on 5/28/2024.

Method 9040C - pH

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for pH. The sample was analyzed on 5/23/2024.

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Case Narrative

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Method Nitrogen,Org - Nitrogen, Organic

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Nitrogen, Organic. The sample was analyzed on 5/29/2024.

Method Total Nitrogen - Nitrogen, Total

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Nitrogen, Total. The sample was analyzed on 5/26/2024.

Method 4500 NH3 D-2011 - Ammonia

Sample TDS-RP-20MAY24 (580-140271-1) was analyzed for Ammonia. The sample was analyzed on 5/29/2024.



Definitions/Glossary

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
N	Nontarget analyte: The analyte is a tentatively identified compound (using mass spectroscopy).

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Dioxin

Qualifier	Qualifier Description
I	Value is EMPC (estimated maximum possible concentration).
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

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

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Definitions/Glossary

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Client Sample ID: TDS-RP-20MAY24

Lab Sample ID: 580-140271-1

Date Collected: 05/20/24 14:45

Matrix: Water

Date Received: 05/23/24 09:40

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	6.0	U	100	3.0	ug/L			05/30/24 17:21	1
Acrylonitrile	3.2	U	20	1.6	ug/L			05/30/24 17:21	1
Benzene	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Carbon tetrachloride	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Chloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Chloroform	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Chloromethane	1.1	U Q	2.0	0.55	ug/L			05/30/24 17:21	1
1,2-Dichlorobenzene	0.50	U	5.0	0.20	ug/L			05/30/24 17:21	1
1,3-Dichlorobenzene	1.4	U	5.0	0.68	ug/L			05/30/24 17:21	1
1,4-Dichlorobenzene	0.60	U	5.0	0.30	ug/L			05/30/24 17:21	1
1,2-Dichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
1,1-Dichloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
trans-1,2-Dichloroethene	1.4	U	2.0	0.70	ug/L			05/30/24 17:21	1
1,2-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
1,3-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
2,2-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.20	ug/L			05/30/24 17:21	1
Ethylbenzene	0.80	U	1.0	0.40	ug/L			05/30/24 17:21	1
Hexachlorobutadiene	4.0	U	5.0	2.0	ug/L			05/30/24 17:21	1
1,1,1,2-Tetrachloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
1,1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Tetrachloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Toluene	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
1,1,1-Trichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
1,1,2-Trichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Trichloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Vinyl chloride	0.60	U	1.0	0.30	ug/L			05/30/24 17:21	1
Pentachloroethane	4.1	U Q	5.0	2.1	ug/L			05/30/24 17:21	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		05/30/24 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		89 - 112		05/30/24 17:21	1
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		05/30/24 17:21	1
4-Bromofluorobenzene (Surr)	97		85 - 114		05/30/24 17:21	1
Dibromofluoromethane (Surr)	109		80 - 119		05/30/24 17:21	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	43	U	65	22	ug/L		05/24/24 15:20	05/28/24 10:58	1
Bis(2-chloroethyl)ether	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
Bis(2-ethylhexyl) phthalate	4.3	U	5.4	2.2	ug/L		05/24/24 15:20	05/28/24 10:58	1
2-Chlorophenol	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
3,3'-Dichlorobenzidine	8.6	U Q	11	4.3	ug/L		05/24/24 15:20	05/28/24 10:58	1
2,4-Dichlorophenol	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
Diethyl phthalate	4.3	U	5.4	2.2	ug/L		05/24/24 15:20	05/28/24 10:58	1
2,4-Dimethylphenol	9.7	U	11	3.2	ug/L		05/24/24 15:20	05/28/24 10:58	1
Dimethyl phthalate	4.3	U	5.4	2.2	ug/L		05/24/24 15:20	05/28/24 10:58	1
Di-n-butyl phthalate	4.3	U	5.4	2.2	ug/L		05/24/24 15:20	05/28/24 10:58	1

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Client Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Client Sample ID: TDS-RP-20MAY24

Lab Sample ID: 580-140271-1

Date Collected: 05/20/24 14:45

Matrix: Water

Date Received: 05/23/24 09:40

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	30	U	32	15	ug/L		05/24/24 15:20	05/28/24 10:58	1
2,4-Dinitrotoluene	2.2	U	5.4	1.1	ug/L		05/24/24 15:20	05/28/24 10:58	1
2,6-Dinitrotoluene	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
Hexachlorobenzene	0.24	U	0.54	0.12	ug/L		05/24/24 15:20	05/28/24 10:58	1
Hexachlorocyclopentadiene	11	U	12	5.4	ug/L		05/24/24 15:20	05/28/24 10:58	1
Hexachloroethane	1.1	U	5.4	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
Isophorone	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
4,6-Dinitro-o-cresol	22	U	23	8.6	ug/L		05/24/24 15:20	05/28/24 10:58	1
Nitrobenzene	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
2-Nitrophenol	2.2	U M	5.4	1.1	ug/L		05/24/24 15:20	05/28/24 10:58	1
4-Nitrophenol	22	U	32	11	ug/L		05/24/24 15:20	05/28/24 10:58	1
N-Nitrosodimethylamine	4.3	U	5.4	2.2	ug/L		05/24/24 15:20	05/28/24 10:58	1
N-Nitrosodiphenylamine	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
bis(chloroisopropyl) ether	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
Pentachlorophenol	4.3	U	5.4	1.1	ug/L		05/24/24 15:20	05/28/24 10:58	1
Phenol	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
1,2,4,5-Tetrachlorobenzene	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1
2,4,6-Trichlorophenol	1.1	U	2.2	0.54	ug/L		05/24/24 15:20	05/28/24 10:58	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Trichloroethylene	5.2	N	ug/L		1.81	79-01-6	05/24/24 15:20	05/28/24 10:58	1
Benzene, chloro-	7.1	N	ug/L		3.06	108-90-7	05/24/24 15:20	05/28/24 10:58	1
Unknown	7.6	N	ug/L		7.35	N/A	05/24/24 15:20	05/28/24 10:58	1
Unknown	5.0	N	ug/L		8.71	N/A	05/24/24 15:20	05/28/24 10:58	1
Unknown	5.9	N	ug/L		9.21	N/A	05/24/24 15:20	05/28/24 10:58	1
Unknown	11	N	ug/L		13.08	N/A	05/24/24 15:20	05/28/24 10:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	42		19 - 119	05/24/24 15:20	05/28/24 10:58	1
2,4,6-Tribromophenol (Surr)	86		43 - 140	05/24/24 15:20	05/28/24 10:58	1
Nitrobenzene-d5 (Surr)	71		44 - 120	05/24/24 15:20	05/28/24 10:58	1
Phenol-d5 (Surr)	36		10 - 120	05/24/24 15:20	05/28/24 10:58	1
p-Terphenyl-d14 (Surr)	69		50 - 134	05/24/24 15:20	05/28/24 10:58	1
2-Fluorobiphenyl (Surr)	81		44 - 119	05/24/24 15:20	05/28/24 10:58	1

Method: SW846 8015D DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	290	M	110	48	ug/L		05/24/24 15:26	05/25/24 02:44	1
ORO (>C28-C40)	96	U M	110	48	ug/L		05/24/24 15:26	05/25/24 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	84		56 - 125	05/24/24 15:26	05/25/24 02:44	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.0052	J M J1	0.022	0.0033	ug/L		05/24/24 15:33	05/25/24 08:15	1
gamma-BHC (Lindane)	0.0044	U	0.022	0.0022	ug/L		05/24/24 15:33	05/25/24 08:15	1
beta-BHC	0.034	J1	0.033	0.012	ug/L		05/24/24 15:33	05/25/24 08:15	1
delta-BHC	0.0075	U	0.022	0.0037	ug/L		05/24/24 15:33	05/25/24 08:15	1
Heptachlor	0.0078	J M J1	0.022	0.0022	ug/L		05/24/24 15:33	05/25/24 08:15	1
Aldrin	0.010	J	0.022	0.0022	ug/L		05/24/24 15:33	05/25/24 08:15	1

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Client Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Client Sample ID: TDS-RP-20MAY24

