

APPENDIX G

Water Quality Lab Reports

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

HPA110004

JOB NUMBER

570-211122-1

Eurofins Calscience

Job Notes

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

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 Calscience Project Manager.

Authorization



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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Glossary (Continued)

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

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA110004

Job ID: 570-211122-1

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Job Narrative 570-211122-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 12/16/2024 7:03 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

GC/MS VOA

Method 624.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-514491. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 624.1: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: Zone #1 : Explorer Well-642 (570-211122-1).

Method CA_SRL_524M_SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-514670 recovered outside control limits for the following analyte: 1,2,3-Trichloropropane. Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analyte.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-514493. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: Zone #1 : Explorer Well-642 (570-211122-1).

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

HPLC/IC

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

PFAS

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

Metals

Method 200.7 - Dissolved: The following sample(s) was not filtered within 15 minutes of sample collection as required by the method. The sample(s) was filtered prior to analysis at the laboratory, and the results have been reported.

Method 200.7 - Dissolved: The initial calibration verification (ICV) result for batch 570-515912 was above the upper control limit. The affected analyte is: Antimony. Sample results were non-detects, and have been reported as qualified data.

Method 200.7 - Dissolved: The method blank for preparation batch 570-514840 contained Nickel above the method reporting limit (MRL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA110004

Job ID: 570-211122-1

Job ID: 570-211122-1 (Continued)

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Method 200.7 - Dissolved: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-514840 and analytical batch 570-515912 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 200.7 - Total Recoverable: The initial calibration verification (ICV) result for batch 570-515462 was above the upper control limit. The affected analytes are: Antimony. Sample results were non-detects, and have been reported as qualified data.

Method 200.7 - Total Recoverable: The method blank for preparation batch 570-515239 and analytical batch 570-515462 contained Manganese and Sodium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 200.7 - Total Recoverable: The initial calibration verification (ICV) result for batch 570-515650 was above the upper control limit. The affected analytes are: Antimony. Sample results were non-detects, and have been reported as qualified data.

Method 7470A - Dissolved: The following sample(s) was not filtered within 15 minutes of sample collection as required by the method. The sample(s) was filtered prior to analysis at the laboratory, and the results have been reported.

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

General Chemistry

Method 5540C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-514800 and analytical batch 570-514864 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 5540C: Sample result concentrations for methylene blue active substances (MBAS) are calculated as LAS, mol. wt. 320.

Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Zone #1 : Explorer Well-642 (570-211122-1).

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

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Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.8		1.0	0.36	mg/L	1		300.0	Total/NA
Nitrate as N	0.10		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate	17		1.0	0.18	mg/L	1		300.0	Total/NA
Arsenic	0.0333	J	0.100	0.00965	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.514		0.0100	0.000730	mg/L	1		200.7 Rev 4.4	Total Recoverable
Beryllium	0.00170	J	0.0100	0.000660	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.0156	J	0.0500	0.00300	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0104	J	0.0500	0.00125	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.0226	J	0.0500	0.00159	mg/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	19.1		2.00	0.0839	mg/L	1		200.7 Rev 4.4	Total Recoverable
Lead	0.0267	J	0.0500	0.00598	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.00640	J	0.0500	0.00592	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.00950	J B	0.0500	0.00146	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	21.0		0.500	0.0559	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.0548		0.0100	0.00171	mg/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	9.03		0.500	0.0703	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.0779	J	0.250	0.00460	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.559	B	0.0500	0.00129	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	64.0		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0229	J H	0.100	0.00965	mg/L	1		200.7 Rev 4.4	Dissolved
Barium	0.0395	H	0.0100	0.000730	mg/L	1		200.7 Rev 4.4	Dissolved
Calcium	6.19	H	2.00	0.0839	mg/L	1		200.7 Rev 4.4	Dissolved
Iron	0.114	J H	0.500	0.0559	mg/L	1		200.7 Rev 4.4	Dissolved
Magnesium	1.37	H	0.500	0.0703	mg/L	1		200.7 Rev 4.4	Dissolved
Manganese	0.0172	J H	0.0500	0.00129	mg/L	1		200.7 Rev 4.4	Dissolved
Molybdenum	0.0146	J H F2 F1	0.0500	0.00592	mg/L	1		200.7 Rev 4.4	Dissolved
Sodium	61.0	H	2.00	0.186	mg/L	1		200.7 Rev 4.4	Dissolved
Vanadium	0.0152	H	0.0100	0.00171	mg/L	1		200.7 Rev 4.4	Dissolved
Hardness as calcium carbonate	84.8		7.05	0.499	mg/L	1		SM 2340B	Total Recoverable
Calcium hardness as calcium carbonate	47.6		4.99	0.209	mg/L	1		SM 2340B	Total Recoverable
Magnesium hardness as calcium carbonate	37.2		2.06	0.289	mg/L	1		SM 2340B	Total Recoverable
Alkalinity, Total (As CaCO3)	120		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	117		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Carbonate (as CaCO3)	2.19	J	5.00	2.18	mg/L	1		SM 2320B	Total/NA
Specific Conductance	311		1.00	1.00	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	316		10.0	8.35	mg/L	1		SM 2540C	Total/NA
pH	8.4	HF	0.01	0.01	S.U.	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			12/17/24 00:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			12/17/24 00:07	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/17/24 00:07	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			12/17/24 00:07	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			12/17/24 00:07	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			12/17/24 00:07	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			12/17/24 00:07	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			12/17/24 00:07	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			12/17/24 00:07	1
Benzene	ND		0.50	0.30	ug/L			12/17/24 00:07	1
Bromodichloromethane	ND		1.0	0.24	ug/L			12/17/24 00:07	1
Bromoform	ND		1.0	0.46	ug/L			12/17/24 00:07	1
Bromomethane	ND		5.0	3.7	ug/L			12/17/24 00:07	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/17/24 00:07	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			12/17/24 00:07	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			12/17/24 00:07	1
Chlorobenzene	ND		1.0	0.20	ug/L			12/17/24 00:07	1
Chloroethane	ND		1.0	0.54	ug/L			12/17/24 00:07	1
Chloroform	ND		1.0	0.26	ug/L			12/17/24 00:07	1
Chloromethane	ND		1.0	0.65	ug/L			12/17/24 00:07	1
Dibromochloromethane	ND		1.0	0.25	ug/L			12/17/24 00:07	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			12/17/24 00:07	1
Ethylbenzene	ND		1.0	0.23	ug/L			12/17/24 00:07	1
Methylene Chloride	ND		2.0	0.83	ug/L			12/17/24 00:07	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			12/17/24 00:07	1
o-Xylene	ND		1.0	0.24	ug/L			12/17/24 00:07	1
m,p-Xylene	ND		1.0	0.48	ug/L			12/17/24 00:07	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			12/17/24 00:07	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			12/17/24 00:07	1
Tetrachloroethene	ND		1.0	0.39	ug/L			12/17/24 00:07	1
Toluene	ND		1.0	0.19	ug/L			12/17/24 00:07	1
Trichloroethene	ND		1.0	0.41	ug/L			12/17/24 00:07	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			12/17/24 00:07	1
Vinyl chloride	ND		0.50	0.36	ug/L			12/17/24 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		60 - 140		12/17/24 00:07	1
4-Bromofluorobenzene (Surr)	101		60 - 140		12/17/24 00:07	1
Dibromofluoromethane (Surr)	105		60 - 140		12/17/24 00:07	1
Toluene-d8 (Surr)	100		60 - 140		12/17/24 00:07	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

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

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			12/17/24 00:07	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			12/17/24 00:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			12/17/24 00:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			12/17/24 00:07	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/17/24 00:07	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			12/17/24 00:07	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			12/17/24 00:07	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			12/17/24 00:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			12/17/24 00:07	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			12/17/24 00:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			12/17/24 00:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			12/17/24 00:07	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			12/17/24 00:07	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			12/17/24 00:07	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/17/24 00:07	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/17/24 00:07	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			12/17/24 00:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			12/17/24 00:07	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			12/17/24 00:07	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			12/17/24 00:07	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/17/24 00:07	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/17/24 00:07	1
2-Butanone (MEK)	ND		10	4.5	ug/L			12/17/24 00:07	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			12/17/24 00:07	1
2-Hexanone	ND		10	2.7	ug/L			12/17/24 00:07	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			12/17/24 00:07	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			12/17/24 00:07	1
Acetone	ND		10	7.4	ug/L			12/17/24 00:07	1
Benzene	ND		0.50	0.24	ug/L			12/17/24 00:07	1
Bromobenzene	ND		1.0	0.29	ug/L			12/17/24 00:07	1
Bromochloromethane	ND		2.0	0.38	ug/L			12/17/24 00:07	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/17/24 00:07	1
Bromoform	ND		5.0	1.9	ug/L			12/17/24 00:07	1
Bromomethane	ND		25	7.4	ug/L			12/17/24 00:07	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/17/24 00:07	1
cis-1,3-Dichloropropane	ND		0.50	0.26	ug/L			12/17/24 00:07	1
Carbon disulfide	ND		10	0.42	ug/L			12/17/24 00:07	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			12/17/24 00:07	1
Chlorobenzene	ND		1.0	0.26	ug/L			12/17/24 00:07	1
Chloroethane	ND		5.0	1.9	ug/L			12/17/24 00:07	1
Chloroform	ND		1.0	0.32	ug/L			12/17/24 00:07	1
Chloromethane	ND		10	2.2	ug/L			12/17/24 00:07	1
Dibromochloromethane	ND		2.0	0.37	ug/L			12/17/24 00:07	1
Dibromomethane	ND		1.0	0.33	ug/L			12/17/24 00:07	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			12/17/24 00:07	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/17/24 00:07	1
Isopropylbenzene	ND		1.0	0.41	ug/L			12/17/24 00:07	1
Methylene Chloride	ND		10	3.0	ug/L			12/17/24 00:07	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			12/17/24 00:07	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

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

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			12/17/24 00:07	1
n-Butylbenzene	ND		1.0	0.53	ug/L			12/17/24 00:07	1
N-Propylbenzene	ND		1.0	0.47	ug/L			12/17/24 00:07	1
o-Xylene	ND		1.0	0.27	ug/L			12/17/24 00:07	1
m,p-Xylene	ND		2.0	0.49	ug/L			12/17/24 00:07	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			12/17/24 00:07	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			12/17/24 00:07	1
Styrene	ND		1.0	0.38	ug/L			12/17/24 00:07	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			12/17/24 00:07	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			12/17/24 00:07	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			12/17/24 00:07	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/17/24 00:07	1
Toluene	ND		1.0	0.30	ug/L			12/17/24 00:07	1
Trichloroethene	ND		1.0	0.39	ug/L			12/17/24 00:07	1
Trichlorofluoromethane	ND		10	0.75	ug/L			12/17/24 00:07	1
Vinyl acetate	ND		10	5.0	ug/L			12/17/24 00:07	1
Vinyl chloride	ND		0.50	0.43	ug/L			12/17/24 00:07	1
Xylenes, Total	ND		2.0	0.49	ug/L			12/17/24 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 123					12/17/24 00:07	1
4-Bromofluorobenzene (Surr)	101		80 - 120					12/17/24 00:07	1
Dibromofluoromethane (Surr)	105		78 - 120					12/17/24 00:07	1
Toluene-d8 (Surr)	100		80 - 120					12/17/24 00:07	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: CADHS SRL 524M - Volatile Organic Compounds (GC/MS)

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND	*1	5.0	1.7	ng/L			12/17/24 10:08	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: EPA 300.0 - Anions, Ion Chromatography

Client Sample ID: Zone #1 : Explorer Well-642

Date Collected: 12/15/24 13:15

Date Received: 12/16/24 07:03

Lab Sample ID: 570-211122-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		1.0	0.36	mg/L			12/16/24 20:24	1
Nitrite as N	ND		0.10	0.043	mg/L			12/16/24 20:24	1
Nitrate as N	0.10		0.10	0.020	mg/L			12/16/24 20:24	1
Sulfate	17		1.0	0.18	mg/L			12/16/24 20:24	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: EPA 314.0 LL - Perchlorate (IC)

Client Sample ID: Zone #1 : Explorer Well-642

Date Collected: 12/15/24 13:15

Date Received: 12/16/24 07:03

Lab Sample ID: 570-211122-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0	0.39	ug/L			12/17/24 06:54	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Client Sample ID: Zone #1 : Explorer Well-642

Date Collected: 12/15/24 13:15

Date Received: 12/16/24 07:03

Lab Sample ID: 570-211122-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.3	0.82	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.45	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.48	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.67	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.44	ng/L		12/18/24 12:30	12/19/24 12:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.3	0.82	ng/L		12/18/24 12:30	12/19/24 12:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.3	0.82	ng/L		12/18/24 12:30	12/19/24 12:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.3	0.82	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.2	2.1	ng/L		12/18/24 12:30	12/19/24 12:29	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.2	2.1	ng/L		12/18/24 12:30	12/19/24 12:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.2	0.32	ng/L		12/18/24 12:30	12/19/24 12:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	*1	1.6	0.59	ng/L		12/18/24 12:30	12/19/24 12:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.48	ng/L		12/18/24 12:30	12/19/24 12:29	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.6	0.41	ng/L		12/18/24 12:30	12/19/24 12:29	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.3	0.82	ng/L		12/18/24 12:30	12/19/24 12:29	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.2	2.1	ng/L		12/18/24 12:30	12/19/24 12:29	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		8.2	2.1	ng/L		12/18/24 12:30	12/19/24 12:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95.7		5 - 130				12/18/24 12:30	12/19/24 12:29	1
13C5 PFPeA	104		40 - 130				12/18/24 12:30	12/19/24 12:29	1
13C5 PFHxA	98.1		40 - 130				12/18/24 12:30	12/19/24 12:29	1
13C4 PFHpA	103		40 - 130				12/18/24 12:30	12/19/24 12:29	1
13C8 PFOA	94.0		40 - 130				12/18/24 12:30	12/19/24 12:29	1
13C9 PFNA	93.8		40 - 130				12/18/24 12:30	12/19/24 12:29	1
13C6 PFDA	89.1		40 - 130				12/18/24 12:30	12/19/24 12:29	1
13C7 PFUnA	90.5		30 - 130				12/18/24 12:30	12/19/24 12:29	1
13C2 PFDoA	68.2		10 - 130				12/18/24 12:30	12/19/24 12:29	1
13C2 PFTeDA	56.7		10 - 130				12/18/24 12:30	12/19/24 12:29	1
13C3 PFBS	89.3		40 - 135				12/18/24 12:30	12/19/24 12:29	1
13C3 PFHxS	90.4		40 - 130				12/18/24 12:30	12/19/24 12:29	1
13C8 PFOS	94.4		40 - 130				12/18/24 12:30	12/19/24 12:29	1
13C8 FOSA	68.9		40 - 130				12/18/24 12:30	12/19/24 12:29	1
d3-NMeFOSAA	88.9		40 - 170				12/18/24 12:30	12/19/24 12:29	1
d5-NEtFOSAA	73.1		25 - 135				12/18/24 12:30	12/19/24 12:29	1
13C2 4:2 FTS	98.4		40 - 200				12/18/24 12:30	12/19/24 12:29	1
13C2 6:2 FTS	96.1		40 - 200				12/18/24 12:30	12/19/24 12:29	1
13C2 8:2 FTS	76.3		40 - 300				12/18/24 12:30	12/19/24 12:29	1
13C3 HFPO-DA	113		40 - 130				12/18/24 12:30	12/19/24 12:29	1
d7-N-MeFOSE-M	49.7		10 - 130				12/18/24 12:30	12/19/24 12:29	1
d9-N-EtFOSE-M	49.0		10 - 130				12/18/24 12:30	12/19/24 12:29	1
d5-NEtPFOSA	55.8		10 - 130				12/18/24 12:30	12/19/24 12:29	1
d3-NMePFOSA	60.1		10 - 130				12/18/24 12:30	12/19/24 12:29	1

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Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211122-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Zone #1 : Explorer Well-642

Date Collected: 12/15/24 13:15

Date Received: 12/16/24 07:03

Lab Sample ID: 570-211122-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.100	0.0147	mg/L		12/18/24 08:12	12/18/24 18:19	1
Arsenic	0.0333	J	0.100	0.00965	mg/L		12/18/24 08:12	12/18/24 18:19	1
Barium	0.514		0.0100	0.000730	mg/L		12/18/24 08:12	12/18/24 18:19	1
Beryllium	0.00170	J	0.0100	0.000660	mg/L		12/18/24 08:12	12/18/24 18:19	1
Cadmium	ND		0.0100	0.000450	mg/L		12/18/24 08:12	12/18/24 18:19	1
Chromium	0.0156	J	0.0500	0.00300	mg/L		12/18/24 08:12	12/18/24 18:19	1
Cobalt	0.0104	J	0.0500	0.00125	mg/L		12/18/24 08:12	12/18/24 18:19	1
Copper	0.0226	J	0.0500	0.00159	mg/L		12/18/24 08:12	12/18/24 18:19	1
Calcium	19.1		2.00	0.0839	mg/L		12/18/24 08:12	12/18/24 18:19	1
Lead	0.0267	J	0.0500	0.00598	mg/L		12/18/24 08:12	12/18/24 18:19	1
Molybdenum	0.00640	J	0.0500	0.00592	mg/L		12/18/24 08:12	12/18/24 18:19	1
Nickel	0.00950	J B	0.0500	0.00146	mg/L		12/18/24 08:12	12/18/24 18:19	1
Selenium	ND		0.100	0.0118	mg/L		12/18/24 08:12	12/18/24 18:19	1
Iron	21.0		0.500	0.0559	mg/L		12/18/24 08:12	12/18/24 18:19	1
Silver	ND		0.0100	0.00340	mg/L		12/18/24 08:12	12/18/24 18:19	1
Thallium	ND		0.0500	0.00863	mg/L		12/18/24 08:12	12/18/24 18:19	1
Vanadium	0.0548		0.0100	0.00171	mg/L		12/18/24 08:12	12/18/24 18:19	1
Magnesium	9.03		0.500	0.0703	mg/L		12/18/24 08:12	12/18/24 18:19	1
Zinc	0.0779	J	0.250	0.00460	mg/L		12/18/24 08:12	12/18/24 18:19	1
Manganese	0.559	B	0.0500	0.00129	mg/L		12/18/24 08:12	12/18/24 18:19	1
Sodium	64.0		2.00	0.186	mg/L		12/18/24 08:12	12/18/24 18:19	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211122-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	H F2 F1 ^1+	0.100	0.0147	mg/L			12/19/24 10:11	1
Arsenic	0.0229	J H	0.100	0.00965	mg/L			12/19/24 10:11	1
Barium	0.0395	H	0.0100	0.000730	mg/L			12/19/24 10:11	1
Beryllium	ND	H	0.0100	0.000660	mg/L			12/19/24 10:11	1
Cadmium	ND	H F2 F1	0.0100	0.000450	mg/L			12/19/24 10:11	1
Calcium	6.19	H	2.00	0.0839	mg/L			12/19/24 10:11	1
Chromium	ND	H F2 F1	0.0500	0.00300	mg/L			12/19/24 10:11	1
Cobalt	ND	H F2 F1	0.0500	0.00125	mg/L			12/19/24 10:11	1
Copper	ND	H	0.0500	0.00159	mg/L			12/19/24 10:11	1
Iron	0.114	J H	0.500	0.0559	mg/L			12/19/24 10:11	1
Lead	ND	H F2 F1	0.0500	0.00598	mg/L			12/19/24 10:11	1
Magnesium	1.37	H	0.500	0.0703	mg/L			12/19/24 10:11	1
Manganese	0.0172	J H	0.0500	0.00129	mg/L			12/19/24 10:11	1
Molybdenum	0.0146	J H F2 F1	0.0500	0.00592	mg/L			12/19/24 10:11	1
Nickel	ND	H F2	0.0500	0.00146	mg/L			12/19/24 10:11	1
Selenium	ND	H F1	0.100	0.0118	mg/L			12/19/24 10:11	1
Silver	ND	H F1	0.0100	0.00340	mg/L			12/19/24 10:11	1
Sodium	61.0	H	2.00	0.186	mg/L			12/19/24 10:11	1
Thallium	ND	H F2 F1	0.0500	0.00863	mg/L			12/19/24 10:11	1
Vanadium	0.0152	H	0.0100	0.00171	mg/L			12/19/24 10:11	1
Zinc	ND	H F2	0.250	0.00460	mg/L			12/19/24 10:11	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: Zone #1 : Explorer Well-642

Date Collected: 12/15/24 13:15

Date Received: 12/16/24 07:03

Lab Sample ID: 570-211122-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		12/16/24 14:29	12/17/24 16:48	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

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

Client Sample ID: Zone #1 : Explorer Well-642

Date Collected: 12/15/24 13:15

Date Received: 12/16/24 07:03

Lab Sample ID: 570-211122-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		12/17/24 11:17	12/19/24 12:12	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	84.8		7.05	0.499	mg/L			12/19/24 17:18	1
Calcium hardness as calcium carbonate	47.6		4.99	0.209	mg/L			12/19/24 17:18	1
Magnesium hardness as calcium carbonate	37.2		2.06	0.289	mg/L			12/19/24 17:18	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211122-1

General Chemistry

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	120		5.00	2.18	mg/L			12/19/24 04:48	1
Bicarbonate (as CaCO3) (SM 2320B)	117		5.00	2.18	mg/L			12/19/24 04:48	1
Carbonate (as CaCO3) (SM 2320B)	2.19	J	5.00	2.18	mg/L			12/19/24 04:48	1
Hydroxide (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			12/19/24 04:48	1
Specific Conductance (SM 2510B)	311		1.00	1.00	umhos/cm			12/23/24 20:30	1
Total Dissolved Solids (SM 2540C)	316		10.0	8.35	mg/L			12/19/24 21:19	1
pH (SM 4500 H+ B)	8.4	HF	0.01	0.01	S.U.			12/19/24 04:48	1
MBAS (SM 5540C)	ND	F1	0.200	0.0520	mg/L		12/17/24 10:12	12/17/24 12:00	1

Surrogate Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211122-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(60-140)	(60-140)	(60-140)	(60-140)
570-211122-1	Zone #1 : Explorer Well-642	108	101	105	100
LCS 570-514491/1002	Lab Control Sample	113	102	107	99
LCSD 570-514491/3	Lab Control Sample Dup	110	103	106	99
MB 570-514491/6	Method Blank	113	103	110	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(70-123)	(80-120)	(78-120)	(80-120)
570-211122-1	Zone #1 : Explorer Well-642	108	101	105	100
LCS 570-514493/1002	Lab Control Sample	113	102	107	99
LCSD 570-514493/3	Lab Control Sample Dup	110	103	106	99
MB 570-514493/6	Method Blank	113	103	110	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
570-211122-1	Zone #1 : Explorer Well-642	95.7	104	98.1	103	94.0	93.8	89.1	90.5
LCS 320-822917/3-A	Lab Control Sample	103	87.8	102	94.8	102	101	104	90.2
LCSD 320-822917/4-A	Lab Control Sample Dup	103	101	99.8	107	100	93.3	100	98.9
LLCS 320-822917/2-A	Lab Control Sample	106	102	100	98.4	99.2	95.6	92.6	82.1
MB 320-822917/1-A	Method Blank	98.3	107	99.5	107	96.5	99.2	103	98.7

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
570-211122-1	Zone #1 : Explorer Well-642	68.2	56.7	89.3	90.4	94.4	68.9	88.9	73.1
LCS 320-822917/3-A	Lab Control Sample	79.9	88.6	105	95.7	103	67.6	82.8	84.8
LCSD 320-822917/4-A	Lab Control Sample Dup	86.5	84.2	103	97.4	96.1	63.6	96.4	88.3
LLCS 320-822917/2-A	Lab Control Sample	70.8	76.6	102	95.7	92.4	55.1	78.5	72.3
MB 320-822917/1-A	Method Blank	81.6	76.7	94.2	96.3	97.9	60.9	84.9	81.5

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
570-211122-1	Zone #1 : Explorer Well-642	98.4	96.1	76.3	113	49.7	49.0	55.8	60.1
LCS 320-822917/3-A	Lab Control Sample	117	86.8	86.0	105	70.9	75.2	75.8	68.6
LCSD 320-822917/4-A	Lab Control Sample Dup	106	98.5	86.2	111	72.1	68.2	77.2	69.1
LLCS 320-822917/2-A	Lab Control Sample	105	94.8	76.1	112	62.1	61.5	67.4	64.0
MB 320-822917/1-A	Method Blank	103	99.8	76.2	115	71.6	75.6	73.5	69.1

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-514491/6
Matrix: Water
Analysis Batch: 514491

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			12/16/24 18:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			12/16/24 18:03	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/16/24 18:03	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			12/16/24 18:03	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			12/16/24 18:03	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			12/16/24 18:03	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			12/16/24 18:03	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			12/16/24 18:03	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			12/16/24 18:03	1
Benzene	ND		0.50	0.30	ug/L			12/16/24 18:03	1
Bromodichloromethane	ND		1.0	0.24	ug/L			12/16/24 18:03	1
Bromoform	ND		1.0	0.46	ug/L			12/16/24 18:03	1
Bromomethane	ND		5.0	3.7	ug/L			12/16/24 18:03	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/16/24 18:03	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			12/16/24 18:03	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			12/16/24 18:03	1
Chlorobenzene	ND		1.0	0.20	ug/L			12/16/24 18:03	1
Chloroethane	ND		1.0	0.54	ug/L			12/16/24 18:03	1
Chloroform	ND		1.0	0.26	ug/L			12/16/24 18:03	1
Chloromethane	ND		1.0	0.65	ug/L			12/16/24 18:03	1
Dibromochloromethane	ND		1.0	0.25	ug/L			12/16/24 18:03	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			12/16/24 18:03	1
Ethylbenzene	ND		1.0	0.23	ug/L			12/16/24 18:03	1
Methylene Chloride	ND		2.0	0.83	ug/L			12/16/24 18:03	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			12/16/24 18:03	1
o-Xylene	ND		1.0	0.24	ug/L			12/16/24 18:03	1
m,p-Xylene	ND		1.0	0.48	ug/L			12/16/24 18:03	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			12/16/24 18:03	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			12/16/24 18:03	1
Tetrachloroethene	ND		1.0	0.39	ug/L			12/16/24 18:03	1
Toluene	ND		1.0	0.19	ug/L			12/16/24 18:03	1
Trichloroethene	ND		1.0	0.41	ug/L			12/16/24 18:03	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			12/16/24 18:03	1
Vinyl chloride	ND		0.50	0.36	ug/L			12/16/24 18:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	113		60 - 140		12/16/24 18:03	1
4-Bromofluorobenzene (Surr)	103		60 - 140		12/16/24 18:03	1
Dibromofluoromethane (Surr)	110		60 - 140		12/16/24 18:03	1
Toluene-d8 (Surr)	99		60 - 140		12/16/24 18:03	1

Lab Sample ID: LCS 570-514491/1002
Matrix: Water
Analysis Batch: 514491

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	20.0	20.98		ug/L		105	60 - 140

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-514491/1002
Matrix: Water
Analysis Batch: 514491

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	22.38		ug/L		112	70 - 130
1,1-Dichloroethene	20.0	21.99		ug/L		110	50 - 150
1,2-Dichlorobenzene	20.0	20.87		ug/L		104	65 - 135
1,2-Dichloroethane	20.0	22.71		ug/L		114	70 - 130
1,2-Dichloropropane	20.0	21.02		ug/L		105	35 - 165
1,3-Dichlorobenzene	20.0	21.31		ug/L		107	70 - 130
1,4-Dichlorobenzene	20.0	20.80		ug/L		104	65 - 135
Benzene	20.0	21.48		ug/L		107	65 - 135
Bromodichloromethane	20.0	22.07		ug/L		110	65 - 135
Bromoform	20.0	21.41		ug/L		107	70 - 130
Bromomethane	20.0	22.57		ug/L		113	15 - 185
cis-1,2-Dichloroethene	20.0	22.90		ug/L		115	60 - 140
cis-1,3-Dichloropropene	20.0	21.63		ug/L		108	25 - 175
Carbon tetrachloride	20.0	23.45		ug/L		117	70 - 130
Chlorobenzene	20.0	21.46		ug/L		107	65 - 135
Chloroethane	20.0	21.87		ug/L		109	40 - 160
Chloroform	20.0	22.05		ug/L		110	70 - 135
Chloromethane	20.0	19.13		ug/L		96	1 - 205
Dibromochloromethane	20.0	21.67		ug/L		108	70 - 135
Dichlorodifluoromethane	20.0	23.97		ug/L		120	60 - 140
Ethylbenzene	20.0	21.45		ug/L		107	60 - 140
Methylene Chloride	20.0	21.92		ug/L		110	60 - 140
Methyl-t-Butyl Ether (MTBE)	20.0	20.87		ug/L		104	60 - 140
o-Xylene	20.0	21.20		ug/L		106	60 - 140
m,p-Xylene	40.0	44.61		ug/L		112	60 - 140
trans-1,2-Dichloroethene	20.0	22.21		ug/L		111	70 - 130
trans-1,3-Dichloropropene	20.0	21.49		ug/L		107	50 - 150
Tetrachloroethene	20.0	21.28		ug/L		106	70 - 130
Toluene	20.0	21.42		ug/L		107	70 - 130
Trichloroethene	20.0	21.79		ug/L		109	65 - 135
Trichlorofluoromethane	20.0	22.85		ug/L		114	50 - 150
Vinyl chloride	20.0	22.42		ug/L		112	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		60 - 140
4-Bromofluorobenzene (Surr)	102		60 - 140
Dibromofluoromethane (Surr)	107		60 - 140
Toluene-d8 (Surr)	99		60 - 140

Lab Sample ID: LCSD 570-514491/3
Matrix: Water
Analysis Batch: 514491

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
1,1,1-Trichloroethane	20.0	22.19		ug/L		111	70 - 130	3	36
1,1,1,2,2-Tetrachloroethane	20.0	21.60		ug/L		108	60 - 140	3	61
1,1-Dichloroethane	20.0	21.17		ug/L		106	70 - 130	6	40
1,1-Dichloroethene	20.0	21.12		ug/L		106	50 - 150	4	32

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-514491/3
Matrix: Water
Analysis Batch: 514491

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
1,2-Dichlorobenzene	20.0	20.95		ug/L		105	65 - 135	0	57
1,2-Dichloroethane	20.0	22.34		ug/L		112	70 - 130	2	49
1,2-Dichloropropane	20.0	20.93		ug/L		105	35 - 165	0	55
1,3-Dichlorobenzene	20.0	21.12		ug/L		106	70 - 130	1	43
1,4-Dichlorobenzene	20.0	20.69		ug/L		103	65 - 135	1	57
Benzene	20.0	21.36		ug/L		107	65 - 135	1	61
Bromodichloromethane	20.0	21.93		ug/L		110	65 - 135	1	56
Bromoform	20.0	21.93		ug/L		110	70 - 130	2	42
Bromomethane	20.0	21.38		ug/L		107	15 - 185	5	61
cis-1,2-Dichloroethene	20.0	22.19		ug/L		111	60 - 140	3	30
cis-1,3-Dichloropropene	20.0	22.25		ug/L		111	25 - 175	3	58
Carbon tetrachloride	20.0	22.51		ug/L		113	70 - 130	4	41
Chlorobenzene	20.0	21.31		ug/L		107	65 - 135	1	53
Chloroethane	20.0	20.82		ug/L		104	40 - 160	5	78
Chloroform	20.0	21.54		ug/L		108	70 - 135	2	30
Chloromethane	20.0	18.19		ug/L		91	1 - 205	5	60
Dibromochloromethane	20.0	21.86		ug/L		109	70 - 135	1	50
Dichlorodifluoromethane	20.0	23.33		ug/L		117	60 - 140	3	30
Ethylbenzene	20.0	21.31		ug/L		107	60 - 140	1	63
Methylene Chloride	20.0	21.28		ug/L		106	60 - 140	3	28
Methyl-t-Butyl Ether (MTBE)	20.0	21.18		ug/L		106	60 - 140	1	30
o-Xylene	20.0	21.08		ug/L		105	60 - 140	1	30
m,p-Xylene	40.0	43.94		ug/L		110	60 - 140	2	30
trans-1,2-Dichloroethene	20.0	21.74		ug/L		109	70 - 130	2	45
trans-1,3-Dichloropropene	20.0	22.03		ug/L		110	50 - 150	2	86
Tetrachloroethene	20.0	21.10		ug/L		106	70 - 130	1	39
Toluene	20.0	21.15		ug/L		106	70 - 130	1	41
Trichloroethene	20.0	21.60		ug/L		108	65 - 135	1	48
Trichlorofluoromethane	20.0	22.26		ug/L		111	50 - 150	3	84
Vinyl chloride	20.0	20.95		ug/L		105	5 - 195	7	66

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	110		60 - 140
4-Bromofluorobenzene (Surr)	103		60 - 140
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	99		60 - 140

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

Lab Sample ID: MB 570-514493/6
Matrix: Water
Analysis Batch: 514493

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			12/16/24 18:03	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			12/16/24 18:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			12/16/24 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			12/16/24 18:03	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/16/24 18:03	1

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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211122-1

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

Lab Sample ID: MB 570-514493/6
Matrix: Water
Analysis Batch: 514493

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.34	ug/L			12/16/24 18:03	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			12/16/24 18:03	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			12/16/24 18:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			12/16/24 18:03	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			12/16/24 18:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			12/16/24 18:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			12/16/24 18:03	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			12/16/24 18:03	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			12/16/24 18:03	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/16/24 18:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/16/24 18:03	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			12/16/24 18:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			12/16/24 18:03	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			12/16/24 18:03	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			12/16/24 18:03	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/16/24 18:03	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/16/24 18:03	1
2-Butanone (MEK)	ND		10	4.5	ug/L			12/16/24 18:03	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			12/16/24 18:03	1
2-Hexanone	ND		10	2.7	ug/L			12/16/24 18:03	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			12/16/24 18:03	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			12/16/24 18:03	1
Acetone	ND		10	7.4	ug/L			12/16/24 18:03	1
Benzene	ND		0.50	0.24	ug/L			12/16/24 18:03	1
Bromobenzene	ND		1.0	0.29	ug/L			12/16/24 18:03	1
Bromochloromethane	ND		2.0	0.38	ug/L			12/16/24 18:03	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/16/24 18:03	1
Bromoform	ND		5.0	1.9	ug/L			12/16/24 18:03	1
Bromomethane	ND		25	7.4	ug/L			12/16/24 18:03	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/16/24 18:03	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			12/16/24 18:03	1
Carbon disulfide	ND		10	0.42	ug/L			12/16/24 18:03	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			12/16/24 18:03	1
Chlorobenzene	ND		1.0	0.26	ug/L			12/16/24 18:03	1
Chloroethane	ND		5.0	1.9	ug/L			12/16/24 18:03	1
Chloroform	ND		1.0	0.32	ug/L			12/16/24 18:03	1
Chloromethane	ND		10	2.2	ug/L			12/16/24 18:03	1
Dibromochloromethane	ND		2.0	0.37	ug/L			12/16/24 18:03	1
Dibromomethane	ND		1.0	0.33	ug/L			12/16/24 18:03	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			12/16/24 18:03	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/16/24 18:03	1
Isopropylbenzene	ND		1.0	0.41	ug/L			12/16/24 18:03	1
Methylene Chloride	ND		10	3.0	ug/L			12/16/24 18:03	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			12/16/24 18:03	1
Naphthalene	ND		10	4.9	ug/L			12/16/24 18:03	1
n-Butylbenzene	ND		1.0	0.53	ug/L			12/16/24 18:03	1
N-Propylbenzene	ND		1.0	0.47	ug/L			12/16/24 18:03	1
o-Xylene	ND		1.0	0.27	ug/L			12/16/24 18:03	1
m,p-Xylene	ND		2.0	0.49	ug/L			12/16/24 18:03	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

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

Lab Sample ID: MB 570-514493/6
Matrix: Water
Analysis Batch: 514493

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.47	ug/L			12/16/24 18:03	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			12/16/24 18:03	1
Styrene	ND		1.0	0.38	ug/L			12/16/24 18:03	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			12/16/24 18:03	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			12/16/24 18:03	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			12/16/24 18:03	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/16/24 18:03	1
Toluene	ND		1.0	0.30	ug/L			12/16/24 18:03	1
Trichloroethene	ND		1.0	0.39	ug/L			12/16/24 18:03	1
Trichlorofluoromethane	ND		10	0.75	ug/L			12/16/24 18:03	1
Vinyl acetate	ND		10	5.0	ug/L			12/16/24 18:03	1
Vinyl chloride	ND		0.50	0.43	ug/L			12/16/24 18:03	1
Xylenes, Total	ND		2.0	0.49	ug/L			12/16/24 18:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 123		12/16/24 18:03	1
4-Bromofluorobenzene (Surr)	103		80 - 120		12/16/24 18:03	1
Dibromofluoromethane (Surr)	110		78 - 120		12/16/24 18:03	1
Toluene-d8 (Surr)	99		80 - 120		12/16/24 18:03	1

Lab Sample ID: LCS 570-514493/1002
Matrix: Water
Analysis Batch: 514493

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	21.92		ug/L		110	80 - 122
1,1,1-Trichloroethane	20.0	22.87		ug/L		114	78 - 125
1,1,2,2-Tetrachloroethane	20.0	20.98		ug/L		105	79 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.36		ug/L		117	72 - 138
1,1,2-Trichloroethane	20.0	21.51		ug/L		108	80 - 124
1,1-Dichloroethane	20.0	22.38		ug/L		112	80 - 127
1,1-Dichloroethene	20.0	21.99		ug/L		110	80 - 133
1,1-Dichloropropene	20.0	22.50		ug/L		113	79 - 126
1,2,3-Trichlorobenzene	20.0	20.31		ug/L		102	79 - 128
1,2,3-Trichloropropane	20.0	19.94		ug/L		100	71 - 128
1,2,4-Trichlorobenzene	20.0	20.42		ug/L		102	77 - 126
1,2,4-Trimethylbenzene	20.0	21.28		ug/L		106	80 - 121
1,2-Dibromo-3-Chloropropane	20.0	20.92		ug/L		105	66 - 122
1,2-Dibromoethane	20.0	20.79		ug/L		104	80 - 120
1,2-Dichlorobenzene	20.0	20.87		ug/L		104	80 - 121
1,2-Dichloroethane	20.0	22.71		ug/L		114	77 - 122
1,2-Dichloropropane	20.0	21.02		ug/L		105	80 - 122
1,3,5-Trimethylbenzene	20.0	22.21		ug/L		111	80 - 123
1,3-Dichlorobenzene	20.0	21.31		ug/L		107	80 - 120
1,3-Dichloropropane	20.0	21.34		ug/L		107	80 - 121
1,4-Dichlorobenzene	20.0	20.80		ug/L		104	80 - 120
2,2-Dichloropropane	20.0	21.52		ug/L		108	68 - 143
2-Butanone (MEK)	20.0	24.28		ug/L		121	61 - 139

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

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

Lab Sample ID: LCS 570-514493/1002
Matrix: Water
Analysis Batch: 514493

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	21.58		ug/L		108	80 - 121
2-Hexanone	20.0	20.57		ug/L		103	63 - 134
4-Chlorotoluene	20.0	21.55		ug/L		108	80 - 121
4-Methyl-2-pentanone (MIBK)	20.0	19.63		ug/L		98	67 - 125
Acetone	20.0	20.63		ug/L		103	45 - 150
Benzene	20.0	21.48		ug/L		107	80 - 121
Bromobenzene	20.0	20.77		ug/L		104	80 - 120
Bromochloromethane	20.0	22.30		ug/L		111	80 - 121
Bromodichloromethane	20.0	22.07		ug/L		110	80 - 121
Bromoform	20.0	21.41		ug/L		107	78 - 124
Bromomethane	20.0	23.77	J	ug/L		119	48 - 156
cis-1,2-Dichloroethene	20.0	22.90		ug/L		115	80 - 125
cis-1,3-Dichloropropene	20.0	19.73		ug/L		99	80 - 120
Carbon disulfide	20.0	21.73		ug/L		109	76 - 129
Carbon tetrachloride	20.0	23.45		ug/L		117	71 - 137
Chlorobenzene	20.0	21.46		ug/L		107	80 - 120
Chloroethane	20.0	21.87		ug/L		109	73 - 138
Chloroform	20.0	22.05		ug/L		110	80 - 121
Chloromethane	20.0	19.13		ug/L		96	57 - 138
Dibromochloromethane	20.0	21.67		ug/L		108	80 - 126
Dibromomethane	20.0	22.02		ug/L		110	80 - 120
Dichlorodifluoromethane	20.0	23.97		ug/L		120	44 - 148
Ethylbenzene	20.0	21.45		ug/L		107	80 - 121
Isopropylbenzene	20.0	21.41		ug/L		107	80 - 121
Methylene Chloride	20.0	21.92		ug/L		110	80 - 121
Methyl-t-Butyl Ether (MTBE)	20.0	20.87		ug/L		104	78 - 123
Naphthalene	20.0	18.38		ug/L		92	65 - 133
n-Butylbenzene	20.0	21.29		ug/L		106	80 - 125
N-Propylbenzene	20.0	22.22		ug/L		111	80 - 125
o-Xylene	20.0	21.20		ug/L		106	80 - 122
m,p-Xylene	40.0	44.61		ug/L		112	80 - 123
p-Isopropyltoluene	20.0	21.56		ug/L		108	80 - 124
sec-Butylbenzene	20.0	21.27		ug/L		106	80 - 122
Styrene	20.0	21.59		ug/L		108	80 - 120
trans-1,2-Dichloroethene	20.0	22.21		ug/L		111	80 - 122
trans-1,3-Dichloropropene	20.0	20.81		ug/L		104	80 - 125
tert-Butylbenzene	20.0	21.35		ug/L		107	80 - 122
Tetrachloroethene	20.0	21.28		ug/L		106	80 - 122
Toluene	20.0	21.42		ug/L		107	80 - 120
Trichloroethene	20.0	21.79		ug/L		109	80 - 120
Trichlorofluoromethane	20.0	22.85		ug/L		114	67 - 142
Vinyl acetate	20.0	21.18		ug/L		106	62 - 140
Vinyl chloride	20.0	22.42		ug/L		112	66 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 123
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	107		78 - 120

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

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

Lab Sample ID: LCS 570-514493/1002
Matrix: Water
Analysis Batch: 514493

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 570-514493/3
Matrix: Water
Analysis Batch: 514493

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
1,1,1,2-Tetrachloroethane	20.0	21.72		ug/L		109	80 - 122	1	20
1,1,1-Trichloroethane	20.0	22.19		ug/L		111	78 - 125	3	20
1,1,2,2-Tetrachloroethane	20.0	21.60		ug/L		108	79 - 127	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.31		ug/L		112	72 - 138	5	20
1,1,2-Trichloroethane	20.0	21.55		ug/L		108	80 - 124	0	20
1,1-Dichloroethane	20.0	21.17		ug/L		106	80 - 127	6	20
1,1-Dichloroethene	20.0	21.12		ug/L		106	80 - 133	4	20
1,1-Dichloropropene	20.0	21.73		ug/L		109	79 - 126	3	20
1,2,3-Trichlorobenzene	20.0	20.51		ug/L		103	79 - 128	1	20
1,2,3-Trichloropropane	20.0	20.50		ug/L		103	71 - 128	3	20
1,2,4-Trichlorobenzene	20.0	20.60		ug/L		103	77 - 126	1	20
1,2,4-Trimethylbenzene	20.0	21.46		ug/L		107	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	20.0	21.78		ug/L		109	66 - 122	4	20
1,2-Dibromoethane	20.0	21.06		ug/L		105	80 - 120	1	20
1,2-Dichlorobenzene	20.0	20.95		ug/L		105	80 - 121	0	20
1,2-Dichloroethane	20.0	22.34		ug/L		112	77 - 122	2	20
1,2-Dichloropropane	20.0	20.93		ug/L		105	80 - 122	0	20
1,3,5-Trimethylbenzene	20.0	22.16		ug/L		111	80 - 123	0	20
1,3-Dichlorobenzene	20.0	21.12		ug/L		106	80 - 120	1	20
1,3-Dichloropropane	20.0	21.14		ug/L		106	80 - 121	1	20
1,4-Dichlorobenzene	20.0	20.69		ug/L		103	80 - 120	1	20
2,2-Dichloropropane	20.0	20.89		ug/L		104	68 - 143	3	20
2-Butanone (MEK)	20.0	20.46		ug/L		102	61 - 139	17	25
2-Chlorotoluene	20.0	21.05		ug/L		105	80 - 121	2	20
2-Hexanone	20.0	22.39		ug/L		112	63 - 134	8	21
4-Chlorotoluene	20.0	21.16		ug/L		106	80 - 121	2	20
4-Methyl-2-pentanone (MIBK)	20.0	20.63		ug/L		103	67 - 125	5	20
Acetone	20.0	19.73		ug/L		99	45 - 150	4	23
Benzene	20.0	21.36		ug/L		107	80 - 121	1	20
Bromobenzene	20.0	20.79		ug/L		104	80 - 120	0	20
Bromochloromethane	20.0	21.73		ug/L		109	80 - 121	3	20
Bromodichloromethane	20.0	21.93		ug/L		110	80 - 121	1	20
Bromoform	20.0	21.93		ug/L		110	78 - 124	2	20
Bromomethane	20.0	22.52	J	ug/L		113	48 - 156	5	21
cis-1,2-Dichloroethene	20.0	22.19		ug/L		111	80 - 125	3	20
cis-1,3-Dichloropropene	20.0	20.30		ug/L		101	80 - 120	3	20
Carbon disulfide	20.0	20.93		ug/L		105	76 - 129	4	20
Carbon tetrachloride	20.0	22.51		ug/L		113	71 - 137	4	20
Chlorobenzene	20.0	21.31		ug/L		107	80 - 120	1	20
Chloroethane	20.0	20.82		ug/L		104	73 - 138	5	20
Chloroform	20.0	21.54		ug/L		108	80 - 121	2	20

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

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

Lab Sample ID: LCSD 570-514493/3
Matrix: Water
Analysis Batch: 514493

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
Chloromethane	20.0	18.19		ug/L		91	57 - 138	5	20
Dibromochloromethane	20.0	21.86		ug/L		109	80 - 126	1	20
Dibromomethane	20.0	22.13		ug/L		111	80 - 120	0	20
Dichlorodifluoromethane	20.0	23.33		ug/L		117	44 - 148	3	28
Ethylbenzene	20.0	21.31		ug/L		107	80 - 121	1	20
Isopropylbenzene	20.0	21.13		ug/L		106	80 - 121	1	20
Methylene Chloride	20.0	21.28		ug/L		106	80 - 121	3	20
Methyl-t-Butyl Ether (MTBE)	20.0	21.18		ug/L		106	78 - 123	1	20
Naphthalene	20.0	19.11		ug/L		96	65 - 133	4	20
n-Butylbenzene	20.0	21.26		ug/L		106	80 - 125	0	20
N-Propylbenzene	20.0	21.72		ug/L		109	80 - 125	2	20
o-Xylene	20.0	21.08		ug/L		105	80 - 122	1	20
m,p-Xylene	40.0	43.94		ug/L		110	80 - 123	2	20
p-Isopropyltoluene	20.0	21.33		ug/L		107	80 - 124	1	20
sec-Butylbenzene	20.0	21.22		ug/L		106	80 - 122	0	20
Styrene	20.0	21.09		ug/L		105	80 - 120	2	20
trans-1,2-Dichloroethene	20.0	21.74		ug/L		109	80 - 122	2	20
trans-1,3-Dichloropropene	20.0	21.30		ug/L		107	80 - 125	2	20
tert-Butylbenzene	20.0	21.31		ug/L		107	80 - 122	0	20
Tetrachloroethene	20.0	21.10		ug/L		106	80 - 122	1	20
Toluene	20.0	21.15		ug/L		106	80 - 120	1	20
Trichloroethene	20.0	21.60		ug/L		108	80 - 120	1	20
Trichlorofluoromethane	20.0	22.26		ug/L		111	67 - 142	3	20
Vinyl acetate	20.0	21.59		ug/L		108	62 - 140	2	21
Vinyl chloride	20.0	20.95		ug/L		105	66 - 136	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 123
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	106		78 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: SRL 524M - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-514670/4
Matrix: Water
Analysis Batch: 514670

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0	1.7	ng/L			12/17/24 07:33	1

Lab Sample ID: LCS 570-514670/5
Matrix: Water
Analysis Batch: 514670

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	5.00	5.676		ng/L		114	80 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: SRL 524M - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-514670/6
Matrix: Water
Analysis Batch: 514670

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
1,2,3-Trichloropropane	5.00	4.072	J *1	ng/L		81	80 - 120	33	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-514423/5
Matrix: Water
Analysis Batch: 514423

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.043	mg/L			12/16/24 14:32	1
Nitrate as N	ND		0.10	0.020	mg/L			12/16/24 14:32	1

Lab Sample ID: LCS 570-514423/6
Matrix: Water
Analysis Batch: 514423

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	2.50	2.485		mg/L		99	90 - 110
Nitrate as N	5.00	4.955		mg/L		99	90 - 110

Lab Sample ID: LCSD 570-514423/7
Matrix: Water
Analysis Batch: 514423

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	2.50	2.498		mg/L		100	90 - 110	1	15
Nitrate as N	5.00	4.942		mg/L		99	90 - 110	0	15

Lab Sample ID: 570-211122-1 MS
Matrix: Water
Analysis Batch: 514423

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	ND		2.50	2.578		mg/L		103	80 - 120
Nitrate as N	0.10		5.00	5.161		mg/L		101	80 - 120

Lab Sample ID: 570-211122-1 MSD
Matrix: Water
Analysis Batch: 514423

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	ND		2.50	2.564		mg/L		103	80 - 120	1	20
Nitrate as N	0.10		5.00	5.193		mg/L		102	80 - 120	1	20

Lab Sample ID: MB 570-514424/5
Matrix: Water
Analysis Batch: 514424

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			12/16/24 14:32	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 570-514424/5
Matrix: Water
Analysis Batch: 514424

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.18	mg/L			12/16/24 14:32	1

Lab Sample ID: LCS 570-514424/6
Matrix: Water
Analysis Batch: 514424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.77		mg/L		98	90 - 110
Sulfate	50.0	49.05		mg/L		98	90 - 110

Lab Sample ID: LCSD 570-514424/7
Matrix: Water
Analysis Batch: 514424

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
Chloride	50.0	48.75		mg/L		97	90 - 110	0	15
Sulfate	50.0	49.15		mg/L		98	90 - 110	0	15

Lab Sample ID: 570-211122-1 MS
Matrix: Water
Analysis Batch: 514424

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8.8		50.0	62.05		mg/L		106	80 - 120
Sulfate	17		50.0	71.46		mg/L		108	80 - 120

Lab Sample ID: 570-211122-1 MSD
Matrix: Water
Analysis Batch: 514424

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.8		50.0	61.72		mg/L		106	80 - 120	1	20
Sulfate	17		50.0	70.80		mg/L		107	80 - 120	1	20

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 570-514666/5
Matrix: Water
Analysis Batch: 514666

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0	0.39	ug/L			12/17/24 04:31	1

Lab Sample ID: LCS 570-514666/6
Matrix: Water
Analysis Batch: 514666

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	25.0	23.59		ug/L		94	85 - 115

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: LCSD 570-514666/7
Matrix: Water
Analysis Batch: 514666

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
Perchlorate	25.0	24.08		ug/L		96	85 - 115	2	15

Lab Sample ID: MRL 570-514666/3
Matrix: Water
Analysis Batch: 514666

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	1.00	1.126		ug/L		113	75 - 125