Lab Sample ID: 580-140271-1

Date Collected: 05/20/24 14:45

Matrix: Water

Date Received: 05/23/24 09:40

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	0.0056	J	0.022	0.0025	ug/L		05/24/24 15:33	05/25/24 08:15	1
trans-Chlordane	0.013	J J1	0.044	0.0077	ug/L		05/24/24 15:33	05/25/24 08:15	1
cis-Chlordane	0.017	J	0.022	0.0033	ug/L		05/24/24 15:33	05/25/24 08:15	1
Endosulfan I	0.010	J	0.022	0.0047	ug/L		05/24/24 15:33	05/25/24 08:15	1
4,4'-DDE	0.0087	J	0.033	0.0055	ug/L		05/24/24 15:33	05/25/24 08:15	1
Dieldrin	0.022	U	0.033	0.0058	ug/L		05/24/24 15:33	05/25/24 08:15	1
Endrin	0.022	U M	0.033	0.0089	ug/L		05/24/24 15:33	05/25/24 08:15	1
4,4'-DDD	0.011	U	0.033	0.0055	ug/L		05/24/24 15:33	05/25/24 08:15	1
Endosulfan II	0.033	U	0.044	0.016	ug/L		05/24/24 15:33	05/25/24 08:15	1
4,4'-DDT	0.022	U M	0.033	0.0057	ug/L		05/24/24 15:33	05/25/24 08:15	1
Endrin aldehyde	0.044	U	0.11	0.022	ug/L		05/24/24 15:33	05/25/24 08:15	1
Endosulfan sulfate	0.022	U	0.033	0.0064	ug/L		05/24/24 15:33	05/25/24 08:15	1
Methoxychlor	0.066	U	0.12	0.033	ug/L		05/24/24 15:33	05/25/24 08:15	1
Endrin ketone	0.011	U	0.033	0.0055	ug/L		05/24/24 15:33	05/25/24 08:15	1
Toxaphene	0.66	U M	1.1	0.33	ug/L		05/24/24 15:33	05/25/24 08:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		44 - 124				05/24/24 15:33	05/25/24 08:15	1
Tetrachloro-m-xylene	69	M	44 - 124				05/24/24 15:33	05/25/24 08:15	1
DCB Decachlorobiphenyl (Surr)	48		20 - 148				05/24/24 15:33	05/25/24 08:15	1
DCB Decachlorobiphenyl (Surr)	47		20 - 148				05/24/24 15:33	05/25/24 08:15	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.22	U M	0.55	0.11	ug/L		05/24/24 15:37	05/27/24 15:26	1
PCB-1221	0.22	U	0.55	0.11	ug/L		05/24/24 15:37	05/27/24 15:26	1
PCB-1232	0.22	U M	0.55	0.11	ug/L		05/24/24 15:37	05/27/24 15:26	1
PCB-1242	0.22	U M	0.55	0.11	ug/L		05/24/24 15:37	05/27/24 15:26	1
PCB-1248	0.22	U M	0.55	0.11	ug/L		05/24/24 15:37	05/27/24 15:26	1
PCB-1254	0.22	U M	0.55	0.086	ug/L		05/24/24 15:37	05/27/24 15:26	1
PCB-1260	0.22	U	0.55	0.086	ug/L		05/24/24 15:37	05/27/24 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		33 - 137				05/24/24 15:37	05/27/24 15:26	1
Tetrachloro-m-xylene	69		33 - 137				05/24/24 15:37	05/27/24 15:26	1
DCB Decachlorobiphenyl (Surr)	61	Q	10 - 148				05/24/24 15:37	05/27/24 15:26	1
DCB Decachlorobiphenyl (Surr)	64		10 - 148				05/24/24 15:37	05/27/24 15:26	1

Method: SW846 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.14	U	0.16	0.069	ug/L		05/25/24 05:56	05/28/24 15:18	1
Silvex (2,4,5-TP)	0.046	U	0.053	0.023	ug/L		05/25/24 05:56	05/28/24 15:18	1
2,4-D	0.53	U	0.63	0.26	ug/L		05/25/24 05:56	05/28/24 15:18	1
2,4-DB	1.4	U	1.6	0.67	ug/L		05/25/24 05:56	05/28/24 15:18	1
Dichlorprop	0.34	U	0.53	0.17	ug/L		05/25/24 05:56	05/28/24 15:18	1
Dalapon	12	U	13	6.0	ug/L		05/25/24 05:56	05/28/24 15:18	1
Dicamba	0.57	U	0.58	0.29	ug/L		05/25/24 05:56	05/28/24 15:18	1
MCPPP	110	U	210	53	ug/L		05/25/24 05:56	05/28/24 15:18	1
MCPA	110	U	210	53	ug/L		05/25/24 05:56	05/28/24 15:18	1
Pentachlorophenol	0.063	U	0.074	0.029	ug/L		05/25/24 05:56	05/28/24 15:18	1

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Client Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Client Sample ID: TDS-RP-20MAY24

Lab Sample ID: 580-140271-1

Date Collected: 05/20/24 14:45

Matrix: Water

Date Received: 05/23/24 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	91		32 - 138	05/25/24 05:56	05/28/24 15:18	1
2,4-Dichlorophenylacetic acid (Surr)	99		32 - 138	05/25/24 05:56	05/28/24 15:18	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	1.5	H H3	0.55	0.25	mg/L			05/23/24 19:18	5
Nitrate as N	15	H H3	1.1	0.50	mg/L			05/24/24 12:47	10
Nitrate Nitrite as N	18	J1 H H3	5.5	0.25	mg/L			05/23/24 19:18	5

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	240	Q	15	5.0	mg/L			05/24/24 12:47	10

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	2.1	U M	5.3	0.93	pg/L		05/30/24 22:57	06/02/24 04:41	1
Total TCDD	1.1	J I	5.3	0.93	pg/L		05/30/24 22:57	06/02/24 04:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C-2,3,7,8-TCDD	70		40 - 135	05/30/24 22:57	06/02/24 04:41	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.032	U	0.050	0.016	mg/L		05/28/24 06:50	05/28/24 17:20	1
Arsenic	0.032	U	0.050	0.016	mg/L		05/28/24 06:50	05/28/24 17:20	1
Barium	0.025		0.0050	0.0010	mg/L		05/28/24 06:50	05/28/24 17:20	1
Beryllium	0.0020	U	0.0050	0.0010	mg/L		05/28/24 06:50	05/28/24 17:20	1
Cadmium	0.0020	U	0.0050	0.0010	mg/L		05/28/24 06:50	05/28/24 17:20	1
Chromium	0.0055	J	0.015	0.0030	mg/L		05/28/24 06:50	05/28/24 17:20	1
Cobalt	0.0020	J	0.0050	0.0015	mg/L		05/28/24 06:50	05/28/24 17:20	1
Copper	0.016	U	0.020	0.0080	mg/L		05/28/24 06:50	05/28/24 17:20	1
Lead	0.014	U	0.015	0.0071	mg/L		05/28/24 06:50	05/28/24 17:20	1
Molybdenum	0.0061	J	0.010	0.0020	mg/L		05/28/24 06:50	05/28/24 17:20	1
Nickel	0.0040	U	0.010	0.0021	mg/L		05/28/24 06:50	05/28/24 17:20	1
Selenium	0.032	U	0.050	0.016	mg/L		05/28/24 06:50	05/28/24 17:20	1
Silver	0.0080	U	0.010	0.0040	mg/L		05/28/24 06:50	05/28/24 17:20	1
Thallium	0.024	U	0.030	0.012	mg/L		05/28/24 06:50	05/30/24 11:26	1
Zinc	0.0074	U	0.020	0.0037	mg/L		05/28/24 06:50	05/28/24 17:20	1
Vanadium	0.011		0.010	0.0019	mg/L		05/28/24 06:50	05/28/24 17:20	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.32	U	0.50	0.16	mg/L		05/29/24 21:10	05/30/24 07:07	1
Barium	0.028	J B	0.050	0.010	mg/L		05/29/24 21:10	05/30/24 07:07	1
Cadmium	0.020	U	0.050	0.010	mg/L		05/29/24 21:10	05/30/24 07:07	1
Chromium	0.060	U	0.15	0.030	mg/L		05/29/24 21:10	05/30/24 07:07	1
Lead	0.14	U	0.15	0.071	mg/L		05/29/24 21:10	05/30/24 07:07	1
Selenium	0.32	U	0.50	0.16	mg/L		05/29/24 21:10	05/30/24 07:07	1
Silver	0.080	U	0.10	0.040	mg/L		05/29/24 21:10	05/30/24 07:07	1

Client Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Client Sample ID: TDS-RP-20MAY24

Lab Sample ID: 580-140271-1

Date Collected: 05/20/24 14:45

Matrix: Water

Date Received: 05/23/24 09:40

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	U	0.20	0.079	ug/L		05/24/24 08:45	05/24/24 15:40	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	U	0.20	0.079	ug/L		05/29/24 23:35	05/30/24 10:52	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010B)	>190		50	50	Degrees F			05/24/24 03:31	1
HEM (Oil & Grease) (1664B)	1.4	J	5.1	1.4	mg/L			05/24/24 17:38	1
SGT-HEM (TPH) (1664B)	4.0	U	5.1	1.4	mg/L			05/24/24 17:38	1
Turbidity (EPA 180.1)	11	H H3	1.0	1.0	NTU			05/23/24 18:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	37		8.0	2.6	mg/L			05/23/24 21:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	5.6	J	8.0	2.6	mg/L			05/23/24 21:32	1
Hydroxide Alkalinity (SM 2320B-2011)	6.0	U	8.0	2.6	mg/L			05/23/24 21:32	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B-2011)	42		8.0	2.6	mg/L			05/23/24 21:32	1
Total Hardness (SM 2340C-2011)	160	J1	50	15	mg/L			05/27/24 08:08	5
Total Dissolved Solids (SM 2540C - 2015)	730		60	24	mg/L			05/23/24 13:08	1
Total Suspended Solids (SM 2540D-2015)	23		6.0	2.0	mg/L			05/23/24 18:32	1
Residual Chlorine (EPA 330.4)	0.15	U HF	0.20	0.060	mg/L			05/28/24 23:37	1
Nitrogen, Kjeldahl (EPA 351.2)	3.0		1.5	0.50	mg/L		05/28/24 17:33	05/29/24 12:34	1
Oxygen, Dissolved (EPA 360.1)	5.0	HF	0.40	0.40	mg/L			05/27/24 10:56	1
Chemical Oxygen Demand (EPA 410.4)	59	J	75	25	mg/L			05/28/24 07:39	1
Ammonia-N (SM 4500 NH3 D-2011)	0.11	J	0.24	0.080	mg/L			05/29/24 11:39	1
Total Organic Carbon (SM 5310 C-2014)	11		1.0	0.50	mg/L			05/29/24 04:48	1
Cyanide, Reactive (SW846 9012)	50	U	59	20	mg/Kg		05/28/24 09:29	05/28/24 17:50	1
Cyanide, Total (SW846 9012A)	0.0090	U	0.010	0.0050	mg/L		05/24/24 10:54	05/28/24 17:02	1
Sulfide (SW846 9034)	1.5	U	2.0	0.70	mg/L			05/24/24 09:10	1
Sulfide, Reactive (SW846 9034)	140	U	160	53	mg/Kg		05/28/24 09:29	05/28/24 13:42	1
pH (SW846 9040C)	8.5	HF	0.01	0.01	S.U.			05/23/24 21:32	1
Temperature (SW846 9040C)	23.6	HF	0.01	0.01	Degrees C			05/23/24 21:32	1
Nitrogen, Organic (EPA Nitrogen,Org)	2.9		1.0	0.50	mg/L			05/29/24 16:23	1
Nitrogen, Total (EPA Total Nitrogen)	21		1.0	0.50	mg/L			05/26/24 23:16	1