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-822917/1-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 822917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.58	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		12/18/24 12:30	12/19/24 11:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.0	ng/L		12/18/24 12:30	12/19/24 11:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		12/18/24 12:30	12/19/24 11:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-822917/1-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 822917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		12/18/24 12:30	12/19/24 11:23	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		12/18/24 12:30	12/19/24 11:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.39	ng/L		12/18/24 12:30	12/19/24 11:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.72	ng/L		12/18/24 12:30	12/19/24 11:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.58	ng/L		12/18/24 12:30	12/19/24 11:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50	ng/L		12/18/24 12:30	12/19/24 11:23	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		12/18/24 12:30	12/19/24 11:23	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		12/18/24 12:30	12/19/24 11:23	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		12/18/24 12:30	12/19/24 11:23	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	98.3		5 - 130	12/18/24 12:30	12/19/24 11:23	1
13C5 PFPeA	107		40 - 130	12/18/24 12:30	12/19/24 11:23	1
13C5 PFHxA	99.5		40 - 130	12/18/24 12:30	12/19/24 11:23	1
13C4 PFHpA	107		40 - 130	12/18/24 12:30	12/19/24 11:23	1
13C8 PFOA	96.5		40 - 130	12/18/24 12:30	12/19/24 11:23	1
13C9 PFNA	99.2		40 - 130	12/18/24 12:30	12/19/24 11:23	1
13C6 PFDA	103		40 - 130	12/18/24 12:30	12/19/24 11:23	1
13C7 PFUnA	98.7		30 - 130	12/18/24 12:30	12/19/24 11:23	1
13C2 PFDoA	81.6		10 - 130	12/18/24 12:30	12/19/24 11:23	1
13C2 PFTeDA	76.7		10 - 130	12/18/24 12:30	12/19/24 11:23	1
13C3 PFBS	94.2		40 - 135	12/18/24 12:30	12/19/24 11:23	1
13C3 PFHxS	96.3		40 - 130	12/18/24 12:30	12/19/24 11:23	1
13C8 PFOS	97.9		40 - 130	12/18/24 12:30	12/19/24 11:23	1
13C8 FOSA	60.9		40 - 130	12/18/24 12:30	12/19/24 11:23	1
d3-NMeFOSAA	84.9		40 - 170	12/18/24 12:30	12/19/24 11:23	1
d5-NEtFOSAA	81.5		25 - 135	12/18/24 12:30	12/19/24 11:23	1
13C2 4:2 FTS	103		40 - 200	12/18/24 12:30	12/19/24 11:23	1
13C2 6:2 FTS	99.8		40 - 200	12/18/24 12:30	12/19/24 11:23	1
13C2 8:2 FTS	76.2		40 - 300	12/18/24 12:30	12/19/24 11:23	1
13C3 HFPO-DA	115		40 - 130	12/18/24 12:30	12/19/24 11:23	1
d7-N-MeFOSE-M	71.6		10 - 130	12/18/24 12:30	12/19/24 11:23	1
d9-N-EtFOSE-M	75.6		10 - 130	12/18/24 12:30	12/19/24 11:23	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-822917/1-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 822917

<i>Isotope Dilution</i>	<i>MB MB</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>d5-NEtPFOSA</i>	73.5		10 - 130	12/18/24 12:30	12/19/24 11:23	1
<i>d3-NMePFOSA</i>	69.1		10 - 130	12/18/24 12:30	12/19/24 11:23	1

Lab Sample ID: LCS 320-822917/3-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822917

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Perfluorobutanoic acid (PFBA)	80.0	76.71		ng/L		96	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	44.99		ng/L		112	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	37.35		ng/L		93	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	38.95		ng/L		97	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	38.89		ng/L		97	70 - 150
Perfluorononanoic acid (PFNA)	40.0	40.68		ng/L		102	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	36.23		ng/L		91	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	37.82		ng/L		95	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	46.85		ng/L		117	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	40.21		ng/L		101	65 - 140
Perfluorotetradecanoic acid (PFTTeDA)	40.0	34.00		ng/L		85	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	31.16		ng/L		88	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	40.76		ng/L		108	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	38.03		ng/L		104	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	33.39		ng/L		87	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	32.30		ng/L		87	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	36.22		ng/L		94	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	33.48		ng/L		87	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	32.79		ng/L		85	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	71.45		ng/L		95	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	88.21		ng/L		116	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	70.54		ng/L		92	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	38.25		ng/L		96	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	41.90		ng/L		105	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	40.62		ng/L		102	65 - 145
N-methylperfluorooctanesulfonamide (NMeFOSAA)	40.0	42.82		ng/L		107	50 - 140

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-822917/3-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	40.0	40.96		ng/L		102	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	193.7		ng/L		97	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	194.1		ng/L		97	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	28.82		ng/L		96	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	33.44		ng/L		88	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	45.36		ng/L		113	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	45.74		ng/L		114	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	26.58		ng/L		66	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	34.59		ng/L		93	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	35.53		ng/L		94	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	34.79		ng/L		98	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	68.25		ng/L		85	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	140.4		ng/L		70	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	141.2		ng/L		71	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	103		5 - 130
13C5 PFPeA	87.8		40 - 130
13C5 PFHxA	102		40 - 130
13C4 PFHpA	94.8		40 - 130
13C8 PFOA	102		40 - 130
13C9 PFNA	101		40 - 130
13C6 PFDA	104		40 - 130
13C7 PFUnA	90.2		30 - 130
13C2 PFDoA	79.9		10 - 130
13C2 PFTeDA	88.6		10 - 130
13C3 PFBS	105		40 - 135
13C3 PFHxS	95.7		40 - 130
13C8 PFOS	103		40 - 130
13C8 FOSA	67.6		40 - 130
d3-NMeFOSAA	82.8		40 - 170
d5-NEtFOSAA	84.8		25 - 135
13C2 4:2 FTS	117		40 - 200
13C2 6:2 FTS	86.8		40 - 200
13C2 8:2 FTS	86.0		40 - 300
13C3 HFPO-DA	105		40 - 130

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-822917/3-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822917

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>d7-N-MeFOSE-M</i>	70.9		10 - 130
<i>d9-N-EtFOSE-M</i>	75.2		10 - 130
<i>d5-NEtPFOSA</i>	75.8		10 - 130
<i>d3-NMePFOSA</i>	68.6		10 - 130

Lab Sample ID: LCSD 320-822917/4-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 822917

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	78.95		ng/L		99	70 - 140	3	30
Perfluoropentanoic acid (PFPeA)	40.0	44.27		ng/L		111	65 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	38.94		ng/L		97	70 - 145	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	39.31		ng/L		98	70 - 150	1	30
Perfluorooctanoic acid (PFOA)	40.0	39.69		ng/L		99	70 - 150	2	30
Perfluorononanoic acid (PFNA)	40.0	44.12		ng/L		110	70 - 150	8	30
Perfluorodecanoic acid (PFDA)	40.0	41.34		ng/L		103	70 - 140	13	30
Perfluoroundecanoic acid (PFUnA)	40.0	38.53		ng/L		96	70 - 145	2	30
Perfluorododecanoic acid (PFDoA)	40.0	44.50		ng/L		111	70 - 140	5	30
Perfluorotridecanoic acid (PFTrDA)	40.0	43.14		ng/L		108	65 - 140	7	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	31.24		ng/L		78	60 - 140	8	30
Perfluorobutanesulfonic acid (PFBS)	35.5	29.65		ng/L		83	60 - 145	5	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	40.66		ng/L		108	65 - 140	0	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.51		ng/L		97	65 - 145	7	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	34.65		ng/L		91	70 - 150	4	30
Perfluorooctanesulfonic acid (PFOS)	37.2	35.16		ng/L		95	55 - 150	8	30
Perfluorononanesulfonic acid (PFNS)	38.5	37.06		ng/L		96	65 - 145	2	30
Perfluorodecanesulfonic acid (PFDS)	38.6	37.57		ng/L		97	60 - 145	11	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	37.08		ng/L		96	50 - 145	12	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	69.45		ng/L		93	70 - 145	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	75.02		ng/L		99	65 - 155	16	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	78.90		ng/L		103	60 - 150	11	30
Perfluorooctanesulfonamide (PFOSA)	40.0	39.30		ng/L		98	70 - 145	3	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	41.60		ng/L		104	60 - 150	1	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	38.84		ng/L		97	65 - 145	4	30

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-822917/4-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 822917

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.01		ng/L		100	50 - 140	7	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.67		ng/L		97	70 - 145	6	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	193.4		ng/L		97	70 - 145	0	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	213.5		ng/L		107	70 - 135	10	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	28.85		ng/L		96	70 - 140	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	36.17		ng/L		96	65 - 145	8	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	42.37		ng/L		106	55 - 140	7	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	42.39		ng/L		106	60 - 150	8	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	39.07	*1	ng/L		98	50 - 150	38	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	38.32		ng/L		103	70 - 155	10	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	35.70		ng/L		95	55 - 160	0	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	34.95		ng/L		98	70 - 140	0	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	61.91		ng/L		77	65 - 130	10	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	146.2		ng/L		73	70 - 135	4	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	157.2		ng/L		79	50 - 145	11	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	103		5 - 130
13C5 PFPeA	101		40 - 130
13C5 PFHxA	99.8		40 - 130
13C4 PFHpA	107		40 - 130
13C8 PFOA	100		40 - 130
13C9 PFNA	93.3		40 - 130
13C6 PFDA	100		40 - 130
13C7 PFUnA	98.9		30 - 130
13C2 PFDoA	86.5		10 - 130
13C2 PFTeDA	84.2		10 - 130
13C3 PFBS	103		40 - 135
13C3 PFHxS	97.4		40 - 130
13C8 PFOS	96.1		40 - 130
13C8 FOSA	63.6		40 - 130
d3-NMeFOSAA	96.4		40 - 170
d5-NEtFOSAA	88.3		25 - 135
13C2 4:2 FTS	106		40 - 200
13C2 6:2 FTS	98.5		40 - 200
13C2 8:2 FTS	86.2		40 - 300

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-822917/4-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 822917

<i>Isotope Dilution</i>	<i>LCS D</i>	<i>LCS D</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C3 HFPO-DA	111		40 - 130
d7-N-MeFOSE-M	72.1		10 - 130
d9-N-EtFOSE-M	68.2		10 - 130
d5-NEtPFOSA	77.2		10 - 130
d3-NMePFOSA	69.1		10 - 130

Lab Sample ID: LLCS 320-822917/2-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822917

<i>Analyte</i>	<i>Spike Added</i>	<i>LLCS Result</i>	<i>LLCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Perfluorobutanoic acid (PFBA)	8.00	7.084		ng/L		89	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.751		ng/L		94	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	3.910		ng/L		98	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	3.476		ng/L		87	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.199		ng/L		105	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.256		ng/L		106	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.676		ng/L		92	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	3.443		ng/L		86	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.460		ng/L		87	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	3.468		ng/L		87	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	2.980		ng/L		75	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.205		ng/L		90	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.780		ng/L		101	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.505		ng/L		96	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.740		ng/L		98	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.603		ng/L		97	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.171		ng/L		82	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	2.643		ng/L		69	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.418		ng/L		62	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.466		ng/L		99	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.542		ng/L		99	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	7.404		ng/L		96	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.461		ng/L		87	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	3.222		ng/L		81	60 - 150

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-822917/2-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822917

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	3.217		ng/L		80	65 - 145
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	4.00	3.653		ng/L		91	50 - 140
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	4.00	3.219		ng/L		80	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	16.04		ng/L		80	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	16.93		ng/L		85	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.564		ng/L		85	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.268		ng/L		86	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.187		ng/L		105	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.753		ng/L		94	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	3.638		ng/L		91	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.037		ng/L		81	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	2.296		ng/L		61	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.558		ng/L		100	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	6.109		ng/L		76	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	14.89		ng/L		74	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	13.33		ng/L		67	50 - 145

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	106		5 - 130
13C5 PFPeA	102		40 - 130
13C5 PFHxA	100		40 - 130
13C4 PFHpA	98.4		40 - 130
13C8 PFOA	99.2		40 - 130
13C9 PFNA	95.6		40 - 130
13C6 PFDA	92.6		40 - 130
13C7 PFUnA	82.1		30 - 130
13C2 PFDoA	70.8		10 - 130
13C2 PFTeDA	76.6		10 - 130
13C3 PFBS	102		40 - 135
13C3 PFHxS	95.7		40 - 130
13C8 PFOS	92.4		40 - 130
13C8 FOSA	55.1		40 - 130
d3-NMeFOSAA	78.5		40 - 170
d5-NEtFOSAA	72.3		25 - 135
13C2 4:2 FTS	105		40 - 200

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-822917/2-A
Matrix: Water
Analysis Batch: 823075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 822917

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C2 6:2 FTS	94.8		40 - 200
13C2 8:2 FTS	76.1		40 - 300
13C3 HFPO-DA	112		40 - 130
d7-N-MeFOSE-M	62.1		10 - 130
d9-N-EtFOSE-M	61.5		10 - 130
d5-NEtPFOSA	67.4		10 - 130
d3-NMePFOSA	64.0		10 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-515239/1-A
Matrix: Water
Analysis Batch: 515462

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 515239

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND	^1+	0.100	0.0147	mg/L		12/18/24 08:12	12/18/24 13:02	1
Arsenic	ND		0.100	0.00965	mg/L		12/18/24 08:12	12/18/24 13:02	1
Barium	ND		0.0100	0.000730	mg/L		12/18/24 08:12	12/18/24 13:02	1
Beryllium	ND		0.0100	0.000660	mg/L		12/18/24 08:12	12/18/24 13:02	1
Cadmium	ND		0.0100	0.000450	mg/L		12/18/24 08:12	12/18/24 13:02	1
Chromium	ND		0.0500	0.00300	mg/L		12/18/24 08:12	12/18/24 13:02	1
Cobalt	ND		0.0500	0.00125	mg/L		12/18/24 08:12	12/18/24 13:02	1
Calcium	ND		2.00	0.0839	mg/L		12/18/24 08:12	12/18/24 13:02	1
Copper	ND		0.0500	0.00159	mg/L		12/18/24 08:12	12/18/24 13:02	1
Lead	ND		0.0500	0.00598	mg/L		12/18/24 08:12	12/18/24 13:02	1
Iron	ND		0.500	0.0559	mg/L		12/18/24 08:12	12/18/24 13:02	1
Molybdenum	ND		0.0500	0.00592	mg/L		12/18/24 08:12	12/18/24 13:02	1
Nickel	0.001900	J	0.0500	0.00146	mg/L		12/18/24 08:12	12/18/24 13:02	1
Selenium	ND		0.100	0.0118	mg/L		12/18/24 08:12	12/18/24 13:02	1
Silver	ND		0.0100	0.00340	mg/L		12/18/24 08:12	12/18/24 13:02	1
Magnesium	ND		0.500	0.0703	mg/L		12/18/24 08:12	12/18/24 13:02	1
Thallium	ND		0.0500	0.00863	mg/L		12/18/24 08:12	12/18/24 13:02	1
Manganese	0.001900	J	0.0500	0.00129	mg/L		12/18/24 08:12	12/18/24 13:02	1
Vanadium	ND		0.0100	0.00171	mg/L		12/18/24 08:12	12/18/24 13:02	1
Sodium	ND		2.00	0.186	mg/L		12/18/24 08:12	12/18/24 13:02	1
Zinc	ND		0.250	0.00460	mg/L		12/18/24 08:12	12/18/24 13:02	1

Lab Sample ID: LCS 570-515239/2-A
Matrix: Water
Analysis Batch: 515462

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 515239

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.4546	^1+	mg/L		91	85 - 115
Arsenic	0.500	0.4916		mg/L		98	85 - 115
Barium	0.500	0.4865		mg/L		97	85 - 115
Beryllium	0.500	0.4909		mg/L		98	85 - 115
Cadmium	0.500	0.4970		mg/L		99	85 - 115
Chromium	0.500	0.4917		mg/L		98	85 - 115
Cobalt	0.500	0.4959		mg/L		99	85 - 115

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-515239/2-A
Matrix: Water
Analysis Batch: 515462

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 515239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.50	2.450		mg/L		98	85 - 115
Copper	0.500	0.4943		mg/L		99	85 - 115
Lead	0.500	0.4912		mg/L		98	85 - 115
Iron	0.500	0.4784	J	mg/L		96	85 - 115
Molybdenum	0.500	0.4662		mg/L		93	85 - 115
Nickel	0.500	0.4992		mg/L		100	85 - 115
Selenium	0.500	0.5234		mg/L		105	85 - 115
Silver	0.250	0.2418		mg/L		97	85 - 115
Magnesium	2.50	2.471		mg/L		99	85 - 115
Thallium	0.500	0.4952		mg/L		99	85 - 115
Manganese	0.500	0.4922		mg/L		98	85 - 115
Vanadium	0.500	0.4853		mg/L		97	85 - 115
Sodium	5.00	4.844		mg/L		97	85 - 115
Zinc	0.500	0.5041		mg/L		101	85 - 115

Lab Sample ID: LCSD 570-515239/3-A
Matrix: Water
Analysis Batch: 515462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 515239

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.500	0.4545	^1+	mg/L		91	85 - 115	0	20
Arsenic	0.500	0.4863		mg/L		97	85 - 115	1	20
Barium	0.500	0.4820		mg/L		96	85 - 115	1	20
Beryllium	0.500	0.4864		mg/L		97	85 - 115	1	20
Cadmium	0.500	0.4926		mg/L		99	85 - 115	1	20
Chromium	0.500	0.4886		mg/L		98	85 - 115	1	20
Cobalt	0.500	0.4915		mg/L		98	85 - 115	1	20
Calcium	2.50	2.436		mg/L		97	85 - 115	1	20
Copper	0.500	0.4899		mg/L		98	85 - 115	1	20
Lead	0.500	0.4827		mg/L		97	85 - 115	2	20
Iron	0.500	0.4701	J	mg/L		94	85 - 115	2	20
Molybdenum	0.500	0.4624		mg/L		92	85 - 115	1	20
Nickel	0.500	0.4942		mg/L		99	85 - 115	1	20
Selenium	0.500	0.5243		mg/L		105	85 - 115	0	20
Silver	0.250	0.2394		mg/L		96	85 - 115	1	20
Magnesium	2.50	2.430		mg/L		97	85 - 115	2	20
Thallium	0.500	0.4924		mg/L		98	85 - 115	1	20
Manganese	0.500	0.4879		mg/L		98	85 - 115	1	20
Vanadium	0.500	0.4795		mg/L		96	85 - 115	1	20
Sodium	5.00	4.824		mg/L		96	85 - 115	0	20
Zinc	0.500	0.4985		mg/L		100	85 - 115	1	20

Lab Sample ID: MB 570-514840/1-A
Matrix: Water
Analysis Batch: 515912

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.100	0.0147	mg/L			12/19/24 10:04	1
Arsenic	ND		0.100	0.00965	mg/L			12/19/24 10:04	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 570-514840/1-A
Matrix: Water
Analysis Batch: 515912

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0100	0.000730	mg/L			12/19/24 10:04	1
Beryllium	ND		0.0100	0.000660	mg/L			12/19/24 10:04	1
Cadmium	ND		0.0100	0.000450	mg/L			12/19/24 10:04	1
Chromium	ND		0.0500	0.00300	mg/L			12/19/24 10:04	1
Cobalt	ND		0.0500	0.00125	mg/L			12/19/24 10:04	1
Calcium	ND		2.00	0.0839	mg/L			12/19/24 10:04	1
Copper	ND		0.0500	0.00159	mg/L			12/19/24 10:04	1
Lead	ND		0.0500	0.00598	mg/L			12/19/24 10:04	1
Iron	ND		0.500	0.0559	mg/L			12/19/24 10:04	1
Molybdenum	ND		0.0500	0.00592	mg/L			12/19/24 10:04	1
Nickel	0.001600	J	0.0500	0.00146	mg/L			12/19/24 10:04	1
Selenium	ND		0.100	0.0118	mg/L			12/19/24 10:04	1
Silver	ND		0.0100	0.00340	mg/L			12/19/24 10:04	1
Magnesium	ND		0.500	0.0703	mg/L			12/19/24 10:04	1
Thallium	ND		0.0500	0.00863	mg/L			12/19/24 10:04	1
Manganese	ND		0.0500	0.00129	mg/L			12/19/24 10:04	1
Vanadium	ND		0.0100	0.00171	mg/L			12/19/24 10:04	1
Sodium	ND		2.00	0.186	mg/L			12/19/24 10:04	1
Zinc	ND		0.250	0.00460	mg/L			12/19/24 10:04	1

Lab Sample ID: LCS 570-514840/2-A
Matrix: Water
Analysis Batch: 515912

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.4689	^1+	mg/L		94	85 - 115
Arsenic	0.500	0.4783		mg/L		96	85 - 115
Barium	0.500	0.4771		mg/L		95	85 - 115
Beryllium	0.500	0.4714		mg/L		94	85 - 115
Cadmium	0.500	0.4735		mg/L		95	85 - 115
Chromium	0.500	0.4787		mg/L		96	85 - 115
Cobalt	0.500	0.4750		mg/L		95	85 - 115
Calcium	2.50	2.407		mg/L		96	85 - 115
Copper	0.500	0.4747		mg/L		95	85 - 115
Lead	0.500	0.4774		mg/L		95	85 - 115
Iron	0.500	0.4777	J	mg/L		96	85 - 115
Molybdenum	0.500	0.4701		mg/L		94	85 - 115
Nickel	0.500	0.4803		mg/L		96	85 - 115
Selenium	0.500	0.4502		mg/L		90	85 - 115
Silver	0.250	0.2174		mg/L		87	85 - 115
Magnesium	2.50	2.399		mg/L		96	85 - 115
Thallium	0.500	0.4724		mg/L		94	85 - 115
Manganese	0.500	0.4801		mg/L		96	85 - 115
Vanadium	0.500	0.4766		mg/L		95	85 - 115
Sodium	5.00	4.666		mg/L		93	85 - 115
Zinc	0.500	0.4721		mg/L		94	85 - 115

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-514840/3-A
Matrix: Water
Analysis Batch: 515912

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.500	0.4763	^1+	mg/L		95	85 - 115	2	20
Arsenic	0.500	0.4826		mg/L		97	85 - 115	1	20
Barium	0.500	0.4791		mg/L		96	85 - 115	0	20
Beryllium	0.500	0.4742		mg/L		95	85 - 115	1	20
Cadmium	0.500	0.4775		mg/L		96	85 - 115	1	20
Chromium	0.500	0.4801		mg/L		96	85 - 115	0	20
Cobalt	0.500	0.4796		mg/L		96	85 - 115	1	20
Calcium	2.50	2.419		mg/L		97	85 - 115	0	20
Copper	0.500	0.4767		mg/L		95	85 - 115	0	20
Lead	0.500	0.4780		mg/L		96	85 - 115	0	20
Iron	0.500	0.4812	J	mg/L		96	85 - 115	1	20
Molybdenum	0.500	0.4734		mg/L		95	85 - 115	1	20
Nickel	0.500	0.4853		mg/L		97	85 - 115	1	20
Selenium	0.500	0.4541		mg/L		91	85 - 115	1	20
Silver	0.250	0.2231		mg/L		89	85 - 115	3	20
Magnesium	2.50	2.407		mg/L		96	85 - 115	0	20
Thallium	0.500	0.4803		mg/L		96	85 - 115	2	20
Manganese	0.500	0.4813		mg/L		96	85 - 115	0	20
Vanadium	0.500	0.4781		mg/L		96	85 - 115	0	20
Sodium	5.00	4.697		mg/L		94	85 - 115	1	20
Zinc	0.500	0.4756		mg/L		95	85 - 115	1	20

Lab Sample ID: 570-211122-1 MS
Matrix: Water
Analysis Batch: 515912

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	H F2 F1 ^1+	0.500	0.3875	F1 ^1+	mg/L		78	80 - 120
Arsenic	0.0229	J H	0.500	0.4259		mg/L		81	80 - 120
Barium	0.0395	H	0.500	0.4569		mg/L		83	80 - 120
Beryllium	ND	H	0.500	0.3976		mg/L		80	80 - 120
Cadmium	ND	H F2 F1	0.500	0.3957	F1	mg/L		79	80 - 120
Chromium	ND	H F2 F1	0.500	0.3946	F1	mg/L		79	80 - 120
Cobalt	ND	H F2 F1	0.500	0.3911	F1	mg/L		78	80 - 120
Calcium	6.19	H	2.50	8.707		mg/L		101	80 - 120
Copper	ND	H	0.500	0.4153		mg/L		83	80 - 120
Lead	ND	H F2 F1	0.500	0.3941	F1	mg/L		79	80 - 120
Iron	0.114	J H	0.500	0.5913		mg/L		95	80 - 120
Molybdenum	0.0146	J H F2 F1	0.500	0.4072	F1	mg/L		79	80 - 120
Nickel	ND	H F2	0.500	0.3999		mg/L		80	80 - 120
Selenium	ND	H F1	0.500	0.3876	F1	mg/L		78	80 - 120
Silver	ND	H F1	0.250	0.1823	F1	mg/L		73	80 - 120
Magnesium	1.37	H	2.50	3.417		mg/L		82	80 - 120
Thallium	ND	H F2 F1	0.500	0.3694	F1	mg/L		74	80 - 120
Manganese	0.0172	J H	0.500	0.4194		mg/L		80	80 - 120
Vanadium	0.0152	H	0.500	0.4149		mg/L		80	80 - 120
Sodium	61.0	H	5.00	63.71	4	mg/L		53	80 - 120
Zinc	ND	H F2	0.500	0.4073		mg/L		81	80 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: 570-211122-1 MSD
Matrix: Water
Analysis Batch: 515912

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	H F2 F1 ^1+	0.500	0.5034	^1+ F2	mg/L		101	80 - 120	26	20
Arsenic	0.0229	J H	0.500	0.5043		mg/L		96	80 - 120	17	20
Barium	0.0395	H	0.500	0.5304		mg/L		98	80 - 120	15	20
Beryllium	ND	H	0.500	0.4884		mg/L		98	80 - 120	20	20
Cadmium	ND	H F2 F1	0.500	0.4874	F2	mg/L		97	80 - 120	21	20
Chromium	ND	H F2 F1	0.500	0.4879	F2	mg/L		98	80 - 120	21	20
Cobalt	ND	H F2 F1	0.500	0.4845	F2	mg/L		97	80 - 120	21	20
Calcium	6.19	H	2.50	8.355		mg/L		87	80 - 120	4	20
Copper	ND	H	0.500	0.5101		mg/L		102	80 - 120	20	20
Lead	ND	H F2 F1	0.500	0.4853	F2	mg/L		97	80 - 120	21	20
Iron	0.114	J H	0.500	0.6387		mg/L		105	80 - 120	8	20
Molybdenum	0.0146	J H F2 F1	0.500	0.5026	F2	mg/L		98	80 - 120	21	20
Nickel	ND	H F2	0.500	0.4916	F2	mg/L		98	80 - 120	21	20
Selenium	ND	H F1	0.500	0.4713		mg/L		94	80 - 120	19	20
Silver	ND	H F1	0.250	0.1959	F1	mg/L		78	80 - 120	7	20
Magnesium	1.37	H	2.50	3.708		mg/L		94	80 - 120	8	20
Thallium	ND	H F2 F1	0.500	0.4672	F2	mg/L		93	80 - 120	23	20
Manganese	0.0172	J H	0.500	0.5028		mg/L		97	80 - 120	18	20
Vanadium	0.0152	H	0.500	0.5067		mg/L		98	80 - 120	20	20
Sodium	61.0	H	5.00	63.42	4	mg/L		48	80 - 120	0	20
Zinc	ND	H F2	0.500	0.5024	F2	mg/L		100	80 - 120	21	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 570-514506/1-A
Matrix: Water
Analysis Batch: 515032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 514506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		12/16/24 14:29	12/17/24 15:45	1

Lab Sample ID: LCS 570-514506/2-A
Matrix: Water
Analysis Batch: 515032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 514506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00800	0.008266		mg/L		103	80 - 120

Lab Sample ID: LCSD 570-514506/3-A
Matrix: Water
Analysis Batch: 515032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 514506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00800	0.008183		mg/L		102	80 - 120	1	10

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

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

Lab Sample ID: MB 570-514838/1-B
Matrix: Water
Analysis Batch: 515923

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 514843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		12/17/24 11:17	12/19/24 12:17	1

Lab Sample ID: LCS 570-514838/2-B
Matrix: Water
Analysis Batch: 515562

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 514843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00800	0.006818		mg/L		85	80 - 120

Lab Sample ID: LCSD 570-514838/3-B
Matrix: Water
Analysis Batch: 515562

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 514843

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00800	0.007355		mg/L		92	80 - 120	8	10

Lab Sample ID: 570-211122-1 MS
Matrix: Water
Analysis Batch: 515562

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Dissolved
Prep Batch: 514843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000132	J H	0.00800	0.008390		mg/L		103	80 - 120

Lab Sample ID: 570-211122-1 MSD
Matrix: Water
Analysis Batch: 515562

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Dissolved
Prep Batch: 514843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000132	J H	0.00800	0.008624		mg/L		106	80 - 120	3	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-515651/114
Matrix: Water
Analysis Batch: 515651

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		5.00	2.18	mg/L			12/19/24 02:48	1
Bicarbonate (as CaCO3)	ND		5.00	2.18	mg/L			12/19/24 02:48	1
Carbonate (as CaCO3)	ND		5.00	2.18	mg/L			12/19/24 02:48	1
Hydroxide (as CaCO3)	ND		5.00	2.18	mg/L			12/19/24 02:48	1

Lab Sample ID: LCS 570-515651/112
Matrix: Water
Analysis Batch: 515651

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)	106	101.8		mg/L		96	78 - 110

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 570-515651/113
Matrix: Water
Analysis Batch: 515651

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
Alkalinity, Total (As CaCO3)	106	102.0		mg/L		96	78 - 110	0	10

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

Lab Sample ID: MB 570-516146/1
Matrix: Water
Analysis Batch: 516146

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	8.35	mg/L			12/19/24 21:19	1

Lab Sample ID: LCS 570-516146/2
Matrix: Water
Analysis Batch: 516146

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	1000	960.0		mg/L		96	84 - 108

Lab Sample ID: LCSD 570-516146/3
Matrix: Water
Analysis Batch: 516146

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 Dissolved Solids	1000	982.0		mg/L		98	84 - 108	2	10

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 570-514800/5-A
Matrix: Water
Analysis Batch: 514864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 514800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MBAS	ND		0.200	0.0520	mg/L		12/17/24 10:12	12/17/24 11:55	1

Lab Sample ID: LCS 570-514800/6-A
Matrix: Water
Analysis Batch: 514864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 514800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MBAS	0.500	0.4928		mg/L		99	83 - 122

Lab Sample ID: LCSD 570-514800/7-A
Matrix: Water
Analysis Batch: 514864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 514800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MBAS	0.500	0.4725		mg/L		94	83 - 122	4	10

QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211122-1

Method: SM 5540C - Methylene Blue Active Substances (MBAS) (Continued)

Lab Sample ID: 570-211122-1 MS
Matrix: Water
Analysis Batch: 514864

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Total/NA
Prep Batch: 514800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
MBAS	ND	F1	0.500	ND	F1	mg/L		0	64 - 141

Lab Sample ID: 570-211122-1 MSD
Matrix: Water
Analysis Batch: 514864

Client Sample ID: Zone #1 : Explorer Well-642
Prep Type: Total/NA
Prep Batch: 514800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MBAS	ND	F1	0.500	ND	F1	mg/L		0	64 - 141	NC	10

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

GC/MS VOA

Analysis Batch: 514491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	624.1	
MB 570-514491/6	Method Blank	Total/NA	Water	624.1	
LCS 570-514491/1002	Lab Control Sample	Total/NA	Water	624.1	
LCSD 570-514491/3	Lab Control Sample Dup	Total/NA	Water	624.1	

Analysis Batch: 514493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	8260B	
MB 570-514493/6	Method Blank	Total/NA	Water	8260B	
LCS 570-514493/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-514493/3	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 514670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	SRL 524M	
MB 570-514670/4	Method Blank	Total/NA	Water	SRL 524M	
LCS 570-514670/5	Lab Control Sample	Total/NA	Water	SRL 524M	
LCSD 570-514670/6	Lab Control Sample Dup	Total/NA	Water	SRL 524M	

HPLC/IC

Analysis Batch: 514423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	300.0	
MB 570-514423/5	Method Blank	Total/NA	Water	300.0	
LCS 570-514423/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-514423/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-211122-1 MS	Zone #1 : Explorer Well-642	Total/NA	Water	300.0	
570-211122-1 MSD	Zone #1 : Explorer Well-642	Total/NA	Water	300.0	

Analysis Batch: 514424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	300.0	
MB 570-514424/5	Method Blank	Total/NA	Water	300.0	
LCS 570-514424/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-514424/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-211122-1 MS	Zone #1 : Explorer Well-642	Total/NA	Water	300.0	
570-211122-1 MSD	Zone #1 : Explorer Well-642	Total/NA	Water	300.0	

Analysis Batch: 514666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	314.0 LL	
MB 570-514666/5	Method Blank	Total/NA	Water	314.0 LL	
LCS 570-514666/6	Lab Control Sample	Total/NA	Water	314.0 LL	
LCSD 570-514666/7	Lab Control Sample Dup	Total/NA	Water	314.0 LL	
MRL 570-514666/3	Lab Control Sample	Total/NA	Water	314.0 LL	

LCMS

Prep Batch: 822917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	1633	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

LCMS (Continued)

Prep Batch: 822917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-822917/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-822917/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-822917/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-822917/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 823075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	1633	822917
MB 320-822917/1-A	Method Blank	Total/NA	Water	1633	822917
LCS 320-822917/3-A	Lab Control Sample	Total/NA	Water	1633	822917
LCSD 320-822917/4-A	Lab Control Sample Dup	Total/NA	Water	1633	822917
LLCS 320-822917/2-A	Lab Control Sample	Total/NA	Water	1633	822917

Metals

Prep Batch: 514506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	7470A	
MB 570-514506/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-514506/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-514506/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Filtration Batch: 514838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Dissolved	Water	Filtration	
MB 570-514838/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 570-514838/2-B	Lab Control Sample	Dissolved	Water	Filtration	
LCSD 570-514838/3-B	Lab Control Sample Dup	Dissolved	Water	Filtration	
570-211122-1 MS	Zone #1 : Explorer Well-642	Dissolved	Water	Filtration	
570-211122-1 MSD	Zone #1 : Explorer Well-642	Dissolved	Water	Filtration	

Filtration Batch: 514840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Dissolved	Water	Filtration	
MB 570-514840/1-A	Method Blank	Dissolved	Water	Filtration	
LCS 570-514840/2-A	Lab Control Sample	Dissolved	Water	Filtration	
LCSD 570-514840/3-A	Lab Control Sample Dup	Dissolved	Water	Filtration	
570-211122-1 MS	Zone #1 : Explorer Well-642	Dissolved	Water	Filtration	
570-211122-1 MSD	Zone #1 : Explorer Well-642	Dissolved	Water	Filtration	

Prep Batch: 514843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Dissolved	Water	7470A	514838
MB 570-514838/1-B	Method Blank	Dissolved	Water	7470A	514838
LCS 570-514838/2-B	Lab Control Sample	Dissolved	Water	7470A	514838
LCSD 570-514838/3-B	Lab Control Sample Dup	Dissolved	Water	7470A	514838
570-211122-1 MS	Zone #1 : Explorer Well-642	Dissolved	Water	7470A	514838
570-211122-1 MSD	Zone #1 : Explorer Well-642	Dissolved	Water	7470A	514838

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Metals

Analysis Batch: 515032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	7470A	514506
MB 570-514506/1-A	Method Blank	Total/NA	Water	7470A	514506
LCS 570-514506/2-A	Lab Control Sample	Total/NA	Water	7470A	514506
LCSD 570-514506/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	514506

Analysis Batch: 515051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total Recoverable	Water	SM 2340B	

Prep Batch: 515239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total Recoverable	Water	200.7	
MB 570-515239/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-515239/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-515239/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 515462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-515239/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	515239
LCS 570-515239/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	515239
LCSD 570-515239/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	515239

Analysis Batch: 515562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-514838/2-B	Lab Control Sample	Dissolved	Water	7470A	514843
LCSD 570-514838/3-B	Lab Control Sample Dup	Dissolved	Water	7470A	514843
570-211122-1 MS	Zone #1 : Explorer Well-642	Dissolved	Water	7470A	514843
570-211122-1 MSD	Zone #1 : Explorer Well-642	Dissolved	Water	7470A	514843

Analysis Batch: 515650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total Recoverable	Water	200.7 Rev 4.4	515239

Analysis Batch: 515912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Dissolved	Water	200.7 Rev 4.4	514840
MB 570-514840/1-A	Method Blank	Dissolved	Water	200.7 Rev 4.4	514840
LCS 570-514840/2-A	Lab Control Sample	Dissolved	Water	200.7 Rev 4.4	514840
LCSD 570-514840/3-A	Lab Control Sample Dup	Dissolved	Water	200.7 Rev 4.4	514840
570-211122-1 MS	Zone #1 : Explorer Well-642	Dissolved	Water	200.7 Rev 4.4	514840
570-211122-1 MSD	Zone #1 : Explorer Well-642	Dissolved	Water	200.7 Rev 4.4	514840

Analysis Batch: 515923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Dissolved	Water	7470A	514843
MB 570-514838/1-B	Method Blank	Dissolved	Water	7470A	514843

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

General Chemistry

Prep Batch: 514800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	SM 5540C	
MB 570-514800/5-A	Method Blank	Total/NA	Water	SM 5540C	
LCS 570-514800/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	
LCSD 570-514800/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	
570-211122-1 MS	Zone #1 : Explorer Well-642	Total/NA	Water	SM 5540C	
570-211122-1 MSD	Zone #1 : Explorer Well-642	Total/NA	Water	SM 5540C	

Analysis Batch: 514864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	SM 5540C	514800
MB 570-514800/5-A	Method Blank	Total/NA	Water	SM 5540C	514800
LCS 570-514800/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	514800
LCSD 570-514800/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	514800
570-211122-1 MS	Zone #1 : Explorer Well-642	Total/NA	Water	SM 5540C	514800
570-211122-1 MSD	Zone #1 : Explorer Well-642	Total/NA	Water	SM 5540C	514800

Analysis Batch: 515651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	SM 2320B	
MB 570-515651/114	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-515651/112	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-515651/113	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 515653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 516146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	SM 2540C	
MB 570-516146/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-516146/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-516146/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 517439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211122-1	Zone #1 : Explorer Well-642	Total/NA	Water	SM 2510B	

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Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Client Sample ID: Zone #1 : Explorer Well-642

Lab Sample ID: 570-211122-1

Date Collected: 12/15/24 13:15

Matrix: Water

Date Received: 12/16/24 07:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	514491	12/17/24 00:07	GC3Z	EET CAL 4
		Instrument ID: GCMSXX								
Total/NA	Analysis	8260B		1	5 mL	5 mL	514493	12/17/24 00:07	GC3Z	EET CAL 4
		Instrument ID: GCMSXX								
Total/NA	Analysis	SRL 524M		1	25 mL	25 mL	514670	12/17/24 10:08	N5PD	EET CAL 4
		Instrument ID: GCMS78								
Total/NA	Analysis	300.0		1	4 mL	4 mL	514423	12/16/24 20:24	U9EE	EET CAL 4
		Instrument ID: IC9								
Total/NA	Analysis	300.0		1	4 mL	4 mL	514424	12/16/24 20:24	U9EE	EET CAL 4
		Instrument ID: IC9								
Total/NA	Analysis	314.0 LL		1	5 mL	5 mL	514666	12/17/24 06:54	YO8L	EET CAL 4
		Instrument ID: IC25								
Total/NA	Prep	1633			151.6 mL	5.0 mL	822917	12/18/24 12:30	KMG	EET SAC
Total/NA	Analysis	1633		1			823075	12/19/24 12:29	S1M	EET SAC
		Instrument ID: A42								
Dissolved	Filtration	Filtration			50 mL	50 mL	514840	12/17/24 11:11	RL6Q	EET CAL 4
Dissolved	Analysis	200.7 Rev 4.4		1			515912	12/19/24 10:11	VZ0K	EET CAL 4
		Instrument ID: ICP11								
Total Recoverable	Prep	200.7			50 mL	50 mL	515239	12/18/24 08:12	RL6Q	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			515650	12/18/24 18:19	P1R	EET CAL 4
		Instrument ID: ICP11								
Dissolved	Filtration	Filtration			25 mL	25 mL	514838	12/17/24 11:10	RL6Q	EET CAL 4
Dissolved	Prep	7470A			25 mL	50 mL	514843	12/17/24 11:17	VCN7	EET CAL 4
Dissolved	Analysis	7470A		1			515923	12/19/24 12:12	RL6Q	EET CAL 4
		Instrument ID: HG7								
Total/NA	Prep	7470A			25 mL	50 mL	514506	12/16/24 14:29	VCN7	EET CAL 4
Total/NA	Analysis	7470A		1			515032	12/17/24 16:48	RL6Q	EET CAL 4
		Instrument ID: HG7								
Total Recoverable	Analysis	SM 2340B		1			515051	12/19/24 17:18	P1R	EET CAL 4
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	515651	12/19/24 04:48	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2510B		1			517439	12/23/24 20:30	UAPD	EET CAL 4
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	516146	12/19/24 21:19	ZL7L	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	SM 4500 H+ B		1			515653	12/19/24 04:48	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Prep	SM 5540C			100 mL	100 mL	514800	12/17/24 10:12	ZVB7	EET CAL 4
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	514864	12/17/24 12:00	PK4M	EET CAL 4
		Instrument ID: UV8								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211122-1

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
314.0 LL		Water	Perchlorate
624.1		Water	cis-1,2-Dichloroethene
624.1		Water	Dichlorodifluoromethane
624.1		Water	Methyl-t-Butyl Ether (MTBE)
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone (MEK)
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	Acetone
8260B		Water	Isopropylbenzene
8260B		Water	p-Isopropyltoluene
8260B		Water	Vinyl acetate
8260B		Water	Xylenes, Total
SM 2340B		Water	Calcium hardness as calcium carbonate
SM 2340B		Water	Magnesium hardness as calcium carbonate
SRL 524M		Water	1,2,3-Trichloropropane

Oregon	NELAP	4175	02-02-25
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate (as CaCO3)
SM 2320B		Water	Carbonate (as CaCO3)
SM 2320B		Water	Hydroxide (as CaCO3)
SM 2340B		Water	Magnesium hardness as calcium carbonate

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468	01-20-27
Arizona	State	AZ0708	08-11-25
Arkansas DEQ	State	88-0691	05-18-25
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-25

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211122-1

Laboratory: Eurofins Sacramento (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
Florida	NELAP	E87570	06-30-25
Georgia	State	4040	01-29-25
Hawaii	State	Eurofins Sacramento	01-29-25
Illinois	NELAP	200060	03-31-25
Kansas	NELAP	E-10375	10-31-25
Louisiana	NELAP	01944	06-30-25
Louisiana (All)	NELAP	01944	06-30-25
Maine	State	CA00004	04-14-26
Michigan	State	9947	01-29-25
Minnesota	NELAP	2749448	12-31-25
Nevada	State	CA00044	07-31-25
New Hampshire	NELAP	2997	04-19-25
New Jersey	NELAP	CA005	06-30-25
New York	NELAP	11666	04-01-25
Ohio	State	41252	01-29-25
Oregon	NELAP	4040	01-29-25
Texas	NELAP	T104704399-23-17	05-31-25
US Fish & Wildlife	US Federal Programs	A22139	04-30-25
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-25
Virginia	NELAP	460278	03-14-25
Washington	State	C581	05-05-25
West Virginia (DW)	State	9930C	01-31-25
Wisconsin	State	998204680	08-31-25
Wyoming	State Program	8TMS-L	01-28-19 *

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

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CAL 4
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
SRL 524M	Volatile Organic Compounds (GC/MS)	CADHS	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
314.0 LL	Perchlorate (IC)	EPA	EET CAL 4
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
7470A	Mercury (CVAA)	SW846	EET CAL 4
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 4500 H+ B	pH	SM	EET CAL 4
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EET CAL 4
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7470A	Preparation, Mercury	SW846	EET CAL 4
Filtration	Sample Filtration	None	EET CAL 4
SM 5540C	Preparation, Methylene Blue Active Substances (MBAS)	SM	EET CAL 4

Protocol References:

CADHS = California Department of Health Services

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

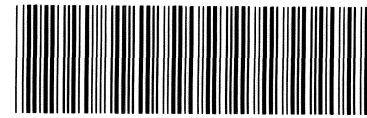
Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211122-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
570-211122-1	Zone #1 : Explorer Well-642	Water	12/15/24 13:15	12/16/24 07:03

Chain of Custody Record



570-211122 Chain of Custody

Client Information		Sampler: <i>Hilano Aguilan</i>	Lab PM: <i>Nowak, Stephen</i>	COC No: 570-116855-24324.1												
Client Contact: <i>Elizette Viramontes & Tara Rolfe</i>		Phone: <i>(323) 533-2571</i>	E-Mail: <i>Stephen.Nowak@et.eurofinsus.com</i>	Page: Page 1 of 1												
Company: <i>Geosyntec Consultants Inc</i>		PWSID:	Analysis Requested		Job #: <i>57022737</i>											
Address: <i>440 E. Huntington Drive Suite 425</i>		Due Date Requested:	Perform M/MSD (Yes or No) <input checked="" type="checkbox"/> 2320B - 2510B, 2540C - Catcd, 300_ORGFMS_28D, 300_ORGFMS, 314.0, SM4500_H+ 200.7, 7470A, SM2340B 8260B - Routine Volatiles List (Full Spike) CA_SRL_524M_SIM - CA SRL 524M 1,2,3-Trichloropropane 5540C - Methylene Blue Active Substances (MBAS) 624.1 - Routine No A/A No 2-CEVE (14-day HT) 1633 - EPA 1633 Method List <i>Extra 1 Liter needs to be lab filtered for metals and mercury</i>		Preservation Codes: N - None D - HNO3 A - HCL											
City: <i>Arcadia</i>		TAT Requested (days): <i>5-day TAT</i>			Other:											
State, Zip: <i>CA, 91006</i>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No			Special Instructions/Note:											
Phone: <i>626-788-4638</i>		PO #: Purchase Order Requested														
Email: <i>Elizette.Viramontes@Geosyntec.com & trolfe@geosyntec.com</i>		WO #:														
Project Name: <i>HPA1104 - EV HPA110004</i>		Project #: <i>57022737</i>														
Site: <i>Explorer Well</i>		SSOW#:														
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	N	D	A	A	N	N	N	Total Number of containers	Special Instructions/Note:
<i>Zone #1: Explorer Well -642</i>		<i>12-15-24</i>	<i>1315</i>	<i>G</i>	<i>Water</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<i>Extra 1L of Raw Water (unfiltered)</i>
					<i>Water</i>											
					<i>Water</i>											
					<i>Water</i>											
					<i>Water</i>											
					<i>Water</i>											
					<i>Water</i>											
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
Deliverable Requested: I, II, III, IV, Other (specify)				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:										
Relinquished by: <i>Nosse Al Silan</i>		Date/Time: <i>12/16/24 06:30</i>		Company: <i>Geosyntec</i>		Received by: <i>Jose Garcia</i>		Date/Time: <i>12/16/24 5:30</i>		Company:						
Relinquished by: <i>JOSE SHERZ</i>		Date/Time: <i>12/16/24 - 7:00</i>		Company: <i>Maddens</i>		Received by: <i>[Signature]</i>		Date/Time: <i>12/16/24 0703</i>		Company: <i>[Signature]</i>						
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>4.4/5.4 SC14</i>												

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-211122-1

Login Number: 211122

List Source: Eurofins Calscience

List Number: 1

Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-211122-1

Login Number: 211122

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 12/17/24 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Elizette Viramontes
Geosyntec Consultants Inc
440 E. Huntington Drive
Suite 425
Arcadia, California 91006
Generated 12/27/2024 5:04:36 PM

JOB DESCRIPTION

HPA110004

JOB NUMBER

570-211441-1

Eurofins Calscience

Job Notes

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

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 Calscience Project Manager.

Authorization



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12/27/2024 5:04:36 PM

Authorized for release by
Stephen Nowak, Project Manager I
Stephen.Nowak@et.eurofinsus.com
(714)895-5494



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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

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

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA110004

Job ID: 570-211441-1

Job ID: 570-211441-1

Eurofins Calscience

Job Narrative 570-211441-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 12/18/2024 7:08 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

Receipt Exceptions

Received 1x 250ml plastic unpreserved with no label of any ID on container.
Explorer Well -577 (570-211441-1)

GC/MS VOA

Method 624.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-516994. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: Explorer Well -577 (570-211441-1).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 570-515483 were outside control limits: (570-210881-A-3 MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

HPLC/IC

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

PFAS

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

Metals

Method 200.7 - Total Recoverable: The initial calibration verification (ICV) result for batch 570-515763 was above the upper control limit. The affected analytes are: Antimony. Sample results were non-detects, and have been reported as qualified data.

Method 200.7 - Total Recoverable: The method blank for preparation batch 570-515427 and analytical batch 570-515763 contained Manganese and Sodium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

General Chemistry

Method 5540C: Sample result concentrations for methylene blue active substances (MBAS) are calculated as LAS, mol. wt. 320.

Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute

Eurofins Calscience

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA110004

Job ID: 570-211441-1

Job ID: 570-211441-1 (Continued)

Eurofins Calscience

timeframe: Explorer Well -577 (570-211441-1).