Client Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Client Sample ID: Trip Blank

Lab Sample ID: 580-140271-2

Date Collected: 05/20/24 00:00

Matrix: Water

Date Received: 05/23/24 09:40

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	6.0	U	100	3.0	ug/L			05/30/24 17:43	1
Acrylonitrile	3.2	U	20	1.6	ug/L			05/30/24 17:43	1
Benzene	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Carbon tetrachloride	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Chloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Chloroform	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Chloromethane	1.1	U Q	2.0	0.55	ug/L			05/30/24 17:43	1
1,2-Dichlorobenzene	0.50	U	5.0	0.20	ug/L			05/30/24 17:43	1
1,3-Dichlorobenzene	1.4	U	5.0	0.68	ug/L			05/30/24 17:43	1
1,4-Dichlorobenzene	0.60	U	5.0	0.30	ug/L			05/30/24 17:43	1
1,2-Dichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
1,1-Dichloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
trans-1,2-Dichloroethene	1.4	U	2.0	0.70	ug/L			05/30/24 17:43	1
1,2-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
1,3-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
2,2-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.20	ug/L			05/30/24 17:43	1
Ethylbenzene	0.80	U	1.0	0.40	ug/L			05/30/24 17:43	1
Hexachlorobutadiene	4.0	U	5.0	2.0	ug/L			05/30/24 17:43	1
1,1,1,2-Tetrachloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
1,1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Tetrachloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Toluene	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
1,1,1-Trichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
1,1,2-Trichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Trichloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Vinyl chloride	0.60	U	1.0	0.30	ug/L			05/30/24 17:43	1
Pentachloroethane	4.1	U Q	5.0	2.1	ug/L			05/30/24 17:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A		05/30/24 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		89 - 112		05/30/24 17:43	1
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		05/30/24 17:43	1
4-Bromofluorobenzene (Surr)	99		85 - 114		05/30/24 17:43	1
Dibromofluoromethane (Surr)	111		80 - 119		05/30/24 17:43	1

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-511809/10
Matrix: Water
Analysis Batch: 511809

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

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acrolein	6.0	U	100	3.0	ug/L			05/30/24 11:26	1
Acrylonitrile	3.2	U	20	1.6	ug/L			05/30/24 11:26	1
Benzene	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Carbon tetrachloride	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Chloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Chloroform	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Chloromethane	1.1	U	2.0	0.55	ug/L			05/30/24 11:26	1
1,2-Dichlorobenzene	0.50	U	5.0	0.20	ug/L			05/30/24 11:26	1
1,3-Dichlorobenzene	1.4	U	5.0	0.68	ug/L			05/30/24 11:26	1
1,4-Dichlorobenzene	0.60	U	5.0	0.30	ug/L			05/30/24 11:26	1
1,2-Dichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
1,1-Dichloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
trans-1,2-Dichloroethene	1.4	U	2.0	0.70	ug/L			05/30/24 11:26	1
1,2-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
1,3-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
2,2-Dichloropropane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.20	ug/L			05/30/24 11:26	1
Ethylbenzene	0.80	U	1.0	0.40	ug/L			05/30/24 11:26	1
Hexachlorobutadiene	4.0	U	5.0	2.0	ug/L			05/30/24 11:26	1
1,1,1,2-Tetrachloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
1,1,1,2,2-Tetrachloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Tetrachloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Toluene	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
1,1,1-Trichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
1,1,2-Trichloroethane	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Trichloroethene	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Vinyl chloride	0.60	U	1.0	0.30	ug/L			05/30/24 11:26	1
Pentachloroethane	4.1	U	5.0	2.1	ug/L			05/30/24 11:26	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A		05/30/24 11:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	100		89 - 112		05/30/24 11:26	1
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		05/30/24 11:26	1
4-Bromofluorobenzene (Surr)	97		85 - 114		05/30/24 11:26	1
Dibromofluoromethane (Surr)	111		80 - 119		05/30/24 11:26	1

Lab Sample ID: LCS 410-511809/5
Matrix: Water
Analysis Batch: 511809

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Acrolein	150	164		ug/L		109	39 - 155
Acrylonitrile	100	111		ug/L		111	63 - 135
Benzene	20.0	21.1		ug/L		106	79 - 120
Carbon tetrachloride	20.0	22.2		ug/L		111	72 - 136
Chloroethane	20.0	19.9		ug/L		100	60 - 138

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-511809/5
Matrix: Water
Analysis Batch: 511809

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	20.0	18.8		ug/L		94	79 - 124
Chloromethane	20.0	17.7		ug/L		88	50 - 139
1,2-Dichlorobenzene	20.0	19.1		ug/L		95	80 - 119
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 119
1,4-Dichlorobenzene	20.0	19.5		ug/L		97	79 - 118
1,2-Dichloroethane	20.0	22.2		ug/L		111	73 - 128
1,1-Dichloroethene	20.0	22.8		ug/L		114	71 - 131
trans-1,2-Dichloroethene	20.0	21.6		ug/L		108	75 - 124
1,2-Dichloropropane	20.0	21.6		ug/L		108	78 - 122
1,3-Dichloropropane	20.0	21.5		ug/L		107	80 - 119
2,2-Dichloropropane	20.0	20.0		ug/L		100	60 - 139
trans-1,3-Dichloropropene	20.0	20.0		ug/L		100	73 - 127
Ethylbenzene	20.0	20.7		ug/L		103	79 - 121
Hexachlorobutadiene	20.0	19.9		ug/L		99	66 - 134
1,1,1,2-Tetrachloroethane	20.0	20.3		ug/L		102	78 - 124
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	71 - 121
Tetrachloroethene	20.0	19.4		ug/L		97	74 - 129
Toluene	20.0	20.8		ug/L		104	80 - 121
1,1,1-Trichloroethane	20.0	21.9		ug/L		109	74 - 131
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	80 - 119
Trichloroethene	20.0	20.8		ug/L		104	79 - 123
Vinyl chloride	20.0	17.5		ug/L		87	58 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	104		89 - 112
1,2-Dichloroethane-d4 (Surr)	104		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	104		80 - 119

Lab Sample ID: LCS 410-511809/7
Matrix: Water
Analysis Batch: 511809

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachloroethane	20.0	23.0		ug/L		115	69 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		89 - 112
1,2-Dichloroethane-d4 (Surr)	102		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	107		80 - 119

Lab Sample ID: LCSD 410-511809/6
Matrix: Water
Analysis Batch: 511809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein	150	168		ug/L		112	39 - 155	2	20

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-511809/6
Matrix: Water
Analysis Batch: 511809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrylonitrile	100	110		ug/L		110	63 - 135	1	20
Benzene	20.0	21.6		ug/L		108	79 - 120	2	20
Carbon tetrachloride	20.0	23.2		ug/L		116	72 - 136	4	20
Chloroethane	20.0	20.3		ug/L		101	60 - 138	2	20
Chloroform	20.0	19.4		ug/L		97	79 - 124	3	20
Chloromethane	20.0	17.5		ug/L		87	50 - 139	1	20
1,2-Dichlorobenzene	20.0	19.5		ug/L		97	80 - 119	2	20
1,3-Dichlorobenzene	20.0	19.7		ug/L		98	80 - 119	3	20
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	79 - 118	3	20
1,2-Dichloroethane	20.0	23.8		ug/L		119	73 - 128	7	20
1,1-Dichloroethene	20.0	23.9		ug/L		119	71 - 131	4	20
trans-1,2-Dichloroethene	20.0	21.9		ug/L		109	75 - 124	1	20
1,2-Dichloropropane	20.0	21.9		ug/L		110	78 - 122	2	20
1,3-Dichloropropane	20.0	22.0		ug/L		110	80 - 119	2	20
2,2-Dichloropropane	20.0	20.7		ug/L		103	60 - 139	3	20
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	73 - 127	3	20
Ethylbenzene	20.0	21.0		ug/L		105	79 - 121	2	20
Hexachlorobutadiene	20.0	20.2		ug/L		101	66 - 134	2	20
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	78 - 124	1	20
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121	3	20
Tetrachloroethene	20.0	19.7		ug/L		99	74 - 129	1	20
Toluene	20.0	21.6		ug/L		108	80 - 121	4	20
1,1,1-Trichloroethane	20.0	22.1		ug/L		110	74 - 131	1	20
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	80 - 119	0	20
Trichloroethene	20.0	21.2		ug/L		106	79 - 123	2	20
Vinyl chloride	20.0	17.2		ug/L		86	58 - 137	2	20

Surrogate	%Recovery	Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	106		89 - 112
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		81 - 118
<i>4-Bromofluorobenzene (Surr)</i>	101		85 - 114
<i>Dibromofluoromethane (Surr)</i>	104		80 - 119

Lab Sample ID: LCSD 410-511809/8
Matrix: Water
Analysis Batch: 511809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pentachloroethane	20.0	22.3		ug/L		112	69 - 133	3	20

Surrogate	%Recovery	Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	102		89 - 112
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		81 - 118
<i>4-Bromofluorobenzene (Surr)</i>	97		85 - 114
<i>Dibromofluoromethane (Surr)</i>	108		80 - 119

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-510371/1-A
Matrix: Water
Analysis Batch: 510792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510371

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzidine	40	U	60	20	ug/L		05/24/24 15:20	05/28/24 08:26	1
Bis(2-chloroethyl)ether	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
Bis(2-ethylhexyl) phthalate	4.0	U	5.0	2.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
2-Chlorophenol	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
3,3'-Dichlorobenzidine	8.0	U	10	4.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
2,4-Dichlorophenol	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
Diethyl phthalate	4.0	U	5.0	2.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
2,4-Dimethylphenol	9.0	U	10	3.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
Dimethyl phthalate	4.0	U	5.0	2.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
Di-n-butyl phthalate	4.0	U	5.0	2.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
2,4-Dinitrophenol	28	U	30	14	ug/L		05/24/24 15:20	05/28/24 08:26	1
2,4-Dinitrotoluene	2.0	U	5.0	1.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
2,6-Dinitrotoluene	1.0	U M	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
Hexachlorobenzene	0.22	U	0.50	0.11	ug/L		05/24/24 15:20	05/28/24 08:26	1
Hexachlorocyclopentadiene	10	U	11	5.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
Hexachloroethane	1.0	U	5.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
Isophorone	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
4,6-Dinitro-o-cresol	20	U	21	8.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
Nitrobenzene	1.0	U M	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
2-Nitrophenol	2.0	U	5.0	1.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
4-Nitrophenol	20	U	30	10	ug/L		05/24/24 15:20	05/28/24 08:26	1
N-Nitrosodimethylamine	4.0	U	5.0	2.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
N-Nitrosodiphenylamine	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
bis(chloroisopropyl) ether	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
Pentachlorophenol	4.0	U	5.0	1.0	ug/L		05/24/24 15:20	05/28/24 08:26	1
Phenol	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
1,2,4,5-Tetrachlorobenzene	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1
2,4,6-Trichlorophenol	1.0	U	2.0	0.50	ug/L		05/24/24 15:20	05/28/24 08:26	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	05/24/24 15:20	05/28/24 08:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	45		19 - 119	05/24/24 15:20	05/28/24 08:26	1
2,4,6-Tribromophenol (Surr)	87		43 - 140	05/24/24 15:20	05/28/24 08:26	1
Nitrobenzene-d5 (Surr)	77		44 - 120	05/24/24 15:20	05/28/24 08:26	1
Phenol-d5 (Surr)	32		10 - 120	05/24/24 15:20	05/28/24 08:26	1
p-Terphenyl-d14 (Surr)	88		50 - 134	05/24/24 15:20	05/28/24 08:26	1
2-Fluorobiphenyl (Surr)	86		44 - 119	05/24/24 15:20	05/28/24 08:26	1

Lab Sample ID: LCS 410-510371/2-A
Matrix: Water
Analysis Batch: 510792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510371

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzidine	100	32.5	J	ug/L		33	10 - 53
Bis(2-chloroethyl)ether	50.0	43.3		ug/L		87	43 - 118
Bis(2-ethylhexyl) phthalate	50.0	53.2		ug/L		106	55 - 135

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-510371/2-A
Matrix: Water
Analysis Batch: 510792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorophenol	50.0	42.3		ug/L		85	38 - 117
3,3'-Dichlorobenzidine	100	90.0		ug/L		90	27 - 129
2,4-Dichlorophenol	50.0	45.3		ug/L		91	47 - 121
Diethyl phthalate	50.0	51.1		ug/L		102	56 - 125
2,4-Dimethylphenol	50.0	40.2		ug/L		80	31 - 124
Dimethyl phthalate	50.0	48.8		ug/L		98	45 - 127
Di-n-butyl phthalate	50.0	50.5		ug/L		101	59 - 127
2,4-Dinitrophenol	100	108		ug/L		108	23 - 143
2,4-Dinitrotoluene	50.0	48.7		ug/L		97	57 - 128
2,6-Dinitrotoluene	50.0	48.9		ug/L		98	57 - 124
Hexachlorobenzene	50.0	46.6		ug/L		93	53 - 125
Hexachlorocyclopentadiene	50.0	19.1		ug/L		38	10 - 82
Hexachloroethane	50.0	32.2		ug/L		64	21 - 115
Isophorone	50.0	43.8		ug/L		88	42 - 124
4,6-Dinitro-o-cresol	100	117		ug/L		117	44 - 137
Nitrobenzene	50.0	39.8		ug/L		80	45 - 121
2-Nitrophenol	50.0	43.6		ug/L		87	47 - 123
4-Nitrophenol	100	57.1		ug/L		57	17 - 120
N-Nitrosodimethylamine	50.0	24.6		ug/L		49	34 - 77
N-Nitrosodiphenylamine	42.5	42.2		ug/L		99	51 - 123
bis(chloroisopropyl) ether	50.0	43.8		ug/L		88	37 - 130
Pentachlorophenol	100	107		ug/L		107	35 - 138
Phenol	50.0	22.6		ug/L		45	22 - 69
1,2,4,5-Tetrachlorobenzene	50.0	40.7		ug/L		81	35 - 121
2,4,6-Trichlorophenol	50.0	48.1		ug/L		96	50 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	49		19 - 119
2,4,6-Tribromophenol (Surr)	91		43 - 140
Nitrobenzene-d5 (Surr)	69		44 - 120
Phenol-d5 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	87		50 - 134
2-Fluorobiphenyl (Surr)	75		44 - 119

Lab Sample ID: LCSD 410-510371/3-A
Matrix: Water
Analysis Batch: 510792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 510371

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzidine	100	31.0	J	ug/L		31	10 - 53	5	30
Bis(2-chloroethyl)ether	50.0	42.3		ug/L		85	43 - 118	2	20
Bis(2-ethylhexyl) phthalate	50.0	51.0		ug/L		102	55 - 135	4	20
2-Chlorophenol	50.0	37.0		ug/L		74	38 - 117	13	20
3,3'-Dichlorobenzidine	100	72.5	Q	ug/L		73	27 - 129	21	20
2,4-Dichlorophenol	50.0	40.9		ug/L		82	47 - 121	10	20
Diethyl phthalate	50.0	52.0		ug/L		104	56 - 125	2	20
2,4-Dimethylphenol	50.0	38.7		ug/L		77	31 - 124	4	20
Dimethyl phthalate	50.0	48.9		ug/L		98	45 - 127	0	20

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-510371/3-A
Matrix: Water
Analysis Batch: 510792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 510371

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-butyl phthalate	50.0	53.2		ug/L		106	59 - 127	5	20
2,4-Dinitrophenol	100	105		ug/L		105	23 - 143	3	20
2,4-Dinitrotoluene	50.0	51.4		ug/L		103	57 - 128	5	20
2,6-Dinitrotoluene	50.0	49.6		ug/L		99	57 - 124	1	20
Hexachlorobenzene	50.0	48.3		ug/L		97	53 - 125	4	20
Hexachlorocyclopentadiene	50.0	15.7		ug/L		31	10 - 82	20	30
Hexachloroethane	50.0	34.0		ug/L		68	21 - 115	6	20
Isophorone	50.0	39.1		ug/L		78	42 - 124	11	20
4,6-Dinitro-o-cresol	100	115		ug/L		115	44 - 137	2	20
Nitrobenzene	50.0	41.0		ug/L		82	45 - 121	3	20
2-Nitrophenol	50.0	40.3		ug/L		81	47 - 123	8	20
4-Nitrophenol	100	57.3		ug/L		57	17 - 120	0	30
N-Nitrosodimethylamine	50.0	23.9		ug/L		48	34 - 77	3	30
N-Nitrosodiphenylamine	42.5	43.0		ug/L		101	51 - 123	2	20
bis(chloroisopropyl) ether	50.0	39.1		ug/L		78	37 - 130	11	20
Pentachlorophenol	100	104		ug/L		104	35 - 138	3	20
Phenol	50.0	19.9		ug/L		40	22 - 69	13	30
1,2,4,5-Tetrachlorobenzene	50.0	39.7		ug/L		79	35 - 121	3	20
2,4,6-Trichlorophenol	50.0	44.3		ug/L		89	50 - 125	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	46		19 - 119
2,4,6-Tribromophenol (Surr)	87		43 - 140
Nitrobenzene-d5 (Surr)	73		44 - 120
Phenol-d5 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	86		50 - 134
2-Fluorobiphenyl (Surr)	70		44 - 119

Method: 8015D DRO - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 410-510382/1-A
Matrix: Water
Analysis Batch: 510475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510382

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	90	U M	100	45	ug/L		05/24/24 15:26	05/25/24 00:28	1
ORO (>C28-C40)	90	U M	100	45	ug/L		05/24/24 15:26	05/25/24 00:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	84		56 - 125	05/24/24 15:26	05/25/24 00:28	1

Lab Sample ID: LCS 410-510382/2-A
Matrix: Water
Analysis Batch: 510475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DRO (C10-C28)	603	401		ug/L		67	36 - 132

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8015D DRO - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 410-510382/2-A
Matrix: Water
Analysis Batch: 510475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510382

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o-terphenyl (Surr)</i>	76		56 - 125

Lab Sample ID: LCS 410-510382/4-A
Matrix: Water
Analysis Batch: 510475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510382

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o-terphenyl (Surr)</i>	90		56 - 125

Lab Sample ID: LCSD 410-510382/3-A
Matrix: Water
Analysis Batch: 510475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 510382

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DRO (C10-C28)	603	437		ug/L		73	36 - 132	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o-terphenyl (Surr)</i>	86		56 - 125

Lab Sample ID: LCSD 410-510382/5-A
Matrix: Water
Analysis Batch: 510475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 510382

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o-terphenyl (Surr)</i>	84		56 - 125