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

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Client Sample ID: Explorer Well -577

Lab Sample ID: 570-211441-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		1.0	0.36	mg/L	1		300.0	Total/NA
Nitrate as N	1.2		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate	16		1.0	0.18	mg/L	1		300.0	Total/NA
Perchlorate	1.6		1.0	0.39	ug/L	1		314.0 LL	Total/NA
Barium	0.0301		0.0100	0.000730	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.00410	J	0.0500	0.00300	mg/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	21.5		2.00	0.0839	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.00850	J	0.0500	0.00592	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.271	J	0.500	0.0559	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.00990	J	0.0100	0.00171	mg/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	5.41		0.500	0.0703	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0140	J B	0.0500	0.00129	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	54.3	B	2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Hardness as calcium carbonate	76.0		7.05	0.499	mg/L	1		SM 2340B	Total Recoverable
Calcium hardness as calcium carbonate	53.8		4.99	0.209	mg/L	1		SM 2340B	Total Recoverable
Magnesium hardness as calcium carbonate	22.3		2.06	0.289	mg/L	1		SM 2340B	Total Recoverable
Alkalinity, Total (As CaCO3)	161		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	161		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Specific Conductance	392		1.00	1.00	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	225		10.0	8.35	mg/L	1		SM 2540C	Total/NA
pH	8.3	HF	0.01	0.01	S.U.	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			12/23/24 14:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			12/23/24 14:31	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/23/24 14:31	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			12/23/24 14:31	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			12/23/24 14:31	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			12/23/24 14:31	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			12/23/24 14:31	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			12/23/24 14:31	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			12/23/24 14:31	1
Benzene	ND		0.50	0.30	ug/L			12/23/24 14:31	1
Bromodichloromethane	ND		1.0	0.24	ug/L			12/23/24 14:31	1
Bromoform	ND		1.0	0.46	ug/L			12/23/24 14:31	1
Bromomethane	ND		5.0	3.7	ug/L			12/23/24 14:31	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/23/24 14:31	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			12/23/24 14:31	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			12/23/24 14:31	1
Chlorobenzene	ND		1.0	0.20	ug/L			12/23/24 14:31	1
Chloroethane	ND		1.0	0.54	ug/L			12/23/24 14:31	1
Chloroform	ND		1.0	0.26	ug/L			12/23/24 14:31	1
Chloromethane	ND		1.0	0.65	ug/L			12/23/24 14:31	1
Dibromochloromethane	ND		1.0	0.25	ug/L			12/23/24 14:31	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			12/23/24 14:31	1
Ethylbenzene	ND		1.0	0.23	ug/L			12/23/24 14:31	1
Methylene Chloride	ND		2.0	0.83	ug/L			12/23/24 14:31	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			12/23/24 14:31	1
o-Xylene	ND		1.0	0.24	ug/L			12/23/24 14:31	1
m,p-Xylene	ND		1.0	0.48	ug/L			12/23/24 14:31	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			12/23/24 14:31	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			12/23/24 14:31	1
Tetrachloroethene	ND		1.0	0.39	ug/L			12/23/24 14:31	1
Toluene	ND		1.0	0.19	ug/L			12/23/24 14:31	1
Trichloroethene	ND		1.0	0.41	ug/L			12/23/24 14:31	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			12/23/24 14:31	1
Vinyl chloride	ND		0.50	0.36	ug/L			12/23/24 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		60 - 140		12/23/24 14:31	1
4-Bromofluorobenzene (Surr)	109		60 - 140		12/23/24 14:31	1
Dibromofluoromethane (Surr)	103		60 - 140		12/23/24 14:31	1
Toluene-d8 (Surr)	99		60 - 140		12/23/24 14:31	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

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

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			12/19/24 02:11	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			12/19/24 02:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			12/19/24 02:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			12/19/24 02:11	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/19/24 02:11	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			12/19/24 02:11	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			12/19/24 02:11	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			12/19/24 02:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			12/19/24 02:11	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			12/19/24 02:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			12/19/24 02:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			12/19/24 02:11	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			12/19/24 02:11	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			12/19/24 02:11	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/19/24 02:11	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/19/24 02:11	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			12/19/24 02:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			12/19/24 02:11	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			12/19/24 02:11	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			12/19/24 02:11	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/19/24 02:11	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/19/24 02:11	1
2-Butanone (MEK)	ND		10	4.5	ug/L			12/19/24 02:11	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			12/19/24 02:11	1
2-Hexanone	ND		10	2.7	ug/L			12/19/24 02:11	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			12/19/24 02:11	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			12/19/24 02:11	1
Acetone	ND		10	7.4	ug/L			12/19/24 02:11	1
Benzene	ND		0.50	0.24	ug/L			12/19/24 02:11	1
Bromobenzene	ND		1.0	0.29	ug/L			12/19/24 02:11	1
Bromochloromethane	ND		2.0	0.38	ug/L			12/19/24 02:11	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/19/24 02:11	1
Bromoform	ND		5.0	1.9	ug/L			12/19/24 02:11	1
Bromomethane	ND		25	7.4	ug/L			12/19/24 02:11	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/19/24 02:11	1
cis-1,3-Dichloropropane	ND		0.50	0.26	ug/L			12/19/24 02:11	1
Carbon disulfide	ND		10	0.42	ug/L			12/19/24 02:11	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			12/19/24 02:11	1
Chlorobenzene	ND		1.0	0.26	ug/L			12/19/24 02:11	1
Chloroethane	ND		5.0	1.9	ug/L			12/19/24 02:11	1
Chloroform	ND		1.0	0.32	ug/L			12/19/24 02:11	1
Chloromethane	ND		10	2.2	ug/L			12/19/24 02:11	1
Dibromochloromethane	ND		2.0	0.37	ug/L			12/19/24 02:11	1
Dibromomethane	ND		1.0	0.33	ug/L			12/19/24 02:11	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			12/19/24 02:11	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/19/24 02:11	1
Isopropylbenzene	ND		1.0	0.41	ug/L			12/19/24 02:11	1
Methylene Chloride	ND		10	3.0	ug/L			12/19/24 02:11	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			12/19/24 02:11	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

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

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			12/19/24 02:11	1
n-Butylbenzene	ND		1.0	0.53	ug/L			12/19/24 02:11	1
N-Propylbenzene	ND		1.0	0.47	ug/L			12/19/24 02:11	1
o-Xylene	ND		1.0	0.27	ug/L			12/19/24 02:11	1
m,p-Xylene	ND		2.0	0.49	ug/L			12/19/24 02:11	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			12/19/24 02:11	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			12/19/24 02:11	1
Styrene	ND		1.0	0.38	ug/L			12/19/24 02:11	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			12/19/24 02:11	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			12/19/24 02:11	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			12/19/24 02:11	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/19/24 02:11	1
Toluene	ND		1.0	0.30	ug/L			12/19/24 02:11	1
Trichloroethene	ND		1.0	0.39	ug/L			12/19/24 02:11	1
Trichlorofluoromethane	ND		10	0.75	ug/L			12/19/24 02:11	1
Vinyl acetate	ND		10	5.0	ug/L			12/19/24 02:11	1
Vinyl chloride	ND		0.50	0.43	ug/L			12/19/24 02:11	1
Xylenes, Total	ND		2.0	0.49	ug/L			12/19/24 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 123		12/19/24 02:11	1
4-Bromofluorobenzene (Surr)	102		80 - 120		12/19/24 02:11	1
Dibromofluoromethane (Surr)	107		78 - 120		12/19/24 02:11	1
Toluene-d8 (Surr)	99		80 - 120		12/19/24 02:11	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: CADHS SRL 524M - Volatile Organic Compounds (GC/MS)

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0	1.7	ng/L			12/19/24 17:12	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: EPA 300.0 - Anions, Ion Chromatography

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.36	mg/L			12/18/24 16:18	1
Nitrite as N	ND		0.10	0.091	mg/L			12/18/24 16:18	1
Nitrate as N	1.2		0.10	0.020	mg/L			12/18/24 16:18	1
Sulfate	16		1.0	0.18	mg/L			12/18/24 16:18	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: EPA 314.0 LL - Perchlorate (IC)

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	1.6		1.0	0.39	ug/L			12/20/24 07:06	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.0	0.75	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluoropentanoic acid (PFPeA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorohexanoic acid (PFHxA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorooctanoic acid (PFOA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.41	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.43	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.61	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.40	ng/L		12/20/24 07:16	12/22/24 02:49	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.0	0.75	ng/L		12/20/24 07:16	12/22/24 02:49	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.0	0.75	ng/L		12/20/24 07:16	12/22/24 02:49	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.0	0.75	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.5	1.9	ng/L		12/20/24 07:16	12/22/24 02:49	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.5	1.9	ng/L		12/20/24 07:16	12/22/24 02:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.1	0.29	ng/L		12/20/24 07:16	12/22/24 02:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	*1	1.5	0.54	ng/L		12/20/24 07:16	12/22/24 02:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.5	0.43	ng/L		12/20/24 07:16	12/22/24 02:49	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.5	0.37	ng/L		12/20/24 07:16	12/22/24 02:49	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.0	0.75	ng/L		12/20/24 07:16	12/22/24 02:49	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.5	1.9	ng/L		12/20/24 07:16	12/22/24 02:49	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.5	1.9	ng/L		12/20/24 07:16	12/22/24 02:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	107		5 - 130				12/20/24 07:16	12/22/24 02:49	1
13C5 PFPeA	86.3		40 - 130				12/20/24 07:16	12/22/24 02:49	1
13C5 PFHxA	94.3		40 - 130				12/20/24 07:16	12/22/24 02:49	1
13C4 PFHpA	85.7		40 - 130				12/20/24 07:16	12/22/24 02:49	1
13C8 PFOA	103		40 - 130				12/20/24 07:16	12/22/24 02:49	1
13C9 PFNA	88.5		40 - 130				12/20/24 07:16	12/22/24 02:49	1
13C6 PFDA	92.9		40 - 130				12/20/24 07:16	12/22/24 02:49	1
13C7 PFUnA	95.6		30 - 130				12/20/24 07:16	12/22/24 02:49	1
13C2 PFDoA	86.3		10 - 130				12/20/24 07:16	12/22/24 02:49	1
13C2 PFTeDA	80.9		10 - 130				12/20/24 07:16	12/22/24 02:49	1
13C3 PFBS	105		40 - 135				12/20/24 07:16	12/22/24 02:49	1
13C3 PFHxS	96.8		40 - 130				12/20/24 07:16	12/22/24 02:49	1
13C8 PFOS	94.3		40 - 130				12/20/24 07:16	12/22/24 02:49	1
13C8 FOSA	93.1		40 - 130				12/20/24 07:16	12/22/24 02:49	1
d3-NMeFOSAA	83.9		40 - 170				12/20/24 07:16	12/22/24 02:49	1
d5-NEtFOSAA	87.1		25 - 135				12/20/24 07:16	12/22/24 02:49	1
13C2 4:2 FTS	93.4		40 - 200				12/20/24 07:16	12/22/24 02:49	1
13C2 6:2 FTS	109		40 - 200				12/20/24 07:16	12/22/24 02:49	1
13C2 8:2 FTS	91.2		40 - 300				12/20/24 07:16	12/22/24 02:49	1
13C3 HFPO-DA	83.8		40 - 130				12/20/24 07:16	12/22/24 02:49	1
d7-N-MeFOSE-M	70.1		10 - 130				12/20/24 07:16	12/22/24 02:49	1
d9-N-EtFOSE-M	64.3		10 - 130				12/20/24 07:16	12/22/24 02:49	1
d5-NEtPFOSA	75.0		10 - 130				12/20/24 07:16	12/22/24 02:49	1
d3-NMePFOSA	85.2		10 - 130				12/20/24 07:16	12/22/24 02:49	1

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Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211441-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^1+	0.100	0.0147	mg/L		12/18/24 13:44	12/19/24 04:05	1
Arsenic	ND		0.100	0.00965	mg/L		12/18/24 13:44	12/19/24 04:05	1
Barium	0.0301		0.0100	0.000730	mg/L		12/18/24 13:44	12/19/24 04:05	1
Beryllium	ND		0.0100	0.000660	mg/L		12/18/24 13:44	12/19/24 04:05	1
Cadmium	ND		0.0100	0.000450	mg/L		12/18/24 13:44	12/19/24 04:05	1
Chromium	0.00410	J	0.0500	0.00300	mg/L		12/18/24 13:44	12/19/24 04:05	1
Cobalt	ND		0.0500	0.00125	mg/L		12/18/24 13:44	12/19/24 04:05	1
Copper	ND		0.0500	0.00159	mg/L		12/18/24 13:44	12/19/24 04:05	1
Calcium	21.5		2.00	0.0839	mg/L		12/18/24 13:44	12/19/24 04:05	1
Lead	ND		0.0500	0.00598	mg/L		12/18/24 13:44	12/19/24 04:05	1
Molybdenum	0.00850	J	0.0500	0.00592	mg/L		12/18/24 13:44	12/19/24 04:05	1
Nickel	ND		0.0500	0.00146	mg/L		12/18/24 13:44	12/19/24 04:05	1
Selenium	ND		0.100	0.0118	mg/L		12/18/24 13:44	12/19/24 04:05	1
Iron	0.271	J	0.500	0.0559	mg/L		12/18/24 13:44	12/19/24 04:05	1
Silver	ND		0.0100	0.00340	mg/L		12/18/24 13:44	12/19/24 04:05	1
Thallium	ND		0.0500	0.00863	mg/L		12/18/24 13:44	12/19/24 04:05	1
Vanadium	0.00990	J	0.0100	0.00171	mg/L		12/18/24 13:44	12/19/24 04:05	1
Magnesium	5.41		0.500	0.0703	mg/L		12/18/24 13:44	12/19/24 04:05	1
Zinc	ND		0.250	0.00460	mg/L		12/18/24 13:44	12/19/24 04:05	1
Manganese	0.0140	J B	0.0500	0.00129	mg/L		12/18/24 13:44	12/19/24 04:05	1
Sodium	54.3	B	2.00	0.186	mg/L		12/18/24 13:44	12/19/24 04:05	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		12/19/24 02:58	12/19/24 14:53	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	76.0		7.05	0.499	mg/L			12/18/24 16:34	1
Calcium hardness as calcium carbonate	53.8		4.99	0.209	mg/L			12/18/24 16:34	1
Magnesium hardness as calcium carbonate	22.3		2.06	0.289	mg/L			12/18/24 16:34	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211441-1

General Chemistry

Client Sample ID: Explorer Well -577

Date Collected: 12/17/24 23:45

Date Received: 12/18/24 07:08

Lab Sample ID: 570-211441-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	161		5.00	2.18	mg/L			12/19/24 20:24	1
Bicarbonate (as CaCO3) (SM 2320B)	161		5.00	2.18	mg/L			12/19/24 20:24	1
Carbonate (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			12/19/24 20:24	1
Hydroxide (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			12/19/24 20:24	1
Specific Conductance (SM 2510B)	392		1.00	1.00	umhos/cm			12/19/24 20:24	1
Total Dissolved Solids (SM 2540C)	225		10.0	8.35	mg/L			12/20/24 16:09	1
pH (SM 4500 H+ B)	8.3	HF	0.01	0.01	S.U.			12/19/24 20:24	1
MBAS (SM 5540C)	ND		0.200	0.0520	mg/L		12/18/24 14:27	12/18/24 18:33	1

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(60-140)	(60-140)	(60-140)	(60-140)
570-211441-1	Explorer Well -577	104	109	103	99
LCS 570-516994/1003	Lab Control Sample	115	108	109	100
LCSD 570-516994/4	Lab Control Sample Dup	116	108	110	100
MB 570-516994/7	Method Blank	116	103	110	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(70-123)	(80-120)	(78-120)	(80-120)
570-211441-1	Explorer Well -577	111	102	107	99
LCS 570-515483/1003	Lab Control Sample	110	106	106	100
LCSD 570-515483/4	Lab Control Sample Dup	113	106	105	99
MB 570-515483/7	Method Blank	113	101	109	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
570-211441-1	Explorer Well -577	107	86.3	94.3	85.7	103	88.5	92.9	95.6
LCS 320-823489/3-A	Lab Control Sample	100	96.0	94.2	85.4	99.5	84.0	92.9	92.9
LCSD 320-823489/4-A	Lab Control Sample Dup	110	101	103	108	95.4	95.3	97.3	100
LLCS 320-823489/2-A	Lab Control Sample	110	103	101	107	96.7	88.3	97.1	90.6
MB 320-823489/1-A	Method Blank	95.6	97.8	101	94.4	98.3	86.6	99.3	87.1

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
570-211441-1	Explorer Well -577	86.3	80.9	105	96.8	94.3	93.1	83.9	87.1
LCS 320-823489/3-A	Lab Control Sample	83.6	81.6	87.2	88.2	92.8	85.0	86.9	88.5
LCSD 320-823489/4-A	Lab Control Sample Dup	87.2	85.8	107	97.6	106	90.9	101	89.5
LLCS 320-823489/2-A	Lab Control Sample	85.6	81.5	93.1	91.1	97.0	91.6	95.5	84.4
MB 320-823489/1-A	Method Blank	80.3	73.6	90.9	89.4	96.5	85.6	87.2	85.2

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
570-211441-1	Explorer Well -577	93.4	109	91.2	83.8	70.1	64.3	75.0	85.2
LCS 320-823489/3-A	Lab Control Sample	100	87.5	78.0	89.5	77.4	70.8	77.6	79.6
LCSD 320-823489/4-A	Lab Control Sample Dup	105	97.9	85.5	95.5	73.5	67.5	77.9	84.2
LLCS 320-823489/2-A	Lab Control Sample	109	112	80.3	99.7	73.7	66.5	75.1	76.8
MB 320-823489/1-A	Method Blank	112	101	79.3	90.9	71.6	67.2	63.7	70.4

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M242FTS = 13C2 4:2 FTS
- M262FTS = 13C2 6:2 FTS
- M282FTS = 13C2 8:2 FTS
- HFPODA = 13C3 HFPO-DA
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- d5NPFSA = d5-NEtPFOSA
- d3NMFSA = d3-NMePFOSA

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-516994/7
Matrix: Water
Analysis Batch: 516994

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			12/23/24 09:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			12/23/24 09:10	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/23/24 09:10	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			12/23/24 09:10	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			12/23/24 09:10	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			12/23/24 09:10	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			12/23/24 09:10	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			12/23/24 09:10	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			12/23/24 09:10	1
Benzene	ND		0.50	0.30	ug/L			12/23/24 09:10	1
Bromodichloromethane	ND		1.0	0.24	ug/L			12/23/24 09:10	1
Bromoform	ND		1.0	0.46	ug/L			12/23/24 09:10	1
Bromomethane	ND		5.0	3.7	ug/L			12/23/24 09:10	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/23/24 09:10	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			12/23/24 09:10	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			12/23/24 09:10	1
Chlorobenzene	ND		1.0	0.20	ug/L			12/23/24 09:10	1
Chloroethane	ND		1.0	0.54	ug/L			12/23/24 09:10	1
Chloroform	ND		1.0	0.26	ug/L			12/23/24 09:10	1
Chloromethane	ND		1.0	0.65	ug/L			12/23/24 09:10	1
Dibromochloromethane	ND		1.0	0.25	ug/L			12/23/24 09:10	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			12/23/24 09:10	1
Ethylbenzene	ND		1.0	0.23	ug/L			12/23/24 09:10	1
Methylene Chloride	ND		2.0	0.83	ug/L			12/23/24 09:10	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			12/23/24 09:10	1
o-Xylene	ND		1.0	0.24	ug/L			12/23/24 09:10	1
m,p-Xylene	ND		1.0	0.48	ug/L			12/23/24 09:10	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			12/23/24 09:10	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			12/23/24 09:10	1
Tetrachloroethene	ND		1.0	0.39	ug/L			12/23/24 09:10	1
Toluene	ND		1.0	0.19	ug/L			12/23/24 09:10	1
Trichloroethene	ND		1.0	0.41	ug/L			12/23/24 09:10	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			12/23/24 09:10	1
Vinyl chloride	ND		0.50	0.36	ug/L			12/23/24 09:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	116		60 - 140		12/23/24 09:10	1
4-Bromofluorobenzene (Surr)	103		60 - 140		12/23/24 09:10	1
Dibromofluoromethane (Surr)	110		60 - 140		12/23/24 09:10	1
Toluene-d8 (Surr)	99		60 - 140		12/23/24 09:10	1

Lab Sample ID: LCS 570-516994/1003
Matrix: Water
Analysis Batch: 516994

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	20.0	21.90		ug/L		109	60 - 140

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-516994/1003
Matrix: Water
Analysis Batch: 516994

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	21.89		ug/L		109	70 - 130
1,1-Dichloroethene	20.0	21.35		ug/L		107	50 - 150
1,2-Dichlorobenzene	20.0	21.80		ug/L		109	65 - 135
1,2-Dichloroethane	20.0	24.07		ug/L		120	70 - 130
1,2-Dichloropropane	20.0	21.63		ug/L		108	35 - 165
1,3-Dichlorobenzene	20.0	22.00		ug/L		110	70 - 130
1,4-Dichlorobenzene	20.0	21.83		ug/L		109	65 - 135
Benzene	20.0	21.98		ug/L		110	65 - 135
Bromodichloromethane	20.0	23.04		ug/L		115	65 - 135
Bromoform	20.0	23.44		ug/L		117	70 - 130
Bromomethane	20.0	17.40		ug/L		87	15 - 185
cis-1,2-Dichloroethene	20.0	23.14		ug/L		116	60 - 140
cis-1,3-Dichloropropene	20.0	23.06		ug/L		115	25 - 175
Carbon tetrachloride	20.0	23.13		ug/L		116	70 - 130
Chlorobenzene	20.0	22.01		ug/L		110	65 - 135
Chloroethane	20.0	21.05		ug/L		105	40 - 160
Chloroform	20.0	22.48		ug/L		112	70 - 135
Chloromethane	20.0	18.14		ug/L		91	1 - 205
Dibromochloromethane	20.0	23.08		ug/L		115	70 - 135
Dichlorodifluoromethane	20.0	21.93		ug/L		110	60 - 140
Ethylbenzene	20.0	21.65		ug/L		108	60 - 140
Methylene Chloride	20.0	22.23		ug/L		111	60 - 140
Methyl-t-Butyl Ether (MTBE)	20.0	22.56		ug/L		113	60 - 140
o-Xylene	20.0	21.85		ug/L		109	60 - 140
m,p-Xylene	40.0	45.28		ug/L		113	60 - 140
trans-1,2-Dichloroethene	20.0	22.35		ug/L		112	70 - 130
trans-1,3-Dichloropropene	20.0	23.47		ug/L		117	50 - 150
Tetrachloroethene	20.0	21.45		ug/L		107	70 - 130
Toluene	20.0	21.82		ug/L		109	70 - 130
Trichloroethene	20.0	22.13		ug/L		111	65 - 135
Trichlorofluoromethane	20.0	21.71		ug/L		109	50 - 150
Vinyl chloride	20.0	20.83		ug/L		104	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		60 - 140
4-Bromofluorobenzene (Surr)	108		60 - 140
Dibromofluoromethane (Surr)	109		60 - 140
Toluene-d8 (Surr)	100		60 - 140

Lab Sample ID: LCSD 570-516994/4
Matrix: Water
Analysis Batch: 516994

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
1,1,1-Trichloroethane	20.0	22.53		ug/L		113	70 - 130	3	36
1,1,1,2,2-Tetrachloroethane	20.0	22.20		ug/L		111	60 - 140	1	61
1,1-Dichloroethane	20.0	21.99		ug/L		110	70 - 130	0	40
1,1-Dichloroethene	20.0	20.28		ug/L		101	50 - 150	5	32

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-516994/4
Matrix: Water
Analysis Batch: 516994

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
1,2-Dichlorobenzene	20.0	21.49		ug/L		107	65 - 135	1	57
1,2-Dichloroethane	20.0	23.77		ug/L		119	70 - 130	1	49
1,2-Dichloropropane	20.0	21.12		ug/L		106	35 - 165	2	55
1,3-Dichlorobenzene	20.0	21.45		ug/L		107	70 - 130	3	43
1,4-Dichlorobenzene	20.0	21.11		ug/L		106	65 - 135	3	57
Benzene	20.0	21.11		ug/L		106	65 - 135	4	61
Bromodichloromethane	20.0	22.52		ug/L		113	65 - 135	2	56
Bromoform	20.0	23.38		ug/L		117	70 - 130	0	42
Bromomethane	20.0	15.55		ug/L		78	15 - 185	11	61
cis-1,2-Dichloroethene	20.0	22.59		ug/L		113	60 - 140	2	30
cis-1,3-Dichloropropene	20.0	22.41		ug/L		112	25 - 175	3	58
Carbon tetrachloride	20.0	22.79		ug/L		114	70 - 130	1	41
Chlorobenzene	20.0	21.29		ug/L		106	65 - 135	3	53
Chloroethane	20.0	20.14		ug/L		101	40 - 160	4	78
Chloroform	20.0	22.04		ug/L		110	70 - 135	2	30
Chloromethane	20.0	17.16		ug/L		86	1 - 205	6	60
Dibromochloromethane	20.0	22.97		ug/L		115	70 - 135	0	50
Dichlorodifluoromethane	20.0	20.63		ug/L		103	60 - 140	6	30
Ethylbenzene	20.0	21.04		ug/L		105	60 - 140	3	63
Methylene Chloride	20.0	21.91		ug/L		110	60 - 140	1	28
Methyl-t-Butyl Ether (MTBE)	20.0	22.88		ug/L		114	60 - 140	1	30
o-Xylene	20.0	21.33		ug/L		107	60 - 140	2	30
m,p-Xylene	40.0	43.47		ug/L		109	60 - 140	4	30
trans-1,2-Dichloroethene	20.0	21.71		ug/L		109	70 - 130	3	45
trans-1,3-Dichloropropene	20.0	22.88		ug/L		114	50 - 150	3	86
Tetrachloroethene	20.0	21.09		ug/L		105	70 - 130	2	39
Toluene	20.0	20.99		ug/L		105	70 - 130	4	41
Trichloroethene	20.0	21.27		ug/L		106	65 - 135	4	48
Trichlorofluoromethane	20.0	20.64		ug/L		103	50 - 150	5	84
Vinyl chloride	20.0	19.74		ug/L		99	5 - 195	5	66

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	116		60 - 140
4-Bromofluorobenzene (Surr)	108		60 - 140
Dibromofluoromethane (Surr)	110		60 - 140
Toluene-d8 (Surr)	100		60 - 140

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

Lab Sample ID: MB 570-515483/7
Matrix: Water
Analysis Batch: 515483

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			12/18/24 18:30	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			12/18/24 18:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			12/18/24 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			12/18/24 18:30	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/18/24 18:30	1

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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211441-1

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

Lab Sample ID: MB 570-515483/7
Matrix: Water
Analysis Batch: 515483

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.34	ug/L			12/18/24 18:30	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			12/18/24 18:30	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			12/18/24 18:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			12/18/24 18:30	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			12/18/24 18:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			12/18/24 18:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			12/18/24 18:30	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			12/18/24 18:30	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			12/18/24 18:30	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/18/24 18:30	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/18/24 18:30	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			12/18/24 18:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			12/18/24 18:30	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			12/18/24 18:30	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			12/18/24 18:30	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/18/24 18:30	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/18/24 18:30	1
2-Butanone (MEK)	ND		10	4.5	ug/L			12/18/24 18:30	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			12/18/24 18:30	1
2-Hexanone	ND		10	2.7	ug/L			12/18/24 18:30	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			12/18/24 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			12/18/24 18:30	1
Acetone	ND		10	7.4	ug/L			12/18/24 18:30	1
Benzene	ND		0.50	0.24	ug/L			12/18/24 18:30	1
Bromobenzene	ND		1.0	0.29	ug/L			12/18/24 18:30	1
Bromochloromethane	ND		2.0	0.38	ug/L			12/18/24 18:30	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/18/24 18:30	1
Bromoform	ND		5.0	1.9	ug/L			12/18/24 18:30	1
Bromomethane	ND		25	7.4	ug/L			12/18/24 18:30	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/18/24 18:30	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			12/18/24 18:30	1
Carbon disulfide	ND		10	0.42	ug/L			12/18/24 18:30	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			12/18/24 18:30	1
Chlorobenzene	ND		1.0	0.26	ug/L			12/18/24 18:30	1
Chloroethane	ND		5.0	1.9	ug/L			12/18/24 18:30	1
Chloroform	ND		1.0	0.32	ug/L			12/18/24 18:30	1
Chloromethane	ND		10	2.2	ug/L			12/18/24 18:30	1
Dibromochloromethane	ND		2.0	0.37	ug/L			12/18/24 18:30	1
Dibromomethane	ND		1.0	0.33	ug/L			12/18/24 18:30	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			12/18/24 18:30	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/18/24 18:30	1
Isopropylbenzene	ND		1.0	0.41	ug/L			12/18/24 18:30	1
Methylene Chloride	ND		10	3.0	ug/L			12/18/24 18:30	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			12/18/24 18:30	1
Naphthalene	ND		10	4.9	ug/L			12/18/24 18:30	1
n-Butylbenzene	ND		1.0	0.53	ug/L			12/18/24 18:30	1
N-Propylbenzene	ND		1.0	0.47	ug/L			12/18/24 18:30	1
o-Xylene	ND		1.0	0.27	ug/L			12/18/24 18:30	1
m,p-Xylene	ND		2.0	0.49	ug/L			12/18/24 18:30	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

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

Lab Sample ID: MB 570-515483/7
Matrix: Water
Analysis Batch: 515483

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	ND		1.0	0.47	ug/L			12/18/24 18:30	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			12/18/24 18:30	1
Styrene	ND		1.0	0.38	ug/L			12/18/24 18:30	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			12/18/24 18:30	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			12/18/24 18:30	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			12/18/24 18:30	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/18/24 18:30	1
Toluene	ND		1.0	0.30	ug/L			12/18/24 18:30	1
Trichloroethene	ND		1.0	0.39	ug/L			12/18/24 18:30	1
Trichlorofluoromethane	ND		10	0.75	ug/L			12/18/24 18:30	1
Vinyl acetate	ND		10	5.0	ug/L			12/18/24 18:30	1
Vinyl chloride	ND		0.50	0.43	ug/L			12/18/24 18:30	1
Xylenes, Total	ND		2.0	0.49	ug/L			12/18/24 18:30	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	113		70 - 123		12/18/24 18:30	1
4-Bromofluorobenzene (Surr)	101		80 - 120		12/18/24 18:30	1
Dibromofluoromethane (Surr)	109		78 - 120		12/18/24 18:30	1
Toluene-d8 (Surr)	98		80 - 120		12/18/24 18:30	1

Lab Sample ID: LCS 570-515483/1003
Matrix: Water
Analysis Batch: 515483

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	22.15		ug/L		111	78 - 125
1,1,2,2-Tetrachloroethane	20.0	19.82		ug/L		99	79 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.98		ug/L		105	72 - 138
1,1,2-Trichloroethane	20.0	20.57		ug/L		103	80 - 124
1,1-Dichloroethane	20.0	21.07		ug/L		105	80 - 127
1,1-Dichloroethene	20.0	19.55		ug/L		98	80 - 133
1,1-Dichloropropene	20.0	21.50		ug/L		107	79 - 126
1,2,3-Trichlorobenzene	20.0	19.65		ug/L		98	79 - 128
1,2,3-Trichloropropane	20.0	19.95		ug/L		100	71 - 128
1,2,4-Trichlorobenzene	20.0	19.90		ug/L		99	77 - 126
1,2,4-Trimethylbenzene	20.0	20.94		ug/L		105	80 - 121
1,2-Dibromo-3-Chloropropane	20.0	21.30		ug/L		107	66 - 122
1,2-Dibromoethane	20.0	18.99		ug/L		95	80 - 120
1,2-Dichlorobenzene	20.0	20.34		ug/L		102	80 - 121
1,2-Dichloroethane	20.0	22.35		ug/L		112	77 - 122
1,2-Dichloropropane	20.0	20.67		ug/L		103	80 - 122
1,3,5-Trimethylbenzene	20.0	21.97		ug/L		110	80 - 123
1,3-Dichlorobenzene	20.0	20.82		ug/L		104	80 - 120
1,3-Dichloropropane	20.0	20.06		ug/L		100	80 - 121
1,4-Dichlorobenzene	20.0	20.34		ug/L		102	80 - 120
2,2-Dichloropropane	20.0	21.14		ug/L		106	68 - 143
2-Butanone (MEK)	20.0	20.46		ug/L		102	61 - 139

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

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

Lab Sample ID: LCS 570-515483/1003

Matrix: Water

Analysis Batch: 515483

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	21.22		ug/L		106	80 - 121
2-Hexanone	20.0	20.70		ug/L		104	63 - 134
4-Chlorotoluene	20.0	21.29		ug/L		106	80 - 121
4-Methyl-2-pentanone (MIBK)	20.0	18.41		ug/L		92	67 - 125
Acetone	20.0	19.20		ug/L		96	45 - 150
Benzene	20.0	21.14		ug/L		106	80 - 121
Bromobenzene	20.0	20.74		ug/L		104	80 - 120
Bromochloromethane	20.0	21.64		ug/L		108	80 - 121
Bromodichloromethane	20.0	21.93		ug/L		110	80 - 121
Bromoform	20.0	20.00		ug/L		100	78 - 124
Bromomethane	20.0	22.85	J	ug/L		114	48 - 156
cis-1,2-Dichloroethene	20.0	21.76		ug/L		109	80 - 125
cis-1,3-Dichloropropene	20.0	19.12		ug/L		96	80 - 120
Carbon disulfide	20.0	17.96		ug/L		90	76 - 129
Carbon tetrachloride	20.0	22.49		ug/L		112	71 - 137
Chlorobenzene	20.0	21.07		ug/L		105	80 - 120
Chloroethane	20.0	21.83		ug/L		109	73 - 138
Chloroform	20.0	21.43		ug/L		107	80 - 121
Chloromethane	20.0	18.32		ug/L		92	57 - 138
Dibromochloromethane	20.0	21.18		ug/L		106	80 - 126
Dibromomethane	20.0	21.27		ug/L		106	80 - 120
Dichlorodifluoromethane	20.0	22.37		ug/L		112	44 - 148
Ethylbenzene	20.0	21.33		ug/L		107	80 - 121
Isopropylbenzene	20.0	21.66		ug/L		108	80 - 121
Methylene Chloride	20.0	20.69		ug/L		103	80 - 121
Methyl-t-Butyl Ether (MTBE)	20.0	19.84		ug/L		99	78 - 123
Naphthalene	20.0	17.50		ug/L		88	65 - 133
n-Butylbenzene	20.0	21.25		ug/L		106	80 - 125
N-Propylbenzene	20.0	21.84		ug/L		109	80 - 125
o-Xylene	20.0	21.23		ug/L		106	80 - 122
m,p-Xylene	40.0	44.19		ug/L		110	80 - 123
p-Isopropyltoluene	20.0	21.37		ug/L		107	80 - 124
sec-Butylbenzene	20.0	21.00		ug/L		105	80 - 122
Styrene	20.0	21.48		ug/L		107	80 - 120
trans-1,2-Dichloroethene	20.0	21.20		ug/L		106	80 - 122
trans-1,3-Dichloropropene	20.0	19.72		ug/L		99	80 - 125
tert-Butylbenzene	20.0	20.98		ug/L		105	80 - 122
Tetrachloroethene	20.0	20.83		ug/L		104	80 - 122
Toluene	20.0	21.14		ug/L		106	80 - 120
Trichloroethene	20.0	21.53		ug/L		108	80 - 120
Trichlorofluoromethane	20.0	23.81		ug/L		119	67 - 142
Vinyl acetate	20.0	20.18		ug/L		101	62 - 140
Vinyl chloride	20.0	21.51		ug/L		108	66 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 123
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	106		78 - 120

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

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

Lab Sample ID: LCS 570-515483/1003
Matrix: Water
Analysis Batch: 515483

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 570-515483/4
Matrix: Water
Analysis Batch: 515483

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
1,1,1,2-Tetrachloroethane	20.0	22.42		ug/L		112	80 - 122	5	20	
1,1,1-Trichloroethane	20.0	22.79		ug/L		114	78 - 125	3	20	
1,1,2,2-Tetrachloroethane	20.0	21.81		ug/L		109	79 - 127	10	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.31		ug/L		107	72 - 138	2	20	
1,1,2-Trichloroethane	20.0	21.52		ug/L		108	80 - 124	5	20	
1,1-Dichloroethane	20.0	21.33		ug/L		107	80 - 127	1	20	
1,1-Dichloroethene	20.0	19.68		ug/L		98	80 - 133	1	20	
1,1-Dichloropropene	20.0	21.88		ug/L		109	79 - 126	2	20	
1,2,3-Trichlorobenzene	20.0	21.32		ug/L		107	79 - 128	8	20	
1,2,3-Trichloropropane	20.0	20.30		ug/L		101	71 - 128	2	20	
1,2,4-Trichlorobenzene	20.0	21.92		ug/L		110	77 - 126	10	20	
1,2,4-Trimethylbenzene	20.0	22.73		ug/L		114	80 - 121	8	20	
1,2-Dibromo-3-Chloropropane	20.0	22.41		ug/L		112	66 - 122	5	20	
1,2-Dibromoethane	20.0	20.37		ug/L		102	80 - 120	7	20	
1,2-Dichlorobenzene	20.0	22.14		ug/L		111	80 - 121	8	20	
1,2-Dichloroethane	20.0	23.12		ug/L		116	77 - 122	3	20	
1,2-Dichloropropane	20.0	20.96		ug/L		105	80 - 122	1	20	
1,3,5-Trimethylbenzene	20.0	22.97		ug/L		115	80 - 123	4	20	
1,3-Dichlorobenzene	20.0	22.45		ug/L		112	80 - 120	8	20	
1,3-Dichloropropane	20.0	21.05		ug/L		105	80 - 121	5	20	
1,4-Dichlorobenzene	20.0	22.08		ug/L		110	80 - 120	8	20	
2,2-Dichloropropane	20.0	21.61		ug/L		108	68 - 143	2	20	
2-Butanone (MEK)	20.0	21.97		ug/L		110	61 - 139	7	25	
2-Chlorotoluene	20.0	22.11		ug/L		111	80 - 121	4	20	
2-Hexanone	20.0	20.17		ug/L		101	63 - 134	3	21	
4-Chlorotoluene	20.0	22.44		ug/L		112	80 - 121	5	20	
4-Methyl-2-pentanone (MIBK)	20.0	19.57		ug/L		98	67 - 125	6	20	
Acetone	20.0	20.70		ug/L		104	45 - 150	8	23	
Benzene	20.0	21.39		ug/L		107	80 - 121	1	20	
Bromobenzene	20.0	21.75		ug/L		109	80 - 120	5	20	
Bromochloromethane	20.0	22.13		ug/L		111	80 - 121	2	20	
Bromodichloromethane	20.0	22.24		ug/L		111	80 - 121	1	20	
Bromoform	20.0	21.76		ug/L		109	78 - 124	8	20	
Bromomethane	20.0	23.85	J	ug/L		119	48 - 156	4	21	
cis-1,2-Dichloroethene	20.0	22.21		ug/L		111	80 - 125	2	20	
cis-1,3-Dichloropropene	20.0	19.86		ug/L		99	80 - 120	4	20	
Carbon disulfide	20.0	18.01		ug/L		90	76 - 129	0	20	
Carbon tetrachloride	20.0	23.19		ug/L		116	71 - 137	3	20	
Chlorobenzene	20.0	21.76		ug/L		109	80 - 120	3	20	
Chloroethane	20.0	21.82		ug/L		109	73 - 138	0	20	
Chloroform	20.0	21.86		ug/L		109	80 - 121	2	20	

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

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

Lab Sample ID: LCSD 570-515483/4
Matrix: Water
Analysis Batch: 515483

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
Chloromethane	20.0	18.17		ug/L		91	57 - 138	1	20
Dibromochloromethane	20.0	22.39		ug/L		112	80 - 126	6	20
Dibromomethane	20.0	21.92		ug/L		110	80 - 120	3	20
Dichlorodifluoromethane	20.0	22.48		ug/L		112	44 - 148	0	28
Ethylbenzene	20.0	22.27		ug/L		111	80 - 121	4	20
Isopropylbenzene	20.0	22.39		ug/L		112	80 - 121	3	20
Methylene Chloride	20.0	21.29		ug/L		106	80 - 121	3	20
Methyl-t-Butyl Ether (MTBE)	20.0	21.00		ug/L		105	78 - 123	6	20
Naphthalene	20.0	19.31		ug/L		97	65 - 133	10	20
n-Butylbenzene	20.0	22.56		ug/L		113	80 - 125	6	20
N-Propylbenzene	20.0	22.73		ug/L		114	80 - 125	4	20
o-Xylene	20.0	22.12		ug/L		111	80 - 122	4	20
m,p-Xylene	40.0	45.75		ug/L		114	80 - 123	3	20
p-Isopropyltoluene	20.0	22.77		ug/L		114	80 - 124	6	20
sec-Butylbenzene	20.0	22.51		ug/L		113	80 - 122	7	20
Styrene	20.0	22.20		ug/L		111	80 - 120	3	20
trans-1,2-Dichloroethene	20.0	21.53		ug/L		108	80 - 122	2	20
trans-1,3-Dichloropropene	20.0	20.64		ug/L		103	80 - 125	5	20
tert-Butylbenzene	20.0	21.82		ug/L		109	80 - 122	4	20
Tetrachloroethene	20.0	21.91		ug/L		110	80 - 122	5	20
Toluene	20.0	21.73		ug/L		109	80 - 120	3	20
Trichloroethene	20.0	21.76		ug/L		109	80 - 120	1	20
Trichlorofluoromethane	20.0	24.05		ug/L		120	67 - 142	1	20
Vinyl acetate	20.0	21.10		ug/L		105	62 - 140	4	21
Vinyl chloride	20.0	21.80		ug/L		109	66 - 136	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 123
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	105		78 - 120
Toluene-d8 (Surr)	99		80 - 120

Method: SRL 524M - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-515968/4
Matrix: Water
Analysis Batch: 515968

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0	1.7	ng/L			12/19/24 15:40	1

Lab Sample ID: LCS 570-515968/5
Matrix: Water
Analysis Batch: 515968

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	5.00	5.106		ng/L		102	80 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: SRL 524M - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-515968/6
Matrix: Water
Analysis Batch: 515968

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
1,2,3-Trichloropropane	5.00	4.280	J	ng/L		86	80 - 120	18	20

Lab Sample ID: 570-211441-1 DU
Matrix: Water
Analysis Batch: 515968

Client Sample ID: Explorer Well -577
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,2,3-Trichloropropane	ND		ND		ng/L		NC	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-515161/5
Matrix: Water
Analysis Batch: 515161

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.091	mg/L			12/18/24 06:56	1
Nitrate as N	ND		0.10	0.020	mg/L			12/18/24 06:56	1

Lab Sample ID: LCS 570-515161/6
Matrix: Water
Analysis Batch: 515161

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	2.50	2.373		mg/L		95	90 - 110
Nitrate as N	5.00	5.345		mg/L		107	90 - 110

Lab Sample ID: LCSD 570-515161/7
Matrix: Water
Analysis Batch: 515161

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	2.50	2.353		mg/L		94	90 - 110	1	15
Nitrate as N	5.00	5.345		mg/L		107	90 - 110	0	15

Lab Sample ID: MB 570-515162/5
Matrix: Water
Analysis Batch: 515162

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			12/18/24 06:56	1
Sulfate	ND		1.0	0.18	mg/L			12/18/24 06:56	1

Lab Sample ID: LCS 570-515162/6
Matrix: Water
Analysis Batch: 515162

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	51.36		mg/L		103	90 - 110
Sulfate	50.0	51.30		mg/L		103	90 - 110

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 570-515162/7
Matrix: Water
Analysis Batch: 515162

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
Chloride	50.0	51.57		mg/L		103	90 - 110	0	15
Sulfate	50.0	51.50		mg/L		103	90 - 110	0	15

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 570-516173/5
Matrix: Water
Analysis Batch: 516173

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0	0.39	ug/L			12/20/24 03:49	1

Lab Sample ID: LCS 570-516173/6
Matrix: Water
Analysis Batch: 516173

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	25.0	24.57		ug/L		98	85 - 115

Lab Sample ID: LCSD 570-516173/7
Matrix: Water
Analysis Batch: 516173

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
Perchlorate	25.0	23.66		ug/L		95	85 - 115	4	15

Lab Sample ID: MRL 570-516173/3
Matrix: Water
Analysis Batch: 516173

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	1.00	0.9226	J	ug/L		92	75 - 125

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-823489/1-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.58	ng/L		12/20/24 07:16	12/21/24 19:41	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-823489/1-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823489

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		12/20/24 07:16	12/21/24 19:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.0	ng/L		12/20/24 07:16	12/21/24 19:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		12/20/24 07:16	12/21/24 19:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		12/20/24 07:16	12/21/24 19:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		12/20/24 07:16	12/21/24 19:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.39	ng/L		12/20/24 07:16	12/21/24 19:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.72	ng/L		12/20/24 07:16	12/21/24 19:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.58	ng/L		12/20/24 07:16	12/21/24 19:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50	ng/L		12/20/24 07:16	12/21/24 19:41	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		12/20/24 07:16	12/21/24 19:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		12/20/24 07:16	12/21/24 19:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		12/20/24 07:16	12/21/24 19:41	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	95.6		5 - 130	12/20/24 07:16	12/21/24 19:41	1
13C5 PFPeA	97.8		40 - 130	12/20/24 07:16	12/21/24 19:41	1
13C5 PFHxA	101		40 - 130	12/20/24 07:16	12/21/24 19:41	1
13C4 PFHpA	94.4		40 - 130	12/20/24 07:16	12/21/24 19:41	1
13C8 PFOA	98.3		40 - 130	12/20/24 07:16	12/21/24 19:41	1
13C9 PFNA	86.6		40 - 130	12/20/24 07:16	12/21/24 19:41	1
13C6 PFDA	99.3		40 - 130	12/20/24 07:16	12/21/24 19:41	1
13C7 PFUnA	87.1		30 - 130	12/20/24 07:16	12/21/24 19:41	1
13C2 PFDoA	80.3		10 - 130	12/20/24 07:16	12/21/24 19:41	1
13C2 PFTeDA	73.6		10 - 130	12/20/24 07:16	12/21/24 19:41	1
13C3 PFBS	90.9		40 - 135	12/20/24 07:16	12/21/24 19:41	1
13C3 PFHxS	89.4		40 - 130	12/20/24 07:16	12/21/24 19:41	1
13C8 PFOS	96.5		40 - 130	12/20/24 07:16	12/21/24 19:41	1
13C8 FOSA	85.6		40 - 130	12/20/24 07:16	12/21/24 19:41	1
d3-NMeFOSAA	87.2		40 - 170	12/20/24 07:16	12/21/24 19:41	1
d5-NEtFOSAA	85.2		25 - 135	12/20/24 07:16	12/21/24 19:41	1
13C2 4:2 FTS	112		40 - 200	12/20/24 07:16	12/21/24 19:41	1
13C2 6:2 FTS	101		40 - 200	12/20/24 07:16	12/21/24 19:41	1
13C2 8:2 FTS	79.3		40 - 300	12/20/24 07:16	12/21/24 19:41	1
13C3 HFPO-DA	90.9		40 - 130	12/20/24 07:16	12/21/24 19:41	1
d7-N-MeFOSE-M	71.6		10 - 130	12/20/24 07:16	12/21/24 19:41	1
d9-N-EtFOSE-M	67.2		10 - 130	12/20/24 07:16	12/21/24 19:41	1
d5-NEtPFOSA	63.7		10 - 130	12/20/24 07:16	12/21/24 19:41	1
d3-NMePFOSA	70.4		10 - 130	12/20/24 07:16	12/21/24 19:41	1

Lab Sample ID: LCS 320-823489/3-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	40.0	40.45		ng/L		101	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.07		ng/L		103	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	45.75		ng/L		114	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	43.35		ng/L		108	70 - 150
Perfluorononanoic acid (PFNA)	40.0	49.33		ng/L		123	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	37.42		ng/L		94	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	42.04		ng/L		105	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	44.74		ng/L		112	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	41.68		ng/L		104	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	35.14		ng/L		88	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	37.83		ng/L		106	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	40.46		ng/L		108	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.01		ng/L		99	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.43		ng/L		106	70 - 150

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-823489/3-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	37.2	35.04		ng/L		94	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	40.22		ng/L		105	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	38.83		ng/L		101	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	36.69		ng/L		95	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	74.76		ng/L		100	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	66.95		ng/L		88	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	82.83		ng/L		108	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	38.60		ng/L		97	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	43.33		ng/L		108	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	40.57		ng/L		101	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	40.19		ng/L		100	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.87		ng/L		105	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	186.0		ng/L		93	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	184.6		ng/L		92	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	29.09		ng/L		97	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	39.43		ng/L		104	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	42.46		ng/L		106	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	45.26		ng/L		113	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	38.14		ng/L		95	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	38.06		ng/L		102	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	37.55		ng/L		99	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	35.90		ng/L		101	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	91.73		ng/L		115	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	194.1		ng/L		97	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	177.4		ng/L		89	50 - 145

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
¹³ C4 PFBA	100		5 - 130

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-823489/3-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823489

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C5 PFPeA	96.0		40 - 130
13C5 PFHxA	94.2		40 - 130
13C4 PFHpA	85.4		40 - 130
13C8 PFOA	99.5		40 - 130
13C9 PFNA	84.0		40 - 130
13C6 PFDA	92.9		40 - 130
13C7 PFUnA	92.9		30 - 130
13C2 PFDoA	83.6		10 - 130
13C2 PFTeDA	81.6		10 - 130
13C3 PFBS	87.2		40 - 135
13C3 PFHxS	88.2		40 - 130
13C8 PFOS	92.8		40 - 130
13C8 FOSA	85.0		40 - 130
d3-NMeFOSAA	86.9		40 - 170
d5-NEtFOSAA	88.5		25 - 135
13C2 4:2 FTS	100		40 - 200
13C2 6:2 FTS	87.5		40 - 200
13C2 8:2 FTS	78.0		40 - 300
13C3 HFPO-DA	89.5		40 - 130
d7-N-MeFOSE-M	77.4		10 - 130
d9-N-EtFOSE-M	70.8		10 - 130
d5-NEtPFOSA	77.6		10 - 130
d3-NMePFOSA	79.6		10 - 130

Lab Sample ID: LCSD 320-823489/4-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 823489

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	80.0	75.22		ng/L		94	70 - 140	0	30	
Perfluoropentanoic acid (PFPeA)	40.0	39.03		ng/L		98	65 - 135	4	30	
Perfluorohexanoic acid (PFHxA)	40.0	45.78		ng/L		114	70 - 145	11	30	
Perfluoroheptanoic acid (PFHpA)	40.0	37.07		ng/L		93	70 - 150	21	30	
Perfluorooctanoic acid (PFOA)	40.0	45.63		ng/L		114	70 - 150	5	30	
Perfluorononanoic acid (PFNA)	40.0	42.60		ng/L		106	70 - 150	15	30	
Perfluorodecanoic acid (PFDA)	40.0	41.67		ng/L		104	70 - 140	11	30	
Perfluoroundecanoic acid (PFUnA)	40.0	41.01		ng/L		103	70 - 145	2	30	
Perfluorododecanoic acid (PFDoA)	40.0	44.36		ng/L		111	70 - 140	1	30	
Perfluorotridecanoic acid (PFTTrDA)	40.0	41.21		ng/L		103	65 - 140	1	30	
Perfluorotetradecanoic acid (PFTeDA)	40.0	40.49		ng/L		101	60 - 140	14	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	31.42		ng/L		88	60 - 145	18	30	
Perfluoropentanesulfonic acid (PFPeS)	37.6	43.42		ng/L		115	65 - 140	7	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	34.48		ng/L		95	65 - 145	4	30	

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-823489/4-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 823489

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanesulfonic acid (PFHpS)	38.2	38.68		ng/L		101	70 - 150	4	30
Perfluorooctanesulfonic acid (PFOS)	37.2	34.79		ng/L		94	55 - 150	1	30
Perfluorononanesulfonic acid (PFNS)	38.5	35.61		ng/L		93	65 - 145	12	30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.84		ng/L		93	60 - 145	8	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	34.32		ng/L		88	50 - 145	7	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	81.25		ng/L		108	70 - 145	8	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	71.25		ng/L		94	65 - 155	6	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	70.37		ng/L		92	60 - 150	16	30
Perfluorooctanesulfonamide (PFOSA)	40.0	37.96		ng/L		95	70 - 145	2	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	41.92		ng/L		105	60 - 150	3	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	40.01		ng/L		100	65 - 145	1	30
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	40.0	39.58		ng/L		99	50 - 140	2	30
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	40.0	41.27		ng/L		103	70 - 145	1	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	195.4		ng/L		98	70 - 145	5	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	194.1		ng/L		97	70 - 135	5	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	29.50		ng/L		98	70 - 140	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	37.60		ng/L		99	65 - 145	5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	46.30		ng/L		116	55 - 140	9	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.91		ng/L		95	60 - 150	18	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	54.89	*1	ng/L		137	50 - 150	36	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	39.94		ng/L		107	70 - 155	5	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	41.15		ng/L		109	55 - 160	9	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	37.93		ng/L		106	70 - 140	6	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	93.81		ng/L		117	65 - 130	2	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	199.4		ng/L		100	70 - 135	3	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	178.4		ng/L		89	50 - 145	1	30

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	110		5 - 130
13C5 PFPeA	101		40 - 130
13C5 PFHxA	103		40 - 130
13C4 PFHpA	108		40 - 130
13C8 PFOA	95.4		40 - 130
13C9 PFNA	95.3		40 - 130
13C6 PFDA	97.3		40 - 130
13C7 PFUnA	100		30 - 130
13C2 PFDoA	87.2		10 - 130
13C2 PFTeDA	85.8		10 - 130
13C3 PFBS	107		40 - 135
13C3 PFHxS	97.6		40 - 130
13C8 PFOS	106		40 - 130
13C8 FOSA	90.9		40 - 130
d3-NMeFOSAA	101		40 - 170
d5-NEtFOSAA	89.5		25 - 135
13C2 4:2 FTS	105		40 - 200
13C2 6:2 FTS	97.9		40 - 200
13C2 8:2 FTS	85.5		40 - 300
13C3 HFPO-DA	95.5		40 - 130
d7-N-MeFOSE-M	73.5		10 - 130
d9-N-EtFOSE-M	67.5		10 - 130
d5-NEtPFOSA	77.9		10 - 130
d3-NMePFOSA	84.2		10 - 130