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 410-510391/1-A
Matrix: Water
Analysis Batch: 510502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510391

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.0060	U	0.020	0.0030	ug/L		05/24/24 15:33	05/25/24 05:34	1
gamma-BHC (Lindane)	0.0040	U	0.020	0.0020	ug/L		05/24/24 15:33	05/25/24 05:34	1
beta-BHC	0.022	U	0.030	0.011	ug/L		05/24/24 15:33	05/25/24 05:34	1
delta-BHC	0.0068	U	0.020	0.0034	ug/L		05/24/24 15:33	05/25/24 05:34	1
Heptachlor	0.0040	U	0.020	0.0020	ug/L		05/24/24 15:33	05/25/24 05:34	1
Aldrin	0.0040	U	0.020	0.0020	ug/L		05/24/24 15:33	05/25/24 05:34	1
Heptachlor epoxide	0.0046	U	0.020	0.0023	ug/L		05/24/24 15:33	05/25/24 05:34	1
trans-Chlordane	0.014	U	0.040	0.0070	ug/L		05/24/24 15:33	05/25/24 05:34	1
cis-Chlordane	0.0060	U	0.020	0.0030	ug/L		05/24/24 15:33	05/25/24 05:34	1
Endosulfan I	0.0086	U	0.020	0.0043	ug/L		05/24/24 15:33	05/25/24 05:34	1
4,4'-DDE	0.020	U	0.030	0.0050	ug/L		05/24/24 15:33	05/25/24 05:34	1
Dieldrin	0.020	U	0.030	0.0053	ug/L		05/24/24 15:33	05/25/24 05:34	1
Endrin	0.020	U	0.030	0.0081	ug/L		05/24/24 15:33	05/25/24 05:34	1
4,4'-DDD	0.010	U	0.030	0.0050	ug/L		05/24/24 15:33	05/25/24 05:34	1
Endosulfan II	0.030	U	0.040	0.015	ug/L		05/24/24 15:33	05/25/24 05:34	1

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 410-510391/1-A
Matrix: Water
Analysis Batch: 510502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510391

Analyte	MB MB		LOQ	DL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
4,4'-DDT	0.020	U	0.030	0.0052	ug/L		05/24/24 15:33	05/25/24 05:34	05:34	1	
Endrin aldehyde	0.040	U	0.10	0.020	ug/L		05/24/24 15:33	05/25/24 05:34	05:34	1	
Endosulfan sulfate	0.020	U	0.030	0.0058	ug/L		05/24/24 15:33	05/25/24 05:34	05:34	1	
Methoxychlor	0.060	U	0.11	0.030	ug/L		05/24/24 15:33	05/25/24 05:34	05:34	1	
Endrin ketone	0.010	U	0.030	0.0050	ug/L		05/24/24 15:33	05/25/24 05:34	05:34	1	
Toxaphene	0.60	U M	1.0	0.30	ug/L		05/24/24 15:33	05/25/24 05:34	05:34	1	

Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier						
Tetrachloro-m-xylene	74		44 - 124	05/24/24 15:33	05/25/24 05:34	05:34	1	
Tetrachloro-m-xylene	72		44 - 124	05/24/24 15:33	05/25/24 05:34	05:34	1	
DCB Decachlorobiphenyl (Surr)	69		20 - 148	05/24/24 15:33	05/25/24 05:34	05:34	1	
DCB Decachlorobiphenyl (Surr)	69		20 - 148	05/24/24 15:33	05/25/24 05:34	05:34	1	

Lab Sample ID: LCS 410-510391/2-A
Matrix: Water
Analysis Batch: 510502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
alpha-BHC	0.100	0.0932		ug/L		93	54 - 138	
gamma-BHC (Lindane)	0.100	0.0932		ug/L		93	59 - 134	
beta-BHC	0.100	0.0997		ug/L		100	56 - 136	
delta-BHC	0.100	0.0911		ug/L		91	52 - 142	
Heptachlor	0.100	0.0802		ug/L		80	54 - 130	
Aldrin	0.100	0.0627		ug/L		63	45 - 134	
Heptachlor epoxide	0.100	0.0903		ug/L		90	61 - 133	
trans-Chlordane	0.100	0.0894		ug/L		89	56 - 136	
cis-Chlordane	0.100	0.0915		ug/L		92	60 - 129	
Endosulfan I	0.100	0.0924		ug/L		92	62 - 126	
4,4'-DDE	0.200	0.173		ug/L		86	57 - 135	
Dieldrin	0.200	0.178		ug/L		89	60 - 136	
Endrin	0.200	0.183		ug/L		92	60 - 138	
4,4'-DDD	0.200	0.184		ug/L		92	56 - 143	
Endosulfan II	0.200	0.182		ug/L		91	52 - 135	
4,4'-DDT	0.200	0.223		ug/L		111	51 - 143	
Endrin aldehyde	0.200	0.170		ug/L		85	51 - 132	
Endosulfan sulfate	0.200	0.190		ug/L		95	62 - 133	
Methoxychlor	1.00	1.07		ug/L		107	54 - 145	
Endrin ketone	0.200	0.201		ug/L		100	58 - 134	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	74		44 - 124
Tetrachloro-m-xylene	73		44 - 124
DCB Decachlorobiphenyl (Surr)	66		20 - 148
DCB Decachlorobiphenyl (Surr)	67		20 - 148

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 410-510395/1-A
Matrix: Water
Analysis Batch: 510691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510395

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	0.20	U	0.50	0.10	ug/L		05/24/24 15:37	05/27/24 13:10	1
PCB-1221	0.20	U	0.50	0.10	ug/L		05/24/24 15:37	05/27/24 13:10	1
PCB-1232	0.20	U	0.50	0.10	ug/L		05/24/24 15:37	05/27/24 13:10	1
PCB-1242	0.20	U	0.50	0.10	ug/L		05/24/24 15:37	05/27/24 13:10	1
PCB-1248	0.20	U	0.50	0.10	ug/L		05/24/24 15:37	05/27/24 13:10	1
PCB-1254	0.20	U	0.50	0.078	ug/L		05/24/24 15:37	05/27/24 13:10	1
PCB-1260	0.20	U	0.50	0.078	ug/L		05/24/24 15:37	05/27/24 13:10	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	76		33 - 137	05/24/24 15:37	05/27/24 13:10	1
Tetrachloro-m-xylene	75		33 - 137	05/24/24 15:37	05/27/24 13:10	1
DCB Decachlorobiphenyl (Surr)	83		10 - 148	05/24/24 15:37	05/27/24 13:10	1
DCB Decachlorobiphenyl (Surr)	83		10 - 148	05/24/24 15:37	05/27/24 13:10	1

Lab Sample ID: LCS 410-510395/2-A
Matrix: Water
Analysis Batch: 510691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510395

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	5.01	4.17		ug/L		83	46 - 129
PCB-1260	5.02	3.85		ug/L		77	45 - 134

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	75		33 - 137
Tetrachloro-m-xylene	71		33 - 137
DCB Decachlorobiphenyl (Surr)	91		10 - 148
DCB Decachlorobiphenyl (Surr)	89		10 - 148

Method: 8151A DOD - Herbicides (GC)

Lab Sample ID: MB 410-510554/1-A
Matrix: Water
Analysis Batch: 510749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510554

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,5-T	0.13	U	0.15	0.065	ug/L		05/25/24 05:56	05/28/24 07:17	1
Silvex (2,4,5-TP)	0.044	U	0.050	0.022	ug/L		05/25/24 05:56	05/28/24 07:17	1
2,4-D	0.50	U	0.60	0.25	ug/L		05/25/24 05:56	05/28/24 07:17	1
2,4-DB	1.3	U	1.5	0.63	ug/L		05/25/24 05:56	05/28/24 07:17	1
Dichlorprop	0.32	U	0.50	0.16	ug/L		05/25/24 05:56	05/28/24 07:17	1
Dalapon	11	U	12	5.7	ug/L		05/25/24 05:56	05/28/24 07:17	1
Dicamba	0.54	U	0.55	0.27	ug/L		05/25/24 05:56	05/28/24 07:17	1
MCPP	100	U	200	50	ug/L		05/25/24 05:56	05/28/24 07:17	1
MCPA	100	U	200	50	ug/L		05/25/24 05:56	05/28/24 07:17	1
Pentachlorophenol	0.060	U	0.070	0.027	ug/L		05/25/24 05:56	05/28/24 07:17	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid (Surr)	83		32 - 138	05/25/24 05:56	05/28/24 07:17	1

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8151A DOD - Herbicides (GC) (Continued)

Lab Sample ID: MB 410-510554/1-A
Matrix: Water
Analysis Batch: 510749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510554

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid (Surr)	87		32 - 138	05/25/24 05:56	05/28/24 07:17	1

Lab Sample ID: LCS 410-510554/2-A
Matrix: Water
Analysis Batch: 510749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510554

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
2,4,5-T	0.250	0.307		ug/L		123	42 - 147
Silvex (2,4,5-TP)	0.250	0.264		ug/L		106	51 - 134
2,4-D	2.51	2.56		ug/L		102	45 - 152
2,4-DB	2.51	3.49		ug/L		139	35 - 153
Dichlorprop	2.50	2.17		ug/L		87	46 - 159
Dalapon	6.25	11	U M	ug/L		54	19 - 139
Dicamba	0.250	0.54	U	ug/L		75	50 - 141
MCPP	251	232	M	ug/L		92	33 - 157
MCPA	496	429		ug/L		86	35 - 144
Pentachlorophenol	0.199	0.205		ug/L		103	56 - 139

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid (Surr)	83		32 - 138
2,4-Dichlorophenylacetic acid (Surr)	86		32 - 138

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 410-509932/5
Matrix: Water
Analysis Batch: 509932

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

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrite as N	0.10	U	0.11	0.050	mg/L			05/23/24 16:25	1
Nitrate as N	0.10	U	0.11	0.050	mg/L			05/23/24 16:25	1
Nitrate Nitrite as N	0.10	U	1.1	0.050	mg/L			05/23/24 16:25	1

Lab Sample ID: LCS 410-509932/3
Matrix: Water
Analysis Batch: 509932

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Nitrite as N	0.750	0.728		mg/L		97	87 - 111
Nitrate as N	0.750	0.679		mg/L		91	88 - 111

Lab Sample ID: LCSD 410-509932/4
Matrix: Water
Analysis Batch: 509932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Nitrite as N	0.750	0.725		mg/L		97	87 - 111	0	15

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 410-509932/4
Matrix: Water
Analysis Batch: 509932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.750	0.680		mg/L		91	88 - 111	0	15

Lab Sample ID: MB 410-510037/5
Matrix: Water
Analysis Batch: 510037

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.10	U	0.11	0.050	mg/L			05/24/24 02:01	1
Nitrate as N	0.10	U	0.11	0.050	mg/L			05/24/24 02:01	1
Nitrate Nitrite as N	0.10	U	1.1	0.050	mg/L			05/24/24 02:01	1

Lab Sample ID: LCS 410-510037/3
Matrix: Water
Analysis Batch: 510037

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.750	0.730		mg/L		97	87 - 111
Nitrate as N	0.750	0.685		mg/L		91	88 - 111

Lab Sample ID: LCSD 410-510037/4
Matrix: Water
Analysis Batch: 510037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.750	0.729		mg/L		97	87 - 111	0	15
Nitrate as N	0.750	0.685		mg/L		91	88 - 111	0	15

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-510036/5
Matrix: Water
Analysis Batch: 510036

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.0	U	1.5	0.50	mg/L			05/24/24 02:01	1

Lab Sample ID: LCS 410-510036/3
Matrix: Water
Analysis Batch: 510036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	7.50	7.14		mg/L		95	90 - 110

Lab Sample ID: LCSD 410-510036/4
Matrix: Water
Analysis Batch: 510036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	7.50	7.06		mg/L		94	90 - 110	1	20

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 410-512220/1-A
Matrix: Water
Analysis Batch: 512389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 512220

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	2.0	U	5.0	0.87	pg/L		05/30/24 22:57	06/01/24 10:42	1
Total TCDD	1.14	J I	5.0	0.87	pg/L		05/30/24 22:57	06/01/24 10:42	1
Isotope Dilution		MB	MB	Limits			Prepared	Analyzed	Dil Fac
		%Recovery	Qualifier						
13C-2,3,7,8-TCDD		92		40 - 135			05/30/24 22:57	06/01/24 10:42	1

Lab Sample ID: LCS 410-512220/2-A
Matrix: Water
Analysis Batch: 512389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 512220

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
2,3,7,8-TCDD	200	163		pg/L		82	71 - 125
Isotope Dilution		LCS	LCS			Limits	
		%Recovery	Qualifier				
13C-2,3,7,8-TCDD		90				40 - 135	

Lab Sample ID: LCSD 410-512220/3-A
Matrix: Water
Analysis Batch: 512389

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 512220

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
2,3,7,8-TCDD	200	174		pg/L		87	71 - 125	6	20
Isotope Dilution		LCSD	LCSD			Limits			
		%Recovery	Qualifier						
13C-2,3,7,8-TCDD		83				40 - 135			

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-510759/1-A
Matrix: Water
Analysis Batch: 511311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510759

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.032	U	0.050	0.016	mg/L		05/28/24 06:50	05/28/24 16:32	1
Arsenic	0.032	U	0.050	0.016	mg/L		05/28/24 06:50	05/28/24 16:32	1
Barium	0.0020	U	0.0050	0.0010	mg/L		05/28/24 06:50	05/28/24 16:32	1
Beryllium	0.0020	U	0.0050	0.0010	mg/L		05/28/24 06:50	05/28/24 16:32	1
Cadmium	0.0020	U	0.0050	0.0010	mg/L		05/28/24 06:50	05/28/24 16:32	1
Chromium	0.0060	U	0.015	0.0030	mg/L		05/28/24 06:50	05/28/24 16:32	1
Cobalt	0.0030	U	0.0050	0.0015	mg/L		05/28/24 06:50	05/28/24 16:32	1
Copper	0.016	U	0.020	0.0080	mg/L		05/28/24 06:50	05/28/24 16:32	1
Lead	0.014	U	0.015	0.0071	mg/L		05/28/24 06:50	05/28/24 16:32	1
Molybdenum	0.0040	U	0.010	0.0020	mg/L		05/28/24 06:50	05/28/24 16:32	1
Nickel	0.0040	U	0.010	0.0021	mg/L		05/28/24 06:50	05/28/24 16:32	1
Selenium	0.032	U	0.050	0.016	mg/L		05/28/24 06:50	05/28/24 16:32	1
Silver	0.0080	U	0.010	0.0040	mg/L		05/28/24 06:50	05/28/24 16:32	1
Zinc	0.0074	U	0.020	0.0037	mg/L		05/28/24 06:50	05/28/24 16:32	1
Vanadium	0.0038	U	0.010	0.0019	mg/L		05/28/24 06:50	05/28/24 16:32	1

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-510759/1-A
Matrix: Water
Analysis Batch: 512243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510759

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.024	U	0.030	0.012	mg/L		05/28/24 06:50	05/30/24 10:51	1

Lab Sample ID: LCS 410-510759/2-A
Matrix: Water
Analysis Batch: 511311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0913		mg/L		91	88 - 113
Arsenic	0.500	0.533		mg/L		107	87 - 113
Barium	0.500	0.515		mg/L		103	88 - 113
Beryllium	0.0500	0.0515		mg/L		103	89 - 112
Cadmium	0.0500	0.0513		mg/L		103	88 - 113
Chromium	0.500	0.502		mg/L		100	90 - 113
Cobalt	0.500	0.503		mg/L		101	89 - 114
Copper	0.500	0.499		mg/L		100	86 - 114
Lead	0.0500	0.0496		mg/L		99	86 - 113
Molybdenum	0.0500	0.0484		mg/L		97	89 - 113
Nickel	0.500	0.512		mg/L		102	88 - 113
Selenium	0.100	0.0918		mg/L		92	83 - 114
Silver	0.0500	0.0516		mg/L		103	84 - 115
Zinc	0.500	0.490		mg/L		98	87 - 115
Vanadium	0.500	0.507		mg/L		101	90 - 111

Lab Sample ID: LCS 410-510759/2-A
Matrix: Water
Analysis Batch: 512243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.106		mg/L		106	85 - 114

Lab Sample ID: MB 410-511420/1-A
Matrix: Water
Analysis Batch: 512048

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 511420

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.32	U	0.50	0.16	mg/L		05/29/24 21:10	05/30/24 06:24	1
Barium	0.020	U	0.050	0.010	mg/L		05/29/24 21:10	05/30/24 06:24	1
Cadmium	0.020	U	0.050	0.010	mg/L		05/29/24 21:10	05/30/24 06:24	1
Chromium	0.060	U	0.15	0.030	mg/L		05/29/24 21:10	05/30/24 06:24	1
Lead	0.14	U	0.15	0.071	mg/L		05/29/24 21:10	05/30/24 06:24	1
Selenium	0.32	U	0.50	0.16	mg/L		05/29/24 21:10	05/30/24 06:24	1
Silver	0.080	U	0.10	0.040	mg/L		05/29/24 21:10	05/30/24 06:24	1

Lab Sample ID: LCS 410-511420/2-A
Matrix: Water
Analysis Batch: 512048

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 511420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	5.00	5.53		mg/L		111	87 - 113

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-511420/2-A
Matrix: Water
Analysis Batch: 512048

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 511420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	5.00	5.25		mg/L		105	88 - 113
Cadmium	0.500	0.533		mg/L		107	88 - 113
Chromium	5.00	5.21		mg/L		104	90 - 113
Lead	0.500	0.533		mg/L		107	86 - 113
Selenium	1.00	1.14		mg/L		114	83 - 114
Silver	0.500	0.551		mg/L		110	84 - 115

Lab Sample ID: MB 410-511711/1-A
Matrix: Water
Analysis Batch: 512048

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 511711

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.32	U	0.50	0.16	mg/L		05/29/24 20:30	05/30/24 12:09	1
Barium	0.020	U	0.050	0.010	mg/L		05/29/24 20:30	05/30/24 12:09	1
Cadmium	0.020	U	0.050	0.010	mg/L		05/29/24 20:30	05/30/24 12:09	1
Chromium	0.060	U	0.15	0.030	mg/L		05/29/24 20:30	05/30/24 12:09	1
Lead	0.14	U	0.15	0.071	mg/L		05/29/24 20:30	05/30/24 12:09	1
Selenium	0.32	U	0.50	0.16	mg/L		05/29/24 20:30	05/30/24 12:09	1
Silver	0.080	U	0.10	0.040	mg/L		05/29/24 20:30	05/30/24 12:09	1

Lab Sample ID: LCS 410-511711/2-A
Matrix: Water
Analysis Batch: 512048

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 511711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	5.00	5.28		mg/L		106	87 - 113
Barium	5.00	5.15		mg/L		103	88 - 113
Cadmium	0.500	0.515		mg/L		103	88 - 113
Chromium	5.00	5.05		mg/L		101	90 - 113
Lead	0.500	0.509		mg/L		102	86 - 113
Selenium	1.00	0.968		mg/L		97	83 - 114
Silver	0.500	0.549		mg/L		110	84 - 115

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-510143/1-A
Matrix: Water
Analysis Batch: 510400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510143