Lab Sample ID: LLCS 320-823489/2-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823489

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	4.00	4.470		ng/L		112	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.724		ng/L		118	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.079		ng/L		102	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.377		ng/L		109	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.789		ng/L		120	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.130		ng/L		103	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.529		ng/L		113	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.105		ng/L		103	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	4.257		ng/L		106	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.045		ng/L		101	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.743		ng/L		105	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	4.182		ng/L		111	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.640		ng/L		100	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.096		ng/L		107	70 - 150

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-823489/2-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823489

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	3.72	3.898		ng/L		105	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.984		ng/L		104	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.634		ng/L		94	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.391		ng/L		87	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	6.893		ng/L		92	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	6.765		ng/L		89	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	7.792		ng/L		101	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.667		ng/L		92	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.098		ng/L		102	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	3.982		ng/L		100	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	3.998		ng/L		100	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.418		ng/L		110	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	19.68		ng/L		98	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	19.06		ng/L		95	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.927		ng/L		98	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.100		ng/L		108	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.205		ng/L		105	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.915		ng/L		98	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.151		ng/L		104	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.567		ng/L		95	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	3.838		ng/L		102	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	3.57	3.789		ng/L		106	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	8.133		ng/L		102	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	18.79		ng/L		94	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	17.43		ng/L		87	50 - 145

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
¹³ C4 PFBA	110		5 - 130

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-823489/2-A
Matrix: Water
Analysis Batch: 823858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823489

<i>Isotope Dilution</i>	<i>LLCS</i>	<i>LLCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C5 PFPeA	103		40 - 130
13C5 PFHxA	101		40 - 130
13C4 PFHpA	107		40 - 130
13C8 PFOA	96.7		40 - 130
13C9 PFNA	88.3		40 - 130
13C6 PFDA	97.1		40 - 130
13C7 PFUnA	90.6		30 - 130
13C2 PFDoA	85.6		10 - 130
13C2 PFTeDA	81.5		10 - 130
13C3 PFBS	93.1		40 - 135
13C3 PFHxS	91.1		40 - 130
13C8 PFOS	97.0		40 - 130
13C8 FOSA	91.6		40 - 130
d3-NMeFOSAA	95.5		40 - 170
d5-NEtFOSAA	84.4		25 - 135
13C2 4:2 FTS	109		40 - 200
13C2 6:2 FTS	112		40 - 200
13C2 8:2 FTS	80.3		40 - 300
13C3 HFPO-DA	99.7		40 - 130
d7-N-MeFOSE-M	73.7		10 - 130
d9-N-EtFOSE-M	66.5		10 - 130
d5-NEtPFOSA	75.1		10 - 130
d3-NMePFOSA	76.8		10 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-515427/1-A
Matrix: Water
Analysis Batch: 515763

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 515427

<i>Analyte</i>	<i>MB</i>	<i>MB</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>							
Antimony	ND	^1+	0.100	0.0147	mg/L		12/18/24 13:44	12/19/24 03:29	1
Arsenic	ND		0.100	0.00965	mg/L		12/18/24 13:44	12/19/24 03:29	1
Barium	ND		0.0100	0.000730	mg/L		12/18/24 13:44	12/19/24 03:29	1
Beryllium	ND		0.0100	0.000660	mg/L		12/18/24 13:44	12/19/24 03:29	1
Cadmium	ND		0.0100	0.000450	mg/L		12/18/24 13:44	12/19/24 03:29	1
Chromium	ND		0.0500	0.00300	mg/L		12/18/24 13:44	12/19/24 03:29	1
Cobalt	ND		0.0500	0.00125	mg/L		12/18/24 13:44	12/19/24 03:29	1
Copper	ND		0.0500	0.00159	mg/L		12/18/24 13:44	12/19/24 03:29	1
Calcium	ND		2.00	0.0839	mg/L		12/18/24 13:44	12/19/24 03:29	1
Lead	ND		0.0500	0.00598	mg/L		12/18/24 13:44	12/19/24 03:29	1
Molybdenum	ND		0.0500	0.00592	mg/L		12/18/24 13:44	12/19/24 03:29	1
Nickel	ND		0.0500	0.00146	mg/L		12/18/24 13:44	12/19/24 03:29	1
Selenium	ND		0.100	0.0118	mg/L		12/18/24 13:44	12/19/24 03:29	1
Iron	ND		0.500	0.0559	mg/L		12/18/24 13:44	12/19/24 03:29	1
Silver	ND		0.0100	0.00340	mg/L		12/18/24 13:44	12/19/24 03:29	1
Thallium	ND		0.0500	0.00863	mg/L		12/18/24 13:44	12/19/24 03:29	1
Vanadium	ND		0.0100	0.00171	mg/L		12/18/24 13:44	12/19/24 03:29	1
Magnesium	ND		0.500	0.0703	mg/L		12/18/24 13:44	12/19/24 03:29	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 570-515427/1-A
Matrix: Water
Analysis Batch: 515763

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 515427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.250	0.00460	mg/L		12/18/24 13:44	12/19/24 03:29	1
Manganese	0.002400	J	0.0500	0.00129	mg/L		12/18/24 13:44	12/19/24 03:29	1
Sodium	0.2753	J	2.00	0.186	mg/L		12/18/24 13:44	12/19/24 03:29	1

Lab Sample ID: LCS 570-515427/2-A
Matrix: Water
Analysis Batch: 515763

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 515427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.4759	^1+	mg/L		95	85 - 115
Arsenic	0.500	0.4778		mg/L		96	85 - 115
Barium	0.500	0.4730		mg/L		95	85 - 115
Beryllium	0.500	0.4752		mg/L		95	85 - 115
Cadmium	0.500	0.4839		mg/L		97	85 - 115
Chromium	0.500	0.4840		mg/L		97	85 - 115
Cobalt	0.500	0.4794		mg/L		96	85 - 115
Copper	0.500	0.4748		mg/L		95	85 - 115
Calcium	2.50	2.430		mg/L		97	85 - 115
Lead	0.500	0.4820		mg/L		96	85 - 115
Molybdenum	0.500	0.4701		mg/L		94	85 - 115
Nickel	0.500	0.4847		mg/L		97	85 - 115
Selenium	0.500	0.4910		mg/L		98	85 - 115
Iron	0.500	0.4895	J	mg/L		98	85 - 115
Silver	0.250	0.2342		mg/L		94	85 - 115
Thallium	0.500	0.4875		mg/L		98	85 - 115
Vanadium	0.500	0.4733		mg/L		95	85 - 115
Magnesium	2.50	2.446		mg/L		98	85 - 115
Zinc	0.500	0.4886		mg/L		98	85 - 115
Manganese	0.500	0.4782		mg/L		96	85 - 115
Sodium	5.00	5.055		mg/L		101	85 - 115

Lab Sample ID: LCSD 570-515427/3-A
Matrix: Water
Analysis Batch: 515763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 515427

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.500	0.4742	^1+	mg/L		95	85 - 115	0	20
Arsenic	0.500	0.4694		mg/L		94	85 - 115	2	20
Barium	0.500	0.4687		mg/L		94	85 - 115	1	20
Beryllium	0.500	0.4707		mg/L		94	85 - 115	1	20
Cadmium	0.500	0.4770		mg/L		95	85 - 115	1	20
Chromium	0.500	0.4772		mg/L		95	85 - 115	1	20
Cobalt	0.500	0.4779		mg/L		96	85 - 115	0	20
Copper	0.500	0.4708		mg/L		94	85 - 115	1	20
Calcium	2.50	2.405		mg/L		96	85 - 115	1	20
Lead	0.500	0.4764		mg/L		95	85 - 115	1	20
Molybdenum	0.500	0.4658		mg/L		93	85 - 115	1	20
Nickel	0.500	0.4802		mg/L		96	85 - 115	1	20
Selenium	0.500	0.4846		mg/L		97	85 - 115	1	20

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-515427/3-A
Matrix: Water
Analysis Batch: 515763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 515427

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.500	0.4865	J	mg/L		97	85 - 115	1	20
Silver	0.250	0.2324		mg/L		93	85 - 115	1	20
Thallium	0.500	0.4827		mg/L		97	85 - 115	1	20
Vanadium	0.500	0.4697		mg/L		94	85 - 115	1	20
Magnesium	2.50	2.400		mg/L		96	85 - 115	2	20
Zinc	0.500	0.4842		mg/L		97	85 - 115	1	20
Manganese	0.500	0.4766		mg/L		95	85 - 115	0	20
Sodium	5.00	5.001		mg/L		100	85 - 115	1	20

Lab Sample ID: 570-211441-1 MS
Matrix: Water
Analysis Batch: 515763

Client Sample ID: Explorer Well -577
Prep Type: Total Recoverable
Prep Batch: 515427

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	^1+	0.500	0.4370	^1+	mg/L		87	80 - 120		
Arsenic	ND		0.500	0.4347		mg/L		87	80 - 120		
Barium	0.0301		0.500	0.4400		mg/L		82	80 - 120		
Beryllium	ND		0.500	0.4179		mg/L		84	80 - 120		
Cadmium	ND		0.500	0.4170		mg/L		83	80 - 120		
Chromium	0.00410	J	0.500	0.4211		mg/L		83	80 - 120		
Cobalt	ND		0.500	0.4111		mg/L		82	80 - 120		
Copper	ND		0.500	0.4263		mg/L		85	80 - 120		
Calcium	21.5		2.50	23.50	4	mg/L		79	80 - 120		
Lead	ND		0.500	0.4126		mg/L		83	80 - 120		
Molybdenum	0.00850	J	0.500	0.4222		mg/L		83	80 - 120		
Nickel	ND		0.500	0.4166		mg/L		83	80 - 120		
Selenium	ND		0.500	0.4234		mg/L		85	80 - 120		
Iron	0.271	J	0.500	0.7306		mg/L		92	80 - 120		
Silver	ND		0.250	0.2051		mg/L		82	80 - 120		
Thallium	ND		0.500	0.4148		mg/L		83	80 - 120		
Vanadium	0.00990	J	0.500	0.4280		mg/L		84	80 - 120		
Magnesium	5.41		2.50	7.458		mg/L		82	80 - 120		
Zinc	ND		0.500	0.4326		mg/L		87	80 - 120		
Manganese	0.0140	J B	0.500	0.4263		mg/L		82	80 - 120		
Sodium	54.3	B	5.00	57.94	4	mg/L		72	80 - 120		

Lab Sample ID: 570-211441-1 MSD
Matrix: Water
Analysis Batch: 515763

Client Sample ID: Explorer Well -577
Prep Type: Total Recoverable
Prep Batch: 515427

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	^1+	0.500	0.5142	^1+	mg/L		103	80 - 120	16	20
Arsenic	ND		0.500	0.4952		mg/L		99	80 - 120	13	20
Barium	0.0301		0.500	0.5071		mg/L		95	80 - 120	14	20
Beryllium	ND		0.500	0.4848		mg/L		97	80 - 120	15	20
Cadmium	ND		0.500	0.4830		mg/L		97	80 - 120	15	20
Chromium	0.00410	J	0.500	0.4889		mg/L		97	80 - 120	15	20
Cobalt	ND		0.500	0.4796		mg/L		96	80 - 120	15	20
Copper	ND		0.500	0.4932		mg/L		99	80 - 120	15	20

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 570-211441-1 MSD
Matrix: Water
Analysis Batch: 515763

Client Sample ID: Explorer Well -577
Prep Type: Total Recoverable
Prep Batch: 515427

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Calcium	21.5		2.50	24.78	4	mg/L		130	80 - 120	5	20
Lead	ND		0.500	0.4802		mg/L		96	80 - 120	15	20
Molybdenum	0.00850	J	0.500	0.4927		mg/L		97	80 - 120	15	20
Nickel	ND		0.500	0.4797		mg/L		96	80 - 120	14	20
Selenium	ND		0.500	0.4987		mg/L		100	80 - 120	16	20
Iron	0.271	J	0.500	0.8170		mg/L		109	80 - 120	11	20
Silver	ND		0.250	0.2386		mg/L		95	80 - 120	15	20
Thallium	ND		0.500	0.4865		mg/L		97	80 - 120	16	20
Vanadium	0.00990	J	0.500	0.4956		mg/L		97	80 - 120	15	20
Magnesium	5.41		2.50	8.013		mg/L		104	80 - 120	7	20
Zinc	ND		0.500	0.4993		mg/L		100	80 - 120	14	20
Manganese	0.0140	J B	0.500	0.4917		mg/L		96	80 - 120	14	20
Sodium	54.3	B	5.00	61.15	4	mg/L		137	80 - 120	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 570-515680/1-A
Matrix: Water
Analysis Batch: 515923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 515680

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.000200	0.000124	mg/L		12/19/24 02:58	12/19/24 14:34	1

Lab Sample ID: LCS 570-515680/2-A
Matrix: Water
Analysis Batch: 515923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 515680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Mercury	0.00800	0.008154		mg/L		102	80 - 120

Lab Sample ID: LCSD 570-515680/3-A
Matrix: Water
Analysis Batch: 515923

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 515680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD
							Limits	Limit
Mercury	0.00800	0.008034		mg/L		100	80 - 120	1 10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-516401/45
Matrix: Water
Analysis Batch: 516401

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Total (As CaCO3)	ND		5.00	2.18	mg/L			12/19/24 17:11	1
Bicarbonate (as CaCO3)	ND		5.00	2.18	mg/L			12/19/24 17:11	1
Carbonate (as CaCO3)	ND		5.00	2.18	mg/L			12/19/24 17:11	1
Hydroxide (as CaCO3)	ND		5.00	2.18	mg/L			12/19/24 17:11	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 570-516401/43
Matrix: Water
Analysis Batch: 516401

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)	106	105.0		mg/L		99	78 - 110

Lab Sample ID: LCSD 570-516401/44
Matrix: Water
Analysis Batch: 516401

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
Alkalinity, Total (As CaCO3)	106	100.5		mg/L		95	78 - 110	4	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 570-516402/45
Matrix: Water
Analysis Batch: 516402

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.00	1.00	umhos/cm			12/19/24 17:11	1

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

Lab Sample ID: MB 570-516560/1
Matrix: Water
Analysis Batch: 516560

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	8.35	mg/L			12/20/24 16:09	1

Lab Sample ID: LCS 570-516560/2
Matrix: Water
Analysis Batch: 516560

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	1000	980.0		mg/L		98	84 - 108

Lab Sample ID: LCSD 570-516560/3
Matrix: Water
Analysis Batch: 516560

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 Dissolved Solids	1000	980.0		mg/L		98	84 - 108	0	10

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 570-515461/5-A
Matrix: Water
Analysis Batch: 515506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 515461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MBAS	ND		0.200	0.0520	mg/L		12/18/24 14:27	12/18/24 15:56	1

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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211441-1

Method: SM 5540C - Methylene Blue Active Substances (MBAS) (Continued)

Lab Sample ID: LCS 570-515461/6-A
Matrix: Water
Analysis Batch: 515506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 515461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MBAS	0.500	0.4478		mg/L		90	83 - 122

Lab Sample ID: LCSD 570-515461/7-A
Matrix: Water
Analysis Batch: 515506

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 515461

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
MBAS	0.500	0.4640		mg/L		93	83 - 122	4 / 10

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

GC/MS VOA

Analysis Batch: 515483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	8260B	
MB 570-515483/7	Method Blank	Total/NA	Water	8260B	
LCS 570-515483/1003	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-515483/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 515968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	SRL 524M	
MB 570-515968/4	Method Blank	Total/NA	Water	SRL 524M	
LCS 570-515968/5	Lab Control Sample	Total/NA	Water	SRL 524M	
LCSD 570-515968/6	Lab Control Sample Dup	Total/NA	Water	SRL 524M	
570-211441-1 DU	Explorer Well -577	Total/NA	Water	SRL 524M	

Analysis Batch: 516994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	624.1	
MB 570-516994/7	Method Blank	Total/NA	Water	624.1	
LCS 570-516994/1003	Lab Control Sample	Total/NA	Water	624.1	
LCSD 570-516994/4	Lab Control Sample Dup	Total/NA	Water	624.1	

HPLC/IC

Analysis Batch: 515161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	300.0	
MB 570-515161/5	Method Blank	Total/NA	Water	300.0	
LCS 570-515161/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-515161/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 515162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	300.0	
MB 570-515162/5	Method Blank	Total/NA	Water	300.0	
LCS 570-515162/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-515162/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 516173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	314.0 LL	
MB 570-516173/5	Method Blank	Total/NA	Water	314.0 LL	
LCS 570-516173/6	Lab Control Sample	Total/NA	Water	314.0 LL	
LCSD 570-516173/7	Lab Control Sample Dup	Total/NA	Water	314.0 LL	
MRL 570-516173/3	Lab Control Sample	Total/NA	Water	314.0 LL	

LCMS

Prep Batch: 823489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	1633	
MB 320-823489/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-823489/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-823489/4-A	Lab Control Sample Dup	Total/NA	Water	1633	

Eurofins Calscience

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

LCMS (Continued)

Prep Batch: 823489 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 320-823489/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 823858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	1633	823489
MB 320-823489/1-A	Method Blank	Total/NA	Water	1633	823489
LCS 320-823489/3-A	Lab Control Sample	Total/NA	Water	1633	823489
LCSD 320-823489/4-A	Lab Control Sample Dup	Total/NA	Water	1633	823489
LLCS 320-823489/2-A	Lab Control Sample	Total/NA	Water	1633	823489

Metals

Prep Batch: 515427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total Recoverable	Water	200.7	
MB 570-515427/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-515427/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-515427/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-211441-1 MS	Explorer Well -577	Total Recoverable	Water	200.7	
570-211441-1 MSD	Explorer Well -577	Total Recoverable	Water	200.7	

Analysis Batch: 515527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total Recoverable	Water	SM 2340B	

Prep Batch: 515680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	7470A	
MB 570-515680/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-515680/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-515680/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 515763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total Recoverable	Water	200.7 Rev 4.4	515427
MB 570-515427/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	515427
LCS 570-515427/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	515427
LCSD 570-515427/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	515427
570-211441-1 MS	Explorer Well -577	Total Recoverable	Water	200.7 Rev 4.4	515427
570-211441-1 MSD	Explorer Well -577	Total Recoverable	Water	200.7 Rev 4.4	515427

Analysis Batch: 515923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	7470A	515680
MB 570-515680/1-A	Method Blank	Total/NA	Water	7470A	515680
LCS 570-515680/2-A	Lab Control Sample	Total/NA	Water	7470A	515680
LCSD 570-515680/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	515680

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

General Chemistry

Prep Batch: 515461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	SM 5540C	
MB 570-515461/5-A	Method Blank	Total/NA	Water	SM 5540C	
LCS 570-515461/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	
LCSD 570-515461/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	

Analysis Batch: 515506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	SM 5540C	515461
MB 570-515461/5-A	Method Blank	Total/NA	Water	SM 5540C	515461
LCS 570-515461/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	515461
LCSD 570-515461/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	515461

Analysis Batch: 516401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	SM 2320B	
MB 570-516401/45	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-516401/43	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-516401/44	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 516402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	SM 2510B	
MB 570-516402/45	Method Blank	Total/NA	Water	SM 2510B	

Analysis Batch: 516403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 516560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211441-1	Explorer Well -577	Total/NA	Water	SM 2540C	
MB 570-516560/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-516560/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-516560/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

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Lab Chronicle

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211441-1

Client Sample ID: Explorer Well -577

Lab Sample ID: 570-211441-1

Date Collected: 12/17/24 23:45

Matrix: Water

Date Received: 12/18/24 07:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	516994	12/23/24 14:31	AH8S	EET CAL 4
		Instrument ID: GCMSXX								
Total/NA	Analysis	8260B		1	5 mL	5 mL	515483	12/19/24 02:11	PT	EET CAL 4
		Instrument ID: GCMSXX								
Total/NA	Analysis	SRL 524M		1	25 mL	25 mL	515968	12/19/24 17:12	PT	EET CAL 4
		Instrument ID: GCMS78								
Total/NA	Analysis	300.0		1	4 mL	4 mL	515161	12/18/24 16:18	UIP1	EET CAL 4
		Instrument ID: IC10								
Total/NA	Analysis	300.0		1	4 mL	4 mL	515162	12/18/24 16:18	UIP1	EET CAL 4
		Instrument ID: IC10								
Total/NA	Analysis	314.0 LL		1	5 mL	5 mL	516173	12/20/24 07:06	YO8L	EET CAL 4
		Instrument ID: IC25								
Total/NA	Prep	1633			167.1 mL	5.0 mL	823489	12/20/24 07:16	CGL	EET SAC
Total/NA	Analysis	1633		1			823858	12/22/24 02:49	RS1	EET SAC
		Instrument ID: A45								
Total Recoverable	Prep	200.7			50 mL	50 mL	515427	12/18/24 13:44	RL6Q	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			515763	12/19/24 04:05	K1UV	EET CAL 4
		Instrument ID: ICP11								
Total/NA	Prep	7470A			25 mL	50 mL	515680	12/19/24 02:58	VCN7	EET CAL 4
Total/NA	Analysis	7470A		1			515923	12/19/24 14:53	RL6Q	EET CAL 4
		Instrument ID: HG7								
Total Recoverable	Analysis	SM 2340B		1			515527	12/18/24 16:34	P1R	EET CAL 4
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	516401	12/19/24 20:24	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2510B		1			516402	12/19/24 20:24	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	516560	12/20/24 16:09	ZL7L	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	SM 4500 H+ B		1			516403	12/19/24 20:24	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Prep	SM 5540C			100 mL	100 mL	515461	12/18/24 14:27	ZVB7	EET CAL 4
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	515506	12/18/24 18:33	PK4M	EET CAL 4
		Instrument ID: UV8								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211441-1

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
314.0 LL		Water	Perchlorate
624.1		Water	cis-1,2-Dichloroethene
624.1		Water	Dichlorodifluoromethane
624.1		Water	Methyl-t-Butyl Ether (MTBE)
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone (MEK)
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	Acetone
8260B		Water	Isopropylbenzene
8260B		Water	p-Isopropyltoluene
8260B		Water	Vinyl acetate
8260B		Water	Xylenes, Total
SM 2340B		Water	Calcium hardness as calcium carbonate
SM 2340B		Water	Magnesium hardness as calcium carbonate
SRL 524M		Water	1,2,3-Trichloropropane

Oregon	NELAP	4175	02-02-25
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate (as CaCO3)
SM 2320B		Water	Carbonate (as CaCO3)
SM 2320B		Water	Hydroxide (as CaCO3)
SM 2340B		Water	Magnesium hardness as calcium carbonate

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468	01-20-27
Arizona	State	AZ0708	08-11-25
Arkansas DEQ	State	88-0691	05-18-25
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-25

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211441-1

Laboratory: Eurofins Sacramento (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
Florida	NELAP	E87570	06-30-25
Georgia	State	4040	01-29-25
Hawaii	State	Eurofins Sacramento	01-29-25
Illinois	NELAP	200060	03-31-25
Kansas	NELAP	E-10375	10-31-25
Louisiana	NELAP	01944	06-30-25
Louisiana (All)	NELAP	01944	06-30-25
Maine	State	CA00004	04-14-26
Michigan	State	9947	01-29-25
Minnesota	NELAP	2749448	12-31-25
Nevada	State	CA00044	07-31-25
New Hampshire	NELAP	2997	04-19-25
New Jersey	NELAP	CA005	06-30-25
New York	NELAP	11666	04-01-25
Ohio	State	41252	01-29-25
Oregon	NELAP	4040	01-29-25
Texas	NELAP	T104704399-23-17	05-31-25
US Fish & Wildlife	US Federal Programs	A22139	04-30-25
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-25
Virginia	NELAP	460278	03-14-25
Washington	State	C581	05-05-25
West Virginia (DW)	State	9930C	01-31-25
Wisconsin	State	998204680	08-31-25
Wyoming	State Program	8TMS-L	01-28-19 *

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

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CAL 4
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
SRL 524M	Volatile Organic Compounds (GC/MS)	CADHS	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
314.0 LL	Perchlorate (IC)	EPA	EET CAL 4
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
7470A	Mercury (CVAA)	SW846	EET CAL 4
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 4500 H+ B	pH	SM	EET CAL 4
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EET CAL 4
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7470A	Preparation, Mercury	SW846	EET CAL 4
SM 5540C	Preparation, Methylene Blue Active Substances (MBAS)	SM	EET CAL 4

Protocol References:

CADHS = California Department of Health Services

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211441-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
570-211441-1	Explorer Well -577	Water	12/17/24 23:45	12/18/24 07:08

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-211441-1

Login Number: 211441

List Source: Eurofins Calscience

List Number: 1

Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-211441-1

Login Number: 211441

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 12/19/24 12:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

Attn: Elizette Viramontes
Geosyntec Consultants Inc
440 E. Huntington Drive
Suite 425
Arcadia, California 91006

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JOB DESCRIPTION

HPA110004

JOB NUMBER

570-211892-2

Eurofins Calscience

Job Notes

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

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 Calscience Project Manager.

Authorization



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Authorized for release by
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(714)895-5494



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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

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

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA110004

Job ID: 570-211892-2

Job ID: 570-211892-1

Eurofins Calscience

Job Narrative 570-211892-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 12/19/2024 8:33 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

GC/MS VOA

Method 624.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-516498. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method CA_SRL_524M_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-517932. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-516499. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: Zone #3 Explorer Well -452 (570-211892-1).

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-516226 were outside control limits for Sulfate. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The following sample was diluted due to the nature of the sample matrix: Zone #3 Explorer Well -452 (570-211892-1). Elevated reporting limits (RLs) are provided.

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

Metals

Method 200.7 - Total Recoverable: The method blank for preparation batch 570-517006 and analytical batch 570-517459 contained Sodium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 200.7 - Total Recoverable: The matrix spike duplicate (MSD) recoveries for preparation batch 570-517006 and analytical batch 570-517459 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Calscience

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA110004

Job ID: 570-211892-2

Job ID: 570-211892-1 (Continued)

Eurofins Calscience

General Chemistry

Method 2320B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-518760 recovered outside control limits for the following analytes: alkalinity.

Method 5540C: Sample result concentrations for methylene blue active substances (MBAS) are calculated as LAS, mol. wt. 320.

Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Zone #3 Explorer Well -452 (570-211892-1).

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

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA110004

Job ID: 570-211892-2

Job ID: 570-211892-2

Eurofins Calscience

Job Narrative 570-211892-2

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 12/19/2024 8:33 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

PFAS

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

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Client Sample ID: Zone #3 Explorer Well -452

Lab Sample ID: 570-211892-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	2.5		0.50	0.45	ug/L	1		624.1	Total/NA
Chloroform	0.51	J	1.0	0.26	ug/L	1		624.1	Total/NA
Carbon tetrachloride	2.5		0.50	0.37	ug/L	1		8260B	Total/NA
Chloroform	0.51	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,2,3-Trichloropropane	12		5.0	1.7	ng/L	1		SRL 524M	Total/NA
Chloride	230		10	3.6	mg/L	10		300.0	Total/NA
Nitrate as N	18		1.0	0.20	mg/L	10		300.0	Total/NA
Sulfate	280	F1	10	1.8	mg/L	10		300.0	Total/NA
Perchlorate	7.7		1.0	0.39	ug/L	1		314.0 LL	Total/NA
Perfluorooctanoic acid (PFOA) - RA	0.53	J	1.5	0.39	ng/L	1		1633	Total/NA
Barium	0.0495		0.0100	0.000730	mg/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	47.4		2.00	0.0839	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.00830	J	0.0500	0.00592	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.343	J F1	0.500	0.0559	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.00800	J	0.0100	0.00171	mg/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	12.4		0.500	0.0703	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0224	J	0.0500	0.00129	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	32.7	B	2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Hardness as calcium carbonate	169		7.05	0.499	mg/L	1		SM 2340B	Total Recoverable
Calcium hardness as calcium carbonate	118		4.99	0.209	mg/L	1		SM 2340B	Total Recoverable
Magnesium hardness as calcium carbonate	50.9		2.06	0.289	mg/L	1		SM 2340B	Total Recoverable
Alkalinity, Total (As CaCO3)	181	*1	5.00	2.18	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	181		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Specific Conductance	479		1.00	1.00	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	288		10.0	8.35	mg/L	1		SM 2540C	Total/NA
pH	8.1	HF	0.01	0.01	S.U.	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: Zone #3 Explorer Well -452

Lab Sample ID: 570-211892-1

Date Collected: 12/19/24 18:30

Matrix: Water

Date Received: 12/19/24 20:33

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			12/20/24 20:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			12/20/24 20:55	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/20/24 20:55	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			12/20/24 20:55	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			12/20/24 20:55	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			12/20/24 20:55	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			12/20/24 20:55	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			12/20/24 20:55	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			12/20/24 20:55	1
Benzene	ND		0.50	0.30	ug/L			12/20/24 20:55	1
Bromodichloromethane	ND		1.0	0.24	ug/L			12/20/24 20:55	1
Bromoform	ND		1.0	0.46	ug/L			12/20/24 20:55	1
Bromomethane	ND		5.0	3.7	ug/L			12/20/24 20:55	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/20/24 20:55	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			12/20/24 20:55	1
Carbon tetrachloride	2.5		0.50	0.45	ug/L			12/20/24 20:55	1
Chlorobenzene	ND		1.0	0.20	ug/L			12/20/24 20:55	1
Chloroethane	ND		1.0	0.54	ug/L			12/20/24 20:55	1
Chloroform	0.51	J	1.0	0.26	ug/L			12/20/24 20:55	1
Chloromethane	ND		1.0	0.65	ug/L			12/20/24 20:55	1
Dibromochloromethane	ND		1.0	0.25	ug/L			12/20/24 20:55	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			12/20/24 20:55	1
Ethylbenzene	ND		1.0	0.23	ug/L			12/20/24 20:55	1
Methylene Chloride	ND		2.0	0.83	ug/L			12/20/24 20:55	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			12/20/24 20:55	1
o-Xylene	ND		1.0	0.24	ug/L			12/20/24 20:55	1
m,p-Xylene	ND		1.0	0.48	ug/L			12/20/24 20:55	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			12/20/24 20:55	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			12/20/24 20:55	1
Tetrachloroethene	ND		1.0	0.39	ug/L			12/20/24 20:55	1
Toluene	ND		1.0	0.19	ug/L			12/20/24 20:55	1
Trichloroethene	ND		1.0	0.41	ug/L			12/20/24 20:55	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			12/20/24 20:55	1
Vinyl chloride	ND		0.50	0.36	ug/L			12/20/24 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		60 - 140		12/20/24 20:55	1
4-Bromofluorobenzene (Surr)	101		60 - 140		12/20/24 20:55	1
Dibromofluoromethane (Surr)	102		60 - 140		12/20/24 20:55	1
Toluene-d8 (Surr)	100		60 - 140		12/20/24 20:55	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

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

Client Sample ID: Zone #3 Explorer Well -452

Lab Sample ID: 570-211892-1

Date Collected: 12/19/24 18:30

Matrix: Water

Date Received: 12/19/24 20:33

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			12/20/24 20:55	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			12/20/24 20:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			12/20/24 20:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			12/20/24 20:55	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/20/24 20:55	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			12/20/24 20:55	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			12/20/24 20:55	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			12/20/24 20:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			12/20/24 20:55	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			12/20/24 20:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			12/20/24 20:55	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			12/20/24 20:55	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			12/20/24 20:55	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			12/20/24 20:55	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/20/24 20:55	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/20/24 20:55	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			12/20/24 20:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			12/20/24 20:55	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			12/20/24 20:55	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			12/20/24 20:55	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/20/24 20:55	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/20/24 20:55	1
2-Butanone (MEK)	ND		10	4.5	ug/L			12/20/24 20:55	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			12/20/24 20:55	1
2-Hexanone	ND		10	2.7	ug/L			12/20/24 20:55	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			12/20/24 20:55	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			12/20/24 20:55	1
Acetone	ND		10	7.4	ug/L			12/20/24 20:55	1
Benzene	ND		0.50	0.24	ug/L			12/20/24 20:55	1
Bromobenzene	ND		1.0	0.29	ug/L			12/20/24 20:55	1
Bromochloromethane	ND		2.0	0.38	ug/L			12/20/24 20:55	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/20/24 20:55	1
Bromoform	ND		5.0	1.9	ug/L			12/20/24 20:55	1
Bromomethane	ND		25	7.4	ug/L			12/20/24 20:55	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/20/24 20:55	1
cis-1,3-Dichloropropane	ND		0.50	0.26	ug/L			12/20/24 20:55	1
Carbon disulfide	ND		10	0.42	ug/L			12/20/24 20:55	1
Carbon tetrachloride	2.5		0.50	0.37	ug/L			12/20/24 20:55	1
Chlorobenzene	ND		1.0	0.26	ug/L			12/20/24 20:55	1
Chloroethane	ND		5.0	1.9	ug/L			12/20/24 20:55	1
Chloroform	0.51 J		1.0	0.32	ug/L			12/20/24 20:55	1
Chloromethane	ND		10	2.2	ug/L			12/20/24 20:55	1
Dibromochloromethane	ND		2.0	0.37	ug/L			12/20/24 20:55	1
Dibromomethane	ND		1.0	0.33	ug/L			12/20/24 20:55	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			12/20/24 20:55	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/20/24 20:55	1
Isopropylbenzene	ND		1.0	0.41	ug/L			12/20/24 20:55	1
Methylene Chloride	ND		10	3.0	ug/L			12/20/24 20:55	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			12/20/24 20:55	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

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

Client Sample ID: Zone #3 Explorer Well -452

Lab Sample ID: 570-211892-1

Date Collected: 12/19/24 18:30

Matrix: Water

Date Received: 12/19/24 20:33

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			12/20/24 20:55	1
n-Butylbenzene	ND		1.0	0.53	ug/L			12/20/24 20:55	1
N-Propylbenzene	ND		1.0	0.47	ug/L			12/20/24 20:55	1
o-Xylene	ND		1.0	0.27	ug/L			12/20/24 20:55	1
m,p-Xylene	ND		2.0	0.49	ug/L			12/20/24 20:55	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			12/20/24 20:55	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			12/20/24 20:55	1
Styrene	ND		1.0	0.38	ug/L			12/20/24 20:55	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			12/20/24 20:55	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			12/20/24 20:55	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			12/20/24 20:55	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/20/24 20:55	1
Toluene	ND		1.0	0.30	ug/L			12/20/24 20:55	1
Trichloroethene	ND		1.0	0.39	ug/L			12/20/24 20:55	1
Trichlorofluoromethane	ND		10	0.75	ug/L			12/20/24 20:55	1
Vinyl acetate	ND		10	5.0	ug/L			12/20/24 20:55	1
Vinyl chloride	ND		0.50	0.43	ug/L			12/20/24 20:55	1
Xylenes, Total	ND		2.0	0.49	ug/L			12/20/24 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 123		12/20/24 20:55	1
4-Bromofluorobenzene (Surr)	101		80 - 120		12/20/24 20:55	1
Dibromofluoromethane (Surr)	102		78 - 120		12/20/24 20:55	1
Toluene-d8 (Surr)	100		80 - 120		12/20/24 20:55	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: CADHS SRL 524M - Volatile Organic Compounds (GC/MS)

Client Sample ID: Zone #3 Explorer Well -452
Date Collected: 12/19/24 18:30
Date Received: 12/19/24 20:33

Lab Sample ID: 570-211892-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	12		5.0	1.7	ng/L			12/26/24 19:19	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: EPA 300.0 - Anions, Ion Chromatography

Client Sample ID: Zone #3 Explorer Well -452

Date Collected: 12/19/24 18:30

Date Received: 12/19/24 20:33

Lab Sample ID: 570-211892-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230		10	3.6	mg/L			12/20/24 12:14	10
Nitrite as N	ND		1.0	0.91	mg/L			12/20/24 12:14	10
Nitrate as N	18		1.0	0.20	mg/L			12/20/24 12:14	10
Sulfate	280	F1	10	1.8	mg/L			12/20/24 12:14	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: EPA 314.0 LL - Perchlorate (IC)

Client Sample ID: Zone #3 Explorer Well -452
Date Collected: 12/19/24 18:30
Date Received: 12/19/24 20:33

Lab Sample ID: 570-211892-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	7.7		1.0	0.39	ug/L			12/23/24 05:08	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211892-2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Client Sample ID: Zone #3 Explorer Well -452
Date Collected: 12/19/24 18:30
Date Received: 12/19/24 20:33

Lab Sample ID: 570-211892-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.55	ng/L		12/30/24 07:50	01/01/25 12:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFHxA	105		40 - 130				12/30/24 07:50	01/01/25 12:31	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Client Sample ID: Zone #3 Explorer Well -452

Lab Sample ID: 570-211892-1

Date Collected: 12/19/24 18:30

Matrix: Water

Date Received: 12/19/24 20:33

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.1	0.77	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluoropentanoic acid (PFPeA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorohexanoic acid (PFHxA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorooctanoic acid (PFOA)	0.53	J	1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.42	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.5	0.45	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.62	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluoroheptanesulfonic acid (PFHxS)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.41	ng/L		12/30/24 07:50	01/03/25 04:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.1	0.77	ng/L		12/30/24 07:50	01/03/25 04:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.1	0.77	ng/L		12/30/24 07:50	01/03/25 04:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.1	0.77	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.7	1.9	ng/L		12/30/24 07:50	01/03/25 04:08	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.7	1.9	ng/L		12/30/24 07:50	01/03/25 04:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.2	0.30	ng/L		12/30/24 07:50	01/03/25 04:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.5	0.45	ng/L		12/30/24 07:50	01/03/25 04:08	1
11-Chloroeicosadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Client Sample ID: Zone #3 Explorer Well -452

Lab Sample ID: 570-211892-1

Date Collected: 12/19/24 18:30

Matrix: Water

Date Received: 12/19/24 20:33

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.5	0.39	ng/L		12/30/24 07:50	01/03/25 04:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.1	0.77	ng/L		12/30/24 07:50	01/03/25 04:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.7	1.9	ng/L		12/30/24 07:50	01/03/25 04:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.7	1.9	ng/L		12/30/24 07:50	01/03/25 04:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91.8		5 - 130	12/30/24 07:50	01/03/25 04:08	1
13C5 PFPeA	98.9		40 - 130	12/30/24 07:50	01/03/25 04:08	1
13C5 PFHxA	99.6		40 - 130	12/30/24 07:50	01/03/25 04:08	1
13C4 PFHpA	95.8		40 - 130	12/30/24 07:50	01/03/25 04:08	1
13C8 PFOA	95.6		40 - 130	12/30/24 07:50	01/03/25 04:08	1
13C9 PFNA	96.6		40 - 130	12/30/24 07:50	01/03/25 04:08	1
13C6 PFDA	97.8		40 - 130	12/30/24 07:50	01/03/25 04:08	1
13C7 PFUnA	91.1		30 - 130	12/30/24 07:50	01/03/25 04:08	1
13C2 PFDoA	93.9		10 - 130	12/30/24 07:50	01/03/25 04:08	1
13C2 PFTeDA	69.7		10 - 130	12/30/24 07:50	01/03/25 04:08	1
13C3 PFBS	99.6		40 - 135	12/30/24 07:50	01/03/25 04:08	1
13C3 PFHxS	98.1		40 - 130	12/30/24 07:50	01/03/25 04:08	1
13C8 PFOS	90.8		40 - 130	12/30/24 07:50	01/03/25 04:08	1
13C8 FOSA	77.8		40 - 130	12/30/24 07:50	01/03/25 04:08	1
d3-NMeFOSAA	87.5		40 - 170	12/30/24 07:50	01/03/25 04:08	1
d5-NEtFOSAA	88.6		25 - 135	12/30/24 07:50	01/03/25 04:08	1
13C2 4:2 FTS	114		40 - 200	12/30/24 07:50	01/03/25 04:08	1
13C2 6:2 FTS	108		40 - 200	12/30/24 07:50	01/03/25 04:08	1
13C2 8:2 FTS	88.2		40 - 300	12/30/24 07:50	01/03/25 04:08	1
13C3 HFPO-DA	93.4		40 - 130	12/30/24 07:50	01/03/25 04:08	1
d7-N-MeFOSE-M	61.8		10 - 130	12/30/24 07:50	01/03/25 04:08	1
d9-N-EtFOSE-M	60.3		10 - 130	12/30/24 07:50	01/03/25 04:08	1
d5-NEtPFOSA	64.9		10 - 130	12/30/24 07:50	01/03/25 04:08	1
d3-NMePFOSA	67.2		10 - 130	12/30/24 07:50	01/03/25 04:08	1

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Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211892-2

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Zone #3 Explorer Well -452

Date Collected: 12/19/24 18:30

Date Received: 12/19/24 20:33

Lab Sample ID: 570-211892-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.100	0.0147	mg/L		12/23/24 06:48	12/23/24 21:10	1
Arsenic	ND		0.100	0.00965	mg/L		12/23/24 06:48	12/23/24 21:10	1
Barium	0.0495		0.0100	0.000730	mg/L		12/23/24 06:48	12/23/24 21:10	1
Beryllium	ND		0.0100	0.000660	mg/L		12/23/24 06:48	12/23/24 21:10	1
Cadmium	ND		0.0100	0.000450	mg/L		12/23/24 06:48	12/23/24 21:10	1
Chromium	ND		0.0500	0.00300	mg/L		12/23/24 06:48	12/23/24 21:10	1
Cobalt	ND		0.0500	0.00125	mg/L		12/23/24 06:48	12/23/24 21:10	1
Copper	ND		0.0500	0.00159	mg/L		12/23/24 06:48	12/23/24 21:10	1
Calcium	47.4		2.00	0.0839	mg/L		12/23/24 06:48	12/23/24 21:10	1
Lead	ND		0.0500	0.00598	mg/L		12/23/24 06:48	12/23/24 21:10	1
Molybdenum	0.00830	J	0.0500	0.00592	mg/L		12/23/24 06:48	12/23/24 21:10	1
Nickel	ND		0.0500	0.00146	mg/L		12/23/24 06:48	12/23/24 21:10	1
Selenium	ND		0.100	0.0118	mg/L		12/23/24 06:48	12/23/24 21:10	1
Iron	0.343	J F1	0.500	0.0559	mg/L		12/23/24 06:48	12/23/24 21:10	1
Silver	ND		0.0100	0.00340	mg/L		12/23/24 06:48	12/23/24 21:10	1
Thallium	ND		0.0500	0.00863	mg/L		12/23/24 06:48	12/23/24 21:10	1
Vanadium	0.00800	J	0.0100	0.00171	mg/L		12/23/24 06:48	12/23/24 21:10	1
Magnesium	12.4		0.500	0.0703	mg/L		12/23/24 06:48	12/23/24 21:10	1
Zinc	ND		0.250	0.00460	mg/L		12/23/24 06:48	12/23/24 21:10	1
Manganese	0.0224	J	0.0500	0.00129	mg/L		12/23/24 06:48	12/23/24 21:10	1
Sodium	32.7	B	2.00	0.186	mg/L		12/23/24 06:48	12/23/24 21:10	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: Zone #3 Explorer Well -452
Date Collected: 12/19/24 18:30
Date Received: 12/19/24 20:33

Lab Sample ID: 570-211892-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		12/23/24 09:41	12/23/24 14:26	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Client Sample ID: Zone #3 Explorer Well -452

Lab Sample ID: 570-211892-1

Date Collected: 12/19/24 18:30

Matrix: Water

Date Received: 12/19/24 20:33

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	169		7.05	0.499	mg/L			12/21/24 17:38	1
Calcium hardness as calcium carbonate	118		4.99	0.209	mg/L			12/21/24 17:38	1
Magnesium hardness as calcium carbonate	50.9		2.06	0.289	mg/L			12/21/24 17:38	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211892-2

General Chemistry

Client Sample ID: Zone #3 Explorer Well -452
Date Collected: 12/19/24 18:30
Date Received: 12/19/24 20:33

Lab Sample ID: 570-211892-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	181	*1	5.00	2.18	mg/L			12/30/24 00:19	1
Bicarbonate (as CaCO3) (SM 2320B)	181		5.00	2.18	mg/L			12/30/24 00:19	1
Carbonate (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			12/30/24 00:19	1
Hydroxide (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			12/30/24 00:19	1
Specific Conductance (SM 2510B)	479		1.00	1.00	umhos/cm			12/30/24 00:19	1
Total Dissolved Solids (SM 2540C)	288		10.0	8.35	mg/L			12/26/24 15:26	1
pH (SM 4500 H+ B)	8.1	HF	0.01	0.01	S.U.			12/30/24 00:19	1
MBAS (SM 5540C)	ND		0.200	0.0520	mg/L		12/20/24 16:31	12/20/24 18:10	1

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (60-140)	BFB (60-140)	DBFM (60-140)	TOL (60-140)
570-211892-1	Zone #3 Explorer Well -452	98	101	102	100
LCS 570-516498/1003	Lab Control Sample	99	101	101	96
LCSD 570-516498/4	Lab Control Sample Dup	101	100	101	97
MB 570-516498/7	Method Blank	100	101	103	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (70-123)	BFB (80-120)	DBFM (78-120)	TOL (80-120)
570-211892-1	Zone #3 Explorer Well -452	98	101	102	100
LCS 570-516499/1003	Lab Control Sample	99	101	101	96
LCSD 570-516499/4	Lab Control Sample Dup	101	100	101	97
MB 570-516499/7	Method Blank	100	101	103	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
570-211892-1	Zone #3 Explorer Well -452			105					
570-211892-1 - RA	Zone #3 Explorer Well -452	91.8	98.9	99.6	95.8	95.6	96.6	97.8	91.1
LCS 320-824808/3-A	Lab Control Sample			104					
LCS 320-824808/3-A - RA	Lab Control Sample	93.0	94.4	102	94.7	91.9	91.5	89.3	90.9
LCSD 320-824808/4-A	Lab Control Sample Dup			104					
LCSD 320-824808/4-A - RA	Lab Control Sample Dup	92.4	96.7	101	101	93.6	90.5	91.2	80.5
LLCS 320-824808/2-A	Lab Control Sample			104					
LLCS 320-824808/2-A - RA	Lab Control Sample	92.4	100	110	102	99.2	93.9	95.0	93.8
MB 320-824808/1-A	Method Blank			95.4					
MB 320-824808/1-A - RA	Method Blank	91.9	94.5	97.7	90.1	86.2	94.5	91.0	85.4

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
570-211892-1	Zone #3 Explorer Well -452								
570-211892-1 - RA	Zone #3 Explorer Well -452	93.9	69.7	99.6	98.1	90.8	77.8	87.5	88.6
LCS 320-824808/3-A	Lab Control Sample								
LCS 320-824808/3-A - RA	Lab Control Sample	94.7	71.2	93.1	91.0	83.9	71.4	94.8	93.7
LCSD 320-824808/4-A	Lab Control Sample Dup								
LCSD 320-824808/4-A - RA	Lab Control Sample Dup	80.7	66.8	102	92.4	83.7	72.7	96.2	91.3
LLCS 320-824808/2-A	Lab Control Sample								
LLCS 320-824808/2-A - RA	Lab Control Sample	91.2	77.4	102	95.3	92.0	75.4	99.2	97.7
MB 320-824808/1-A	Method Blank								
MB 320-824808/1-A - RA	Method Blank	90.4	70.8	92.0	88.0	82.2	68.9	91.1	86.9

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFm (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
570-211892-1	Zone #3 Explorer Well -452								
570-211892-1 - RA	Zone #3 Explorer Well -452	114	108	88.2	93.4	61.8	60.3	64.9	67.2
LCS 320-824808/3-A	Lab Control Sample								
LCS 320-824808/3-A - RA	Lab Control Sample	109	105	91.7	94.3	61.5	53.6	67.3	66.1
LCSD 320-824808/4-A	Lab Control Sample Dup								
LCSD 320-824808/4-A - RA	Lab Control Sample Dup	121	103	94.7	95.4	63.4	61.6	70.8	68.6
LLCS 320-824808/2-A	Lab Control Sample								
LLCS 320-824808/2-A - RA	Lab Control Sample	131	113	95.4	95.1	69.6	64.4	66.6	67.1
MB 320-824808/1-A	Method Blank								
MB 320-824808/1-A - RA	Method Blank	127	113	96.0	86.4	63.4	51.8	64.3	67.1

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS

Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-516498/7
Matrix: Water
Analysis Batch: 516498

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			12/20/24 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			12/20/24 18:00	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			12/20/24 18:00	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			12/20/24 18:00	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			12/20/24 18:00	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			12/20/24 18:00	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			12/20/24 18:00	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			12/20/24 18:00	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			12/20/24 18:00	1
Benzene	ND		0.50	0.30	ug/L			12/20/24 18:00	1
Bromodichloromethane	ND		1.0	0.24	ug/L			12/20/24 18:00	1
Bromoform	ND		1.0	0.46	ug/L			12/20/24 18:00	1
Bromomethane	ND		5.0	3.7	ug/L			12/20/24 18:00	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			12/20/24 18:00	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			12/20/24 18:00	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			12/20/24 18:00	1
Chlorobenzene	ND		1.0	0.20	ug/L			12/20/24 18:00	1
Chloroethane	ND		1.0	0.54	ug/L			12/20/24 18:00	1
Chloroform	ND		1.0	0.26	ug/L			12/20/24 18:00	1
Chloromethane	ND		1.0	0.65	ug/L			12/20/24 18:00	1
Dibromochloromethane	ND		1.0	0.25	ug/L			12/20/24 18:00	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			12/20/24 18:00	1
Ethylbenzene	ND		1.0	0.23	ug/L			12/20/24 18:00	1
Methylene Chloride	ND		2.0	0.83	ug/L			12/20/24 18:00	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			12/20/24 18:00	1
o-Xylene	ND		1.0	0.24	ug/L			12/20/24 18:00	1
m,p-Xylene	ND		1.0	0.48	ug/L			12/20/24 18:00	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			12/20/24 18:00	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			12/20/24 18:00	1
Tetrachloroethene	ND		1.0	0.39	ug/L			12/20/24 18:00	1
Toluene	ND		1.0	0.19	ug/L			12/20/24 18:00	1
Trichloroethene	ND		1.0	0.41	ug/L			12/20/24 18:00	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			12/20/24 18:00	1
Vinyl chloride	ND		0.50	0.36	ug/L			12/20/24 18:00	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		60 - 140		12/20/24 18:00	1
4-Bromofluorobenzene (Surr)	101		60 - 140		12/20/24 18:00	1
Dibromofluoromethane (Surr)	103		60 - 140		12/20/24 18:00	1
Toluene-d8 (Surr)	102		60 - 140		12/20/24 18:00	1

Lab Sample ID: LCS 570-516498/1003
Matrix: Water
Analysis Batch: 516498

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	20.0	19.66		ug/L		98	60 - 140

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-516498/1003
Matrix: Water
Analysis Batch: 516498