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	U	0.20	0.079	ug/L		05/24/24 08:45	05/24/24 14:45	1

Lab Sample ID: LCS 410-510143/2-A
Matrix: Water
Analysis Batch: 510400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.849		ug/L		85	82 - 119

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-511433/1-A
Matrix: Water
Analysis Batch: 512022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511433

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	U	0.20	0.079	ug/L		05/29/24 23:35	05/30/24 10:22	1

Lab Sample ID: LCS 410-511433/2-A
Matrix: Water
Analysis Batch: 512022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.03		ug/L		103	82 - 119

Method: 1010B - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 410-510082/1
Matrix: Water
Analysis Batch: 510082

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	83.0		Degrees F		102	96.9 - 103.1

Lab Sample ID: LCSD 410-510082/2
Matrix: Water
Analysis Batch: 510082

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Flashpoint	81.0	82.0		Degrees F		101	96.9 - 103.1	1	4

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 410-510430/1
Matrix: Water
Analysis Batch: 510430

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	4.0	U	5.0	1.4	mg/L			05/24/24 17:38	1
SGT-HEM (TPH)	4.0	U	5.0	1.4	mg/L			05/24/24 17:38	1

Lab Sample ID: LCS 410-510430/2
Matrix: Water
Analysis Batch: 510430

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	34.7		mg/L		87	78 - 114
SGT-HEM (TPH)	20.0	13.3		mg/L		66	64 - 132

Lab Sample ID: LCSD 410-510430/3
Matrix: Water
Analysis Batch: 510430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	31.9		mg/L		80	78 - 114	8	13

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 410-510430/3
Matrix: Water
Analysis Batch: 510430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
SGT-HEM (TPH)	20.0	13.3		mg/L		67	64 - 132	0	23

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 410-510026/3
Matrix: Water
Analysis Batch: 510026

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	0.70	U	1.0	1.0	NTU			05/23/24 18:52	1

Lab Sample ID: LCS 410-510026/4
Matrix: Water
Analysis Batch: 510026

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Turbidity	1.00	1.0		NTU		104	90 - 130

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-510293/30
Matrix: Water
Analysis Batch: 510293

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	6.0	U	8.0	2.6	mg/L			05/23/24 18:35	1

Lab Sample ID: LCS 410-510293/33
Matrix: Water
Analysis Batch: 510293

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	189	188		mg/L		100	66 - 110

Lab Sample ID: LCSD 410-510293/34
Matrix: Water
Analysis Batch: 510293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	189	188		mg/L		100	66 - 110	0	10

Method: 2340C-2011 - Hardness, Total

Lab Sample ID: MB 410-510690/4
Matrix: Water
Analysis Batch: 510690

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	8.0	U	10	3.0	mg/L			05/27/24 07:54	1

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QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 2340C-2011 - Hardness, Total (Continued)

Lab Sample ID: LCS 410-510690/5
Matrix: Water
Analysis Batch: 510690

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	40.0	39.4		mg/L		99	90 - 110

Lab Sample ID: 580-140271-1 MS
Matrix: Water
Analysis Batch: 510690

Client Sample ID: TDS-RP-20MAY24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Hardness	160	J1	200	330	J1	mg/L		87	90 - 110

Lab Sample ID: 580-140271-1 DU
Matrix: Water
Analysis Batch: 510690

Client Sample ID: TDS-RP-20MAY24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Hardness	160	J1	109		mg/L		36	10

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-509713/1
Matrix: Water
Analysis Batch: 509713

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	25	U	30	12	mg/L			05/23/24 08:31	1

Lab Sample ID: LCS 410-509713/2
Matrix: Water
Analysis Batch: 509713

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	189		mg/L		95	90 - 110

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-510019/1
Matrix: Water
Analysis Batch: 510019

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.5	U	3.0	1.0	mg/L			05/23/24 18:32	1

Lab Sample ID: LCS 410-510019/2
Matrix: Water
Analysis Batch: 510019

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	143		mg/L		95	89 - 105

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 330.4 - Chlorine, Total Residual

Lab Sample ID: MB 410-511234/1
Matrix: Water
Analysis Batch: 511234

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Residual Chlorine	0.15	U	0.20	0.060	mg/L			05/28/24 23:37	1

Lab Sample ID: LCS 410-511234/2
Matrix: Water
Analysis Batch: 511234

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Residual Chlorine	1.00	1.00		mg/L		100	95 - 105

Lab Sample ID: LCSD 410-511234/3
Matrix: Water
Analysis Batch: 511234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Residual Chlorine	1.00	1.00		mg/L		100	95 - 105	0	10

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-511179/2-A
Matrix: Water
Analysis Batch: 511630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511179

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.0	U	1.5	0.50	mg/L		05/28/24 17:33	05/29/24 12:28	1

Lab Sample ID: LCS 410-511179/1-A
Matrix: Water
Analysis Batch: 511630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	4.86	4.56		mg/L		94	90 - 110

Lab Sample ID: 580-140271-1 MS
Matrix: Water
Analysis Batch: 511630

Client Sample ID: TDS-RP-20MAY24
Prep Type: Total/NA
Prep Batch: 511179

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	3.0		4.00	6.75		mg/L		94	90 - 110

Lab Sample ID: 580-140271-1 DU
Matrix: Water
Analysis Batch: 511630

Client Sample ID: TDS-RP-20MAY24
Prep Type: Total/NA
Prep Batch: 511179

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Kjeldahl	3.0		2.72		mg/L		10	20

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 410.4 - COD

Lab Sample ID: MB 410-511051/5
Matrix: Water
Analysis Batch: 511051

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	60	U	75	25	mg/L			05/28/24 07:31	1

Lab Sample ID: LCS 410-511051/6
Matrix: Water
Analysis Batch: 511051

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	500	491		mg/L		98	90 - 110

Method: 4500 NH3 D-2011 - Ammonia

Lab Sample ID: MB 410-511560/3
Matrix: Water
Analysis Batch: 511560

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia-N	0.20	U	0.24	0.080	mg/L			05/29/24 11:25	1

Lab Sample ID: LCS 410-511560/4
Matrix: Water
Analysis Batch: 511560

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia-N	5.00	5.33		mg/L		107	88 - 122

Lab Sample ID: 580-140271-1 MS
Matrix: Water
Analysis Batch: 511560

Client Sample ID: TDS-RP-20MAY24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia-N	0.11	J	5.00	5.44		mg/L		107	88 - 122

Lab Sample ID: 580-140271-1 MSD
Matrix: Water
Analysis Batch: 511560

Client Sample ID: TDS-RP-20MAY24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia-N	0.11	J	5.00	5.13		mg/L		100	88 - 122	6	15

Lab Sample ID: 580-140271-1 DU
Matrix: Water
Analysis Batch: 511560

Client Sample ID: TDS-RP-20MAY24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia-N	0.11	J	0.0900	J	mg/L		20	11

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 410-511265/37
Matrix: Water
Analysis Batch: 511265

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.90	U	1.0	0.50	mg/L			05/29/24 01:07	1

Lab Sample ID: LCS 410-511265/36
Matrix: Water
Analysis Batch: 511265

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	50.2	48.9		mg/L		97	90 - 110

Lab Sample ID: MRL 410-511265/3
Matrix: Water
Analysis Batch: 511265

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.00	0.751	J	mg/L		75	50 - 150

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 410-510919/1-A
Matrix: Water
Analysis Batch: 511469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510919

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	50	U	60	20	mg/Kg		05/28/24 09:29	05/28/24 17:37	1

Lab Sample ID: LCS 410-510919/2-A
Matrix: Water
Analysis Batch: 511469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Reactive	1000	500	U	mg/Kg		3	0 - 5.14

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 410-510218/1-A
Matrix: Water
Analysis Batch: 511468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510218

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0090	U	0.010	0.0050	mg/L		05/24/24 10:54	05/28/24 16:56	1

Lab Sample ID: LCS 410-510218/2-A
Matrix: Water
Analysis Batch: 511468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510218

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.196		mg/L		98	85 - 115

QC Sample Results

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 410-510919/1-A
Matrix: Water
Analysis Batch: 511066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510919

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	140	U	160	54	mg/Kg		05/28/24 09:29	05/28/24 13:42	1

Lab Sample ID: LCS 410-510919/25-A
Matrix: Water
Analysis Batch: 511066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	539	371		mg/Kg		69	62 - 104

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 410-510205/1
Matrix: Water
Analysis Batch: 510205

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	1.5	U	2.0	0.70	mg/L			05/24/24 09:10	1

Lab Sample ID: LCS 410-510205/2
Matrix: Water
Analysis Batch: 510205

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	20.1	17.6		mg/L		88	77 - 110

Lab Sample ID: LCSD 410-510205/3
Matrix: Water
Analysis Batch: 510205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	20.1	17.4		mg/L		87	77 - 110	1	10

Method: 9040C - pH

Lab Sample ID: LCS 410-510294/31
Matrix: Water
Analysis Batch: 510294

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		S.U.		100	95 - 105

Lab Sample ID: LCSD 410-510294/32
Matrix: Water
Analysis Batch: 510294

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	7.00	7.0		S.U.		100	95 - 105	0	3

Lab Chronicle

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Client Sample ID: TDS-RP-20MAY24