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	20.56		ug/L		103	70 - 130
1,1-Dichloroethene	20.0	19.88		ug/L		99	50 - 150
1,2-Dichlorobenzene	20.0	20.42		ug/L		102	65 - 135
1,2-Dichloroethane	20.0	19.32		ug/L		97	70 - 130
1,2-Dichloropropane	20.0	20.38		ug/L		102	35 - 165
1,3-Dichlorobenzene	20.0	20.40		ug/L		102	70 - 130
1,4-Dichlorobenzene	20.0	19.95		ug/L		100	65 - 135
Benzene	20.0	20.57		ug/L		103	65 - 135
Bromodichloromethane	20.0	19.95		ug/L		100	65 - 135
Bromoform	20.0	21.52		ug/L		108	70 - 130
Bromomethane	20.0	17.02		ug/L		85	15 - 185
cis-1,2-Dichloroethene	20.0	19.77		ug/L		99	60 - 140
cis-1,3-Dichloropropene	20.0	20.28		ug/L		101	25 - 175
Carbon tetrachloride	20.0	21.33		ug/L		107	70 - 130
Chlorobenzene	20.0	20.08		ug/L		100	65 - 135
Chloroethane	20.0	19.91		ug/L		100	40 - 160
Chloroform	20.0	19.11		ug/L		96	70 - 135
Chloromethane	20.0	18.10		ug/L		90	1 - 205
Dibromochloromethane	20.0	20.31		ug/L		102	70 - 135
Dichlorodifluoromethane	20.0	18.27		ug/L		91	60 - 140
Ethylbenzene	20.0	20.17		ug/L		101	60 - 140
Methylene Chloride	20.0	19.87		ug/L		99	60 - 140
Methyl-t-Butyl Ether (MTBE)	20.0	19.71		ug/L		99	60 - 140
o-Xylene	20.0	20.88		ug/L		104	60 - 140
m,p-Xylene	40.0	41.70		ug/L		104	60 - 140
trans-1,2-Dichloroethene	20.0	20.10		ug/L		101	70 - 130
trans-1,3-Dichloropropene	20.0	20.58		ug/L		103	50 - 150
Tetrachloroethene	20.0	20.36		ug/L		102	70 - 130
Toluene	20.0	19.50		ug/L		98	70 - 130
Trichloroethene	20.0	19.97		ug/L		100	65 - 135
Trichlorofluoromethane	20.0	20.51		ug/L		103	50 - 150
Vinyl chloride	20.0	19.16		ug/L		96	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
4-Bromofluorobenzene (Surr)	101		60 - 140
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	96		60 - 140

Lab Sample ID: LCSD 570-516498/4
Matrix: Water
Analysis Batch: 516498

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
1,1,1-Trichloroethane	20.0	19.56		ug/L		98	70 - 130	3	36
1,1,1,2,2-Tetrachloroethane	20.0	19.15		ug/L		96	60 - 140	3	61
1,1-Dichloroethane	20.0	19.71		ug/L		99	70 - 130	4	40
1,1-Dichloroethene	20.0	19.05		ug/L		95	50 - 150	4	32

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-516498/4
Matrix: Water
Analysis Batch: 516498

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
1,2-Dichlorobenzene	20.0	19.75		ug/L		99	65 - 135	3	57
1,2-Dichloroethane	20.0	18.91		ug/L		95	70 - 130	2	49
1,2-Dichloropropane	20.0	20.03		ug/L		100	35 - 165	2	55
1,3-Dichlorobenzene	20.0	19.49		ug/L		97	70 - 130	5	43
1,4-Dichlorobenzene	20.0	19.54		ug/L		98	65 - 135	2	57
Benzene	20.0	20.22		ug/L		101	65 - 135	2	61
Bromodichloromethane	20.0	19.41		ug/L		97	65 - 135	3	56
Bromoform	20.0	20.96		ug/L		105	70 - 130	3	42
Bromomethane	20.0	16.96		ug/L		85	15 - 185	0	61
cis-1,2-Dichloroethene	20.0	19.35		ug/L		97	60 - 140	2	30
cis-1,3-Dichloropropene	20.0	19.97		ug/L		100	25 - 175	2	58
Carbon tetrachloride	20.0	20.70		ug/L		104	70 - 130	3	41
Chlorobenzene	20.0	19.23		ug/L		96	65 - 135	4	53
Chloroethane	20.0	19.03		ug/L		95	40 - 160	5	78
Chloroform	20.0	19.42		ug/L		97	70 - 135	2	30
Chloromethane	20.0	17.20		ug/L		86	1 - 205	5	60
Dibromochloromethane	20.0	20.98		ug/L		105	70 - 135	3	50
Dichlorodifluoromethane	20.0	17.13		ug/L		86	60 - 140	6	30
Ethylbenzene	20.0	18.88		ug/L		94	60 - 140	7	63
Methylene Chloride	20.0	19.24		ug/L		96	60 - 140	3	28
Methyl-t-Butyl Ether (MTBE)	20.0	21.11		ug/L		106	60 - 140	7	30
o-Xylene	20.0	19.56		ug/L		98	60 - 140	7	30
m,p-Xylene	40.0	39.14		ug/L		98	60 - 140	6	30
trans-1,2-Dichloroethene	20.0	18.99		ug/L		95	70 - 130	6	45
trans-1,3-Dichloropropene	20.0	19.84		ug/L		99	50 - 150	4	86
Tetrachloroethene	20.0	18.59		ug/L		93	70 - 130	9	39
Toluene	20.0	18.99		ug/L		95	70 - 130	3	41
Trichloroethene	20.0	19.64		ug/L		98	65 - 135	2	48
Trichlorofluoromethane	20.0	19.60		ug/L		98	50 - 150	5	84
Vinyl chloride	20.0	18.54		ug/L		93	5 - 195	3	66

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
4-Bromofluorobenzene (Surr)	100		60 - 140
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	97		60 - 140

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

Lab Sample ID: MB 570-516499/7
Matrix: Water
Analysis Batch: 516499

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			12/20/24 18:00	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			12/20/24 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			12/20/24 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			12/20/24 18:00	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			12/20/24 18:00	1

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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211892-2

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

Lab Sample ID: MB 570-516499/7
Matrix: Water
Analysis Batch: 516499

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.34	ug/L			12/20/24 18:00	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			12/20/24 18:00	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			12/20/24 18:00	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			12/20/24 18:00	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			12/20/24 18:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			12/20/24 18:00	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			12/20/24 18:00	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			12/20/24 18:00	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			12/20/24 18:00	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			12/20/24 18:00	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/20/24 18:00	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			12/20/24 18:00	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			12/20/24 18:00	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			12/20/24 18:00	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			12/20/24 18:00	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			12/20/24 18:00	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			12/20/24 18:00	1
2-Butanone (MEK)	ND		10	4.5	ug/L			12/20/24 18:00	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			12/20/24 18:00	1
2-Hexanone	ND		10	2.7	ug/L			12/20/24 18:00	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			12/20/24 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			12/20/24 18:00	1
Acetone	ND		10	7.4	ug/L			12/20/24 18:00	1
Benzene	ND		0.50	0.24	ug/L			12/20/24 18:00	1
Bromobenzene	ND		1.0	0.29	ug/L			12/20/24 18:00	1
Bromochloromethane	ND		2.0	0.38	ug/L			12/20/24 18:00	1
Bromodichloromethane	ND		1.0	0.29	ug/L			12/20/24 18:00	1
Bromoform	ND		5.0	1.9	ug/L			12/20/24 18:00	1
Bromomethane	ND		25	7.4	ug/L			12/20/24 18:00	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/20/24 18:00	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			12/20/24 18:00	1
Carbon disulfide	ND		10	0.42	ug/L			12/20/24 18:00	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			12/20/24 18:00	1
Chlorobenzene	ND		1.0	0.26	ug/L			12/20/24 18:00	1
Chloroethane	ND		5.0	1.9	ug/L			12/20/24 18:00	1
Chloroform	ND		1.0	0.32	ug/L			12/20/24 18:00	1
Chloromethane	ND		10	2.2	ug/L			12/20/24 18:00	1
Dibromochloromethane	ND		2.0	0.37	ug/L			12/20/24 18:00	1
Dibromomethane	ND		1.0	0.33	ug/L			12/20/24 18:00	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			12/20/24 18:00	1
Ethylbenzene	ND		1.0	0.30	ug/L			12/20/24 18:00	1
Isopropylbenzene	ND		1.0	0.41	ug/L			12/20/24 18:00	1
Methylene Chloride	ND		10	3.0	ug/L			12/20/24 18:00	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			12/20/24 18:00	1
Naphthalene	ND		10	4.9	ug/L			12/20/24 18:00	1
n-Butylbenzene	ND		1.0	0.53	ug/L			12/20/24 18:00	1
N-Propylbenzene	ND		1.0	0.47	ug/L			12/20/24 18:00	1
o-Xylene	ND		1.0	0.27	ug/L			12/20/24 18:00	1
m,p-Xylene	ND		2.0	0.49	ug/L			12/20/24 18:00	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

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

Lab Sample ID: MB 570-516499/7
Matrix: Water
Analysis Batch: 516499

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.0	0.47	ug/L			12/20/24 18:00	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			12/20/24 18:00	1
Styrene	ND		1.0	0.38	ug/L			12/20/24 18:00	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			12/20/24 18:00	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			12/20/24 18:00	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			12/20/24 18:00	1
Tetrachloroethene	ND		1.0	0.40	ug/L			12/20/24 18:00	1
Toluene	ND		1.0	0.30	ug/L			12/20/24 18:00	1
Trichloroethene	ND		1.0	0.39	ug/L			12/20/24 18:00	1
Trichlorofluoromethane	ND		10	0.75	ug/L			12/20/24 18:00	1
Vinyl acetate	ND		10	5.0	ug/L			12/20/24 18:00	1
Vinyl chloride	ND		0.50	0.43	ug/L			12/20/24 18:00	1
Xylenes, Total	ND		2.0	0.49	ug/L			12/20/24 18:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 123		12/20/24 18:00	1
4-Bromofluorobenzene (Surr)	101		80 - 120		12/20/24 18:00	1
Dibromofluoromethane (Surr)	103		78 - 120		12/20/24 18:00	1
Toluene-d8 (Surr)	102		80 - 120		12/20/24 18:00	1

Lab Sample ID: LCS 570-516499/1003
Matrix: Water
Analysis Batch: 516499

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.01		ug/L		95	80 - 122
1,1,1-Trichloroethane	20.0	20.07		ug/L		100	78 - 125
1,1,2,2-Tetrachloroethane	20.0	19.66		ug/L		98	79 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.32		ug/L		102	72 - 138
1,1,2-Trichloroethane	20.0	20.60		ug/L		103	80 - 124
1,1-Dichloroethane	20.0	20.56		ug/L		103	80 - 127
1,1-Dichloroethene	20.0	19.88		ug/L		99	80 - 133
1,1-Dichloropropene	20.0	20.62		ug/L		103	79 - 126
1,2,3-Trichlorobenzene	20.0	20.54		ug/L		103	79 - 128
1,2,3-Trichloropropane	20.0	19.92		ug/L		100	71 - 128
1,2,4-Trichlorobenzene	20.0	19.59		ug/L		98	77 - 126
1,2,4-Trimethylbenzene	20.0	19.40		ug/L		97	80 - 121
1,2-Dibromo-3-Chloropropane	20.0	17.67		ug/L		88	66 - 122
1,2-Dibromoethane	20.0	20.94		ug/L		105	80 - 120
1,2-Dichlorobenzene	20.0	20.42		ug/L		102	80 - 121
1,2-Dichloroethane	20.0	19.32		ug/L		97	77 - 122
1,2-Dichloropropane	20.0	20.38		ug/L		102	80 - 122
1,3,5-Trimethylbenzene	20.0	21.10		ug/L		106	80 - 123
1,3-Dichlorobenzene	20.0	20.40		ug/L		102	80 - 120
1,3-Dichloropropane	20.0	20.48		ug/L		102	80 - 121
1,4-Dichlorobenzene	20.0	19.95		ug/L		100	80 - 120
2,2-Dichloropropane	20.0	20.25		ug/L		101	68 - 143
2-Butanone (MEK)	20.0	18.87		ug/L		94	61 - 139

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

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

Lab Sample ID: LCS 570-516499/1003
Matrix: Water
Analysis Batch: 516499

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	20.83		ug/L		104	80 - 121
2-Hexanone	20.0	19.05		ug/L		95	63 - 134
4-Chlorotoluene	20.0	20.45		ug/L		102	80 - 121
4-Methyl-2-pentanone (MIBK)	20.0	18.76		ug/L		94	67 - 125
Acetone	20.0	18.94		ug/L		95	45 - 150
Benzene	20.0	20.57		ug/L		103	80 - 121
Bromobenzene	20.0	21.10		ug/L		106	80 - 120
Bromochloromethane	20.0	20.87		ug/L		104	80 - 121
Bromodichloromethane	20.0	19.95		ug/L		100	80 - 121
Bromoform	20.0	19.57		ug/L		98	78 - 124
Bromomethane	20.0	16.65	J	ug/L		83	48 - 156
cis-1,2-Dichloroethene	20.0	19.77		ug/L		99	80 - 125
cis-1,3-Dichloropropene	20.0	18.48		ug/L		92	80 - 120
Carbon disulfide	20.0	19.88		ug/L		99	76 - 129
Carbon tetrachloride	20.0	21.33		ug/L		107	71 - 137
Chlorobenzene	20.0	20.08		ug/L		100	80 - 120
Chloroethane	20.0	19.91		ug/L		100	73 - 138
Chloroform	20.0	19.11		ug/L		96	80 - 121
Chloromethane	20.0	18.22		ug/L		91	57 - 138
Dibromochloromethane	20.0	20.31		ug/L		102	80 - 126
Dibromomethane	20.0	18.94		ug/L		95	80 - 120
Dichlorodifluoromethane	20.0	17.71		ug/L		89	44 - 148
Ethylbenzene	20.0	20.17		ug/L		101	80 - 121
Isopropylbenzene	20.0	20.66		ug/L		103	80 - 121
Methylene Chloride	20.0	20.16		ug/L		101	80 - 121
Methyl-t-Butyl Ether (MTBE)	20.0	18.16		ug/L		91	78 - 123
Naphthalene	20.0	18.01		ug/L		90	65 - 133
n-Butylbenzene	20.0	19.96		ug/L		100	80 - 125
N-Propylbenzene	20.0	20.91		ug/L		105	80 - 125
o-Xylene	20.0	20.88		ug/L		104	80 - 122
m,p-Xylene	40.0	41.70		ug/L		104	80 - 123
p-Isopropyltoluene	20.0	20.80		ug/L		104	80 - 124
sec-Butylbenzene	20.0	20.25		ug/L		101	80 - 122
Styrene	20.0	20.83		ug/L		104	80 - 120
trans-1,2-Dichloroethene	20.0	20.10		ug/L		101	80 - 122
trans-1,3-Dichloropropene	20.0	20.82		ug/L		104	80 - 125
tert-Butylbenzene	20.0	20.43		ug/L		102	80 - 122
Tetrachloroethene	20.0	20.36		ug/L		102	80 - 122
Toluene	20.0	19.50		ug/L		98	80 - 120
Trichloroethene	20.0	19.97		ug/L		100	80 - 120
Trichlorofluoromethane	20.0	20.83		ug/L		104	67 - 142
Vinyl acetate	20.0	20.60		ug/L		103	62 - 140
Vinyl chloride	20.0	19.16		ug/L		96	66 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 123
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	101		78 - 120

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

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

Lab Sample ID: LCS 570-516499/1003
Matrix: Water
Analysis Batch: 516499

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 570-516499/4
Matrix: Water
Analysis Batch: 516499

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
1,1,1,2-Tetrachloroethane	20.0	18.14		ug/L		91	80 - 122	5	20	
1,1,1-Trichloroethane	20.0	19.56		ug/L		98	78 - 125	3	20	
1,1,2,2-Tetrachloroethane	20.0	19.15		ug/L		96	79 - 127	3	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.31		ug/L		97	72 - 138	5	20	
1,1,2-Trichloroethane	20.0	21.38		ug/L		107	80 - 124	4	20	
1,1-Dichloroethane	20.0	19.71		ug/L		99	80 - 127	4	20	
1,1-Dichloroethene	20.0	19.05		ug/L		95	80 - 133	4	20	
1,1-Dichloropropene	20.0	19.77		ug/L		99	79 - 126	4	20	
1,2,3-Trichlorobenzene	20.0	19.97		ug/L		100	79 - 128	3	20	
1,2,3-Trichloropropane	20.0	20.76		ug/L		104	71 - 128	4	20	
1,2,4-Trichlorobenzene	20.0	19.06		ug/L		95	77 - 126	3	20	
1,2,4-Trimethylbenzene	20.0	19.08		ug/L		95	80 - 121	2	20	
1,2-Dibromo-3-Chloropropane	20.0	18.97		ug/L		95	66 - 122	7	20	
1,2-Dibromoethane	20.0	20.82		ug/L		104	80 - 120	1	20	
1,2-Dichlorobenzene	20.0	19.75		ug/L		99	80 - 121	3	20	
1,2-Dichloroethane	20.0	18.91		ug/L		95	77 - 122	2	20	
1,2-Dichloropropane	20.0	20.03		ug/L		100	80 - 122	2	20	
1,3,5-Trimethylbenzene	20.0	19.88		ug/L		99	80 - 123	6	20	
1,3-Dichlorobenzene	20.0	19.49		ug/L		97	80 - 120	5	20	
1,3-Dichloropropane	20.0	20.35		ug/L		102	80 - 121	1	20	
1,4-Dichlorobenzene	20.0	19.54		ug/L		98	80 - 120	2	20	
2,2-Dichloropropane	20.0	19.49		ug/L		97	68 - 143	4	20	
2-Butanone (MEK)	20.0	19.89		ug/L		99	61 - 139	5	25	
2-Chlorotoluene	20.0	18.94		ug/L		95	80 - 121	9	20	
2-Hexanone	20.0	20.68		ug/L		103	63 - 134	8	21	
4-Chlorotoluene	20.0	19.69		ug/L		98	80 - 121	4	20	
4-Methyl-2-pentanone (MIBK)	20.0	19.57		ug/L		98	67 - 125	4	20	
Acetone	20.0	17.35		ug/L		87	45 - 150	9	23	
Benzene	20.0	20.22		ug/L		101	80 - 121	2	20	
Bromobenzene	20.0	19.92		ug/L		100	80 - 120	6	20	
Bromochloromethane	20.0	21.23		ug/L		106	80 - 121	2	20	
Bromodichloromethane	20.0	19.41		ug/L		97	80 - 121	3	20	
Bromoform	20.0	19.08		ug/L		95	78 - 124	3	20	
Bromomethane	20.0	16.60	J	ug/L		83	48 - 156	0	21	
cis-1,2-Dichloroethene	20.0	19.35		ug/L		97	80 - 125	2	20	
cis-1,3-Dichloropropene	20.0	18.20		ug/L		91	80 - 120	1	20	
Carbon disulfide	20.0	18.90		ug/L		94	76 - 129	5	20	
Carbon tetrachloride	20.0	20.70		ug/L		104	71 - 137	3	20	
Chlorobenzene	20.0	19.23		ug/L		96	80 - 120	4	20	
Chloroethane	20.0	19.03		ug/L		95	73 - 138	5	20	
Chloroform	20.0	19.42		ug/L		97	80 - 121	2	20	

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

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

Lab Sample ID: LCSD 570-516499/4
Matrix: Water
Analysis Batch: 516499

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
Chloromethane	20.0	17.32		ug/L		87	57 - 138	5	20
Dibromochloromethane	20.0	20.98		ug/L		105	80 - 126	3	20
Dibromomethane	20.0	19.84		ug/L		99	80 - 120	5	20
Dichlorodifluoromethane	20.0	16.60		ug/L		83	44 - 148	6	28
Ethylbenzene	20.0	18.88		ug/L		94	80 - 121	7	20
Isopropylbenzene	20.0	19.09		ug/L		95	80 - 121	8	20
Methylene Chloride	20.0	19.52		ug/L		98	80 - 121	3	20
Methyl-t-Butyl Ether (MTBE)	20.0	19.41		ug/L		97	78 - 123	7	20
Naphthalene	20.0	18.88		ug/L		94	65 - 133	5	20
n-Butylbenzene	20.0	19.19		ug/L		96	80 - 125	4	20
N-Propylbenzene	20.0	19.69		ug/L		98	80 - 125	6	20
o-Xylene	20.0	19.56		ug/L		98	80 - 122	7	20
m,p-Xylene	40.0	39.14		ug/L		98	80 - 123	6	20
p-Isopropyltoluene	20.0	19.54		ug/L		98	80 - 124	6	20
sec-Butylbenzene	20.0	19.47		ug/L		97	80 - 122	4	20
Styrene	20.0	19.66		ug/L		98	80 - 120	6	20
trans-1,2-Dichloroethene	20.0	18.99		ug/L		95	80 - 122	6	20
trans-1,3-Dichloropropene	20.0	20.10		ug/L		101	80 - 125	4	20
tert-Butylbenzene	20.0	19.78		ug/L		99	80 - 122	3	20
Tetrachloroethene	20.0	18.59		ug/L		93	80 - 122	9	20
Toluene	20.0	18.99		ug/L		95	80 - 120	3	20
Trichloroethene	20.0	19.64		ug/L		98	80 - 120	2	20
Trichlorofluoromethane	20.0	19.91		ug/L		100	67 - 142	5	20
Vinyl acetate	20.0	20.97		ug/L		105	62 - 140	2	21
Vinyl chloride	20.0	18.54		ug/L		93	66 - 136	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 123
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	101		78 - 120
Toluene-d8 (Surr)	97		80 - 120

Method: SRL 524M - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-517932/4
Matrix: Water
Analysis Batch: 517932

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0	1.7	ng/L			12/26/24 17:16	1

Lab Sample ID: LCS 570-517932/5
Matrix: Water
Analysis Batch: 517932

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	5.00	5.344		ng/L		107	80 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: SRL 524M - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-517932/6
Matrix: Water
Analysis Batch: 517932

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
1,2,3-Trichloropropane	5.00	5.268		ng/L		105	80 - 120	1	20

Lab Sample ID: 570-211892-1 DU
Matrix: Water
Analysis Batch: 517932

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,2,3-Trichloropropane	12		10.01		ng/L		22	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-516225/5
Matrix: Water
Analysis Batch: 516225

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.091	mg/L			12/20/24 08:35	1
Nitrate as N	ND		0.10	0.020	mg/L			12/20/24 08:35	1

Lab Sample ID: LCS 570-516225/6
Matrix: Water
Analysis Batch: 516225

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	2.50	2.421		mg/L		97	90 - 110
Nitrate as N	5.00	5.353		mg/L		107	90 - 110

Lab Sample ID: LCSD 570-516225/7
Matrix: Water
Analysis Batch: 516225

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	2.50	2.378		mg/L		95	90 - 110	2	15
Nitrate as N	5.00	5.363		mg/L		107	90 - 110	0	15

Lab Sample ID: 570-211892-1 MS
Matrix: Water
Analysis Batch: 516225

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	ND		25.0	28.32		mg/L		113	80 - 120
Nitrate as N	18		50.0	76.48		mg/L		117	80 - 120

Lab Sample ID: 570-211892-1 MSD
Matrix: Water
Analysis Batch: 516225

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	ND		25.0	28.22		mg/L		113	80 - 120	0	20
Nitrate as N	18		50.0	76.29		mg/L		117	80 - 120	0	20

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 570-516226/5
Matrix: Water
Analysis Batch: 516226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			12/20/24 08:35	1
Sulfate	ND		1.0	0.18	mg/L			12/20/24 08:35	1

Lab Sample ID: LCS 570-516226/6
Matrix: Water
Analysis Batch: 516226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	53.45		mg/L		107	90 - 110
Sulfate	50.0	53.33		mg/L		107	90 - 110

Lab Sample ID: LCSD 570-516226/7
Matrix: Water
Analysis Batch: 516226

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
Chloride	50.0	53.40		mg/L		107	90 - 110	0	15
Sulfate	50.0	53.43		mg/L		107	90 - 110	0	15

Lab Sample ID: 570-211892-1 MS
Matrix: Water
Analysis Batch: 516226

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	230		500	828.8		mg/L		120	80 - 120
Sulfate	280	F1	500	898.8	F1	mg/L		123	80 - 120

Lab Sample ID: 570-211892-1 MSD
Matrix: Water
Analysis Batch: 516226

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	230		500	828.1		mg/L		120	80 - 120	0	20
Sulfate	280	F1	500	900.6	F1	mg/L		123	80 - 120	0	20

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 570-516979/5
Matrix: Water
Analysis Batch: 516979

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0	0.39	ug/L			12/23/24 04:15	1

Lab Sample ID: LCS 570-516979/6
Matrix: Water
Analysis Batch: 516979

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	25.0	24.42		ug/L		98	85 - 115

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: LCSD 570-516979/7
Matrix: Water
Analysis Batch: 516979

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
Perchlorate	25.0	24.05		ug/L		96	85 - 115	2	15

Lab Sample ID: MRL 570-516979/3
Matrix: Water
Analysis Batch: 516979

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	1.00	1.247		ug/L		125	75 - 125

Lab Sample ID: 570-211892-1 MS
Matrix: Water
Analysis Batch: 516979

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	7.7		50.0	57.09		ug/L		99	80 - 120

Lab Sample ID: 570-211892-1 MSD
Matrix: Water
Analysis Batch: 516979

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	7.7		50.0	58.25		ug/L		101	80 - 120	2	15

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-824808/1-A
Matrix: Water
Analysis Batch: 825167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.72	ng/L		12/30/24 07:50	01/01/25 04:51	1
Isotope Dilution	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFHxA	95.4		40 - 130				12/30/24 07:50	01/01/25 04:51	1

Lab Sample ID: LCS 320-824808/3-A
Matrix: Water
Analysis Batch: 825167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	40.50		ng/L		101	50 - 150
Isotope Dilution		LCS Qualifier	Limits				
13C5 PFHxA		104	40 - 130				

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-824808/4-A

Matrix: Water

Analysis Batch: 825167

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 824808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	30.83		ng/L		77	50 - 150	24	30
		LCSD	LCSD						
Isotope Dilution	%Recovery	Qualifier	Limits						
13C5 PFHxA	104		40 - 130						

Lab Sample ID: LLCS 320-824808/2-A

Matrix: Water

Analysis Batch: 825167

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 824808

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.491		ng/L		112	50 - 150
		LLCS	LLCS				
Isotope Dilution	%Recovery	Qualifier	Limits				
13C5 PFHxA	104		40 - 130				

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Lab Sample ID: MB 320-824808/1-A

Matrix: Water

Analysis Batch: 825497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 824808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA) - RA	ND		4.0	1.0	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluoropentanoic acid (PFPeA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorohexanoic acid (PFHxA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluoroheptanoic acid (PFHpA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorooctanoic acid (PFOA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorononanoic acid (PFNA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorodecanoic acid (PFDA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluoroundecanoic acid (PFUnA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorododecanoic acid (PFDoA) - RA	ND		2.0	0.55	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorotridecanoic acid (PFTTrDA) - RA	ND		2.0	0.58	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorotetradecanoic acid (PFTeDA) - RA	ND		2.0	0.81	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorobutanesulfonic acid (PFBS) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluoropentanesulfonic acid (PFPeS) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorohexanesulfonic acid (PFHxS) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluoroheptanesulfonic acid (PFHpS) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorooctanesulfonic acid (PFOS) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorononanesulfonic acid (PFNS) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Lab Sample ID: MB 320-824808/1-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorododecanesulfonic acid (PFDoS) - RA	ND		2.0	0.53	ng/L		12/30/24 07:50	01/02/25 20:44	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	ND		4.0	1.0	ng/L		12/30/24 07:50	01/02/25 20:44	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) - RA	ND		4.0	1.0	ng/L		12/30/24 07:50	01/02/25 20:44	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	ND		4.0	1.0	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluorooctanesulfonamide (PFOSA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
N-methylperfluorooctane sulfonamide (NMeFOSA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
N-ethylperfluorooctane sulfonamide (NEtFOSA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE) - RA	ND		10	2.5	ng/L		12/30/24 07:50	01/02/25 20:44	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RA	ND		10	2.5	ng/L		12/30/24 07:50	01/02/25 20:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) - RA	ND		1.5	0.39	ng/L		12/30/24 07:50	01/02/25 20:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) - RA	ND		2.0	0.58	ng/L		12/30/24 07:50	01/02/25 20:44	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) - RA	ND		2.0	0.50	ng/L		12/30/24 07:50	01/02/25 20:44	1
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA	ND		4.0	1.0	ng/L		12/30/24 07:50	01/02/25 20:44	1
3-Perfluoropentylpropanoic acid (5:3 FTCA) - RA	ND		10	2.5	ng/L		12/30/24 07:50	01/02/25 20:44	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA) - RA	ND		10	2.5	ng/L		12/30/24 07:50	01/02/25 20:44	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA - RA	91.9		5 - 130	12/30/24 07:50	01/02/25 20:44	1
13C5 PFPeA - RA	94.5		40 - 130	12/30/24 07:50	01/02/25 20:44	1
13C5 PFHxA - RA	97.7		40 - 130	12/30/24 07:50	01/02/25 20:44	1
13C4 PFHpA - RA	90.1		40 - 130	12/30/24 07:50	01/02/25 20:44	1
13C8 PFOA - RA	86.2		40 - 130	12/30/24 07:50	01/02/25 20:44	1
13C9 PFNA - RA	94.5		40 - 130	12/30/24 07:50	01/02/25 20:44	1
13C6 PFDA - RA	91.0		40 - 130	12/30/24 07:50	01/02/25 20:44	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Lab Sample ID: MB 320-824808/1-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 824808

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C7 PFUnA - RA	85.4		30 - 130	12/30/24 07:50	01/02/25 20:44	1
13C2 PFDoA - RA	90.4		10 - 130	12/30/24 07:50	01/02/25 20:44	1
13C2 PFTeDA - RA	70.8		10 - 130	12/30/24 07:50	01/02/25 20:44	1
13C3 PFBS - RA	92.0		40 - 135	12/30/24 07:50	01/02/25 20:44	1
13C3 PFHxS - RA	88.0		40 - 130	12/30/24 07:50	01/02/25 20:44	1
13C8 PFOS - RA	82.2		40 - 130	12/30/24 07:50	01/02/25 20:44	1
13C8 FOSA - RA	68.9		40 - 130	12/30/24 07:50	01/02/25 20:44	1
d3-NMeFOSAA - RA	91.1		40 - 170	12/30/24 07:50	01/02/25 20:44	1
d5-NEtFOSAA - RA	86.9		25 - 135	12/30/24 07:50	01/02/25 20:44	1
13C2 4:2 FTS - RA	127		40 - 200	12/30/24 07:50	01/02/25 20:44	1
13C2 6:2 FTS - RA	113		40 - 200	12/30/24 07:50	01/02/25 20:44	1
13C2 8:2 FTS - RA	96.0		40 - 300	12/30/24 07:50	01/02/25 20:44	1
13C3 HFPO-DA - RA	86.4		40 - 130	12/30/24 07:50	01/02/25 20:44	1
d7-N-MeFOSE-M - RA	63.4		10 - 130	12/30/24 07:50	01/02/25 20:44	1
d9-N-EtFOSE-M - RA	51.8		10 - 130	12/30/24 07:50	01/02/25 20:44	1
d5-NEtPFOSA - RA	64.3		10 - 130	12/30/24 07:50	01/02/25 20:44	1
d3-NMePFOSA - RA	67.1		10 - 130	12/30/24 07:50	01/02/25 20:44	1

Lab Sample ID: LCS 320-824808/3-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA) - RA	80.0	77.47		ng/L		97	70 - 140
Perfluoropentanoic acid (PFPeA) - RA	40.0	41.52		ng/L		104	65 - 135
Perfluorohexanoic acid (PFHxA) - RA	40.0	36.96		ng/L		92	70 - 145
Perfluoroheptanoic acid (PFHpA) - RA	40.0	40.80		ng/L		102	70 - 150
Perfluorooctanoic acid (PFOA) - RA	40.0	41.52		ng/L		104	70 - 150
Perfluorononanoic acid (PFNA) - RA	40.0	39.10		ng/L		98	70 - 150
Perfluorodecanoic acid (PFDA) - RA	40.0	40.70		ng/L		102	70 - 140
Perfluoroundecanoic acid (PFUnA) - RA	40.0	42.53		ng/L		106	70 - 145
Perfluorododecanoic acid (PFDoA) - RA	40.0	37.09		ng/L		93	70 - 140
Perfluorotridecanoic acid (PFTTrDA) - RA	40.0	41.22		ng/L		103	65 - 140
Perfluorotetradecanoic acid (PFTeDA) - RA	40.0	44.69		ng/L		112	60 - 140
Perfluorobutanesulfonic acid (PFBS) - RA	35.5	29.98		ng/L		84	60 - 145
Perfluoropentanesulfonic acid (PFPeS) - RA	37.6	40.35		ng/L		107	65 - 140
Perfluorohexanesulfonic acid (PFHxS) - RA	36.5	33.94		ng/L		93	65 - 145
Perfluoroheptanesulfonic acid (PFHpS) - RA	38.2	38.53		ng/L		101	70 - 150

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Lab Sample ID: LCS 320-824808/3-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS) - RA	37.2	35.27		ng/L		95	55 - 150
Perfluorononanesulfonic acid (PFNS) - RA	38.5	41.47		ng/L		108	65 - 145
Perfluorodecane sulfonic acid (PFDS) - RA	38.6	36.74		ng/L		95	60 - 145
Perfluorododecane sulfonic acid (PFDoS) - RA	38.8	35.34		ng/L		91	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	75.0	82.70		ng/L		110	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) - RA	76.2	75.07		ng/L		99	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	76.8	77.96		ng/L		102	60 - 150
Perfluorooctanesulfonamide (PFOSA) - RA	40.0	39.72		ng/L		99	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA) - RA	40.0	43.20		ng/L		108	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA) - RA	40.0	41.01		ng/L		103	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) - RA	40.0	42.83		ng/L		107	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) - RA	40.0	39.44		ng/L		99	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE) - RA	200	202.1		ng/L		101	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RA	200	218.6		ng/L		109	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) - RA	30.0	31.98		ng/L		107	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	37.8	36.10		ng/L		95	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA	40.0	45.34		ng/L		113	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA) - RA	40.0	43.42		ng/L		109	60 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) - RA	37.4	35.79		ng/L		96	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) - RA	37.8	33.79		ng/L		89	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) - RA	35.7	31.52		ng/L		88	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA	80.0	101.9		ng/L		127	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA) - RA	200	198.2		ng/L		99	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA) - RA	200	165.8		ng/L		83	50 - 145

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA - RA	93.0		5 - 130
13C5 PFPeA - RA	94.4		40 - 130
13C5 PFHxA - RA	102		40 - 130
13C4 PFHpA - RA	94.7		40 - 130
13C8 PFOA - RA	91.9		40 - 130
13C9 PFNA - RA	91.5		40 - 130
13C6 PFDA - RA	89.3		40 - 130
13C7 PFUnA - RA	90.9		30 - 130
13C2 PFDoA - RA	94.7		10 - 130
13C2 PFTeDA - RA	71.2		10 - 130
13C3 PFBS - RA	93.1		40 - 135
13C3 PFHxS - RA	91.0		40 - 130
13C8 PFOS - RA	83.9		40 - 130
13C8 FOSA - RA	71.4		40 - 130
d3-NMeFOSAA - RA	94.8		40 - 170
d5-NEtFOSAA - RA	93.7		25 - 135
13C2 4:2 FTS - RA	109		40 - 200
13C2 6:2 FTS - RA	105		40 - 200
13C2 8:2 FTS - RA	91.7		40 - 300
13C3 HFPO-DA - RA	94.3		40 - 130
d7-N-MeFOSE-M - RA	61.5		10 - 130
d9-N-EtFOSE-M - RA	53.6		10 - 130
d5-NEtPFOSA - RA	67.3		10 - 130
d3-NMePFOSA - RA	66.1		10 - 130

Lab Sample ID: LCSD 320-824808/4-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	
		Result	Qualifier				Limits	RPD	Limit	
Perfluorobutanoic acid (PFBA) - RA	80.0	79.63		ng/L		100	70 - 140	3	30	
Perfluoropentanoic acid (PFPeA) - RA	40.0	40.87		ng/L		102	65 - 135	2	30	
Perfluorohexanoic acid (PFHxA) - RA	40.0	36.57		ng/L		91	70 - 145	1	30	
Perfluoroheptanoic acid (PFHpA) - RA	40.0	37.48		ng/L		94	70 - 150	8	30	
Perfluorooctanoic acid (PFOA) - RA	40.0	42.53		ng/L		106	70 - 150	2	30	
Perfluorononanoic acid (PFNA) - RA	40.0	41.62		ng/L		104	70 - 150	6	30	
Perfluorodecanoic acid (PFDA) - RA	40.0	39.02		ng/L		98	70 - 140	4	30	
Perfluoroundecanoic acid (PFUnA) - RA	40.0	41.90		ng/L		105	70 - 145	1	30	
Perfluorododecanoic acid (PFDoA) - RA	40.0	41.26		ng/L		103	70 - 140	11	30	
Perfluorotridecanoic acid (PFTTrDA) - RA	40.0	46.29		ng/L		116	65 - 140	12	30	
Perfluorotetradecanoic acid (PFTeDA) - RA	40.0	44.21		ng/L		111	60 - 140	1	30	
Perfluorobutanesulfonic acid (PFBS) - RA	35.5	29.26		ng/L		82	60 - 145	2	30	

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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Lab Sample ID: LCSD 320-824808/4-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Perfluoropentanesulfonic acid (PFPeS) - RA	37.6	37.83		ng/L		101	65 - 140	6	30	
Perfluorohexanesulfonic acid (PFHxS) - RA	36.5	34.26		ng/L		94	65 - 145	1	30	
Perfluoroheptanesulfonic acid (PFHpS) - RA	38.2	41.34		ng/L		108	70 - 150	7	30	
Perfluorooctanesulfonic acid (PFOS) - RA	37.2	37.72		ng/L		101	55 - 150	7	30	
Perfluorononanesulfonic acid (PFNS) - RA	38.5	41.62		ng/L		108	65 - 145	0	30	
Perfluorodecanesulfonic acid (PFDS) - RA	38.6	39.85		ng/L		103	60 - 145	8	30	
Perfluorododecanesulfonic acid (PFDoS) - RA	38.8	37.19		ng/L		96	50 - 145	5	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	75.0	79.41		ng/L		106	70 - 145	4	30	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) - RA	76.2	74.29		ng/L		98	65 - 155	1	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	76.8	78.48		ng/L		102	60 - 150	1	30	
Perfluorooctanesulfonamide (PFOSA) - RA	40.0	39.46		ng/L		99	70 - 145	1	30	
N-methylperfluorooctane sulfonamide (NMeFOSA) - RA	40.0	42.05		ng/L		105	60 - 150	3	30	
N-ethylperfluorooctane sulfonamide (NEtFOSA) - RA	40.0	39.72		ng/L		99	65 - 145	3	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) - RA	40.0	42.42		ng/L		106	50 - 140	1	30	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) - RA	40.0	40.67		ng/L		102	70 - 145	3	30	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE) - RA	200	207.9		ng/L		104	70 - 145	3	30	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RA	200	195.5		ng/L		98	70 - 135	11	30	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) - RA	30.0	30.14		ng/L		100	70 - 140	6	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	37.8	34.63		ng/L		92	65 - 145	4	30	
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA	40.0	45.42		ng/L		114	55 - 140	0	30	
Perfluoro-4-methoxybutanoic acid (PFMBA) - RA	40.0	41.25		ng/L		103	60 - 150	5	30	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) - RA	37.4	33.86		ng/L		91	70 - 155	6	30	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) - RA	37.8	34.09		ng/L		90	55 - 160	1	30	
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) - RA	35.7	32.05		ng/L		90	70 - 140	2	30	
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA	80.0	95.53		ng/L		119	65 - 130	6	30	

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Lab Sample ID: LCSD 320-824808/4-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3-Perfluoropentylpropanoic acid (5:3 FTCA) - RA	200	193.3		ng/L		97	70 - 135	2	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA) - RA	200	163.3		ng/L		82	50 - 145	2	30
		LCSD	LCSD						
Isotope Dilution	%Recovery	Qualifier	Limits						
13C4 PFBA - RA	92.4		5 - 130						
13C5 PFPeA - RA	96.7		40 - 130						
13C5 PFHxA - RA	101		40 - 130						
13C4 PFHpA - RA	101		40 - 130						
13C8 PFOA - RA	93.6		40 - 130						
13C9 PFNA - RA	90.5		40 - 130						
13C6 PFDA - RA	91.2		40 - 130						
13C7 PFUnA - RA	80.5		30 - 130						
13C2 PFDoA - RA	80.7		10 - 130						
13C2 PFTeDA - RA	66.8		10 - 130						
13C3 PFBS - RA	102		40 - 135						
13C3 PFHxS - RA	92.4		40 - 130						
13C8 PFOS - RA	83.7		40 - 130						
13C8 FOSA - RA	72.7		40 - 130						
d3-NMeFOSAA - RA	96.2		40 - 170						
d5-NEtFOSAA - RA	91.3		25 - 135						
13C2 4:2 FTS - RA	121		40 - 200						
13C2 6:2 FTS - RA	103		40 - 200						
13C2 8:2 FTS - RA	94.7		40 - 300						
13C3 HFPO-DA - RA	95.4		40 - 130						
d7-N-MeFOSE-M - RA	63.4		10 - 130						
d9-N-EtFOSE-M - RA	61.6		10 - 130						
d5-NEtPFOSA - RA	70.8		10 - 130						
d3-NMePFOSA - RA	68.6		10 - 130						

Lab Sample ID: LLCS 320-824808/2-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorobutanoic acid (PFBA) - RA	8.00	8.317		ng/L		104	70 - 140		
Perfluoropentanoic acid (PFPeA) - RA	4.00	4.202		ng/L		105	65 - 135		
Perfluorohexanoic acid (PFHxA) - RA	4.00	3.831		ng/L		96	70 - 145		
Perfluoroheptanoic acid (PFHpA) - RA	4.00	3.973		ng/L		99	70 - 150		
Perfluorooctanoic acid (PFOA) - RA	4.00	4.640		ng/L		116	70 - 150		
Perfluorononanoic acid (PFNA) - RA	4.00	4.077		ng/L		102	70 - 150		
Perfluorodecanoic acid (PFDA) - RA	4.00	4.282		ng/L		107	70 - 140		

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Lab Sample ID: LLCS 320-824808/2-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA) - RA	4.00	4.147		ng/L		104	70 - 145
Perfluorododecanoic acid (PFDoA) - RA	4.00	3.855		ng/L		96	70 - 140
Perfluorotridecanoic acid (PFTrDA) - RA	4.00	4.185		ng/L		105	65 - 140
Perfluorotetradecanoic acid (PFTeDA) - RA	4.00	3.774		ng/L		94	60 - 140
Perfluorobutanesulfonic acid (PFBS) - RA	3.55	3.231		ng/L		91	60 - 145
Perfluoropentanesulfonic acid (PFPeS) - RA	3.76	4.107		ng/L		109	65 - 140
Perfluorohexanesulfonic acid (PFHxS) - RA	3.65	3.725		ng/L		102	65 - 145
Perfluoroheptanesulfonic acid (PFHpS) - RA	3.82	3.762		ng/L		99	70 - 150
Perfluorooctanesulfonic acid (PFOS) - RA	3.72	3.939		ng/L		106	55 - 150
Perfluorononanesulfonic acid (PFNS) - RA	3.85	4.056		ng/L		105	65 - 145
Perfluorodecanesulfonic acid (PFDS) - RA	3.86	3.775		ng/L		98	60 - 145
Perfluorododecanesulfonic acid (PFDoS) - RA	3.88	3.258		ng/L		84	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	7.50	8.004		ng/L		107	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) - RA	7.62	7.647		ng/L		100	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	7.68	8.482		ng/L		110	60 - 150
Perfluorooctanesulfonamide (PFOSA) - RA	4.00	3.894		ng/L		97	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA) - RA	4.00	4.709		ng/L		118	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA) - RA	4.00	4.262		ng/L		107	65 - 145
N-methylperfluorooctanesulfonamide (NMeFOSAA) - RA	4.00	4.316		ng/L		108	50 - 140
N-ethylperfluorooctanesulfonamide (NEtFOSAA) - RA	4.00	3.775		ng/L		94	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE) - RA	20.0	19.88		ng/L		99	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RA	20.0	21.77		ng/L		109	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) - RA	3.00	3.186		ng/L		106	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) - RA	3.78	3.855		ng/L		102	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA) - RA	4.00	4.337		ng/L		108	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA) - RA	4.00	4.221		ng/L		106	60 - 150

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Lab Sample ID: LLCS 320-824808/2-A
Matrix: Water
Analysis Batch: 825497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 824808

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid (9Cl-PF3ONS) - RA	3.74	3.811		ng/L		102	70 - 155
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid (11Cl-PF3OUdS) - RA	3.78	3.684		ng/L		98	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) - RA	3.57	3.057		ng/L		86	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA	8.00	10.38		ng/L		130	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA) - RA	20.0	19.14		ng/L		96	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA) - RA	20.0	15.31		ng/L		77	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA - RA	92.4		5 - 130
13C5 PFPeA - RA	100		40 - 130
13C5 PFHxA - RA	110		40 - 130
13C4 PFHpA - RA	102		40 - 130
13C8 PFOA - RA	99.2		40 - 130
13C9 PFNA - RA	93.9		40 - 130
13C6 PFDA - RA	95.0		40 - 130
13C7 PFUnA - RA	93.8		30 - 130
13C2 PFDoA - RA	91.2		10 - 130
13C2 PFTeDA - RA	77.4		10 - 130
13C3 PFBS - RA	102		40 - 135
13C3 PFHxS - RA	95.3		40 - 130
13C8 PFOS - RA	92.0		40 - 130
13C8 FOSA - RA	75.4		40 - 130
d3-NMeFOSAA - RA	99.2		40 - 170
d5-NEtFOSAA - RA	97.7		25 - 135
13C2 4:2 FTS - RA	131		40 - 200
13C2 6:2 FTS - RA	113		40 - 200
13C2 8:2 FTS - RA	95.4		40 - 300
13C3 HFPO-DA - RA	95.1		40 - 130
d7-N-MeFOSE-M - RA	69.6		10 - 130
d9-N-EtFOSE-M - RA	64.4		10 - 130
d5-NEtPFOSA - RA	66.6		10 - 130
d3-NMePFOSA - RA	67.1		10 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-517006/1-A
Matrix: Water
Analysis Batch: 517459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 517006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.100	0.0147	mg/L		12/23/24 06:48	12/23/24 20:06	1
Arsenic	ND		0.100	0.00965	mg/L		12/23/24 06:48	12/23/24 20:06	1
Barium	ND		0.0100	0.000730	mg/L		12/23/24 06:48	12/23/24 20:06	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 570-517006/1-A
Matrix: Water
Analysis Batch: 517459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 517006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0100	0.000660	mg/L		12/23/24 06:48	12/23/24 20:06	1
Cadmium	ND		0.0100	0.000450	mg/L		12/23/24 06:48	12/23/24 20:06	1
Chromium	ND		0.0500	0.00300	mg/L		12/23/24 06:48	12/23/24 20:06	1
Cobalt	ND		0.0500	0.00125	mg/L		12/23/24 06:48	12/23/24 20:06	1
Copper	ND		0.0500	0.00159	mg/L		12/23/24 06:48	12/23/24 20:06	1
Calcium	ND		2.00	0.0839	mg/L		12/23/24 06:48	12/23/24 20:06	1
Lead	ND		0.0500	0.00598	mg/L		12/23/24 06:48	12/23/24 20:06	1
Molybdenum	ND		0.0500	0.00592	mg/L		12/23/24 06:48	12/23/24 20:06	1
Nickel	ND		0.0500	0.00146	mg/L		12/23/24 06:48	12/23/24 20:06	1
Selenium	ND		0.100	0.0118	mg/L		12/23/24 06:48	12/23/24 20:06	1
Iron	ND		0.500	0.0559	mg/L		12/23/24 06:48	12/23/24 20:06	1
Silver	ND		0.0100	0.00340	mg/L		12/23/24 06:48	12/23/24 20:06	1
Thallium	ND		0.0500	0.00863	mg/L		12/23/24 06:48	12/23/24 20:06	1
Vanadium	ND		0.0100	0.00171	mg/L		12/23/24 06:48	12/23/24 20:06	1
Magnesium	ND		0.500	0.0703	mg/L		12/23/24 06:48	12/23/24 20:06	1
Zinc	ND		0.250	0.00460	mg/L		12/23/24 06:48	12/23/24 20:06	1
Manganese	ND		0.0500	0.00129	mg/L		12/23/24 06:48	12/23/24 20:06	1
Sodium	0.1890	J	2.00	0.186	mg/L		12/23/24 06:48	12/23/24 20:06	1

Lab Sample ID: LCS 570-517006/2-A
Matrix: Water
Analysis Batch: 517459

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 517006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.4784		mg/L		96	85 - 115
Arsenic	0.500	0.4961		mg/L		99	85 - 115
Barium	0.500	0.4913		mg/L		98	85 - 115
Beryllium	0.500	0.4961		mg/L		99	85 - 115
Cadmium	0.500	0.4989		mg/L		100	85 - 115
Chromium	0.500	0.5020		mg/L		100	85 - 115
Cobalt	0.500	0.4981		mg/L		100	85 - 115
Copper	0.500	0.4948		mg/L		99	85 - 115
Calcium	2.50	2.484		mg/L		99	85 - 115
Lead	0.500	0.4995		mg/L		100	85 - 115
Molybdenum	0.500	0.4840		mg/L		97	85 - 115
Nickel	0.500	0.5039		mg/L		101	85 - 115
Selenium	0.500	0.5056		mg/L		101	85 - 115
Iron	0.500	0.5057		mg/L		101	85 - 115
Silver	0.250	0.2445		mg/L		98	85 - 115
Thallium	0.500	0.4983		mg/L		100	85 - 115
Vanadium	0.500	0.4899		mg/L		98	85 - 115
Magnesium	2.50	2.499		mg/L		100	85 - 115
Zinc	0.500	0.5111		mg/L		102	85 - 115
Manganese	0.500	0.4964		mg/L		99	85 - 115
Sodium	5.00	5.087		mg/L		102	85 - 115

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 570-517006/3-A
Matrix: Water
Analysis Batch: 517459

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 517006

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Antimony	0.500	0.4765		mg/L		95	85 - 115	0	20	
Arsenic	0.500	0.4979		mg/L		100	85 - 115	0	20	
Barium	0.500	0.4903		mg/L		98	85 - 115	0	20	
Beryllium	0.500	0.4942		mg/L		99	85 - 115	0	20	
Cadmium	0.500	0.4963		mg/L		99	85 - 115	1	20	
Chromium	0.500	0.5023		mg/L		100	85 - 115	0	20	
Cobalt	0.500	0.4983		mg/L		100	85 - 115	0	20	
Copper	0.500	0.4927		mg/L		99	85 - 115	0	20	
Calcium	2.50	2.455		mg/L		98	85 - 115	1	20	
Lead	0.500	0.4995		mg/L		100	85 - 115	0	20	
Molybdenum	0.500	0.4810		mg/L		96	85 - 115	1	20	
Nickel	0.500	0.4993		mg/L		100	85 - 115	1	20	
Selenium	0.500	0.5135		mg/L		103	85 - 115	2	20	
Iron	0.500	0.4931	J	mg/L		99	85 - 115	3	20	
Silver	0.250	0.2441		mg/L		98	85 - 115	0	20	
Thallium	0.500	0.4933		mg/L		99	85 - 115	1	20	
Vanadium	0.500	0.4888		mg/L		98	85 - 115	0	20	
Magnesium	2.50	2.493		mg/L		100	85 - 115	0	20	
Zinc	0.500	0.5086		mg/L		102	85 - 115	0	20	
Manganese	0.500	0.4950		mg/L		99	85 - 115	0	20	
Sodium	5.00	5.014		mg/L		100	85 - 115	1	20	

Lab Sample ID: 570-211892-1 MS
Matrix: Water
Analysis Batch: 517459

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total Recoverable
Prep Batch: 517006

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Antimony	ND		0.500	0.4888		mg/L		98	80 - 120	
Arsenic	ND		0.500	0.4866		mg/L		97	80 - 120	
Barium	0.0495		0.500	0.5159		mg/L		93	80 - 120	
Beryllium	ND		0.500	0.4779		mg/L		96	80 - 120	
Cadmium	ND		0.500	0.4629		mg/L		93	80 - 120	
Chromium	ND		0.500	0.4824		mg/L		96	80 - 120	
Cobalt	ND		0.500	0.4532		mg/L		91	80 - 120	
Copper	ND		0.500	0.4740		mg/L		95	80 - 120	
Calcium	47.4		2.50	49.74	4	mg/L		92	80 - 120	
Lead	ND		0.500	0.4690		mg/L		94	80 - 120	
Molybdenum	0.00830	J	0.500	0.4803		mg/L		94	80 - 120	
Nickel	ND		0.500	0.4595		mg/L		92	80 - 120	
Selenium	ND		0.500	0.4935		mg/L		99	80 - 120	
Iron	0.343	J F1	0.500	0.9284		mg/L		117	80 - 120	
Silver	ND		0.250	0.2364		mg/L		95	80 - 120	
Thallium	ND		0.500	0.4646		mg/L		93	80 - 120	
Vanadium	0.00800	J	0.500	0.4838		mg/L		95	80 - 120	
Magnesium	12.4		2.50	14.65	4	mg/L		92	80 - 120	
Zinc	ND		0.500	0.4782		mg/L		96	80 - 120	
Manganese	0.0224	J	0.500	0.4900		mg/L		94	80 - 120	
Sodium	32.7	B	5.00	36.98	4	mg/L		85	80 - 120	

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 570-211892-1 MSD

Matrix: Water

Analysis Batch: 517459

Client Sample ID: Zone #3 Explorer Well -452

Prep Type: Total Recoverable

Prep Batch: 517006

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Antimony	ND		0.500	0.5036		mg/L		101	80 - 120	3	20
Arsenic	ND		0.500	0.4969		mg/L		99	80 - 120	2	20
Barium	0.0495		0.500	0.5320		mg/L		97	80 - 120	3	20
Beryllium	ND		0.500	0.4933		mg/L		99	80 - 120	3	20
Cadmium	ND		0.500	0.4799		mg/L		96	80 - 120	4	20
Chromium	ND		0.500	0.4952		mg/L		99	80 - 120	3	20
Cobalt	ND		0.500	0.4727		mg/L		95	80 - 120	4	20
Copper	ND		0.500	0.4898		mg/L		98	80 - 120	3	20
Calcium	47.4		2.50	51.44	4	mg/L		160	80 - 120	3	20
Lead	ND		0.500	0.4824		mg/L		96	80 - 120	3	20
Molybdenum	0.00830	J	0.500	0.4971		mg/L		98	80 - 120	3	20
Nickel	ND		0.500	0.4739		mg/L		95	80 - 120	3	20
Selenium	ND		0.500	0.5081		mg/L		102	80 - 120	3	20
Iron	0.343	J F1	0.500	0.9708	F1	mg/L		126	80 - 120	4	20
Silver	ND		0.250	0.2442		mg/L		98	80 - 120	3	20
Thallium	ND		0.500	0.4849		mg/L		97	80 - 120	4	20
Vanadium	0.00800	J	0.500	0.5003		mg/L		98	80 - 120	3	20
Magnesium	12.4		2.50	15.11	4	mg/L		110	80 - 120	3	20
Zinc	ND		0.500	0.4904		mg/L		98	80 - 120	3	20
Manganese	0.0224	J	0.500	0.5058		mg/L		97	80 - 120	3	20
Sodium	32.7	B	5.00	38.14	4	mg/L		109	80 - 120	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 570-517101/1-A

Matrix: Water

Analysis Batch: 517391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 517101

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.000200	0.000124	mg/L		12/23/24 09:41	12/23/24 13:46	1

Lab Sample ID: LCS 570-517101/2-A

Matrix: Water

Analysis Batch: 517391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 517101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Mercury	0.00800	0.006432		mg/L		80	80 - 120

Lab Sample ID: LCSD 570-517101/3-A

Matrix: Water

Analysis Batch: 517391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 517101

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits	Limit	
Mercury	0.00800	0.006908		mg/L		86	80 - 120	7	10

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-518760/10
Matrix: Water
Analysis Batch: 518760

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		5.00	2.18	mg/L			12/29/24 22:59	1
Bicarbonate (as CaCO3)	ND		5.00	2.18	mg/L			12/29/24 22:59	1
Carbonate (as CaCO3)	ND		5.00	2.18	mg/L			12/29/24 22:59	1
Hydroxide (as CaCO3)	ND		5.00	2.18	mg/L			12/29/24 22:59	1

Lab Sample ID: LCS 570-518760/8
Matrix: Water
Analysis Batch: 518760

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)	106	111.4		mg/L		105	78 - 110

Lab Sample ID: LCSD 570-518760/9
Matrix: Water
Analysis Batch: 518760

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
Alkalinity, Total (As CaCO3)	106	99.32	*1	mg/L		94	78 - 110	11	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 570-518761/10
Matrix: Water
Analysis Batch: 518761

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.00	1.00	umhos/cm			12/29/24 22:59	1

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

Lab Sample ID: MB 570-517876/1
Matrix: Water
Analysis Batch: 517876

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	8.35	mg/L			12/26/24 15:26	1

Lab Sample ID: LCS 570-517876/2
Matrix: Water
Analysis Batch: 517876

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	1000	972.0		mg/L		97	84 - 108

Lab Sample ID: LCSD 570-517876/3
Matrix: Water
Analysis Batch: 517876

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 Dissolved Solids	1000	1020		mg/L		102	84 - 108	5	10

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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110004

Job ID: 570-211892-2

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 570-516578/5-A
Matrix: Water
Analysis Batch: 516611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 516578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MBAS	ND		0.200	0.0520	mg/L		12/20/24 16:31	12/20/24 18:05	1

Lab Sample ID: LCS 570-516578/6-A
Matrix: Water
Analysis Batch: 516611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 516578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MBAS	0.500	0.4986		mg/L		100	83 - 122

Lab Sample ID: LCSD 570-516578/7-A
Matrix: Water
Analysis Batch: 516611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 516578

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MBAS	0.500	0.4890		mg/L		98	83 - 122	2	10

Lab Sample ID: 570-211892-1 MS
Matrix: Water
Analysis Batch: 516611

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA
Prep Batch: 516578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
MBAS	ND		0.500	0.5012		mg/L		100	64 - 141

Lab Sample ID: 570-211892-1 MSD
Matrix: Water
Analysis Batch: 516611

Client Sample ID: Zone #3 Explorer Well -452
Prep Type: Total/NA
Prep Batch: 516578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MBAS	ND		0.500	0.5077		mg/L		102	64 - 141	1	10

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

GC/MS VOA

Analysis Batch: 516498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	624.1	
MB 570-516498/7	Method Blank	Total/NA	Water	624.1	
LCS 570-516498/1003	Lab Control Sample	Total/NA	Water	624.1	
LCSD 570-516498/4	Lab Control Sample Dup	Total/NA	Water	624.1	

Analysis Batch: 516499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	8260B	
MB 570-516499/7	Method Blank	Total/NA	Water	8260B	
LCS 570-516499/1003	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-516499/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 517932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	SRL 524M	
MB 570-517932/4	Method Blank	Total/NA	Water	SRL 524M	
LCS 570-517932/5	Lab Control Sample	Total/NA	Water	SRL 524M	
LCSD 570-517932/6	Lab Control Sample Dup	Total/NA	Water	SRL 524M	
570-211892-1 DU	Zone #3 Explorer Well -452	Total/NA	Water	SRL 524M	

HPLC/IC

Analysis Batch: 516225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	300.0	
MB 570-516225/5	Method Blank	Total/NA	Water	300.0	
LCS 570-516225/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-516225/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-211892-1 MS	Zone #3 Explorer Well -452	Total/NA	Water	300.0	
570-211892-1 MSD	Zone #3 Explorer Well -452	Total/NA	Water	300.0	

Analysis Batch: 516226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	300.0	
MB 570-516226/5	Method Blank	Total/NA	Water	300.0	
LCS 570-516226/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-516226/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-211892-1 MS	Zone #3 Explorer Well -452	Total/NA	Water	300.0	
570-211892-1 MSD	Zone #3 Explorer Well -452	Total/NA	Water	300.0	

Analysis Batch: 516979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	314.0 LL	
MB 570-516979/5	Method Blank	Total/NA	Water	314.0 LL	
LCS 570-516979/6	Lab Control Sample	Total/NA	Water	314.0 LL	
LCSD 570-516979/7	Lab Control Sample Dup	Total/NA	Water	314.0 LL	
MRL 570-516979/3	Lab Control Sample	Total/NA	Water	314.0 LL	
570-211892-1 MS	Zone #3 Explorer Well -452	Total/NA	Water	314.0 LL	
570-211892-1 MSD	Zone #3 Explorer Well -452	Total/NA	Water	314.0 LL	

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

LCMS

Prep Batch: 824808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	1633	
570-211892-1 - RA	Zone #3 Explorer Well -452	Total/NA	Water	1633	
MB 320-824808/1-A	Method Blank	Total/NA	Water	1633	
MB 320-824808/1-A - RA	Method Blank	Total/NA	Water	1633	
LCS 320-824808/3-A - RA	Lab Control Sample	Total/NA	Water	1633	
LCS 320-824808/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-824808/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	
LCSD 320-824808/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-824808/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-824808/2-A - RA	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 825167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	1633	824808
MB 320-824808/1-A	Method Blank	Total/NA	Water	1633	824808
LCS 320-824808/3-A	Lab Control Sample	Total/NA	Water	1633	824808
LCSD 320-824808/4-A	Lab Control Sample Dup	Total/NA	Water	1633	824808
LLCS 320-824808/2-A	Lab Control Sample	Total/NA	Water	1633	824808

Analysis Batch: 825497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1 - RA	Zone #3 Explorer Well -452	Total/NA	Water	1633	824808
MB 320-824808/1-A - RA	Method Blank	Total/NA	Water	1633	824808
LCS 320-824808/3-A - RA	Lab Control Sample	Total/NA	Water	1633	824808
LCSD 320-824808/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	824808
LLCS 320-824808/2-A - RA	Lab Control Sample	Total/NA	Water	1633	824808

Metals

Analysis Batch: 516665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total Recoverable	Water	SM 2340B	

Prep Batch: 517006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total Recoverable	Water	200.7	
MB 570-517006/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-517006/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-517006/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-211892-1 MS	Zone #3 Explorer Well -452	Total Recoverable	Water	200.7	
570-211892-1 MSD	Zone #3 Explorer Well -452	Total Recoverable	Water	200.7	

Prep Batch: 517101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	7470A	
MB 570-517101/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-517101/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-517101/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Metals

Analysis Batch: 517391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	7470A	517101
MB 570-517101/1-A	Method Blank	Total/NA	Water	7470A	517101
LCS 570-517101/2-A	Lab Control Sample	Total/NA	Water	7470A	517101
LCSD 570-517101/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	517101

Analysis Batch: 517459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total Recoverable	Water	200.7 Rev 4.4	517006
MB 570-517006/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	517006
LCS 570-517006/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	517006
LCSD 570-517006/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	517006
570-211892-1 MS	Zone #3 Explorer Well -452	Total Recoverable	Water	200.7 Rev 4.4	517006
570-211892-1 MSD	Zone #3 Explorer Well -452	Total Recoverable	Water	200.7 Rev 4.4	517006

General Chemistry

Prep Batch: 516578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	SM 5540C	
MB 570-516578/5-A	Method Blank	Total/NA	Water	SM 5540C	
LCS 570-516578/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	
LCSD 570-516578/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	
570-211892-1 MS	Zone #3 Explorer Well -452	Total/NA	Water	SM 5540C	
570-211892-1 MSD	Zone #3 Explorer Well -452	Total/NA	Water	SM 5540C	

Analysis Batch: 516611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	SM 5540C	516578
MB 570-516578/5-A	Method Blank	Total/NA	Water	SM 5540C	516578
LCS 570-516578/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	516578
LCSD 570-516578/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	516578
570-211892-1 MS	Zone #3 Explorer Well -452	Total/NA	Water	SM 5540C	516578
570-211892-1 MSD	Zone #3 Explorer Well -452	Total/NA	Water	SM 5540C	516578

Analysis Batch: 517876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	SM 2540C	
MB 570-517876/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-517876/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-517876/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 518760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	SM 2320B	
MB 570-518760/10	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-518760/8	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-518760/9	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 518761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	SM 2510B	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

General Chemistry (Continued)

Analysis Batch: 518761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-518761/10	Method Blank	Total/NA	Water	SM 2510B	

Analysis Batch: 518762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-211892-1	Zone #3 Explorer Well -452	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Client Sample ID: Zone #3 Explorer Well -452

Lab Sample ID: 570-211892-1

Date Collected: 12/19/24 18:30

Matrix: Water

Date Received: 12/19/24 20:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	516498	12/20/24 20:55	PT	EET CAL 4
		Instrument ID: GCMSPP								
Total/NA	Analysis	8260B		1	5 mL	5 mL	516499	12/20/24 20:55	PT	EET CAL 4
		Instrument ID: GCMSPP								
Total/NA	Analysis	SRL 524M		1	25 mL	25 mL	517932	12/26/24 19:19	PT	EET CAL 4
		Instrument ID: GCMS78								
Total/NA	Analysis	300.0		10	4 mL	4 mL	516225	12/20/24 12:14	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0		10	4 mL	4 mL	516226	12/20/24 12:14	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	314.0 LL		1	5 mL	5 mL	516979	12/23/24 05:08	YO8L	EET CAL 4
		Instrument ID: IC25								
Total/NA	Prep	1633			162.2 mL	5.0 mL	824808	12/30/24 07:50	CGL	EET SAC
Total/NA	Analysis	1633		1			825167	01/01/25 12:31	RS1	EET SAC
		Instrument ID: A46								
Total/NA	Prep	1633	RA		162.2 mL	5.0 mL	824808	12/30/24 07:50	CGL	EET SAC
Total/NA	Analysis	1633	RA	1			825497	01/03/25 04:08	K1S	EET SAC
		Instrument ID: A46								
Total Recoverable	Prep	200.7			50 mL	50 mL	517006	12/23/24 06:48	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			517459	12/23/24 21:10	P1R	EET CAL 4
		Instrument ID: ICP11								
Total/NA	Prep	7470A			25 mL	50 mL	517101	12/23/24 09:41	RL6Q	EET CAL 4
Total/NA	Analysis	7470A		1			517391	12/23/24 14:26	BG9Y	EET CAL 4
		Instrument ID: HG7								
Total Recoverable	Analysis	SM 2340B		1			516665	12/21/24 17:38	P1R	EET CAL 4
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	518760	12/30/24 00:19	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2510B		1			518761	12/30/24 00:19	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	517876	12/26/24 15:26	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	SM 4500 H+ B		1			518762	12/30/24 00:19	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Prep	SM 5540C			100 mL	100 mL	516578	12/20/24 16:31	PK4M	EET CAL 4
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	516611	12/20/24 18:10	ZVB7	EET CAL 4
		Instrument ID: UV8								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	State	3082	07-31-25
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-25
USDA	US Federal Programs	525-23-159-97150	06-08-26
Washington	State	C916	10-11-25

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468	01-20-27
Arizona	State	AZ0708	08-11-25
Arkansas DEQ	State	88-0691	05-18-25
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-25
Florida	NELAP	E87570	06-30-25
Georgia	State	4040	01-29-25
Hawaii	State	Eurofins Sacramento	01-29-25
Illinois	NELAP	200060	03-31-25
Kansas	NELAP	E-10375	10-31-25
Louisiana	NELAP	01944	06-30-25
Louisiana (All)	NELAP	01944	06-30-25
Maine	State	CA00004	04-14-26
Michigan	State	9947	01-29-25
Minnesota	NELAP	2749448	12-31-25
Nevada	State	CA00044	07-31-25
New Hampshire	NELAP	2997	04-19-25
New Jersey	NELAP	CA005	06-30-25
New York	NELAP	11666	04-01-25
Ohio	State	41252	01-29-25
Oregon	NELAP	4040	01-29-25
Texas	NELAP	T104704399-23-17	05-31-25
US Fish & Wildlife	US Federal Programs	A22139	04-30-25
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-25
Virginia	NELAP	460278	03-14-25
Washington	State	C581	05-05-25
West Virginia (DW)	State	9930C	01-31-25
Wisconsin	State	998204680	08-31-25
Wyoming	State Program	8TMS-L	01-28-19 *

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

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

Job ID: 570-211892-2

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CAL 4
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
SRL 524M	Volatile Organic Compounds (GC/MS)	CADHS	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
314.0 LL	Perchlorate (IC)	EPA	EET CAL 4
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
7470A	Mercury (CVAA)	SW846	EET CAL 4
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 4500 H+ B	pH	SM	EET CAL 4
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EET CAL 4
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7470A	Preparation, Mercury	SW846	EET CAL 4
SM 5540C	Preparation, Methylene Blue Active Substances (MBAS)	SM	EET CAL 4

Protocol References:

CADHS = California Department of Health Services

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110004

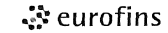
Job ID: 570-211892-2

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
570-211892-1	Zone #3 Explorer Well -452	Water	12/19/24 18:30	12/19/24 20:33

Eurofins Calscience

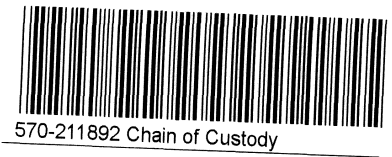
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494

Chain of Custody Record



Loc: 570
211892
Environmental

Client Information		Sampler: <i>Hilario Aguilar</i>		Lab PM: Nowak, Stephen		Carrier Tracking No(s):		COC No: 570-116855-24324.1		
Client Contact: Elizette Viramontes + <i>Tara Rolfe</i>		Phone: <i>(223) 533-2571</i>		E-Mail: Stephen.Nowak@et.eurofinsus.com		State of Origin: <i>CA</i>		Page: Page 1 of 1		
Company: Geosyntec Consultants Inc		PWSID:		Analysis Requested					Job #: <i>57022737</i>	
Address: 440 E. Huntington Drive Suite 425		Due Date Requested:							Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2320B - 2510B - 2540C - Calcd, 300_ORGFM_2BD, 300_ORGFMS, 314.0, SM4500_H+ 200.7, 7470A, SM2340B 8260B - Routine Volatiles List (Full Spike) CA_SRL_524M_SIM - CA SRL 524M 1,2,3-Trichloropropane 5540C - Methylene Blue Active Substances (MBAS) 624.1 - Routine No A/A No 2-CEVE (14-day HT) 1633 - EPA 1633 Method List	
City: Arcadia		TAT Requested (days): <i>5-day TAT</i>		Other:						
State, Zip: CA, 91006		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Special Instructions/Note:						
Phone: <i>(626) 788-4638</i>		PO #: Purchase Order Requested								
Email: Elizette.Viramontes@Geosyntec.com + <i>t.rolfe@geosyntec.com</i>		WFO #:								
Project Name: <i>HPA 110004</i>		Project #: 57022737								
Site: <i>Explorer Well</i>		SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:	
				Preservation Code:						
<i>Zone #3, Explorer Well - 452</i>		<i>12-19-21</i>	<i>1830</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>17</i>		
					<i>Water</i>					
					<i>Water</i>					
					<i>Water</i>					
					<i>Water</i>					
					<i>Water</i>					



Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>12-19-21/1845</i>		Company: <i>GSC</i>		Received by: <i>Tara Rolfe #9132</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>12/19/24 2033</i>		Company: <i>[Blank]</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

3 1/4 1 SC14

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Nowak, Stephen	Carrier Tracking No(s) N/A	COC No: 570-418936 1												
Client Contact: Shipping/Receiving		E-Mail: Stephen Nowak@et.eurofins.com	State of Origin: California	Page: Page 1 of 1												
Company: Eurofins Environment Testing Northern Ca		Job #: 570-211892-2														
Address: 880 Riverside Parkway, West Sacramento State, Zip: CA, 95605		Preservation Codes: -														
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	Due Date Requested: 1/2/2025	<table border="1"> <thead> <tr> <th colspan="2">Analysis Requested</th> <th>Total Number of containers</th> </tr> </thead> <tbody> <tr> <td>PO #: N/A</td> <td>TAT Requested (days): N/A</td> <td>3</td> </tr> <tr> <td>WO #: N/A</td> <td></td> <td></td> </tr> <tr> <td>Project #: HPA1104</td> <td></td> <td></td> </tr> </tbody> </table>			Analysis Requested		Total Number of containers	PO #: N/A	TAT Requested (days): N/A	3	WO #: N/A			Project #: HPA1104		
Analysis Requested					Total Number of containers											
PO #: N/A	TAT Requested (days): N/A				3											
WO #: N/A																
Project #: HPA1104																
Email: N/A																
Site: N/A																
Other: N/A																
Sample Identification - Client ID (Lab ID) Zone #3 Explorer Well -452 (570-211892-1)		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	Special Instructions/Note: _____												
Sample Date 12/19/24	Sample Time 18 30 Pacific	Sample Type G	Preservation Code: Water													
Matrix (Water, Swallow, On-water, AsAir)																

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by _____	Date/Time: 12-20 1530	Company EC	Method of Shipment
Relinquished by _____	Date/Time:	Company	Received by: _____ Date/Time: 12/19/24 9:05 Company: _____
Relinquished by _____	Date/Time:	Company	Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No _____
 Cooler Temperature(s) °C and Other Remarks: 1.16

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-211892-2

Login Number: 211892

List Source: Eurofins Calscience

List Number: 1

Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-211892-2

Login Number: 211892

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 12/21/24 02:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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

Attn: Elizette Viramontes
Geosyntec Consultants Inc
440 E. Huntington Drive
Suite 425
Arcadia, California 91006

Generated 2/13/2025 10:51:11 AM

JOB DESCRIPTION

HPA1104

JOB NUMBER

570-216434-2

Eurofins Calscience

Job Notes

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

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 Calscience Project Manager.

Authorization



Generated
2/13/2025 10:51:11 AM

Authorized for release by
Stephen Nowak, Project Manager I
Stephen.Nowak@et.eurofinsus.com
(714)895-5494



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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

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

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA1104

Job ID: 570-216434-2

Job ID: 570-216434-1

Eurofins Calscience

Job Narrative 570-216434-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 2/4/2025 12:18 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

Receipt Exceptions

The number of containers for the following sample did not match the information listed on the Chain-of-Custody (COC): Zone 2A-Explorer Well-502 (570-216434-1). Received 19 containers, while the COC lists 16.

GC/MS VOA

Method 624.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-530299. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-530300. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

HPLC/IC

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

Metals

Method 200.7 - Total Recoverable: The method blank for preparation batch 570-530008 and analytical batch 570-530795 contained Sodium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7470A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-530519 and analytical batch 570-530705 recovered outside control limits for the following analytes: Mercury.

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

General Chemistry

Method 5540C: Sample result concentrations for methylene blue active substances (MBAS) are calculated as LAS, mol. wt. 320.

Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Zone 2A-Explorer Well-502 (570-216434-1).

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

Eurofins Calscience

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA1104

Job ID: 570-216434-2

Job ID: 570-216434-2

Eurofins Calscience

Job Narrative 570-216434-2

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The sample was received on 2/4/2025 12:18 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

Receipt Exceptions

The number of containers for the following sample did not match the information listed on the Chain-of-Custody (COC): Zone 2A-Explorer Well-502 (570-216434-1). Received 19 containers, while the COC lists 16.

PFAS

Method 1633_Final: The continuing calibration verification (CCV) associated with batch 320-832831 recovered above the upper control limit for the following isotope dilution analyte (IDA): d3-NMeFOSAA. The associated target analyte, N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA), was within control limits in the CCV. The samples associated with this CCV were non-detect(s) for the affected target analyte(s); therefore, the data have been reported. The associated samples are impacted: Zone 2A-Explorer Well-502 (570-216434-1) and (CCV 320-832831/12).

Method 1633_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: Zone 2A-Explorer Well-502 (570-216434-1), (LCS 320-832350/3-A) and (LCSD 320-832350/4-A). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 1633_Final: The continuing calibration verification (CCV) associated with batch 320-833012 recovered above the upper control limit for the following isotope dilution analyte (IDA): 13C2 4:2 FTS. The associated target analyte, 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS), was within control limits in the CCV. The samples associated with this CCV were non-detect(s) for the affected target analyte(s); therefore, the data have been reported. The associated samples are impacted: Zone 2A-Explorer Well-502 (570-216434-1) and (CCV 320-833012/13).

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

Eurofins Calscience

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.62		0.50	0.45	ug/L	1		624.1	Total/NA
Carbon tetrachloride	0.54		0.50	0.37	ug/L	1		8260B	Total/NA
1,2,3-Trichloropropane	2.9	J	5.0	1.7	ng/L	1		SRL 524M	Total/NA
Chloride	7.3		1.0	0.36	mg/L	1		300.0	Total/NA
Nitrate as N	0.56		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate	14		1.0	0.18	mg/L	1		300.0	Total/NA
Perchlorate	1.7		1.0	0.39	ug/L	1		314.0 LL	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.87	J	3.2	0.81	ng/L	1		1633	Total/NA
Barium	0.0363		0.0100	0.000730	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.00190	J	0.0500	0.00159	mg/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	19.7		2.00	0.0839	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.0108	J	0.0500	0.00592	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	1.67		0.500	0.0559	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.0132		0.0100	0.00171	mg/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	5.32		0.500	0.0703	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.00770	J	0.250	0.00460	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0515		0.0500	0.00129	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	41.6	B	2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Hardness as calcium carbonate	71.0		7.05	0.499	mg/L	1		SM 2340B	Total Recoverable
Calcium hardness as calcium carbonate	49.1		4.99	0.209	mg/L	1		SM 2340B	Total Recoverable
Magnesium hardness as calcium carbonate	21.9		2.06	0.289	mg/L	1		SM 2340B	Total Recoverable
Alkalinity, Total (As CaCO3)	126		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	126		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Specific Conductance	304		1.00	1.00	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	179		10.0	8.35	mg/L	1		SM 2540C	Total/NA
pH	8.2	HF	0.01	0.01	S.U.	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			02/05/25 20:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			02/05/25 20:03	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			02/05/25 20:03	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			02/05/25 20:03	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			02/05/25 20:03	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			02/05/25 20:03	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			02/05/25 20:03	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			02/05/25 20:03	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			02/05/25 20:03	1
Benzene	ND		0.50	0.30	ug/L			02/05/25 20:03	1
Bromodichloromethane	ND		1.0	0.24	ug/L			02/05/25 20:03	1
Bromoform	ND		1.0	0.46	ug/L			02/05/25 20:03	1
Bromomethane	ND		5.0	3.7	ug/L			02/05/25 20:03	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			02/05/25 20:03	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			02/05/25 20:03	1
Carbon tetrachloride	0.62		0.50	0.45	ug/L			02/05/25 20:03	1
Chlorobenzene	ND		1.0	0.20	ug/L			02/05/25 20:03	1
Chloroethane	ND		1.0	0.54	ug/L			02/05/25 20:03	1
Chloroform	ND		1.0	0.26	ug/L			02/05/25 20:03	1
Chloromethane	ND		1.0	0.65	ug/L			02/05/25 20:03	1
Dibromochloromethane	ND		1.0	0.25	ug/L			02/05/25 20:03	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			02/05/25 20:03	1
Ethylbenzene	ND		1.0	0.23	ug/L			02/05/25 20:03	1
Methylene Chloride	ND		2.0	0.83	ug/L			02/05/25 20:03	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			02/05/25 20:03	1
o-Xylene	ND		1.0	0.24	ug/L			02/05/25 20:03	1
m,p-Xylene	ND		1.0	0.48	ug/L			02/05/25 20:03	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			02/05/25 20:03	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			02/05/25 20:03	1
Tetrachloroethene	ND		1.0	0.39	ug/L			02/05/25 20:03	1
Toluene	ND		1.0	0.19	ug/L			02/05/25 20:03	1
Trichloroethene	ND		1.0	0.41	ug/L			02/05/25 20:03	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			02/05/25 20:03	1
Vinyl chloride	ND		0.50	0.36	ug/L			02/05/25 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		60 - 140		02/05/25 20:03	1
4-Bromofluorobenzene (Surr)	104		60 - 140		02/05/25 20:03	1
Dibromofluoromethane (Surr)	96		60 - 140		02/05/25 20:03	1
Toluene-d8 (Surr)	103		60 - 140		02/05/25 20:03	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

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

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			02/05/25 20:03	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			02/05/25 20:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			02/05/25 20:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			02/05/25 20:03	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			02/05/25 20:03	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			02/05/25 20:03	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			02/05/25 20:03	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			02/05/25 20:03	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			02/05/25 20:03	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			02/05/25 20:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			02/05/25 20:03	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			02/05/25 20:03	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			02/05/25 20:03	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			02/05/25 20:03	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			02/05/25 20:03	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/25 20:03	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			02/05/25 20:03	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			02/05/25 20:03	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			02/05/25 20:03	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			02/05/25 20:03	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			02/05/25 20:03	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/05/25 20:03	1
2-Butanone (MEK)	ND		10	4.5	ug/L			02/05/25 20:03	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			02/05/25 20:03	1
2-Hexanone	ND		10	2.7	ug/L			02/05/25 20:03	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			02/05/25 20:03	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			02/05/25 20:03	1
Acetone	ND		10	7.4	ug/L			02/05/25 20:03	1
Benzene	ND		0.50	0.24	ug/L			02/05/25 20:03	1
Bromobenzene	ND		1.0	0.29	ug/L			02/05/25 20:03	1
Bromochloromethane	ND		2.0	0.38	ug/L			02/05/25 20:03	1
Bromodichloromethane	ND		1.0	0.29	ug/L			02/05/25 20:03	1
Bromoform	ND		5.0	1.9	ug/L			02/05/25 20:03	1
Bromomethane	ND		25	7.4	ug/L			02/05/25 20:03	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			02/05/25 20:03	1
cis-1,3-Dichloropropane	ND		0.50	0.26	ug/L			02/05/25 20:03	1
Carbon disulfide	ND		10	0.42	ug/L			02/05/25 20:03	1
Carbon tetrachloride	0.54		0.50	0.37	ug/L			02/05/25 20:03	1
Chlorobenzene	ND		1.0	0.26	ug/L			02/05/25 20:03	1
Chloroethane	ND		5.0	1.9	ug/L			02/05/25 20:03	1
Chloroform	ND		1.0	0.32	ug/L			02/05/25 20:03	1
Chloromethane	ND		10	2.2	ug/L			02/05/25 20:03	1
Dibromochloromethane	ND		2.0	0.37	ug/L			02/05/25 20:03	1
Dibromomethane	ND		1.0	0.33	ug/L			02/05/25 20:03	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			02/05/25 20:03	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/05/25 20:03	1
Isopropylbenzene	ND		1.0	0.41	ug/L			02/05/25 20:03	1
Methylene Chloride	ND		10	3.0	ug/L			02/05/25 20:03	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			02/05/25 20:03	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

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

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			02/05/25 20:03	1
n-Butylbenzene	ND		1.0	0.53	ug/L			02/05/25 20:03	1
N-Propylbenzene	ND		1.0	0.47	ug/L			02/05/25 20:03	1
o-Xylene	ND		1.0	0.27	ug/L			02/05/25 20:03	1
m,p-Xylene	ND		2.0	0.49	ug/L			02/05/25 20:03	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			02/05/25 20:03	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			02/05/25 20:03	1
Styrene	ND		1.0	0.38	ug/L			02/05/25 20:03	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			02/05/25 20:03	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			02/05/25 20:03	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			02/05/25 20:03	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/05/25 20:03	1
Toluene	ND		1.0	0.30	ug/L			02/05/25 20:03	1
Trichloroethene	ND		1.0	0.39	ug/L			02/05/25 20:03	1
Trichlorofluoromethane	ND		10	0.75	ug/L			02/05/25 20:03	1
Vinyl acetate	ND		10	5.0	ug/L			02/05/25 20:03	1
Vinyl chloride	ND		0.50	0.43	ug/L			02/05/25 20:03	1
Xylenes, Total	ND		2.0	0.49	ug/L			02/05/25 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 123		02/05/25 20:03	1
4-Bromofluorobenzene (Surr)	104		80 - 120		02/05/25 20:03	1
Dibromofluoromethane (Surr)	96		78 - 120		02/05/25 20:03	1
Toluene-d8 (Surr)	103		80 - 120		02/05/25 20:03	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: CADHS SRL 524M - Volatile Organic Compounds (GC/MS)

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	2.9	J	5.0	1.7	ng/L			02/05/25 12:48	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: EPA 300.0 - Anions, Ion Chromatography

Client Sample ID: Zone 2A-Explorer Well-502

Date Collected: 02/04/25 03:00

Date Received: 02/04/25 12:18

Lab Sample ID: 570-216434-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		1.0	0.36	mg/L			02/04/25 21:15	1
Nitrite as N	ND		0.10	0.091	mg/L			02/04/25 21:15	1
Nitrate as N	0.56		0.10	0.020	mg/L			02/04/25 21:15	1
Sulfate	14		1.0	0.18	mg/L			02/04/25 21:15	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: EPA 314.0 LL - Perchlorate (IC)

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	1.7		1.0	0.39	ug/L			02/08/25 11:02	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Client Sample ID: Zone 2A-Explorer Well-502

Date Collected: 02/04/25 03:00

Date Received: 02/04/25 12:18

Lab Sample ID: 570-216434-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.2	0.81	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.45	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.6	0.47	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.66	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.43	ng/L		02/10/25 04:35	02/12/25 04:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.87	J	3.2	0.81	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.1	2.0	ng/L		02/10/25 04:35	02/12/25 04:58	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.1	2.0	ng/L		02/10/25 04:35	02/12/25 04:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.2	0.32	ng/L		02/10/25 04:35	02/12/25 04:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.58	ng/L		02/10/25 04:35	02/12/25 04:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.47	ng/L		02/10/25 04:35	02/12/25 04:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 04:58	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.2	0.81	ng/L		02/10/25 04:35	02/12/25 04:58	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.1	2.0	ng/L		02/10/25 04:35	02/12/25 04:58	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		8.1	2.0	ng/L		02/10/25 04:35	02/12/25 04:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	116		5 - 130	02/10/25 04:35	02/12/25 04:58	1
13C5 PFPeA	114		40 - 130	02/10/25 04:35	02/12/25 04:58	1
13C5 PFHxA	142	*5+	40 - 130	02/10/25 04:35	02/12/25 04:58	1
13C4 PFHpA	141	*5+	40 - 130	02/10/25 04:35	02/12/25 04:58	1
13C8 PFOA	115		40 - 130	02/10/25 04:35	02/12/25 04:58	1
13C9 PFNA	113		40 - 130	02/10/25 04:35	02/12/25 04:58	1
13C6 PFDA	105		40 - 130	02/10/25 04:35	02/12/25 04:58	1
13C7 PFUnA	96.6		30 - 130	02/10/25 04:35	02/12/25 04:58	1
13C2 PFDoA	97.7		10 - 130	02/10/25 04:35	02/12/25 04:58	1
13C2 PFTeDA	93.5		10 - 130	02/10/25 04:35	02/12/25 04:58	1
13C3 PFBS	107		40 - 135	02/10/25 04:35	02/12/25 04:58	1
13C3 PFHxS	116		40 - 130	02/10/25 04:35	02/12/25 04:58	1
13C8 PFOS	111		40 - 130	02/10/25 04:35	02/12/25 04:58	1
13C8 FOSA	109		40 - 130	02/10/25 04:35	02/12/25 04:58	1
d3-NMeFOSAA	115		40 - 170	02/10/25 04:35	02/12/25 04:58	1
d5-NEtFOSAA	110		25 - 135	02/10/25 04:35	02/12/25 04:58	1
13C2 6:2 FTS	88.0		40 - 200	02/10/25 04:35	02/12/25 04:58	1
13C3 HFPO-DA	127		40 - 130	02/10/25 04:35	02/12/25 04:58	1
d7-N-MeFOSE-M	116		10 - 130	02/10/25 04:35	02/12/25 04:58	1
d9-N-EtFOSE-M	109		10 - 130	02/10/25 04:35	02/12/25 04:58	1
d5-NEtPFOSA	93.4		10 - 130	02/10/25 04:35	02/12/25 04:58	1
d3-NMePFOSA	100		10 - 130	02/10/25 04:35	02/12/25 04:58	1

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Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA1104

Job ID: 570-216434-2

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.2	0.81	ng/L		02/10/25 04:35	02/12/25 13:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.2	0.81	ng/L		02/10/25 04:35	02/12/25 13:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 4:2 FTS	138		40 - 200				02/10/25 04:35	02/12/25 13:06	1
13C2 8:2 FTS	108		40 - 300				02/10/25 04:35	02/12/25 13:06	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA1104

Job ID: 570-216434-2

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Zone 2A-Explorer Well-502

Date Collected: 02/04/25 03:00

Date Received: 02/04/25 12:18

Lab Sample ID: 570-216434-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.100	0.0147	mg/L		02/05/25 05:49	02/05/25 22:21	1
Arsenic	ND		0.100	0.00965	mg/L		02/05/25 05:49	02/06/25 13:43	1
Barium	0.0363		0.0100	0.000730	mg/L		02/05/25 05:49	02/06/25 13:43	1
Beryllium	ND		0.0100	0.000660	mg/L		02/05/25 05:49	02/06/25 13:43	1
Cadmium	ND		0.0100	0.000450	mg/L		02/05/25 05:49	02/06/25 13:43	1
Chromium	ND		0.0500	0.00300	mg/L		02/05/25 05:49	02/06/25 13:43	1
Cobalt	ND		0.0500	0.00125	mg/L		02/05/25 05:49	02/06/25 13:43	1
Copper	0.00190	J	0.0500	0.00159	mg/L		02/05/25 05:49	02/06/25 13:43	1
Calcium	19.7		2.00	0.0839	mg/L		02/05/25 05:49	02/06/25 13:43	1
Lead	ND		0.0500	0.00598	mg/L		02/05/25 05:49	02/06/25 13:43	1
Molybdenum	0.0108	J	0.0500	0.00592	mg/L		02/05/25 05:49	02/06/25 13:43	1
Nickel	ND		0.0500	0.00146	mg/L		02/05/25 05:49	02/06/25 13:43	1
Selenium	ND		0.100	0.0118	mg/L		02/05/25 05:49	02/06/25 13:43	1
Iron	1.67		0.500	0.0559	mg/L		02/05/25 05:49	02/06/25 13:43	1
Silver	ND		0.0100	0.00340	mg/L		02/05/25 05:49	02/06/25 13:43	1
Thallium	ND		0.0500	0.00863	mg/L		02/05/25 05:49	02/06/25 13:43	1
Vanadium	0.0132		0.0100	0.00171	mg/L		02/05/25 05:49	02/06/25 13:43	1
Magnesium	5.32		0.500	0.0703	mg/L		02/05/25 05:49	02/06/25 13:43	1
Zinc	0.00770	J	0.250	0.00460	mg/L		02/05/25 05:49	02/06/25 13:43	1
Manganese	0.0515		0.0500	0.00129	mg/L		02/05/25 05:49	02/06/25 13:43	1
Sodium	41.6	B	2.00	0.186	mg/L		02/05/25 05:49	02/06/25 13:43	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: Zone 2A-Explorer Well-502

Date Collected: 02/04/25 03:00

Date Received: 02/04/25 12:18

Lab Sample ID: 570-216434-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	*1	0.000200	0.000124	mg/L		02/06/25 00:35	02/06/25 10:08	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	71.0		7.05	0.499	mg/L			02/05/25 16:33	1
Calcium hardness as calcium carbonate	49.1		4.99	0.209	mg/L			02/05/25 16:33	1
Magnesium hardness as calcium carbonate	21.9		2.06	0.289	mg/L			02/05/25 16:33	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

General Chemistry

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	126		5.00	2.18	mg/L			02/05/25 17:31	1
Bicarbonate (as CaCO3) (SM 2320B)	126		5.00	2.18	mg/L			02/05/25 17:31	1
Carbonate (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			02/05/25 17:31	1
Hydroxide (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			02/05/25 17:31	1
Specific Conductance (SM 2510B)	304		1.00	1.00	umhos/cm			02/05/25 17:31	1
Total Dissolved Solids (SM 2540C)	179		10.0	8.35	mg/L			02/05/25 13:28	1
pH (SM 4500 H+ B)	8.2	HF	0.01	0.01	S.U.			02/05/25 17:31	1
MBAS (SM 5540C)	ND		0.200	0.0520	mg/L		02/04/25 19:19	02/04/25 19:41	1

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(60-140)	(60-140)	(60-140)	(60-140)
570-216434-1	Zone 2A-Explorer Well-502	97	104	96	103
LCS 570-530299/1002	Lab Control Sample	102	100	100	100
LCSD 570-530299/3	Lab Control Sample Dup	100	100	97	100
MB 570-530299/6	Method Blank	97	106	101	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(70-123)	(80-120)	(78-120)	(80-120)
570-216434-1	Zone 2A-Explorer Well-502	97	104	96	103
LCS 570-530300/1002	Lab Control Sample	102	100	100	100
LCSD 570-530300/3	Lab Control Sample Dup	100	100	97	100
MB 570-530300/6	Method Blank	97	106	101	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
570-216434-1	Zone 2A-Explorer Well-502	116	114	142 *5+	141 *5+	115	113	105	96.6
LCS 320-832350/3-A	Lab Control Sample	118	112	114	132 *5+	117	119	97.6	99.1
LCS 320-832350/4-A	Lab Control Sample Dup	126	108	131 *5+	136 *5+	111	125	105	100
LLCS 320-832350/2-A	Lab Control Sample	119	96.9	116	121	117	111	108	95.8
MB 320-832350/1-A	Method Blank	117	93.4	108	116	112	114	99.9	93.2

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
570-216434-1	Zone 2A-Explorer Well-502	97.7	93.5	107	116	111	109	115	110
LCS 320-832350/3-A	Lab Control Sample	90.1	80.5	115	114	108	102	107	103
LCS 320-832350/4-A	Lab Control Sample Dup	101	86.0	108	114	114	107	115	114
LLCS 320-832350/2-A	Lab Control Sample	96.0	81.1	106	119	117	101	115	106
MB 320-832350/1-A	Method Blank	90.3	78.7	97.7	108	111	97.5	105	101

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (40-200)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
570-216434-1	Zone 2A-Explorer Well-502	88.0	127	116	109	93.4	100
LCS 320-832350/3-A	Lab Control Sample	83.9	113	114	108	80.3	77.9
LCS 320-832350/4-A	Lab Control Sample Dup	86.4	124	125	119	91.7	95.5
LLCS 320-832350/2-A	Lab Control Sample	90.6	116	116	108	83.1	88.2
MB 320-832350/1-A	Method Blank	80.2	103	108	109	88.6	89.6

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M262FTS = 13C2 6:2 FTS
- HFPODA = 13C3 HFPO-DA
- NMFM = d7-N-MeFOSE-M
- NEFM = d9-N-EtFOSE-M
- d5NPFSA = d5-NEtPFOSA
- d3NMFSA = d3-NMePFOSA

Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M242FTS (40-200)	M282FTS (40-300)
570-216434-1 - RA	Zone 2A-Explorer Well-502	138	108
LCS 320-832350/3-A - RA	Lab Control Sample	126	122
LCSD 320-832350/4-A - RA	Lab Control Sample Dup	125	113
LLCS 320-832350/2-A - RA	Lab Control Sample	143	107
MB 320-832350/1-A - RA	Method Blank	123	105

Surrogate Legend

M242FTS = 13C2 4:2 FTS

M282FTS = 13C2 8:2 FTS

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-530299/6
Matrix: Water
Analysis Batch: 530299

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			02/05/25 18:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			02/05/25 18:22	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			02/05/25 18:22	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			02/05/25 18:22	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			02/05/25 18:22	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			02/05/25 18:22	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			02/05/25 18:22	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			02/05/25 18:22	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			02/05/25 18:22	1
Benzene	ND		0.50	0.30	ug/L			02/05/25 18:22	1
Bromodichloromethane	ND		1.0	0.24	ug/L			02/05/25 18:22	1
Bromoform	ND		1.0	0.46	ug/L			02/05/25 18:22	1
Bromomethane	ND		5.0	3.7	ug/L			02/05/25 18:22	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			02/05/25 18:22	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			02/05/25 18:22	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			02/05/25 18:22	1
Chlorobenzene	ND		1.0	0.20	ug/L			02/05/25 18:22	1
Chloroethane	ND		1.0	0.54	ug/L			02/05/25 18:22	1
Chloroform	ND		1.0	0.26	ug/L			02/05/25 18:22	1
Chloromethane	ND		1.0	0.65	ug/L			02/05/25 18:22	1
Dibromochloromethane	ND		1.0	0.25	ug/L			02/05/25 18:22	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			02/05/25 18:22	1
Ethylbenzene	ND		1.0	0.23	ug/L			02/05/25 18:22	1
Methylene Chloride	ND		2.0	0.83	ug/L			02/05/25 18:22	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			02/05/25 18:22	1
o-Xylene	ND		1.0	0.24	ug/L			02/05/25 18:22	1
m,p-Xylene	ND		1.0	0.48	ug/L			02/05/25 18:22	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			02/05/25 18:22	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			02/05/25 18:22	1
Tetrachloroethene	ND		1.0	0.39	ug/L			02/05/25 18:22	1
Toluene	ND		1.0	0.19	ug/L			02/05/25 18:22	1
Trichloroethene	ND		1.0	0.41	ug/L			02/05/25 18:22	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			02/05/25 18:22	1
Vinyl chloride	ND		0.50	0.36	ug/L			02/05/25 18:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		60 - 140		02/05/25 18:22	1
4-Bromofluorobenzene (Surr)	106		60 - 140		02/05/25 18:22	1
Dibromofluoromethane (Surr)	101		60 - 140		02/05/25 18:22	1
Toluene-d8 (Surr)	104		60 - 140		02/05/25 18:22	1

Lab Sample ID: LCS 570-530299/1002
Matrix: Water
Analysis Batch: 530299

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	20.0	19.93		ug/L		100	60 - 140

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-530299/1002
Matrix: Water
Analysis Batch: 530299

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	21.36		ug/L		107	70 - 130
1,1-Dichloroethene	20.0	21.04		ug/L		105	50 - 150
1,2-Dichlorobenzene	20.0	20.48		ug/L		102	65 - 135
1,2-Dichloroethane	20.0	20.16		ug/L		101	70 - 130
1,2-Dichloropropane	20.0	20.00		ug/L		100	35 - 165
1,3-Dichlorobenzene	20.0	20.40		ug/L		102	70 - 130
1,4-Dichlorobenzene	20.0	20.95		ug/L		105	65 - 135
Benzene	20.0	20.94		ug/L		105	65 - 135
Bromodichloromethane	20.0	20.21		ug/L		101	65 - 135
Bromoform	20.0	20.43		ug/L		102	70 - 130
Bromomethane	20.0	16.67		ug/L		83	15 - 185
cis-1,2-Dichloroethene	20.0	21.01		ug/L		105	60 - 140
cis-1,3-Dichloropropene	20.0	19.99		ug/L		100	25 - 175
Carbon tetrachloride	20.0	21.32		ug/L		107	70 - 130
Chlorobenzene	20.0	20.51		ug/L		103	65 - 135
Chloroethane	20.0	18.45		ug/L		92	40 - 160
Chloroform	20.0	20.05		ug/L		100	70 - 135
Chloromethane	20.0	17.58		ug/L		88	1 - 205
Dibromochloromethane	20.0	20.41		ug/L		102	70 - 135
Dichlorodifluoromethane	20.0	18.07		ug/L		90	60 - 140
Ethylbenzene	20.0	20.81		ug/L		104	60 - 140
Methylene Chloride	20.0	20.14		ug/L		101	60 - 140
Methyl-t-Butyl Ether (MTBE)	20.0	20.05		ug/L		100	60 - 140
o-Xylene	20.0	20.96		ug/L		105	60 - 140
m,p-Xylene	40.0	41.67		ug/L		104	60 - 140
trans-1,2-Dichloroethene	20.0	21.06		ug/L		105	70 - 130
trans-1,3-Dichloropropene	20.0	21.26		ug/L		106	50 - 150
Tetrachloroethene	20.0	20.22		ug/L		101	70 - 130
Toluene	20.0	20.94		ug/L		105	70 - 130
Trichloroethene	20.0	20.44		ug/L		102	65 - 135
Trichlorofluoromethane	20.0	18.82		ug/L		94	50 - 150
Vinyl chloride	20.0	17.66		ug/L		88	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
4-Bromofluorobenzene (Surr)	100		60 - 140
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	100		60 - 140

Lab Sample ID: LCSD 570-530299/3
Matrix: Water
Analysis Batch: 530299

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
1,1,1-Trichloroethane	20.0	20.37		ug/L		102	70 - 130	3	36
1,1,1,2,2-Tetrachloroethane	20.0	19.78		ug/L		99	60 - 140	1	61
1,1-Dichloroethane	20.0	20.00		ug/L		100	70 - 130	7	40
1,1-Dichloroethene	20.0	19.97		ug/L		100	50 - 150	5	32

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-530299/3
Matrix: Water
Analysis Batch: 530299

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
1,2-Dichlorobenzene	20.0	20.52		ug/L		103	65 - 135	0	57
1,2-Dichloroethane	20.0	19.28		ug/L		96	70 - 130	4	49
1,2-Dichloropropane	20.0	19.53		ug/L		98	35 - 165	2	55
1,3-Dichlorobenzene	20.0	20.17		ug/L		101	70 - 130	1	43
1,4-Dichlorobenzene	20.0	20.48		ug/L		102	65 - 135	2	57
Benzene	20.0	19.94		ug/L		100	65 - 135	5	61
Bromodichloromethane	20.0	20.04		ug/L		100	65 - 135	1	56
Bromoform	20.0	20.50		ug/L		103	70 - 130	0	42
Bromomethane	20.0	17.31		ug/L		87	15 - 185	4	61
cis-1,2-Dichloroethene	20.0	19.74		ug/L		99	60 - 140	6	30
cis-1,3-Dichloropropene	20.0	19.68		ug/L		98	25 - 175	2	58
Carbon tetrachloride	20.0	19.76		ug/L		99	70 - 130	8	41
Chlorobenzene	20.0	19.73		ug/L		99	65 - 135	4	53
Chloroethane	20.0	17.53		ug/L		88	40 - 160	5	78
Chloroform	20.0	19.40		ug/L		97	70 - 135	3	30
Chloromethane	20.0	16.88		ug/L		84	1 - 205	4	60
Dibromochloromethane	20.0	19.82		ug/L		99	70 - 135	3	50
Dichlorodifluoromethane	20.0	17.28		ug/L		86	60 - 140	4	30
Ethylbenzene	20.0	20.28		ug/L		101	60 - 140	3	63
Methylene Chloride	20.0	19.29		ug/L		96	60 - 140	4	28
Methyl-t-Butyl Ether (MTBE)	20.0	19.58		ug/L		98	60 - 140	2	30
o-Xylene	20.0	19.98		ug/L		100	60 - 140	5	30
m,p-Xylene	40.0	39.81		ug/L		100	60 - 140	5	30
trans-1,2-Dichloroethene	20.0	19.22		ug/L		96	70 - 130	9	45
trans-1,3-Dichloropropene	20.0	20.46		ug/L		102	50 - 150	4	86
Tetrachloroethene	20.0	19.61		ug/L		98	70 - 130	3	39
Toluene	20.0	19.89		ug/L		99	70 - 130	5	41
Trichloroethene	20.0	20.20		ug/L		101	65 - 135	1	48
Trichlorofluoromethane	20.0	17.46		ug/L		87	50 - 150	7	84
Vinyl chloride	20.0	16.88		ug/L		84	5 - 195	5	66