Lab Sample ID: 580-140271-1

Date Collected: 05/20/24 14:45

Matrix: Water

Date Received: 05/23/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	511809	TQ4J	ELLE	05/30/24 17:21
Total/NA	Prep	3510C			510371	JDJ2	ELLE	05/24/24 15:20
Total/NA	Analysis	8270D		1	510792	W6ZA	ELLE	05/28/24 10:58
Total/NA	Prep	3510C			510382	JDJ2	ELLE	05/24/24 15:26
Total/NA	Analysis	8015D DRO		1	510475	IUSB	ELLE	05/25/24 02:44
Total/NA	Prep	3510C			510391	JDJ2	ELLE	05/24/24 15:33
Total/NA	Analysis	8081B		1	510502	UAMZ	ELLE	05/25/24 08:15
Total/NA	Prep	3510C			510395	JDJ2	ELLE	05/24/24 15:37
Total/NA	Analysis	8082A		1	510691	M6UH	ELLE	05/27/24 15:26
Total/NA	Prep	8151A			510554	UKL2	ELLE	05/25/24 05:56
Total/NA	Analysis	8151A DOD		1	510749	UAMZ	ELLE	05/28/24 15:18
Total/NA	Analysis	9056A		5	509932	L4QM	ELLE	05/23/24 19:18
Total/NA	Analysis	9056A		10	510037	L4QM	ELLE	05/24/24 12:47
Total/NA	Analysis	EPA 300.0 R2.1		10	510036	L4QM	ELLE	05/24/24 12:47
Total/NA	Prep	8290A			512220	SJ7Z	ELLE	05/30/24 22:57
Total/NA	Analysis	8290A		1	512559	TJK2	ELLE	06/02/24 04:41
TCLP	Leach	1311			511428	HA8T	ELLE	05/29/24 11:47 - 05/29/24 12:20 ¹
TCLP	Prep	3005A			511420	UAMX	ELLE	05/29/24 21:10
TCLP	Analysis	6010D		1	512048	MT26	ELLE	05/30/24 07:07
Total/NA	Prep	3005A			510759	X3ZX	ELLE	05/28/24 06:50
Total/NA	Analysis	6010D		1	512243	MT26	ELLE	05/30/24 11:26
Total/NA	Prep	3005A			510759	X3ZX	ELLE	05/28/24 06:50
Total/NA	Analysis	6010D		1	511311	MT26	ELLE	05/28/24 17:20
TCLP	Leach	1311			511428	HA8T	ELLE	05/29/24 11:47 - 05/29/24 12:20 ¹
TCLP	Prep	7470A			511433	UAMX	ELLE	05/29/24 23:35
TCLP	Analysis	7470A		1	512022	UEFS	ELLE	05/30/24 10:52
Total/NA	Prep	7470A			510143	X3ZX	ELLE	05/24/24 08:45
Total/NA	Analysis	7470A		1	510400	UEFS	ELLE	05/24/24 15:40
Total/NA	Analysis	1010B		1	510082	USAE	ELLE	05/24/24 03:31 - 05/24/24 03:31 ¹
Total/NA	Analysis	1664B		1	510430	QT6L	ELLE	05/24/24 17:38
Total/NA	Analysis	180.1		1	510026	DI9Q	ELLE	05/23/24 18:52
Total/NA	Analysis	2320B-2011		1	510293	DI9Q	ELLE	05/23/24 21:32
Total/NA	Analysis	2340C-2011		5	510690	USAE	ELLE	05/27/24 08:08
Total/NA	Analysis	2540C - 2015		1	509713	M98K	ELLE	05/23/24 13:08
Total/NA	Analysis	2540D-2015		1	510019	UOCA	ELLE	05/23/24 18:32 - 05/24/24 21:34 ¹
Total/NA	Analysis	330.4		1	511234	UDS7	ELLE	05/28/24 23:37
Total/NA	Prep	351.2			511179	NLE3	ELLE	05/28/24 17:33 - 05/28/24 20:33 ¹
Total/NA	Analysis	351.2		1	511630	JCG7	ELLE	05/29/24 12:34
Total/NA	Analysis	360.1		1	510680	USAE	ELLE	05/27/24 10:56
Total/NA	Analysis	410.4		1	511051	USAE	ELLE	05/28/24 07:39
Total/NA	Analysis	4500 NH3 D-2011		1	511560	UML5	ELLE	05/29/24 11:39
Total/NA	Analysis	5310 C-2014		1	511265	P684	ELLE	05/29/24 04:48

Lab Chronicle

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Client Sample ID: TDS-RP-20MAY24

Lab Sample ID: 580-140271-1

Date Collected: 05/20/24 14:45

Matrix: Water

Date Received: 05/23/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			510919	USE1	ELLE	05/28/24 09:29
Total/NA	Analysis	9012		1	511469	JCG7	ELLE	05/28/24 17:50
Total/NA	Prep	9012A			510218	PQ9E	ELLE	05/24/24 10:54 - 05/24/24 12:39 ¹
Total/NA	Analysis	9012A		1	511468	JCG7	ELLE	05/28/24 17:02
Total/NA	Analysis	9034		1	510205	USE1	ELLE	05/24/24 09:10
Total/NA	Prep	7.3.4			510919	USE1	ELLE	05/28/24 09:29
Total/NA	Analysis	9034		1	511066	USE1	ELLE	05/28/24 13:42
Total/NA	Analysis	9040C		1	510294	DI9Q	ELLE	05/23/24 21:32
Total/NA	Analysis	Nitrogen,Org		1	511645	UKJF	ELLE	05/29/24 16:23
Total/NA	Analysis	Total Nitrogen		1	510657	A1C	ELLE	05/26/24 23:16

Client Sample ID: Trip Blank

Lab Sample ID: 580-140271-2

Date Collected: 05/20/24 00:00

Matrix: Water

Date Received: 05/23/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	511809	TQ4J	ELLE	05/30/24 17:43

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Chemical Corp.
 Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-24
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

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Sample Summary

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-140271-1	TDS-RP-20MAY24	Water	05/20/24 14:45	05/23/24 09:40
580-140271-2	Trip Blank	Water	05/20/24 00:00	05/23/24 09:40

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COC NO.
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Laboratory Name: Eurofins Lancaster
Address: 2425 New Holland Pike, Lancaster PA
Contact
Phone: 717-656-2300

Project Location:
ECC
75 Kupuohi St, Suite 103
Lahaina, Hawaii 96761

TAT Standard								VOCs	SVOCS	Herbicides	Pesticides / PCBs	Dioxins	Cations / Anions	Metals	Metals TCLP	Mercury	Mercury TCLP	Oil & Grease	TPH (ORO)	
Sample Number	Grab	Date	Time	Matrix	Site Type	Media Type	# of Bottles	40-mL / 3	250-mL / 2	1-L / 1/2	250-mL / 3	1-L / x2	3250-mL / 1	250-mL / 3	7470	7470	1664	8015	Comments	
Project Contact: Kane McNeill 650-228-6950																				
Project Name: TDS								Site: Detention Basin												
Project Number: 4344-401								Event: Leachate Sampling												
Sampler Print: Mike Marmoo				Sampler Sign: 																
TDS-RP-20JAN24	X	5/20/2024	1445	Water	Basin	W	23	X	X	X	X	X	X	X	X	X	X	X	X	
Trip Blank				Water			4	X												Trip Blank
Relinquished By: 				Received By: 				Special Instructions Dioxins. 2378-TCDD only Cations / Anions: Sodium, Magnesium, Potassium, Calcium, Chlorine Metals. Include Iron												
Date/Time 05/21/24 0900				Date/Time				0.8-1.9/08-1.9												
Relinquished By: 				Received From Laboratory By:																
Date/Time				Date/Time 5/22/24 09:40																



JM

6/4/2024

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COC NO.
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4344-401_TDS_eCOC-02
2 of 2

Laboratory Name: Eurofins Lancaster
Address 2425 New Holland Pike, Lancaster PA
Contact
Phone: 717-656-2300

Project Location

ECC
75 Kupuohi St, Suite 103
Lahaina, Hawaii, 96761

TAT Standard								TSS / TDS	Cyanide / Sulfate / Sulfide	Turbidity / pH / Flashpoint	Nitrogen (Organic, Ammonia, Total)	Nitrates / Nitrites	Chlorine (Free Residual)	Alkalinity (Bicarb, Carb Hydroxide)	Dissolved Oxygen	Total Organic Carbon	Calcium Harness	Chemical Oxygen Demand	Reactivity-Cyanide	Reactivity Sulfide	Comments		
Project Contact: Kane McNeill, 650-228-6950																							
Project Name: TDS								Site: Detention Basin															
Project Number: 4344-401								Event: Leachate Sampling															
Sampler Print: <i>Mike Marinoro</i>				Sampler Sign: <i>[Signature]</i>																			
Sample Number	Grab	Date	Time	Matrix	Site Type	Media Type	# of Bottles																
TDS-RP-20JAN24	x	5/20/2024	1445	Water	Basin	W	14	x	x	x	x	x	x	x	x	x	x	x	x	x			
Trip Blank				Water			2	x													Trip Blank		
Relinquished By: <i>[Signature]</i> Date/Time 05-21-24 0900								Received By: <i>[Signature]</i> Date/Time								Special Instructions Dioxins: 2378-TCDD only <i>0.8-1.9 / 0.8-1.9</i>							
Relinquished By: <i>[Signature]</i> Date/Time								Received From Laboratory By: <i>[Signature]</i> Date/Time 5/23/24 09:40															

JM

Login Sample Receipt Checklist

Client: Environmental Chemical Corp.

Job Number: 580-140271-1

Login Number: 140271

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

Creator: Miller, Wesley R

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 ($\leq 6C$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6C$, 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.	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Isotope Dilution Summary

Client: Environmental Chemical Corp.
Project/Site: TDS Leachate Sampling

Job ID: 580-140271-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCDD (40-135)
580-140271-1	TDS-RP-20MAY24	70
LCS 410-512220/2-A	Lab Control Sample	90
LCSD 410-512220/3-A	Lab Control Sample Dup	83
MB 410-512220/1-A	Method Blank	92

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

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