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
4-Bromofluorobenzene (Surr)	100		60 - 140
Dibromofluoromethane (Surr)	97		60 - 140
Toluene-d8 (Surr)	100		60 - 140

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

Lab Sample ID: MB 570-530300/6
Matrix: Water
Analysis Batch: 530300

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			02/05/25 18:22	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			02/05/25 18:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			02/05/25 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			02/05/25 18:22	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			02/05/25 18:22	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

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

Lab Sample ID: MB 570-530300/6
Matrix: Water
Analysis Batch: 530300

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.34	ug/L			02/05/25 18:22	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			02/05/25 18:22	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			02/05/25 18:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			02/05/25 18:22	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			02/05/25 18:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			02/05/25 18:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			02/05/25 18:22	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			02/05/25 18:22	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			02/05/25 18:22	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			02/05/25 18:22	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/05/25 18:22	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			02/05/25 18:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			02/05/25 18:22	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			02/05/25 18:22	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			02/05/25 18:22	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			02/05/25 18:22	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/05/25 18:22	1
2-Butanone (MEK)	ND		10	4.5	ug/L			02/05/25 18:22	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			02/05/25 18:22	1
2-Hexanone	ND		10	2.7	ug/L			02/05/25 18:22	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			02/05/25 18:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			02/05/25 18:22	1
Acetone	ND		10	7.4	ug/L			02/05/25 18:22	1
Benzene	ND		0.50	0.24	ug/L			02/05/25 18:22	1
Bromobenzene	ND		1.0	0.29	ug/L			02/05/25 18:22	1
Bromochloromethane	ND		2.0	0.38	ug/L			02/05/25 18:22	1
Bromodichloromethane	ND		1.0	0.29	ug/L			02/05/25 18:22	1
Bromoform	ND		5.0	1.9	ug/L			02/05/25 18:22	1
Bromomethane	ND		25	7.4	ug/L			02/05/25 18:22	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			02/05/25 18:22	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			02/05/25 18:22	1
Carbon disulfide	ND		10	0.42	ug/L			02/05/25 18:22	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			02/05/25 18:22	1
Chlorobenzene	ND		1.0	0.26	ug/L			02/05/25 18:22	1
Chloroethane	ND		5.0	1.9	ug/L			02/05/25 18:22	1
Chloroform	ND		1.0	0.32	ug/L			02/05/25 18:22	1
Chloromethane	ND		10	2.2	ug/L			02/05/25 18:22	1
Dibromochloromethane	ND		2.0	0.37	ug/L			02/05/25 18:22	1
Dibromomethane	ND		1.0	0.33	ug/L			02/05/25 18:22	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			02/05/25 18:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/05/25 18:22	1
Isopropylbenzene	ND		1.0	0.41	ug/L			02/05/25 18:22	1
Methylene Chloride	ND		10	3.0	ug/L			02/05/25 18:22	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			02/05/25 18:22	1
Naphthalene	ND		10	4.9	ug/L			02/05/25 18:22	1
n-Butylbenzene	ND		1.0	0.53	ug/L			02/05/25 18:22	1
N-Propylbenzene	ND		1.0	0.47	ug/L			02/05/25 18:22	1
o-Xylene	ND		1.0	0.27	ug/L			02/05/25 18:22	1
m,p-Xylene	ND		2.0	0.49	ug/L			02/05/25 18:22	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

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

Lab Sample ID: MB 570-530300/6
Matrix: Water
Analysis Batch: 530300

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	ND		1.0	0.47	ug/L			02/05/25 18:22	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			02/05/25 18:22	1
Styrene	ND		1.0	0.38	ug/L			02/05/25 18:22	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			02/05/25 18:22	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			02/05/25 18:22	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			02/05/25 18:22	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/05/25 18:22	1
Toluene	ND		1.0	0.30	ug/L			02/05/25 18:22	1
Trichloroethene	ND		1.0	0.39	ug/L			02/05/25 18:22	1
Trichlorofluoromethane	ND		10	0.75	ug/L			02/05/25 18:22	1
Vinyl acetate	ND		10	5.0	ug/L			02/05/25 18:22	1
Vinyl chloride	ND		0.50	0.43	ug/L			02/05/25 18:22	1
Xylenes, Total	ND		2.0	0.49	ug/L			02/05/25 18:22	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		70 - 123		02/05/25 18:22	1
4-Bromofluorobenzene (Surr)	106		80 - 120		02/05/25 18:22	1
Dibromofluoromethane (Surr)	101		78 - 120		02/05/25 18:22	1
Toluene-d8 (Surr)	104		80 - 120		02/05/25 18:22	1

Lab Sample ID: LCS 570-530300/1002
Matrix: Water
Analysis Batch: 530300

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	20.0	21.40		ug/L		107	80 - 122
1,1,1-Trichloroethane	20.0	21.37		ug/L		107	78 - 125
1,1,2,2-Tetrachloroethane	20.0	19.93		ug/L		100	79 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.58		ug/L		103	72 - 138
1,1,2-Trichloroethane	20.0	20.02		ug/L		100	80 - 124
1,1-Dichloroethane	20.0	21.36		ug/L		107	80 - 127
1,1-Dichloroethene	20.0	21.04		ug/L		105	80 - 133
1,1-Dichloropropene	20.0	20.85		ug/L		104	79 - 126
1,2,3-Trichlorobenzene	20.0	18.12		ug/L		91	79 - 128
1,2,3-Trichloropropane	20.0	20.44		ug/L		102	71 - 128
1,2,4-Trichlorobenzene	20.0	20.40		ug/L		102	77 - 126
1,2,4-Trimethylbenzene	20.0	21.39		ug/L		107	80 - 121
1,2-Dibromo-3-Chloropropane	20.0	18.60		ug/L		93	66 - 122
1,2-Dibromoethane	20.0	19.99		ug/L		100	80 - 120
1,2-Dichlorobenzene	20.0	20.48		ug/L		102	80 - 121
1,2-Dichloroethane	20.0	20.16		ug/L		101	77 - 122
1,2-Dichloropropane	20.0	20.00		ug/L		100	80 - 122
1,3,5-Trimethylbenzene	20.0	21.27		ug/L		106	80 - 123
1,3-Dichlorobenzene	20.0	20.40		ug/L		102	80 - 120
1,3-Dichloropropane	20.0	19.16		ug/L		96	80 - 121
1,4-Dichlorobenzene	20.0	20.95		ug/L		105	80 - 120
2,2-Dichloropropane	20.0	22.21		ug/L		111	68 - 143
2-Butanone (MEK)	20.0	18.61		ug/L		93	61 - 139

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

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

Lab Sample ID: LCS 570-530300/1002

Matrix: Water

Analysis Batch: 530300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chlorotoluene	20.0	19.94		ug/L		100	80 - 121
2-Hexanone	20.0	19.35		ug/L		97	63 - 134
4-Chlorotoluene	20.0	21.27		ug/L		106	80 - 121
4-Methyl-2-pentanone (MIBK)	20.0	19.90		ug/L		100	67 - 125
Acetone	20.0	19.38		ug/L		97	45 - 150
Benzene	20.0	20.94		ug/L		105	80 - 121
Bromobenzene	20.0	20.58		ug/L		103	80 - 120
Bromochloromethane	20.0	20.56		ug/L		103	80 - 121
Bromodichloromethane	20.0	20.21		ug/L		101	80 - 121
Bromoform	20.0	20.69		ug/L		103	78 - 124
Bromomethane	20.0	17.02	J	ug/L		85	48 - 156
cis-1,2-Dichloroethene	20.0	21.01		ug/L		105	80 - 125
cis-1,3-Dichloropropene	20.0	21.07		ug/L		105	80 - 120
Carbon disulfide	20.0	21.03		ug/L		105	76 - 129
Carbon tetrachloride	20.0	22.75		ug/L		114	71 - 137
Chlorobenzene	20.0	20.51		ug/L		103	80 - 120
Chloroethane	20.0	19.23		ug/L		96	73 - 138
Chloroform	20.0	20.05		ug/L		100	80 - 121
Chloromethane	20.0	17.58		ug/L		88	57 - 138
Dibromochloromethane	20.0	20.62		ug/L		103	80 - 126
Dibromomethane	20.0	21.76		ug/L		109	80 - 120
Dichlorodifluoromethane	20.0	18.07		ug/L		90	44 - 148
Ethylbenzene	20.0	20.81		ug/L		104	80 - 121
Isopropylbenzene	20.0	20.52		ug/L		103	80 - 121
Methylene Chloride	20.0	20.14		ug/L		101	80 - 121
Methyl-t-Butyl Ether (MTBE)	20.0	20.93		ug/L		105	78 - 123
Naphthalene	20.0	19.68		ug/L		98	65 - 133
n-Butylbenzene	20.0	21.30		ug/L		107	80 - 125
N-Propylbenzene	20.0	20.76		ug/L		104	80 - 125
o-Xylene	20.0	20.96		ug/L		105	80 - 122
m,p-Xylene	40.0	41.67		ug/L		104	80 - 123
p-Isopropyltoluene	20.0	20.19		ug/L		101	80 - 124
sec-Butylbenzene	20.0	21.39		ug/L		107	80 - 122
Styrene	20.0	20.22		ug/L		101	80 - 120
trans-1,2-Dichloroethene	20.0	21.06		ug/L		105	80 - 122
trans-1,3-Dichloropropene	20.0	21.30		ug/L		107	80 - 125
tert-Butylbenzene	20.0	20.20		ug/L		101	80 - 122
Tetrachloroethene	20.0	20.22		ug/L		101	80 - 122
Toluene	20.0	20.94		ug/L		105	80 - 120
Trichloroethene	20.0	20.44		ug/L		102	80 - 120
Trichlorofluoromethane	20.0	18.82		ug/L		94	67 - 142
Vinyl acetate	20.0	20.11		ug/L		101	62 - 140
Vinyl chloride	20.0	17.66		ug/L		88	66 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 123
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	100		78 - 120

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

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

Lab Sample ID: LCS 570-530300/1002
Matrix: Water
Analysis Batch: 530300

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 570-530300/3
Matrix: Water
Analysis Batch: 530300

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
1,1,1,2-Tetrachloroethane	20.0	20.46		ug/L		102	80 - 122	5	20
1,1,1-Trichloroethane	20.0	20.76		ug/L		104	78 - 125	3	20
1,1,2,2-Tetrachloroethane	20.0	19.78		ug/L		99	79 - 127	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.15		ug/L		96	72 - 138	7	20
1,1,2-Trichloroethane	20.0	20.04		ug/L		100	80 - 124	0	20
1,1-Dichloroethane	20.0	20.00		ug/L		100	80 - 127	7	20
1,1-Dichloroethene	20.0	19.97		ug/L		100	80 - 133	5	20
1,1-Dichloropropene	20.0	19.88		ug/L		99	79 - 126	5	20
1,2,3-Trichlorobenzene	20.0	18.82		ug/L		94	79 - 128	4	20
1,2,3-Trichloropropane	20.0	19.66		ug/L		98	71 - 128	4	20
1,2,4-Trichlorobenzene	20.0	20.23		ug/L		101	77 - 126	1	20
1,2,4-Trimethylbenzene	20.0	20.91		ug/L		105	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	20.0	18.22		ug/L		91	66 - 122	2	20
1,2-Dibromoethane	20.0	19.49		ug/L		97	80 - 120	3	20
1,2-Dichlorobenzene	20.0	20.52		ug/L		103	80 - 121	0	20
1,2-Dichloroethane	20.0	19.28		ug/L		96	77 - 122	4	20
1,2-Dichloropropane	20.0	19.53		ug/L		98	80 - 122	2	20
1,3,5-Trimethylbenzene	20.0	20.41		ug/L		102	80 - 123	4	20
1,3-Dichlorobenzene	20.0	20.17		ug/L		101	80 - 120	1	20
1,3-Dichloropropane	20.0	18.87		ug/L		94	80 - 121	2	20
1,4-Dichlorobenzene	20.0	20.48		ug/L		102	80 - 120	2	20
2,2-Dichloropropane	20.0	20.95		ug/L		105	68 - 143	6	20
2-Butanone (MEK)	20.0	17.98		ug/L		90	61 - 139	3	25
2-Chlorotoluene	20.0	19.93		ug/L		100	80 - 121	0	20
2-Hexanone	20.0	18.85		ug/L		94	63 - 134	3	21
4-Chlorotoluene	20.0	20.93		ug/L		105	80 - 121	2	20
4-Methyl-2-pentanone (MIBK)	20.0	18.47		ug/L		92	67 - 125	7	20
Acetone	20.0	17.60		ug/L		88	45 - 150	10	23
Benzene	20.0	19.94		ug/L		100	80 - 121	5	20
Bromobenzene	20.0	19.58		ug/L		98	80 - 120	5	20
Bromochloromethane	20.0	19.49		ug/L		97	80 - 121	5	20
Bromodichloromethane	20.0	20.04		ug/L		100	80 - 121	1	20
Bromoform	20.0	20.76		ug/L		104	78 - 124	0	20
Bromomethane	20.0	17.67	J	ug/L		88	48 - 156	4	21
cis-1,2-Dichloroethene	20.0	19.74		ug/L		99	80 - 125	6	20
cis-1,3-Dichloropropene	20.0	20.77		ug/L		104	80 - 120	1	20
Carbon disulfide	20.0	19.78		ug/L		99	76 - 129	6	20
Carbon tetrachloride	20.0	21.12		ug/L		106	71 - 137	7	20
Chlorobenzene	20.0	19.73		ug/L		99	80 - 120	4	20
Chloroethane	20.0	18.27		ug/L		91	73 - 138	5	20
Chloroform	20.0	19.40		ug/L		97	80 - 121	3	20

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

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

Lab Sample ID: LCSD 570-530300/3
Matrix: Water
Analysis Batch: 530300

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
Chloromethane	20.0	16.88		ug/L		84	57 - 138	4	20
Dibromochloromethane	20.0	20.04		ug/L		100	80 - 126	3	20
Dibromomethane	20.0	19.85		ug/L		99	80 - 120	9	20
Dichlorodifluoromethane	20.0	17.28		ug/L		86	44 - 148	4	28
Ethylbenzene	20.0	20.28		ug/L		101	80 - 121	3	20
Isopropylbenzene	20.0	19.74		ug/L		99	80 - 121	4	20
Methylene Chloride	20.0	19.29		ug/L		96	80 - 121	4	20
Methyl-t-Butyl Ether (MTBE)	20.0	20.48		ug/L		102	78 - 123	2	20
Naphthalene	20.0	19.69		ug/L		98	65 - 133	0	20
n-Butylbenzene	20.0	20.72		ug/L		104	80 - 125	3	20
N-Propylbenzene	20.0	19.87		ug/L		99	80 - 125	4	20
o-Xylene	20.0	19.98		ug/L		100	80 - 122	5	20
m,p-Xylene	40.0	39.81		ug/L		100	80 - 123	5	20
p-Isopropyltoluene	20.0	19.75		ug/L		99	80 - 124	2	20
sec-Butylbenzene	20.0	21.27		ug/L		106	80 - 122	1	20
Styrene	20.0	19.77		ug/L		99	80 - 120	2	20
trans-1,2-Dichloroethene	20.0	19.22		ug/L		96	80 - 122	9	20
trans-1,3-Dichloropropene	20.0	20.54		ug/L		103	80 - 125	4	20
tert-Butylbenzene	20.0	20.31		ug/L		102	80 - 122	1	20
Tetrachloroethene	20.0	19.61		ug/L		98	80 - 122	3	20
Toluene	20.0	19.89		ug/L		99	80 - 120	5	20
Trichloroethene	20.0	20.20		ug/L		101	80 - 120	1	20
Trichlorofluoromethane	20.0	17.46		ug/L		87	67 - 142	7	20
Vinyl acetate	20.0	19.54		ug/L		98	62 - 140	3	21
Vinyl chloride	20.0	16.88		ug/L		84	66 - 136	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 123
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	97		78 - 120
Toluene-d8 (Surr)	100		80 - 120

Method: SRL 524M - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-530002/4
Matrix: Water
Analysis Batch: 530002

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0	1.7	ng/L			02/05/25 07:23	1

Lab Sample ID: LCS 570-530002/5
Matrix: Water
Analysis Batch: 530002

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	5.00	5.305		ng/L		106	80 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: SRL 524M - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-530002/6
Matrix: Water
Analysis Batch: 530002

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
1,2,3-Trichloropropane	5.00	5.396		ng/L		108	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-529546/5
Matrix: Water
Analysis Batch: 529546

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.091	mg/L			02/04/25 06:24	1
Nitrate as N	ND		0.10	0.020	mg/L			02/04/25 06:24	1

Lab Sample ID: LCS 570-529546/6
Matrix: Water
Analysis Batch: 529546

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	2.50	2.461		mg/L		98	90 - 110
Nitrate as N	5.00	4.979		mg/L		100	90 - 110

Lab Sample ID: LCSD 570-529546/7
Matrix: Water
Analysis Batch: 529546

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	2.50	2.472		mg/L		99	90 - 110	0	15
Nitrate as N	5.00	4.969		mg/L		99	90 - 110	0	15

Lab Sample ID: 570-216434-1 MS
Matrix: Water
Analysis Batch: 529546

Client Sample ID: Zone 2A-Explorer Well-502
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	ND		2.50	2.579		mg/L		103	80 - 120
Nitrate as N	0.56		5.00	5.706		mg/L		103	80 - 120

Lab Sample ID: 570-216434-1 MSD
Matrix: Water
Analysis Batch: 529546

Client Sample ID: Zone 2A-Explorer Well-502
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	ND		2.50	2.592		mg/L		104	80 - 120	1	20
Nitrate as N	0.56		5.00	5.746		mg/L		104	80 - 120	1	20

Lab Sample ID: MB 570-529547/5
Matrix: Water
Analysis Batch: 529547

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			02/04/25 06:24	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 570-529547/5
Matrix: Water
Analysis Batch: 529547

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.0	0.18	mg/L			02/04/25 06:24	1

Lab Sample ID: LCS 570-529547/6
Matrix: Water
Analysis Batch: 529547

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.42		mg/L		101	90 - 110
Sulfate	50.0	48.75		mg/L		98	90 - 110

Lab Sample ID: LCSD 570-529547/7
Matrix: Water
Analysis Batch: 529547

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
Chloride	50.0	50.50		mg/L		101	90 - 110	0	15
Sulfate	50.0	48.85		mg/L		98	90 - 110	0	15

Lab Sample ID: 570-216434-1 MS
Matrix: Water
Analysis Batch: 529547

Client Sample ID: Zone 2A-Explorer Well-502
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.3		50.0	60.47		mg/L		106	80 - 120
Sulfate	14		50.0	66.54		mg/L		106	80 - 120

Lab Sample ID: 570-216434-1 MSD
Matrix: Water
Analysis Batch: 529547

Client Sample ID: Zone 2A-Explorer Well-502
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.3		50.0	60.85		mg/L		107	80 - 120	1	20
Sulfate	14		50.0	66.78		mg/L		106	80 - 120	0	20

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 570-531485/5
Matrix: Water
Analysis Batch: 531485

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0	0.39	ug/L			02/08/25 07:10	1

Lab Sample ID: LCS 570-531485/6
Matrix: Water
Analysis Batch: 531485

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	25.0	24.11		ug/L		96	85 - 115

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 314.0 LL - Perchlorate (IC) (Continued)

Lab Sample ID: LCSD 570-531485/7
Matrix: Water
Analysis Batch: 531485

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
Perchlorate	25.0	24.46		ug/L		98	85 - 115	1	15

Lab Sample ID: MRL 570-531485/3
Matrix: Water
Analysis Batch: 531485

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	1.00	1.153		ug/L		115	75 - 125

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-832350/1-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 832350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.58	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		02/10/25 04:35	02/12/25 03:52	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		02/10/25 04:35	02/12/25 03:52	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-832350/1-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 832350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		02/10/25 04:35	02/12/25 03:52	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.39	ng/L		02/10/25 04:35	02/12/25 03:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.72	ng/L		02/10/25 04:35	02/12/25 03:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.58	ng/L		02/10/25 04:35	02/12/25 03:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 03:52	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		02/10/25 04:35	02/12/25 03:52	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		02/10/25 04:35	02/12/25 03:52	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	117		5 - 130	02/10/25 04:35	02/12/25 03:52	1
13C5 PFPeA	93.4		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C5 PFHxA	108		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C4 PFHpA	116		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C8 PFOA	112		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C9 PFNA	114		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C6 PFDA	99.9		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C7 PFUnA	93.2		30 - 130	02/10/25 04:35	02/12/25 03:52	1
13C2 PFDoA	90.3		10 - 130	02/10/25 04:35	02/12/25 03:52	1
13C2 PFTeDA	78.7		10 - 130	02/10/25 04:35	02/12/25 03:52	1
13C3 PFBS	97.7		40 - 135	02/10/25 04:35	02/12/25 03:52	1
13C3 PFHxS	108		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C8 PFOS	111		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C8 FOSA	97.5		40 - 130	02/10/25 04:35	02/12/25 03:52	1
d3-NMeFOSAA	105		40 - 170	02/10/25 04:35	02/12/25 03:52	1
d5-NEtFOSAA	101		25 - 135	02/10/25 04:35	02/12/25 03:52	1
13C2 6:2 FTS	80.2		40 - 200	02/10/25 04:35	02/12/25 03:52	1
13C3 HFPO-DA	103		40 - 130	02/10/25 04:35	02/12/25 03:52	1
d7-N-MeFOSE-M	108		10 - 130	02/10/25 04:35	02/12/25 03:52	1
d9-N-EtFOSE-M	109		10 - 130	02/10/25 04:35	02/12/25 03:52	1
d5-NEtPFOSA	88.6		10 - 130	02/10/25 04:35	02/12/25 03:52	1
d3-NMePFOSA	89.6		10 - 130	02/10/25 04:35	02/12/25 03:52	1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-832350/3-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	63.35		ng/L		79	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	39.29		ng/L		98	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	38.91		ng/L		97	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	37.79		ng/L		94	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	32.82		ng/L		82	70 - 150
Perfluorononanoic acid (PFNA)	40.0	30.26		ng/L		76	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	36.22		ng/L		91	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	35.39		ng/L		88	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	37.99		ng/L		95	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	36.16		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	37.66		ng/L		94	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	34.37		ng/L		97	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	34.75		ng/L		92	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	31.57		ng/L		87	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	33.06		ng/L		87	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	30.97		ng/L		83	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	33.02		ng/L		86	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	33.82		ng/L		88	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	30.23		ng/L		78	50 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	68.80		ng/L		90	65 - 155
Perfluorooctanesulfonamide (PFOSA)	40.0	33.51		ng/L		84	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	35.29		ng/L		88	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	35.10		ng/L		88	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	34.99		ng/L		87	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	33.09		ng/L		83	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	152.4		ng/L		76	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	162.1		ng/L		81	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	23.62		ng/L		79	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	34.86		ng/L		92	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	39.20		ng/L		98	55 - 140

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-832350/3-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.68		ng/L		94	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	43.41		ng/L		109	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	31.48		ng/L		84	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	31.94		ng/L		85	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	31.45		ng/L		88	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	72.18		ng/L		90	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	184.8		ng/L		92	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	174.7		ng/L		87	50 - 145

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	118		5 - 130
13C5 PFPeA	112		40 - 130
13C5 PFHxA	114		40 - 130
13C4 PFHpA	132	*5+	40 - 130
13C8 PFOA	117		40 - 130
13C9 PFNA	119		40 - 130
13C6 PFDA	97.6		40 - 130
13C7 PFUnA	99.1		30 - 130
13C2 PFDoA	90.1		10 - 130
13C2 PFTeDA	80.5		10 - 130
13C3 PFBS	115		40 - 135
13C3 PFHxS	114		40 - 130
13C8 PFOS	108		40 - 130
13C8 FOSA	102		40 - 130
d3-NMeFOSAA	107		40 - 170
d5-NEtFOSAA	103		25 - 135
13C2 6:2 FTS	83.9		40 - 200
13C3 HFPO-DA	113		40 - 130
d7-N-MeFOSE-M	114		10 - 130
d9-N-EtFOSE-M	108		10 - 130
d5-NEtPFOSA	80.3		10 - 130
d3-NMePFOSA	77.9		10 - 130

Lab Sample ID: LCSD 320-832350/4-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	62.78		ng/L		78	70 - 140	1	30
Perfluoropentanoic acid (PFPeA)	40.0	39.90		ng/L		100	65 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	29.40		ng/L		74	70 - 145	28	30

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-832350/4-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Perfluoroheptanoic acid (PFHpA)	40.0	31.71		ng/L		79	70 - 150	17	30	
Perfluorooctanoic acid (PFOA)	40.0	32.97		ng/L		82	70 - 150	0	30	
Perfluorononanoic acid (PFNA)	40.0	30.45		ng/L		76	70 - 150	1	30	
Perfluorodecanoic acid (PFDA)	40.0	33.24		ng/L		83	70 - 140	9	30	
Perfluoroundecanoic acid (PFUnA)	40.0	34.85		ng/L		87	70 - 145	2	30	
Perfluorododecanoic acid (PFDoA)	40.0	35.39		ng/L		88	70 - 140	7	30	
Perfluorotridecanoic acid (PFTrDA)	40.0	34.18		ng/L		85	65 - 140	6	30	
Perfluorotetradecanoic acid (PFTeDA)	40.0	36.71		ng/L		92	60 - 140	3	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	33.20		ng/L		93	60 - 145	3	30	
Perfluoropentanesulfonic acid (PFPeS)	37.6	34.66		ng/L		92	65 - 140	0	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.03		ng/L		88	65 - 145	1	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	30.87		ng/L		81	70 - 150	7	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	28.54		ng/L		77	55 - 150	8	30	
Perfluorononanesulfonic acid (PFNS)	38.5	29.93		ng/L		78	65 - 145	10	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	31.09		ng/L		81	60 - 145	8	30	
Perfluorododecanesulfonic acid (PFDoS)	38.8	29.25		ng/L		75	50 - 145	3	30	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	62.16		ng/L		82	65 - 155	10	30	
Perfluorooctanesulfonamide (PFOSA)	40.0	32.27		ng/L		81	70 - 145	4	30	
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	33.23		ng/L		83	60 - 150	6	30	
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	35.43		ng/L		89	65 - 145	1	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	32.00		ng/L		80	50 - 140	9	30	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	31.81		ng/L		80	70 - 145	4	30	
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	142.1		ng/L		71	70 - 145	7	30	
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	146.6		ng/L		73	70 - 135	10	30	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	24.31		ng/L		81	70 - 140	3	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	30.52		ng/L		81	65 - 145	13	30	
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	39.28		ng/L		98	55 - 140	0	30	
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	40.08		ng/L		100	60 - 150	6	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	32.48		ng/L		81	50 - 150	29	30	

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-832350/4-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	29.76		ng/L		80	70 - 155	6	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	27.41		ng/L		73	55 - 160	15	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	30.78		ng/L		86	70 - 140	2	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	78.48		ng/L		98	65 - 130	8	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	155.8		ng/L		78	70 - 135	17	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	145.6		ng/L		73	50 - 145	18	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	126		5 - 130
13C5 PFPeA	108		40 - 130
13C5 PFHxA	131	*5+	40 - 130
13C4 PFHpA	136	*5+	40 - 130
13C8 PFOA	111		40 - 130
13C9 PFNA	125		40 - 130
13C6 PFDA	105		40 - 130
13C7 PFUnA	100		30 - 130
13C2 PFDoA	101		10 - 130
13C2 PFTeDA	86.0		10 - 130
13C3 PFBS	108		40 - 135
13C3 PFHxS	114		40 - 130
13C8 PFOS	114		40 - 130
13C8 FOSA	107		40 - 130
d3-NMeFOSAA	115		40 - 170
d5-NEtFOSAA	114		25 - 135
13C2 6:2 FTS	86.4		40 - 200
13C3 HFPO-DA	124		40 - 130
d7-N-MeFOSE-M	125		10 - 130
d9-N-EtFOSE-M	119		10 - 130
d5-NEtPFOSA	91.7		10 - 130
d3-NMePFOSA	95.5		10 - 130

Lab Sample ID: LLCS 320-832350/2-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	6.964		ng/L		87	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.497		ng/L		112	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	3.252		ng/L		81	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	3.855		ng/L		96	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	3.755		ng/L		94	70 - 150
Perfluorononanoic acid (PFNA)	4.00	3.802		ng/L		95	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.592		ng/L		90	70 - 140

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-832350/2-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	4.00	4.078		ng/L		102	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.883		ng/L		97	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	3.580		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.889		ng/L		97	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.775		ng/L		106	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.711		ng/L		99	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.613		ng/L		99	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.307		ng/L		87	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.256		ng/L		88	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.102		ng/L		81	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	2.960		ng/L		77	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.605		ng/L		67	50 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.484		ng/L		98	65 - 155
Perfluorooctanesulfonamide (PFOSA)	4.00	3.579		ng/L		89	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	3.616		ng/L		90	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	3.816		ng/L		95	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	3.460		ng/L		87	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.549		ng/L		89	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	15.46		ng/L		77	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	15.97		ng/L		80	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.563		ng/L		85	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.291		ng/L		87	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.762		ng/L		119	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.687		ng/L		117	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.925		ng/L		123	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.218		ng/L		86	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	2.793		ng/L		74	55 - 160

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-832350/2-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.463		ng/L		97	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	9.059		ng/L		113	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	17.67		ng/L		88	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	16.56		ng/L		83	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	119		5 - 130
13C5 PFPeA	96.9		40 - 130
13C5 PFHxA	116		40 - 130
13C4 PFHpA	121		40 - 130
13C8 PFOA	117		40 - 130
13C9 PFNA	111		40 - 130
13C6 PFDA	108		40 - 130
13C7 PFUnA	95.8		30 - 130
13C2 PFDoA	96.0		10 - 130
13C2 PFTeDA	81.1		10 - 130
13C3 PFBS	106		40 - 135
13C3 PFHxS	119		40 - 130
13C8 PFOS	117		40 - 130
13C8 FOSA	101		40 - 130
d3-NMeFOSAA	115		40 - 170
d5-NEtFOSAA	106		25 - 135
13C2 6:2 FTS	90.6		40 - 200
13C3 HFPO-DA	116		40 - 130
d7-N-MeFOSE-M	116		10 - 130
d9-N-EtFOSE-M	108		10 - 130
d5-NEtPFOSA	83.1		10 - 130
d3-NMePFOSA	88.2		10 - 130

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Lab Sample ID: MB 320-832350/1-A

Matrix: Water

Analysis Batch: 833012

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 832350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 12:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 12:01	1

Isotope Dilution	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
13C2 4:2 FTS - RA	123		40 - 200	02/10/25 04:35	02/12/25 12:01	1
13C2 8:2 FTS - RA	105		40 - 300	02/10/25 04:35	02/12/25 12:01	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Lab Sample ID: LCS 320-832350/3-A
Matrix: Water
Analysis Batch: 833012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	75.0	63.73		ng/L		85	70 - 145	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	76.8	59.81		ng/L		78	60 - 150	
LCS LCS								
Isotope Dilution	%Recovery	Qualifier	Limits					
13C2 4:2 FTS - RA	126		40 - 200					
13C2 8:2 FTS - RA	122		40 - 300					

Lab Sample ID: LCSD 320-832350/4-A
Matrix: Water
Analysis Batch: 833012

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	75.0	57.38		ng/L		76	70 - 145	10	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	76.8	66.07		ng/L		86	60 - 150	10	30	
LCSD LCSD										
Isotope Dilution	%Recovery	Qualifier	Limits							
13C2 4:2 FTS - RA	125		40 - 200							
13C2 8:2 FTS - RA	113		40 - 300							

Lab Sample ID: LLCS 320-832350/2-A
Matrix: Water
Analysis Batch: 833012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	7.50	6.306		ng/L		84	70 - 145	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	7.68	7.641		ng/L		99	60 - 150	
LLCS LLCS								
Isotope Dilution	%Recovery	Qualifier	Limits					
13C2 4:2 FTS - RA	143		40 - 200					
13C2 8:2 FTS - RA	107		40 - 300					

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-530008/1-A
Matrix: Water
Analysis Batch: 530690

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 530008

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		0.100	0.0147	mg/L		02/05/25 05:49	02/05/25 12:30	1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 570-530008/1-A
Matrix: Water
Analysis Batch: 530795

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 530008

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.100	0.00965	mg/L		02/05/25 05:49	02/06/25 13:27	1
Barium	ND		0.0100	0.000730	mg/L		02/05/25 05:49	02/06/25 13:27	1
Beryllium	ND		0.0100	0.000660	mg/L		02/05/25 05:49	02/06/25 13:27	1
Cadmium	ND		0.0100	0.000450	mg/L		02/05/25 05:49	02/06/25 13:27	1
Chromium	ND		0.0500	0.00300	mg/L		02/05/25 05:49	02/06/25 13:27	1
Cobalt	ND		0.0500	0.00125	mg/L		02/05/25 05:49	02/06/25 13:27	1
Copper	ND		0.0500	0.00159	mg/L		02/05/25 05:49	02/06/25 13:27	1
Calcium	ND		2.00	0.0839	mg/L		02/05/25 05:49	02/06/25 13:27	1
Lead	ND		0.0500	0.00598	mg/L		02/05/25 05:49	02/06/25 13:27	1
Molybdenum	ND		0.0500	0.00592	mg/L		02/05/25 05:49	02/06/25 13:27	1
Nickel	ND		0.0500	0.00146	mg/L		02/05/25 05:49	02/06/25 13:27	1
Selenium	ND		0.100	0.0118	mg/L		02/05/25 05:49	02/06/25 13:27	1
Iron	ND		0.500	0.0559	mg/L		02/05/25 05:49	02/06/25 13:27	1
Silver	ND		0.0100	0.00340	mg/L		02/05/25 05:49	02/06/25 13:27	1
Thallium	ND		0.0500	0.00863	mg/L		02/05/25 05:49	02/06/25 13:27	1
Vanadium	ND		0.0100	0.00171	mg/L		02/05/25 05:49	02/06/25 13:27	1
Magnesium	ND		0.500	0.0703	mg/L		02/05/25 05:49	02/06/25 13:27	1
Zinc	ND		0.250	0.00460	mg/L		02/05/25 05:49	02/06/25 13:27	1
Manganese	ND		0.0500	0.00129	mg/L		02/05/25 05:49	02/06/25 13:27	1
Sodium	0.2518	J	2.00	0.186	mg/L		02/05/25 05:49	02/06/25 13:27	1

Lab Sample ID: LCS 570-530008/2-A
Matrix: Water
Analysis Batch: 530690

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 530008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Antimony	0.500	0.4890		mg/L		98	85 - 115

Lab Sample ID: LCS 570-530008/2-A
Matrix: Water
Analysis Batch: 530795

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 530008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Arsenic	0.500	0.5027		mg/L		101	85 - 115
Barium	0.500	0.5023		mg/L		100	85 - 115
Beryllium	0.500	0.4999		mg/L		100	85 - 115
Cadmium	0.500	0.5027		mg/L		101	85 - 115
Chromium	0.500	0.5076		mg/L		102	85 - 115
Cobalt	0.500	0.5042		mg/L		101	85 - 115
Copper	0.500	0.5040		mg/L		101	85 - 115
Calcium	2.50	2.526		mg/L		101	85 - 115
Lead	0.500	0.5056		mg/L		101	85 - 115
Molybdenum	0.500	0.5001		mg/L		100	85 - 115
Nickel	0.500	0.4950		mg/L		99	85 - 115
Selenium	0.500	0.4959		mg/L		99	85 - 115
Iron	0.500	0.4795	J	mg/L		96	85 - 115
Silver	0.250	0.2480		mg/L		99	85 - 115
Thallium	0.500	0.5058		mg/L		101	85 - 115
Vanadium	0.500	0.5012		mg/L		100	85 - 115

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-530008/2-A
Matrix: Water
Analysis Batch: 530795

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 530008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	2.50	2.544		mg/L		102	85 - 115
Zinc	0.500	0.5048		mg/L		101	85 - 115
Manganese	0.500	0.5037		mg/L		101	85 - 115
Sodium	5.00	5.298		mg/L		106	85 - 115

Lab Sample ID: LCSD 570-530008/3-A
Matrix: Water
Analysis Batch: 530690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 530008

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.500	0.4917		mg/L		98	85 - 115	1	20

Lab Sample ID: LCSD 570-530008/3-A
Matrix: Water
Analysis Batch: 530795

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 530008

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.500	0.5086		mg/L		102	85 - 115	1	20
Barium	0.500	0.5077		mg/L		102	85 - 115	1	20
Beryllium	0.500	0.5051		mg/L		101	85 - 115	1	20
Cadmium	0.500	0.5089		mg/L		102	85 - 115	1	20
Chromium	0.500	0.5106		mg/L		102	85 - 115	1	20
Cobalt	0.500	0.5104		mg/L		102	85 - 115	1	20
Copper	0.500	0.5086		mg/L		102	85 - 115	1	20
Calcium	2.50	2.569		mg/L		103	85 - 115	2	20
Lead	0.500	0.5092		mg/L		102	85 - 115	1	20
Molybdenum	0.500	0.5037		mg/L		101	85 - 115	1	20
Nickel	0.500	0.5010		mg/L		100	85 - 115	1	20
Selenium	0.500	0.4969		mg/L		99	85 - 115	0	20
Iron	0.500	0.4914	J	mg/L		98	85 - 115	2	20
Silver	0.250	0.2511		mg/L		100	85 - 115	1	20
Thallium	0.500	0.5116		mg/L		102	85 - 115	1	20
Vanadium	0.500	0.5059		mg/L		101	85 - 115	1	20
Magnesium	2.50	2.555		mg/L		102	85 - 115	0	20
Zinc	0.500	0.5097		mg/L		102	85 - 115	1	20
Manganese	0.500	0.5090		mg/L		102	85 - 115	1	20
Sodium	5.00	5.350		mg/L		107	85 - 115	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 570-530519/1-A
Matrix: Water
Analysis Batch: 530705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		02/06/25 00:35	02/06/25 09:29	1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

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

Lab Sample ID: LCS 570-530519/2-A
Matrix: Water
Analysis Batch: 530705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00800	0.009576		mg/L		120	80 - 120

Lab Sample ID: LCSD 570-530519/3-A
Matrix: Water
Analysis Batch: 530705

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 530519

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00800	0.007352	*1	mg/L		92	80 - 120	26	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-530394/48
Matrix: Water
Analysis Batch: 530394

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		5.00	2.18	mg/L			02/05/25 17:24	1
Bicarbonate (as CaCO3)	ND		5.00	2.18	mg/L			02/05/25 17:24	1
Carbonate (as CaCO3)	ND		5.00	2.18	mg/L			02/05/25 17:24	1
Hydroxide (as CaCO3)	ND		5.00	2.18	mg/L			02/05/25 17:24	1

Lab Sample ID: LCS 570-530394/46
Matrix: Water
Analysis Batch: 530394

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)	106	101.6		mg/L		96	78 - 110

Lab Sample ID: LCSD 570-530394/47
Matrix: Water
Analysis Batch: 530394

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
Alkalinity, Total (As CaCO3)	106	101.1		mg/L		95	78 - 110	0	10

Lab Sample ID: 570-216434-1 DU
Matrix: Water
Analysis Batch: 530394

Client Sample ID: Zone 2A-Explorer Well-502
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	126		127.0		mg/L		0.5	25
Bicarbonate (as CaCO3)	126		127.0		mg/L		0.5	25
Carbonate (as CaCO3)	ND		ND		mg/L		NC	25
Hydroxide (as CaCO3)	ND		ND		mg/L		NC	25

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 570-530395/48
Matrix: Water
Analysis Batch: 530395

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.00	1.00	umhos/cm			02/05/25 17:24	1

Lab Sample ID: 570-216434-1 DU
Matrix: Water
Analysis Batch: 530395

Client Sample ID: Zone 2A-Explorer Well-502
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	RPD	RPD Limit
Specific Conductance	304		303.0		umhos/cm			0.3	25

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

Lab Sample ID: MB 570-530263/1
Matrix: Water
Analysis Batch: 530263

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	8.35	mg/L			02/05/25 13:28	1

Lab Sample ID: LCS 570-530263/2
Matrix: Water
Analysis Batch: 530263

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	1000	930.0		mg/L		93	84 - 108

Lab Sample ID: LCSD 570-530263/3
Matrix: Water
Analysis Batch: 530263

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 Dissolved Solids	1000	978.0		mg/L		98	84 - 108	5	10

Method: SM 4500 H+ B - pH

Lab Sample ID: 570-216434-1 DU
Matrix: Water
Analysis Batch: 530501

Client Sample ID: Zone 2A-Explorer Well-502
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	RPD	RPD Limit
pH	8.2	HF	8.2		S.U.			0.1	25

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 570-529822/5-A
Matrix: Water
Analysis Batch: 529916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 529822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MBAS	ND		0.200	0.0520	mg/L		02/04/25 14:55	02/04/25 17:17	1

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QC Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA1104

Job ID: 570-216434-2

Method: SM 5540C - Methylene Blue Active Substances (MBAS) (Continued)

Lab Sample ID: LCS 570-529822/6-A
Matrix: Water
Analysis Batch: 529916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 529822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MBAS	0.500	0.4594		mg/L		92	83 - 122

Lab Sample ID: LCSD 570-529822/7-A
Matrix: Water
Analysis Batch: 529916

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 529822

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MBAS	0.500	0.4727		mg/L		95	83 - 122	3	10

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

GC/MS VOA

Analysis Batch: 530002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	SRL 524M	
MB 570-530002/4	Method Blank	Total/NA	Water	SRL 524M	
LCS 570-530002/5	Lab Control Sample	Total/NA	Water	SRL 524M	
LCSD 570-530002/6	Lab Control Sample Dup	Total/NA	Water	SRL 524M	

Analysis Batch: 530299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	624.1	
MB 570-530299/6	Method Blank	Total/NA	Water	624.1	
LCS 570-530299/1002	Lab Control Sample	Total/NA	Water	624.1	
LCSD 570-530299/3	Lab Control Sample Dup	Total/NA	Water	624.1	

Analysis Batch: 530300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	8260B	
MB 570-530300/6	Method Blank	Total/NA	Water	8260B	
LCS 570-530300/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-530300/3	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 529546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	300.0	
MB 570-529546/5	Method Blank	Total/NA	Water	300.0	
LCS 570-529546/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-529546/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-216434-1 MS	Zone 2A-Explorer Well-502	Total/NA	Water	300.0	
570-216434-1 MSD	Zone 2A-Explorer Well-502	Total/NA	Water	300.0	

Analysis Batch: 529547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	300.0	
MB 570-529547/5	Method Blank	Total/NA	Water	300.0	
LCS 570-529547/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-529547/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-216434-1 MS	Zone 2A-Explorer Well-502	Total/NA	Water	300.0	
570-216434-1 MSD	Zone 2A-Explorer Well-502	Total/NA	Water	300.0	

Analysis Batch: 531485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	314.0 LL	
MB 570-531485/5	Method Blank	Total/NA	Water	314.0 LL	
LCS 570-531485/6	Lab Control Sample	Total/NA	Water	314.0 LL	
LCSD 570-531485/7	Lab Control Sample Dup	Total/NA	Water	314.0 LL	
MRL 570-531485/3	Lab Control Sample	Total/NA	Water	314.0 LL	

LCMS

Prep Batch: 832350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	1633	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

LCMS (Continued)

Prep Batch: 832350 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1 - RA	Zone 2A-Explorer Well-502	Total/NA	Water	1633	
MB 320-832350/1-A	Method Blank	Total/NA	Water	1633	
MB 320-832350/1-A - RA	Method Blank	Total/NA	Water	1633	
LCS 320-832350/3-A	Lab Control Sample	Total/NA	Water	1633	
LCS 320-832350/3-A - RA	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-832350/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LCSD 320-832350/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-832350/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-832350/2-A - RA	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 832831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	1633	832350
MB 320-832350/1-A	Method Blank	Total/NA	Water	1633	832350
LCS 320-832350/3-A	Lab Control Sample	Total/NA	Water	1633	832350
LCSD 320-832350/4-A	Lab Control Sample Dup	Total/NA	Water	1633	832350
LLCS 320-832350/2-A	Lab Control Sample	Total/NA	Water	1633	832350

Analysis Batch: 833012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1 - RA	Zone 2A-Explorer Well-502	Total/NA	Water	1633	832350
MB 320-832350/1-A - RA	Method Blank	Total/NA	Water	1633	832350
LCS 320-832350/3-A - RA	Lab Control Sample	Total/NA	Water	1633	832350
LCSD 320-832350/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	832350
LLCS 320-832350/2-A - RA	Lab Control Sample	Total/NA	Water	1633	832350

Metals

Analysis Batch: 529881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total Recoverable	Water	SM 2340B	

Prep Batch: 530008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total Recoverable	Water	200.7	
MB 570-530008/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-530008/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-530008/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Prep Batch: 530519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	7470A	
MB 570-530519/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-530519/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-530519/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 530690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total Recoverable	Water	200.7 Rev 4.4	530008
MB 570-530008/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	530008
LCS 570-530008/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	530008

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Metals (Continued)

Analysis Batch: 530690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-530008/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	530008

Analysis Batch: 530705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	7470A	530519
MB 570-530519/1-A	Method Blank	Total/NA	Water	7470A	530519
LCS 570-530519/2-A	Lab Control Sample	Total/NA	Water	7470A	530519
LCSD 570-530519/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	530519

Analysis Batch: 530795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total Recoverable	Water	200.7 Rev 4.4	530008
MB 570-530008/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	530008
LCS 570-530008/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	530008
LCSD 570-530008/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	530008

General Chemistry

Prep Batch: 529822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	SM 5540C	
MB 570-529822/5-A	Method Blank	Total/NA	Water	SM 5540C	
LCS 570-529822/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	
LCSD 570-529822/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	

Analysis Batch: 529916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	SM 5540C	529822
MB 570-529822/5-A	Method Blank	Total/NA	Water	SM 5540C	529822
LCS 570-529822/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	529822
LCSD 570-529822/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	529822

Analysis Batch: 530263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	SM 2540C	
MB 570-530263/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-530263/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-530263/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 530394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	SM 2320B	
MB 570-530394/48	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-530394/46	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-530394/47	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
570-216434-1 DU	Zone 2A-Explorer Well-502	Total/NA	Water	SM 2320B	

Analysis Batch: 530395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	SM 2510B	
MB 570-530395/48	Method Blank	Total/NA	Water	SM 2510B	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

General Chemistry (Continued)

Analysis Batch: 530395 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1 DU	Zone 2A-Explorer Well-502	Total/NA	Water	SM 2510B	

Analysis Batch: 530501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216434-1	Zone 2A-Explorer Well-502	Total/NA	Water	SM 4500 H+ B	
570-216434-1 DU	Zone 2A-Explorer Well-502	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Client Sample ID: Zone 2A-Explorer Well-502

Lab Sample ID: 570-216434-1

Date Collected: 02/04/25 03:00

Matrix: Water

Date Received: 02/04/25 12:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	530299	02/05/25 20:03	GC3Z	EET CAL 4
	Instrument ID: GCMSPP									
Total/NA	Analysis	8260B		1	5 mL	5 mL	530300	02/05/25 20:03	GC3Z	EET CAL 4
	Instrument ID: GCMSPP									
Total/NA	Analysis	SRL 524M		1	25 mL	25 mL	530002	02/05/25 12:48	N5PD	EET CAL 4
	Instrument ID: GCMS78									
Total/NA	Analysis	300.0		1	4 mL	4 mL	529546	02/04/25 21:15	UIP1	EET CAL 4
	Instrument ID: IC15									
Total/NA	Analysis	300.0		1	4 mL	4 mL	529547	02/04/25 21:15	UIP1	EET CAL 4
	Instrument ID: IC15									
Total/NA	Analysis	314.0 LL		1	5 mL	5 mL	531485	02/08/25 11:02	YO8L	EET CAL 4
	Instrument ID: IC25									
Total/NA	Prep	1633			154.3 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633		1			832831	02/12/25 04:58	N1K	EET SAC
	Instrument ID: A42									
Total/NA	Prep	1633	RA		154.3 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633	RA	1			833012	02/12/25 13:06	SEY	EET SAC
	Instrument ID: A45									
Total Recoverable	Prep	200.7			50 mL	50 mL	530008	02/05/25 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			530690	02/05/25 22:21	K1UV	EET CAL 4
	Instrument ID: ICP11									
Total Recoverable	Prep	200.7			50 mL	50 mL	530008	02/05/25 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			530795	02/06/25 13:43	P1R	EET CAL 4
	Instrument ID: ICP11									
Total/NA	Prep	7470A			25 mL	50 mL	530519	02/06/25 00:35	VCN7	EET CAL 4
Total/NA	Analysis	7470A		1			530705	02/06/25 10:08	Y2WS	EET CAL 4
	Instrument ID: HG9									
Total Recoverable	Analysis	SM 2340B		1			529881	02/05/25 16:33	P1R	EET CAL 4
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	530394	02/05/25 17:31	UAPD	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2510B		1			530395	02/05/25 17:31	UAPD	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	530263	02/05/25 13:28	ZL7L	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	SM 4500 H+ B		1			530501	02/05/25 17:31	UAPD	EET CAL 4
	Instrument ID: ManSciMantech									
Total/NA	Prep	SM 5540C			100 mL	100 mL	529822	02/04/25 19:19	PK4M	EET CAL 4
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	529916	02/04/25 19:41	PK4M	EET CAL 4
	Instrument ID: UV8									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Laboratory: Eurofins Calscience

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	7296.01	11-30-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Washington	State	C916	10-11-25

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468	01-20-27
Arizona	State	AZ0708	08-11-25
Arkansas DEQ	State	88-0691	05-18-25
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-25
Florida	NELAP	E87570	06-30-25
Georgia	State	4040	01-29-26
Illinois	NELAP	200060	03-31-25
Kansas	NELAP	E-10375	10-31-25
Louisiana	NELAP	01944	06-30-25
Louisiana (All)	NELAP	01944	06-30-25
Maine	State	CA00004	04-14-26
Minnesota	NELAP	2749448	12-31-25
Nevada	State	CA00044	07-31-25
New Hampshire	NELAP	2997	04-19-25
New Jersey	NELAP	CA005	06-30-25
New York	NELAP	11666	04-01-25
Ohio	State	41252	01-29-26
Oregon	NELAP	4040	01-29-26
Texas	NELAP	T104704399-23-17	05-31-25
US Fish & Wildlife	US Federal Programs	A22139	04-30-25
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-25
Virginia	NELAP	460278	03-14-25
Washington	State	C581	05-05-25
West Virginia (DW)	State	9930C	01-31-26
Wisconsin	State	998204680	08-31-25
Wyoming	State Program	8TMS-L	01-28-19 *

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

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CAL 4
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
SRL 524M	Volatile Organic Compounds (GC/MS)	CADHS	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
314.0 LL	Perchlorate (IC)	EPA	EET CAL 4
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
7470A	Mercury (CVAA)	SW846	EET CAL 4
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 4500 H+ B	pH	SM	EET CAL 4
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EET CAL 4
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7470A	Preparation, Mercury	SW846	EET CAL 4
SM 5540C	Preparation, Methylene Blue Active Substances (MBAS)	SM	EET CAL 4

Protocol References:

- CADHS = California Department of Health Services
- EPA = US Environmental Protection Agency
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA1104

Job ID: 570-216434-2

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
570-216434-1	Zone 2A-Explorer Well-502	Water	02/04/25 03:00	02/04/25 12:18

Eurofins Calscience

2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494

Chain of Custody Record



Loc: 570
216434

Client Information		Sampler: Nasser Alsultan		Lab PM: Nowak, Stephen		Carrier Tracking No(s):		COC No: 570-121264-24729.1			
Client Contact: Elizette Viramontes / Tara Rolfe		Phone: Tara Rolfe +1 626-788-4638		E-Mail: Stephen.Nowak@et.eurofinsus.com		State of Origin: CA		Page: Page 1 of 1			
Company: Geosyntec Consultants Inc			PWSID:		Analysis Requested					Job #:	
Address: 440 E. Huntington Drive Suite 425			Due Date Requested:		Field Filtered Sample (Yes or No) 3320B - 2510B - 2540C - Calc'd, 300 ORGFM_28D, 300_ORGFMS, 314.0_LL, SM4600_H+ 200.7, 7470A, SM2340B 624.1 - Routine No AIA No 2-CEVE (14-day HT) 8260B - Routine Volatiles List (Full Spike) CA_SRL_524M_SIM - CA SRL 524M 1,2,3-Trichloropropane 5540C - Methylene Blue Active Substances (MBAS) 1633 - final Standard					Preservation Codes: N - None D - HNO3 A - HCL	
City: Arcadia			TAT Requested (days): 5 - Day TAT							Other:	
State, Zip: CA, 91006			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								
Phone:			PO #: WO-HPA110004-3063								
Email: Elizette.Viramontes@Geosyntec.com / trolfe@geosyntec.com			WO #:								
Project Name: HPA110005			Project #: 57022737				Total Number of containers				
Site: Explorer Well			SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)						Special Instructions/Note:
				Preservation Code:		N D A A A N Z					
Zone 2A - Explorer Well-502		02/02/25	0300	G	Water	No No X X X X X X X					16
		04/02/25		G	Water						
				G	Water						
				G	water						



570-216434 Chain of Custody

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) _____

Special Instructions/QC Requirements: _____

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 02/04/2025		Company: Geosyntec		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 2/4/25 12:18		Company:		Date/Time: 2/4/25 12:18	
Relinquished by:		Date/Time:		Company:		Date/Time:	

Custody Seals Intact: Yes No Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: **2-6/2-8 5 cry**

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Nowak, Stephen	Carrier Tracking No(s): N/A	COC No: 570-425759.1
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Stephen.Nowak@eurofins.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): NELAP - Oregon; State - California		Job #: 570-216434-2	
Address: 880 Riverside Parkway,		Due Date Requested: 2/13/2025		Preservation Codes:	
City: West Sacramento		TAT Requested (days): N/A		Analysis Requested	
State, Zip: CA, 95605		PO #: N/A		Field Filtered Sample (Yes or No)	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		WO #: N/A		Perform MS/MSD (Yes or No)	
Email: N/A		Project #: 57022737		1633_Final/1633_SPE_125 Standard List	
Project Name: HPA1104		SSOW#: N/A		Total Number of Containers	
Site: N/A		Sample Date		X	
Sample Identification - Client ID (Lab ID)		Sample Time		X	
Zone 2A-Explorer Well-502 (570-216434-1)		03:00 Pacific		3	
Sample Date		2/4/25		Special Instructions/Note:	
Sample Time		03:00 Pacific			
Sample Type (C=Comp, G=grab)		G			
Matrix (W=water, S=solid, O=soil, etc.)		Water			
Preservation Code:					

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by:	Date/Time:	Time:	Method of Shipment:
Relinquished by: [Signature]	2-5 9-		Received by: [Signature]
Relinquished by:	Date/Time:	Company:	Received by: [Signature]
Relinquished by:	Date/Time:	Company:	Received by: [Signature]
Custody Seals Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cooler Temperature(s) °C and Other Remarks: [Signature]		

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-216434-2

Login Number: 216434

List Source: Eurofins Calscience

List Number: 1

Creator: Nowak, Stephen

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-216434-2

Login Number: 216434

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 02/06/25 04:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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

Attn: Elizette Viramontes
Geosyntec Consultants Inc
440 E. Huntington Drive
Suite 425
Arcadia, California 91006

Generated 2/13/2025 12:20:28 PM

JOB DESCRIPTION

HPA110005

JOB NUMBER

570-216860-1

Eurofins Calscience

Job Notes

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

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 Calscience Project Manager.

Authorization



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2/13/2025 12:20:28 PM

Authorized for release by
Stephen Nowak, Project Manager I
Stephen.Nowak@et.eurofinsus.com
(714)895-5494



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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

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

Case Narrative

Client: Geosyntec Consultants Inc
Project: HPA110005

Job ID: 570-216860-1

Job ID: 570-216860-1

Eurofins Calscience

Job Narrative 570-216860-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 2/5/2025 6:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.3°C and 3.6°C.

GC/MS VOA

Method 624.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-531367. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-530511 were outside control limits for Chloride. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

PFAS

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

Metals

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

General Chemistry

Method 5540C: Sample result concentrations for methylene blue active substances (MBAS) are calculated as LAS, mol. wt. 320.

Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Zone 1A-Explorer Well-391 (570-216860-1) and Zone 1B-Explorer Well-391 (570-216860-2).

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

Eurofins Calscience

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Client Sample ID: Zone 1A-Explorer Well-391

Lab Sample ID: 570-216860-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	5.1		0.50	0.45	ug/L	1		624.1	Total/NA
Chloroform	0.97	J	1.0	0.26	ug/L	1		624.1	Total/NA
Carbon tetrachloride	5.2		0.50	0.37	ug/L	1		8260B	Total/NA
Chloroform	0.97	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,2,3-Trichloropropane	27		5.0	1.7	ng/L	1		SRL 524M	Total/NA
Chloride	18		1.0	0.36	mg/L	1		300.0	Total/NA
Nitrate as N	1.3		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate	34		1.0	0.18	mg/L	1		300.0	Total/NA
Perchlorate	4.6		1.0	0.39	ug/L	1		314.0 LL	Total/NA
Perfluoropentanoic acid (PFPeA)	0.75	J	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.43	J	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.89	J	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.40	J	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.72	J I	1.6	0.39	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.1	J	3.1	0.78	ng/L	1		1633	Total/NA
Barium	0.0562		0.0100	0.000730	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.00310	J	0.0500	0.00300	mg/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	54.5		2.00	0.0839	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.0118	J	0.0500	0.00592	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.224	J	0.500	0.0559	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.00890	J	0.0100	0.00171	mg/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	14.1		0.500	0.0703	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0445	J	0.0500	0.00129	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	30.0		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Hardness as calcium carbonate	194		7.05	0.499	mg/L	1		SM 2340B	Total Recoverable
Calcium hardness as calcium carbonate	136		4.99	0.209	mg/L	1		SM 2340B	Total Recoverable
Magnesium hardness as calcium carbonate	58.0		2.06	0.289	mg/L	1		SM 2340B	Total Recoverable
Alkalinity, Total (As CaCO3)	200		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	200		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Specific Conductance	514		1.00	1.00	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	265		10.0	8.35	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	0.01	0.01	S.U.	1		SM 4500 H+ B	Total/NA

Client Sample ID: Zone 1B-Explorer Well-391

Lab Sample ID: 570-216860-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	5.1		0.50	0.45	ug/L	1		624.1	Total/NA
Chloroform	0.96	J	1.0	0.26	ug/L	1		624.1	Total/NA
Carbon tetrachloride	5.2		0.50	0.37	ug/L	1		8260B	Total/NA
Chloroform	0.96	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,2,3-Trichloropropane	24		5.0	1.7	ng/L	1		SRL 524M	Total/NA
Chloride	18		1.0	0.36	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Client Sample ID: Zone 1B-Explorer Well-391 (Continued)

Lab Sample ID: 570-216860-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	1.3		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate	34		1.0	0.18	mg/L	1		300.0	Total/NA
Perchlorate	4.7		1.0	0.39	ug/L	1		314.0 LL	Total/NA
Perfluoropentanoic acid (PFPeA)	0.63	J	1.5	0.37	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	0.45	J	1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	0.81	J	1.5	0.37	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.62	J I	1.5	0.37	ng/L	1		1633	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.82	J	3.0	0.75	ng/L	1		1633	Total/NA
Barium	0.0561		0.0100	0.000730	mg/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	55.1		2.00	0.0839	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.0100	J	0.0500	0.00592	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.170	J	0.500	0.0559	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.00860	J	0.0100	0.00171	mg/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	14.2		0.500	0.0703	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0431	J	0.0500	0.00129	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	30.1		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Hardness as calcium carbonate	196		7.05	0.499	mg/L	1		SM 2340B	Total Recoverable
Calcium hardness as calcium carbonate	138		4.99	0.209	mg/L	1		SM 2340B	Total Recoverable
Magnesium hardness as calcium carbonate	58.4		2.06	0.289	mg/L	1		SM 2340B	Total Recoverable
Alkalinity, Total (As CaCO3)	200		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Bicarbonate (as CaCO3)	200		5.00	2.18	mg/L	1		SM 2320B	Total/NA
Specific Conductance	514		1.00	1.00	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	301		10.0	8.35	mg/L	1		SM 2540C	Total/NA
pH	8.0	HF	0.01	0.01	S.U.	1		SM 4500 H+ B	Total/NA

Client Sample ID: FB-Explorer Well-391

Lab Sample ID: 570-216860-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.33	J	1.0	0.32	ug/L	1		8260B	Total/NA
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.98	J	3.0	0.75	ng/L	1		1633	Total/NA

Client Sample ID: EB-Explorer Well-391

Lab Sample ID: 570-216860-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.32	J	1.0	0.32	ug/L	1		8260B	Total/NA
Perfluorododecanoic acid (PFDoA)	0.48	J	1.6	0.43	ng/L	1		1633	Total/NA
Perfluorotridecanoic acid (PFTrDA)	0.46	J	1.6	0.45	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.44	J	1.6	0.39	ng/L	1		1633	Total/NA
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.40	J	1.6	0.39	ng/L	1		1633	Total/NA
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.39	J	1.6	0.39	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			02/08/25 03:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			02/08/25 03:39	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			02/08/25 03:39	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			02/08/25 03:39	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			02/08/25 03:39	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			02/08/25 03:39	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			02/08/25 03:39	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			02/08/25 03:39	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			02/08/25 03:39	1
Benzene	ND		0.50	0.30	ug/L			02/08/25 03:39	1
Bromodichloromethane	ND		1.0	0.24	ug/L			02/08/25 03:39	1
Bromoform	ND		1.0	0.46	ug/L			02/08/25 03:39	1
Bromomethane	ND		5.0	3.7	ug/L			02/08/25 03:39	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			02/08/25 03:39	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			02/08/25 03:39	1
Carbon tetrachloride	5.1		0.50	0.45	ug/L			02/08/25 03:39	1
Chlorobenzene	ND		1.0	0.20	ug/L			02/08/25 03:39	1
Chloroethane	ND		1.0	0.54	ug/L			02/08/25 03:39	1
Chloroform	0.97	J	1.0	0.26	ug/L			02/08/25 03:39	1
Chloromethane	ND		1.0	0.65	ug/L			02/08/25 03:39	1
Dibromochloromethane	ND		1.0	0.25	ug/L			02/08/25 03:39	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			02/08/25 03:39	1
Ethylbenzene	ND		1.0	0.23	ug/L			02/08/25 03:39	1
Methylene Chloride	ND		2.0	0.83	ug/L			02/08/25 03:39	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			02/08/25 03:39	1
o-Xylene	ND		1.0	0.24	ug/L			02/08/25 03:39	1
m,p-Xylene	ND		1.0	0.48	ug/L			02/08/25 03:39	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			02/08/25 03:39	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			02/08/25 03:39	1
Tetrachloroethene	ND		1.0	0.39	ug/L			02/08/25 03:39	1
Toluene	ND		1.0	0.19	ug/L			02/08/25 03:39	1
Trichloroethene	ND		1.0	0.41	ug/L			02/08/25 03:39	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			02/08/25 03:39	1
Vinyl chloride	ND		0.50	0.36	ug/L			02/08/25 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		60 - 140		02/08/25 03:39	1
4-Bromofluorobenzene (Surr)	96		60 - 140		02/08/25 03:39	1
Dibromofluoromethane (Surr)	99		60 - 140		02/08/25 03:39	1
Toluene-d8 (Surr)	98		60 - 140		02/08/25 03:39	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			02/08/25 04:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.33	ug/L			02/08/25 04:02	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			02/08/25 04:02	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			02/08/25 04:02	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			02/08/25 04:02	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Zone 1B-Explorer Well-391

Lab Sample ID: 570-216860-2

Date Collected: 02/05/25 15:45

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.21	ug/L			02/08/25 04:02	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			02/08/25 04:02	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			02/08/25 04:02	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			02/08/25 04:02	1
Benzene	ND		0.50	0.30	ug/L			02/08/25 04:02	1
Bromodichloromethane	ND		1.0	0.24	ug/L			02/08/25 04:02	1
Bromoform	ND		1.0	0.46	ug/L			02/08/25 04:02	1
Bromomethane	ND		5.0	3.7	ug/L			02/08/25 04:02	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			02/08/25 04:02	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			02/08/25 04:02	1
Carbon tetrachloride	5.1		0.50	0.45	ug/L			02/08/25 04:02	1
Chlorobenzene	ND		1.0	0.20	ug/L			02/08/25 04:02	1
Chloroethane	ND		1.0	0.54	ug/L			02/08/25 04:02	1
Chloroform	0.96	J	1.0	0.26	ug/L			02/08/25 04:02	1
Chloromethane	ND		1.0	0.65	ug/L			02/08/25 04:02	1
Dibromochloromethane	ND		1.0	0.25	ug/L			02/08/25 04:02	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			02/08/25 04:02	1
Ethylbenzene	ND		1.0	0.23	ug/L			02/08/25 04:02	1
Methylene Chloride	ND		2.0	0.83	ug/L			02/08/25 04:02	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			02/08/25 04:02	1
o-Xylene	ND		1.0	0.24	ug/L			02/08/25 04:02	1
m,p-Xylene	ND		1.0	0.48	ug/L			02/08/25 04:02	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			02/08/25 04:02	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			02/08/25 04:02	1
Tetrachloroethene	ND		1.0	0.39	ug/L			02/08/25 04:02	1
Toluene	ND		1.0	0.19	ug/L			02/08/25 04:02	1
Trichloroethene	ND		1.0	0.41	ug/L			02/08/25 04:02	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			02/08/25 04:02	1
Vinyl chloride	ND		0.50	0.36	ug/L			02/08/25 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		60 - 140					02/08/25 04:02	1
4-Bromofluorobenzene (Surr)	96		60 - 140					02/08/25 04:02	1
Dibromofluoromethane (Surr)	100		60 - 140					02/08/25 04:02	1
Toluene-d8 (Surr)	98		60 - 140					02/08/25 04:02	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			02/08/25 03:39	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			02/08/25 03:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			02/08/25 03:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			02/08/25 03:39	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			02/08/25 03:39	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			02/08/25 03:39	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			02/08/25 03:39	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			02/08/25 03:39	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			02/08/25 03:39	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			02/08/25 03:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			02/08/25 03:39	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			02/08/25 03:39	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			02/08/25 03:39	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			02/08/25 03:39	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			02/08/25 03:39	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/08/25 03:39	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			02/08/25 03:39	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			02/08/25 03:39	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			02/08/25 03:39	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			02/08/25 03:39	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			02/08/25 03:39	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 03:39	1
2-Butanone (MEK)	ND		10	4.5	ug/L			02/08/25 03:39	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			02/08/25 03:39	1
2-Hexanone	ND		10	2.7	ug/L			02/08/25 03:39	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			02/08/25 03:39	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			02/08/25 03:39	1
Acetone	ND		10	7.4	ug/L			02/08/25 03:39	1
Benzene	ND		0.50	0.24	ug/L			02/08/25 03:39	1
Bromobenzene	ND		1.0	0.29	ug/L			02/08/25 03:39	1
Bromochloromethane	ND		2.0	0.38	ug/L			02/08/25 03:39	1
Bromodichloromethane	ND		1.0	0.29	ug/L			02/08/25 03:39	1
Bromoform	ND		5.0	1.9	ug/L			02/08/25 03:39	1
Bromomethane	ND		25	7.4	ug/L			02/08/25 03:39	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			02/08/25 03:39	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			02/08/25 03:39	1
Carbon disulfide	ND		10	0.42	ug/L			02/08/25 03:39	1
Carbon tetrachloride	5.2		0.50	0.37	ug/L			02/08/25 03:39	1
Chlorobenzene	ND		1.0	0.26	ug/L			02/08/25 03:39	1
Chloroethane	ND		5.0	1.9	ug/L			02/08/25 03:39	1
Chloroform	0.97 J		1.0	0.32	ug/L			02/08/25 03:39	1
Chloromethane	ND		10	2.2	ug/L			02/08/25 03:39	1
Dibromochloromethane	ND		2.0	0.37	ug/L			02/08/25 03:39	1
Dibromomethane	ND		1.0	0.33	ug/L			02/08/25 03:39	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			02/08/25 03:39	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/08/25 03:39	1
Isopropylbenzene	ND		1.0	0.41	ug/L			02/08/25 03:39	1
Methylene Chloride	ND		10	3.0	ug/L			02/08/25 03:39	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			02/08/25 03:39	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	4.9	ug/L			02/08/25 03:39	1
n-Butylbenzene	ND		1.0	0.53	ug/L			02/08/25 03:39	1
N-Propylbenzene	ND		1.0	0.47	ug/L			02/08/25 03:39	1
o-Xylene	ND		1.0	0.27	ug/L			02/08/25 03:39	1
m,p-Xylene	ND		2.0	0.49	ug/L			02/08/25 03:39	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			02/08/25 03:39	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			02/08/25 03:39	1
Styrene	ND		1.0	0.38	ug/L			02/08/25 03:39	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			02/08/25 03:39	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			02/08/25 03:39	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			02/08/25 03:39	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/08/25 03:39	1
Toluene	ND		1.0	0.30	ug/L			02/08/25 03:39	1
Trichloroethene	ND		1.0	0.39	ug/L			02/08/25 03:39	1
Trichlorofluoromethane	ND		10	0.75	ug/L			02/08/25 03:39	1
Vinyl acetate	ND		10	5.0	ug/L			02/08/25 03:39	1
Vinyl chloride	ND		0.50	0.43	ug/L			02/08/25 03:39	1
Xylenes, Total	ND		2.0	0.49	ug/L			02/08/25 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 123					02/08/25 03:39	1
4-Bromofluorobenzene (Surr)	96		80 - 120					02/08/25 03:39	1
Dibromofluoromethane (Surr)	99		78 - 120					02/08/25 03:39	1
Toluene-d8 (Surr)	98		80 - 120					02/08/25 03:39	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			02/08/25 04:02	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			02/08/25 04:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			02/08/25 04:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			02/08/25 04:02	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			02/08/25 04:02	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			02/08/25 04:02	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			02/08/25 04:02	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			02/08/25 04:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			02/08/25 04:02	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			02/08/25 04:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			02/08/25 04:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			02/08/25 04:02	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			02/08/25 04:02	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			02/08/25 04:02	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			02/08/25 04:02	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/08/25 04:02	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			02/08/25 04:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			02/08/25 04:02	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			02/08/25 04:02	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			02/08/25 04:02	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			02/08/25 04:02	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Client Sample ID: Zone 1B-Explorer Well-391

Lab Sample ID: 570-216860-2

Date Collected: 02/05/25 15:45

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/08/25 04:02	1
2-Butanone (MEK)	ND		10	4.5	ug/L			02/08/25 04:02	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			02/08/25 04:02	1
2-Hexanone	ND		10	2.7	ug/L			02/08/25 04:02	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			02/08/25 04:02	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			02/08/25 04:02	1
Acetone	ND		10	7.4	ug/L			02/08/25 04:02	1
Benzene	ND		0.50	0.24	ug/L			02/08/25 04:02	1
Bromobenzene	ND		1.0	0.29	ug/L			02/08/25 04:02	1
Bromochloromethane	ND		2.0	0.38	ug/L			02/08/25 04:02	1
Bromodichloromethane	ND		1.0	0.29	ug/L			02/08/25 04:02	1
Bromoform	ND		5.0	1.9	ug/L			02/08/25 04:02	1
Bromomethane	ND		25	7.4	ug/L			02/08/25 04:02	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			02/08/25 04:02	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			02/08/25 04:02	1
Carbon disulfide	ND		10	0.42	ug/L			02/08/25 04:02	1
Carbon tetrachloride	5.2		0.50	0.37	ug/L			02/08/25 04:02	1
Chlorobenzene	ND		1.0	0.26	ug/L			02/08/25 04:02	1
Chloroethane	ND		5.0	1.9	ug/L			02/08/25 04:02	1
Chloroform	0.96 J		1.0	0.32	ug/L			02/08/25 04:02	1
Chloromethane	ND		10	2.2	ug/L			02/08/25 04:02	1
Dibromochloromethane	ND		2.0	0.37	ug/L			02/08/25 04:02	1
Dibromomethane	ND		1.0	0.33	ug/L			02/08/25 04:02	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			02/08/25 04:02	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/08/25 04:02	1
Isopropylbenzene	ND		1.0	0.41	ug/L			02/08/25 04:02	1
Methylene Chloride	ND		10	3.0	ug/L			02/08/25 04:02	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			02/08/25 04:02	1
Naphthalene	ND		10	4.9	ug/L			02/08/25 04:02	1
n-Butylbenzene	ND		1.0	0.53	ug/L			02/08/25 04:02	1
N-Propylbenzene	ND		1.0	0.47	ug/L			02/08/25 04:02	1
o-Xylene	ND		1.0	0.27	ug/L			02/08/25 04:02	1
m,p-Xylene	ND		2.0	0.49	ug/L			02/08/25 04:02	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			02/08/25 04:02	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			02/08/25 04:02	1
Styrene	ND		1.0	0.38	ug/L			02/08/25 04:02	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			02/08/25 04:02	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			02/08/25 04:02	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			02/08/25 04:02	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/08/25 04:02	1
Toluene	ND		1.0	0.30	ug/L			02/08/25 04:02	1
Trichloroethene	ND		1.0	0.39	ug/L			02/08/25 04:02	1
Trichlorofluoromethane	ND		10	0.75	ug/L			02/08/25 04:02	1
Vinyl acetate	ND		10	5.0	ug/L			02/08/25 04:02	1
Vinyl chloride	ND		0.50	0.43	ug/L			02/08/25 04:02	1
Xylenes, Total	ND		2.0	0.49	ug/L			02/08/25 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 123		02/08/25 04:02	1
4-Bromofluorobenzene (Surr)	96		80 - 120		02/08/25 04:02	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		78 - 120		02/08/25 04:02	1
Toluene-d8 (Surr)	98		80 - 120		02/08/25 04:02	1

Client Sample ID: FB-Explorer Well-391

Date Collected: 02/05/25 15:55

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			02/07/25 21:58	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			02/07/25 21:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			02/07/25 21:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			02/07/25 21:58	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			02/07/25 21:58	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			02/07/25 21:58	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			02/07/25 21:58	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			02/07/25 21:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			02/07/25 21:58	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			02/07/25 21:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			02/07/25 21:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			02/07/25 21:58	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			02/07/25 21:58	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			02/07/25 21:58	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			02/07/25 21:58	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/07/25 21:58	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			02/07/25 21:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			02/07/25 21:58	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			02/07/25 21:58	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			02/07/25 21:58	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			02/07/25 21:58	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/07/25 21:58	1
2-Butanone (MEK)	ND		10	4.5	ug/L			02/07/25 21:58	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			02/07/25 21:58	1
2-Hexanone	ND		10	2.7	ug/L			02/07/25 21:58	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			02/07/25 21:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			02/07/25 21:58	1
Acetone	ND		10	7.4	ug/L			02/07/25 21:58	1
Benzene	ND		0.50	0.24	ug/L			02/07/25 21:58	1
Bromobenzene	ND		1.0	0.29	ug/L			02/07/25 21:58	1
Bromochloromethane	ND		2.0	0.38	ug/L			02/07/25 21:58	1
Bromodichloromethane	ND		1.0	0.29	ug/L			02/07/25 21:58	1
Bromoform	ND		5.0	1.9	ug/L			02/07/25 21:58	1
Bromomethane	ND		25	7.4	ug/L			02/07/25 21:58	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			02/07/25 21:58	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			02/07/25 21:58	1
Carbon disulfide	ND		10	0.42	ug/L			02/07/25 21:58	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			02/07/25 21:58	1
Chlorobenzene	ND		1.0	0.26	ug/L			02/07/25 21:58	1
Chloroethane	ND		5.0	1.9	ug/L			02/07/25 21:58	1
Chloroform	0.33	J	1.0	0.32	ug/L			02/07/25 21:58	1
Chloromethane	ND		10	2.2	ug/L			02/07/25 21:58	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Client Sample ID: FB-Explorer Well-391

Date Collected: 02/05/25 15:55

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		2.0	0.37	ug/L			02/07/25 21:58	1
Dibromomethane	ND		1.0	0.33	ug/L			02/07/25 21:58	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			02/07/25 21:58	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/07/25 21:58	1
Isopropylbenzene	ND		1.0	0.41	ug/L			02/07/25 21:58	1
Methylene Chloride	ND		10	3.0	ug/L			02/07/25 21:58	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			02/07/25 21:58	1
Naphthalene	ND		10	4.9	ug/L			02/07/25 21:58	1
n-Butylbenzene	ND		1.0	0.53	ug/L			02/07/25 21:58	1
N-Propylbenzene	ND		1.0	0.47	ug/L			02/07/25 21:58	1
o-Xylene	ND		1.0	0.27	ug/L			02/07/25 21:58	1
m,p-Xylene	ND		2.0	0.49	ug/L			02/07/25 21:58	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			02/07/25 21:58	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			02/07/25 21:58	1
Styrene	ND		1.0	0.38	ug/L			02/07/25 21:58	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			02/07/25 21:58	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			02/07/25 21:58	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			02/07/25 21:58	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/07/25 21:58	1
Toluene	ND		1.0	0.30	ug/L			02/07/25 21:58	1
Trichloroethene	ND		1.0	0.39	ug/L			02/07/25 21:58	1
Trichlorofluoromethane	ND		10	0.75	ug/L			02/07/25 21:58	1
Vinyl acetate	ND		10	5.0	ug/L			02/07/25 21:58	1
Vinyl chloride	ND		0.50	0.43	ug/L			02/07/25 21:58	1
Xylenes, Total	ND		2.0	0.49	ug/L			02/07/25 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 123		02/07/25 21:58	1
4-Bromofluorobenzene (Surr)	95		80 - 120		02/07/25 21:58	1
Dibromofluoromethane (Surr)	94		78 - 120		02/07/25 21:58	1
Toluene-d8 (Surr)	96		80 - 120		02/07/25 21:58	1

Client Sample ID: EB-Explorer Well-391

Date Collected: 02/05/25 16:15

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			02/07/25 21:35	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			02/07/25 21:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			02/07/25 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			02/07/25 21:35	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			02/07/25 21:35	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			02/07/25 21:35	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			02/07/25 21:35	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			02/07/25 21:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			02/07/25 21:35	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			02/07/25 21:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			02/07/25 21:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			02/07/25 21:35	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			02/07/25 21:35	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			02/07/25 21:35	1

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Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

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

Client Sample ID: EB-Explorer Well-391

Lab Sample ID: 570-216860-4

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			02/07/25 21:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/07/25 21:35	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			02/07/25 21:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			02/07/25 21:35	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			02/07/25 21:35	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			02/07/25 21:35	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			02/07/25 21:35	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/07/25 21:35	1
2-Butanone (MEK)	ND		10	4.5	ug/L			02/07/25 21:35	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			02/07/25 21:35	1
2-Hexanone	ND		10	2.7	ug/L			02/07/25 21:35	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			02/07/25 21:35	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			02/07/25 21:35	1
Acetone	ND		10	7.4	ug/L			02/07/25 21:35	1
Benzene	ND		0.50	0.24	ug/L			02/07/25 21:35	1
Bromobenzene	ND		1.0	0.29	ug/L			02/07/25 21:35	1
Bromochloromethane	ND		2.0	0.38	ug/L			02/07/25 21:35	1
Bromodichloromethane	ND		1.0	0.29	ug/L			02/07/25 21:35	1
Bromoform	ND		5.0	1.9	ug/L			02/07/25 21:35	1
Bromomethane	ND		25	7.4	ug/L			02/07/25 21:35	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			02/07/25 21:35	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			02/07/25 21:35	1
Carbon disulfide	ND		10	0.42	ug/L			02/07/25 21:35	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			02/07/25 21:35	1
Chlorobenzene	ND		1.0	0.26	ug/L			02/07/25 21:35	1
Chloroethane	ND		5.0	1.9	ug/L			02/07/25 21:35	1
Chloroform	0.32	J	1.0	0.32	ug/L			02/07/25 21:35	1
Chloromethane	ND		10	2.2	ug/L			02/07/25 21:35	1
Dibromochloromethane	ND		2.0	0.37	ug/L			02/07/25 21:35	1
Dibromomethane	ND		1.0	0.33	ug/L			02/07/25 21:35	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			02/07/25 21:35	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/07/25 21:35	1
Isopropylbenzene	ND		1.0	0.41	ug/L			02/07/25 21:35	1
Methylene Chloride	ND		10	3.0	ug/L			02/07/25 21:35	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			02/07/25 21:35	1
Naphthalene	ND		10	4.9	ug/L			02/07/25 21:35	1
n-Butylbenzene	ND		1.0	0.53	ug/L			02/07/25 21:35	1
N-Propylbenzene	ND		1.0	0.47	ug/L			02/07/25 21:35	1
o-Xylene	ND		1.0	0.27	ug/L			02/07/25 21:35	1
m,p-Xylene	ND		2.0	0.49	ug/L			02/07/25 21:35	1
p-Isopropyltoluene	ND		1.0	0.47	ug/L			02/07/25 21:35	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			02/07/25 21:35	1
Styrene	ND		1.0	0.38	ug/L			02/07/25 21:35	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			02/07/25 21:35	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			02/07/25 21:35	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			02/07/25 21:35	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/07/25 21:35	1
Toluene	ND		1.0	0.30	ug/L			02/07/25 21:35	1
Trichloroethene	ND		1.0	0.39	ug/L			02/07/25 21:35	1

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Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

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

Client Sample ID: EB-Explorer Well-391

Lab Sample ID: 570-216860-4

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		10	0.75	ug/L			02/07/25 21:35	1
Vinyl acetate	ND		10	5.0	ug/L			02/07/25 21:35	1
Vinyl chloride	ND		0.50	0.43	ug/L			02/07/25 21:35	1
Xylenes, Total	ND		2.0	0.49	ug/L			02/07/25 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 123		02/07/25 21:35	1
4-Bromofluorobenzene (Surr)	93		80 - 120		02/07/25 21:35	1
Dibromofluoromethane (Surr)	96		78 - 120		02/07/25 21:35	1
Toluene-d8 (Surr)	97		80 - 120		02/07/25 21:35	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: CADHS SRL 524M - Volatile Organic Compounds (GC/MS)

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	27		5.0	1.7	ng/L			02/11/25 13:58	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	24		5.0	1.7	ng/L			02/11/25 14:52	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 300.0 - Anions, Ion Chromatography

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		1.0	0.36	mg/L			02/06/25 19:16	1
Nitrite as N	ND		0.10	0.091	mg/L			02/06/25 19:16	1
Nitrate as N	1.3		0.10	0.020	mg/L			02/06/25 19:16	1
Sulfate	34		1.0	0.18	mg/L			02/06/25 19:16	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		1.0	0.36	mg/L			02/06/25 19:32	1
Nitrite as N	ND		0.10	0.091	mg/L			02/06/25 19:32	1
Nitrate as N	1.3		0.10	0.020	mg/L			02/06/25 19:32	1
Sulfate	34		1.0	0.18	mg/L			02/06/25 19:32	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 314.0 LL - Perchlorate (IC)

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	4.6		1.0	0.39	ug/L			02/08/25 10:26	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	4.7		1.0	0.39	ug/L			02/08/25 10:44	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Client Sample ID: Zone 1A-Explorer Well-391

Lab Sample ID: 570-216860-1

Date Collected: 02/05/25 15:35

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.1	0.78	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluoropentanoic acid (PFPeA)	0.75	J	1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorohexanoic acid (PFHxA)	0.43	J	1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorooctanoic acid (PFOA)	0.89	J	1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.43	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorotridecanoic acid (PFTriDA)	ND		1.6	0.45	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.63	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorohexanesulfonic acid (PFHxS)	0.40	J	1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorooctanesulfonic acid (PFOS)	0.72	J I	1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 05:14	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.1	J	3.1	0.78	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.8	1.9	ng/L		02/10/25 04:35	02/12/25 05:14	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.8	1.9	ng/L		02/10/25 04:35	02/12/25 05:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.2	0.30	ng/L		02/10/25 04:35	02/12/25 05:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.56	ng/L		02/10/25 04:35	02/12/25 05:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.45	ng/L		02/10/25 04:35	02/12/25 05:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Client Sample ID: Zone 1A-Explorer Well-391

Lab Sample ID: 570-216860-1

Date Collected: 02/05/25 15:35

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 05:14	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.1	0.78	ng/L		02/10/25 04:35	02/12/25 05:14	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.8	1.9	ng/L		02/10/25 04:35	02/12/25 05:14	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.8	1.9	ng/L		02/10/25 04:35	02/12/25 05:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	117		5 - 130				02/10/25 04:35	02/12/25 05:14	1
13C5 PFPeA	94.6		40 - 130				02/10/25 04:35	02/12/25 05:14	1
13C5 PFHxA	112		40 - 130				02/10/25 04:35	02/12/25 05:14	1
13C4 PFHpA	126		40 - 130				02/10/25 04:35	02/12/25 05:14	1
13C8 PFOA	115		40 - 130				02/10/25 04:35	02/12/25 05:14	1
13C9 PFNA	111		40 - 130				02/10/25 04:35	02/12/25 05:14	1
13C6 PFDA	105		40 - 130				02/10/25 04:35	02/12/25 05:14	1
13C7 PFUnA	90.3		30 - 130				02/10/25 04:35	02/12/25 05:14	1
13C2 PFDoA	93.9		10 - 130				02/10/25 04:35	02/12/25 05:14	1
13C2 PFTeDA	83.2		10 - 130				02/10/25 04:35	02/12/25 05:14	1
13C3 PFBS	105		40 - 135				02/10/25 04:35	02/12/25 05:14	1
13C3 PFHxS	118		40 - 130				02/10/25 04:35	02/12/25 05:14	1
13C8 PFOS	106		40 - 130				02/10/25 04:35	02/12/25 05:14	1
13C8 FOSA	107		40 - 130				02/10/25 04:35	02/12/25 05:14	1
d3-NMeFOSAA	107		40 - 170				02/10/25 04:35	02/12/25 05:14	1
d5-NEtFOSAA	104		25 - 135				02/10/25 04:35	02/12/25 05:14	1
13C2 6:2 FTS	87.9		40 - 200				02/10/25 04:35	02/12/25 05:14	1
13C3 HFPO-DA	116		40 - 130				02/10/25 04:35	02/12/25 05:14	1
d7-N-MeFOSE-M	104		10 - 130				02/10/25 04:35	02/12/25 05:14	1
d9-N-EtFOSE-M	102		10 - 130				02/10/25 04:35	02/12/25 05:14	1
d5-NEtPFOSA	86.4		10 - 130				02/10/25 04:35	02/12/25 05:14	1
d3-NMePFOSA	91.9		10 - 130				02/10/25 04:35	02/12/25 05:14	1

Client Sample ID: Zone 1B-Explorer Well-391

Lab Sample ID: 570-216860-2

Date Collected: 02/05/25 15:45

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.0	0.75	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluoropentanoic acid (PFPeA)	0.63	J	1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorohexanoic acid (PFHxA)	0.45	J	1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorooctanoic acid (PFOA)	0.81	J	1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.41	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.5	0.43	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.61	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Client Sample ID: Zone 1B-Explorer Well-391

Lab Sample ID: 570-216860-2

Date Collected: 02/05/25 15:45

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorooctanesulfonic acid (PFOS)	0.62	J I	1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.40	ng/L		02/10/25 04:35	02/12/25 05:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.82	J	3.0	0.75	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.5	1.9	ng/L		02/10/25 04:35	02/12/25 05:31	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.5	1.9	ng/L		02/10/25 04:35	02/12/25 05:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.1	0.29	ng/L		02/10/25 04:35	02/12/25 05:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.54	ng/L		02/10/25 04:35	02/12/25 05:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		1.5	0.43	ng/L		02/10/25 04:35	02/12/25 05:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:31	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.0	0.75	ng/L		02/10/25 04:35	02/12/25 05:31	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.5	1.9	ng/L		02/10/25 04:35	02/12/25 05:31	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.5	1.9	ng/L		02/10/25 04:35	02/12/25 05:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	115		5 - 130				02/10/25 04:35	02/12/25 05:31	1
13C5 PFPeA	107		40 - 130				02/10/25 04:35	02/12/25 05:31	1
13C5 PFHxA	117		40 - 130				02/10/25 04:35	02/12/25 05:31	1
13C4 PFHpA	136	*5+	40 - 130				02/10/25 04:35	02/12/25 05:31	1
13C8 PFOA	118		40 - 130				02/10/25 04:35	02/12/25 05:31	1
13C9 PFNA	120		40 - 130				02/10/25 04:35	02/12/25 05:31	1
13C6 PFDA	107		40 - 130				02/10/25 04:35	02/12/25 05:31	1
13C7 PFUnA	97.6		30 - 130				02/10/25 04:35	02/12/25 05:31	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	97.4		10 - 130	02/10/25 04:35	02/12/25 05:31	1
13C2 PFTeDA	92.5		10 - 130	02/10/25 04:35	02/12/25 05:31	1
13C3 PFBS	106		40 - 135	02/10/25 04:35	02/12/25 05:31	1
13C3 PFHxS	124		40 - 130	02/10/25 04:35	02/12/25 05:31	1
13C8 PFOS	115		40 - 130	02/10/25 04:35	02/12/25 05:31	1
13C8 FOSA	115		40 - 130	02/10/25 04:35	02/12/25 05:31	1
d3-NMeFOSAA	121		40 - 170	02/10/25 04:35	02/12/25 05:31	1
d5-NEtFOSAA	115		25 - 135	02/10/25 04:35	02/12/25 05:31	1
13C2 6:2 FTS	87.5		40 - 200	02/10/25 04:35	02/12/25 05:31	1
13C3 HFPO-DA	120		40 - 130	02/10/25 04:35	02/12/25 05:31	1
d7-N-MeFOSE-M	127		10 - 130	02/10/25 04:35	02/12/25 05:31	1
d9-N-EtFOSE-M	115		10 - 130	02/10/25 04:35	02/12/25 05:31	1
d5-NEtPFOSA	99.2		10 - 130	02/10/25 04:35	02/12/25 05:31	1
d3-NMePFOSA	111		10 - 130	02/10/25 04:35	02/12/25 05:31	1

Client Sample ID: FB-Explorer Well-391

Date Collected: 02/05/25 15:55

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.0	0.75	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluoropentanoic acid (PFPeA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorohexanoic acid (PFHxA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluoroheptanoic acid (PFHpA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorooctanoic acid (PFOA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorononanoic acid (PFNA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorodecanoic acid (PFDA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluoroundecanoic acid (PFUnA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorododecanoic acid (PFDoA)	ND		1.5	0.41	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.5	0.43	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.5	0.61	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.40	ng/L		02/10/25 04:35	02/12/25 05:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.98	J	3.0	0.75	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1

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Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Client Sample ID: FB-Explorer Well-391

Lab Sample ID: 570-216860-3

Date Collected: 02/05/25 15:55

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.5	1.9	ng/L		02/10/25 04:35	02/12/25 05:47	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.5	1.9	ng/L		02/10/25 04:35	02/12/25 05:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.1	0.29	ng/L		02/10/25 04:35	02/12/25 05:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.54	ng/L		02/10/25 04:35	02/12/25 05:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.5	0.43	ng/L		02/10/25 04:35	02/12/25 05:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.5	0.37	ng/L		02/10/25 04:35	02/12/25 05:47	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.0	0.75	ng/L		02/10/25 04:35	02/12/25 05:47	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.5	1.9	ng/L		02/10/25 04:35	02/12/25 05:47	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.5	1.9	ng/L		02/10/25 04:35	02/12/25 05:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	114		5 - 130				02/10/25 04:35	02/12/25 05:47	1
13C5 PFPeA	98.4		40 - 130				02/10/25 04:35	02/12/25 05:47	1
13C5 PFHxA	119		40 - 130				02/10/25 04:35	02/12/25 05:47	1
13C4 PFHpA	123		40 - 130				02/10/25 04:35	02/12/25 05:47	1
13C8 PFOA	112		40 - 130				02/10/25 04:35	02/12/25 05:47	1
13C9 PFNA	106		40 - 130				02/10/25 04:35	02/12/25 05:47	1
13C6 PFDA	106		40 - 130				02/10/25 04:35	02/12/25 05:47	1
13C7 PFUnA	112		30 - 130				02/10/25 04:35	02/12/25 05:47	1
13C2 PFDoA	109		10 - 130				02/10/25 04:35	02/12/25 05:47	1
13C2 PFTeDA	101		10 - 130				02/10/25 04:35	02/12/25 05:47	1
13C3 PFBS	101		40 - 135				02/10/25 04:35	02/12/25 05:47	1
13C3 PFHxS	117		40 - 130				02/10/25 04:35	02/12/25 05:47	1
13C8 PFOS	108		40 - 130				02/10/25 04:35	02/12/25 05:47	1
13C8 FOSA	104		40 - 130				02/10/25 04:35	02/12/25 05:47	1
d3-NMeFOSAA	113		40 - 170				02/10/25 04:35	02/12/25 05:47	1
d5-NEtFOSAA	108		25 - 135				02/10/25 04:35	02/12/25 05:47	1
13C2 6:2 FTS	95.3		40 - 200				02/10/25 04:35	02/12/25 05:47	1
13C3 HFPO-DA	115		40 - 130				02/10/25 04:35	02/12/25 05:47	1
d7-N-MeFOSE-M	112		10 - 130				02/10/25 04:35	02/12/25 05:47	1
d9-N-EtFOSE-M	113		10 - 130				02/10/25 04:35	02/12/25 05:47	1
d5-NEtPFOSA	96.4		10 - 130				02/10/25 04:35	02/12/25 05:47	1
d3-NMePFOSA	94.3		10 - 130				02/10/25 04:35	02/12/25 05:47	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Client Sample ID: EB-Explorer Well-391

Date Collected: 02/05/25 16:15

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		3.1	0.78	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorododecanoic acid (PFDoA)	0.48	J	1.6	0.43	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorotridecanoic acid (PFTrDA)	0.46	J	1.6	0.45	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.6	0.63	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.41	ng/L		02/10/25 04:35	02/12/25 06:04	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.1	0.78	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluorooctanesulfonamide (PFOSA)	0.44	J	1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.40	J	1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	0.39	J	1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.8	2.0	ng/L		02/10/25 04:35	02/12/25 06:04	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.8	2.0	ng/L		02/10/25 04:35	02/12/25 06:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.2	0.30	ng/L		02/10/25 04:35	02/12/25 06:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.56	ng/L		02/10/25 04:35	02/12/25 06:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.45	ng/L		02/10/25 04:35	02/12/25 06:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Client Sample ID: EB-Explorer Well-391

Lab Sample ID: 570-216860-4

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/05/25 18:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.6	0.39	ng/L		02/10/25 04:35	02/12/25 06:04	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.1	0.78	ng/L		02/10/25 04:35	02/12/25 06:04	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		7.8	2.0	ng/L		02/10/25 04:35	02/12/25 06:04	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		7.8	2.0	ng/L		02/10/25 04:35	02/12/25 06:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	115		5 - 130				02/10/25 04:35	02/12/25 06:04	1
13C5 PFPeA	98.1		40 - 130				02/10/25 04:35	02/12/25 06:04	1
13C5 PFHxA	123		40 - 130				02/10/25 04:35	02/12/25 06:04	1
13C4 PFHpA	126		40 - 130				02/10/25 04:35	02/12/25 06:04	1
13C8 PFOA	108		40 - 130				02/10/25 04:35	02/12/25 06:04	1
13C9 PFNA	119		40 - 130				02/10/25 04:35	02/12/25 06:04	1
13C6 PFDA	110		40 - 130				02/10/25 04:35	02/12/25 06:04	1
13C7 PFUnA	105		30 - 130				02/10/25 04:35	02/12/25 06:04	1
13C2 PFDoA	97.6		10 - 130				02/10/25 04:35	02/12/25 06:04	1
13C2 PFTeDA	92.5		10 - 130				02/10/25 04:35	02/12/25 06:04	1
13C3 PFBS	102		40 - 135				02/10/25 04:35	02/12/25 06:04	1
13C3 PFHxS	111		40 - 130				02/10/25 04:35	02/12/25 06:04	1
13C8 PFOS	115		40 - 130				02/10/25 04:35	02/12/25 06:04	1
13C8 FOSA	110		40 - 130				02/10/25 04:35	02/12/25 06:04	1
d3-NMeFOSAA	121		40 - 170				02/10/25 04:35	02/12/25 06:04	1
d5-NEtFOSAA	118		25 - 135				02/10/25 04:35	02/12/25 06:04	1
13C2 6:2 FTS	94.4		40 - 200				02/10/25 04:35	02/12/25 06:04	1
13C3 HFPO-DA	113		40 - 130				02/10/25 04:35	02/12/25 06:04	1
d7-N-MeFOSE-M	120		10 - 130				02/10/25 04:35	02/12/25 06:04	1
d9-N-EtFOSE-M	115		10 - 130				02/10/25 04:35	02/12/25 06:04	1
d5-NEtPFOSA	97.2		10 - 130				02/10/25 04:35	02/12/25 06:04	1
d3-NMePFOSA	100		10 - 130				02/10/25 04:35	02/12/25 06:04	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.1	0.78	ng/L	-	02/10/25 04:35	02/12/25 13:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.1	0.78	ng/L	-	02/10/25 04:35	02/12/25 13:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 4:2 FTS	129		40 - 200				02/10/25 04:35	02/12/25 13:23	1
13C2 8:2 FTS	117		40 - 300				02/10/25 04:35	02/12/25 13:23	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.0	0.75	ng/L	-	02/10/25 04:35	02/12/25 15:18	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.0	0.75	ng/L	-	02/10/25 04:35	02/12/25 15:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 4:2 FTS	142		40 - 200				02/10/25 04:35	02/12/25 15:18	1
13C2 8:2 FTS	102		40 - 300				02/10/25 04:35	02/12/25 15:18	1

Client Sample ID: FB-Explorer Well-391

Date Collected: 02/05/25 15:55

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.0	0.75	ng/L	-	02/10/25 04:35	02/12/25 15:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.0	0.75	ng/L	-	02/10/25 04:35	02/12/25 15:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 4:2 FTS	145		40 - 200				02/10/25 04:35	02/12/25 15:35	1
13C2 8:2 FTS	106		40 - 300				02/10/25 04:35	02/12/25 15:35	1

Client Sample ID: EB-Explorer Well-391

Date Collected: 02/05/25 16:15

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.1	0.78	ng/L	-	02/10/25 04:35	02/12/25 15:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.1	0.78	ng/L	-	02/10/25 04:35	02/12/25 15:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 4:2 FTS	156		40 - 200				02/10/25 04:35	02/12/25 15:51	1
13C2 8:2 FTS	133		40 - 300				02/10/25 04:35	02/12/25 15:51	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.100	0.0147	mg/L		02/07/25 06:12	02/08/25 13:41	1
Arsenic	ND		0.100	0.00965	mg/L		02/07/25 06:12	02/08/25 13:41	1
Barium	0.0562		0.0100	0.000730	mg/L		02/07/25 06:12	02/08/25 13:41	1
Beryllium	ND		0.0100	0.000660	mg/L		02/07/25 06:12	02/08/25 13:41	1
Cadmium	ND		0.0100	0.000450	mg/L		02/07/25 06:12	02/08/25 13:41	1
Chromium	0.00310	J	0.0500	0.00300	mg/L		02/07/25 06:12	02/08/25 13:41	1
Cobalt	ND		0.0500	0.00125	mg/L		02/07/25 06:12	02/08/25 13:41	1
Copper	ND		0.0500	0.00159	mg/L		02/07/25 06:12	02/08/25 13:41	1
Calcium	54.5		2.00	0.0839	mg/L		02/07/25 06:12	02/08/25 13:41	1
Lead	ND		0.0500	0.00598	mg/L		02/07/25 06:12	02/08/25 13:41	1
Molybdenum	0.0118	J	0.0500	0.00592	mg/L		02/07/25 06:12	02/08/25 13:41	1
Nickel	ND		0.0500	0.00146	mg/L		02/07/25 06:12	02/08/25 13:41	1
Selenium	ND		0.100	0.0118	mg/L		02/07/25 06:12	02/08/25 13:41	1
Iron	0.224	J	0.500	0.0559	mg/L		02/07/25 06:12	02/08/25 13:41	1
Silver	ND		0.0100	0.00340	mg/L		02/07/25 06:12	02/08/25 13:41	1
Thallium	ND		0.0500	0.00863	mg/L		02/07/25 06:12	02/08/25 13:41	1
Vanadium	0.00890	J	0.0100	0.00171	mg/L		02/07/25 06:12	02/08/25 13:41	1
Magnesium	14.1		0.500	0.0703	mg/L		02/07/25 06:12	02/08/25 13:41	1
Zinc	ND		0.250	0.00460	mg/L		02/07/25 06:12	02/08/25 13:41	1
Manganese	0.0445	J	0.0500	0.00129	mg/L		02/07/25 06:12	02/08/25 13:41	1
Sodium	30.0		2.00	0.186	mg/L		02/07/25 06:12	02/08/25 13:41	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.100	0.0147	mg/L		02/07/25 06:12	02/08/25 14:01	1
Arsenic	ND		0.100	0.00965	mg/L		02/07/25 06:12	02/08/25 14:01	1
Barium	0.0561		0.0100	0.000730	mg/L		02/07/25 06:12	02/08/25 14:01	1
Beryllium	ND		0.0100	0.000660	mg/L		02/07/25 06:12	02/08/25 14:01	1
Cadmium	ND		0.0100	0.000450	mg/L		02/07/25 06:12	02/08/25 14:01	1
Chromium	ND		0.0500	0.00300	mg/L		02/07/25 06:12	02/08/25 14:01	1
Cobalt	ND		0.0500	0.00125	mg/L		02/07/25 06:12	02/08/25 14:01	1
Copper	ND		0.0500	0.00159	mg/L		02/07/25 06:12	02/08/25 14:01	1
Calcium	55.1		2.00	0.0839	mg/L		02/07/25 06:12	02/08/25 14:01	1
Lead	ND		0.0500	0.00598	mg/L		02/07/25 06:12	02/08/25 14:01	1
Molybdenum	0.0100	J	0.0500	0.00592	mg/L		02/07/25 06:12	02/08/25 14:01	1
Nickel	ND		0.0500	0.00146	mg/L		02/07/25 06:12	02/08/25 14:01	1
Selenium	ND		0.100	0.0118	mg/L		02/07/25 06:12	02/08/25 14:01	1
Iron	0.170	J	0.500	0.0559	mg/L		02/07/25 06:12	02/08/25 14:01	1
Silver	ND		0.0100	0.00340	mg/L		02/07/25 06:12	02/08/25 14:01	1
Thallium	ND		0.0500	0.00863	mg/L		02/07/25 06:12	02/08/25 14:01	1
Vanadium	0.00860	J	0.0100	0.00171	mg/L		02/07/25 06:12	02/08/25 14:01	1
Magnesium	14.2		0.500	0.0703	mg/L		02/07/25 06:12	02/08/25 14:01	1
Zinc	ND		0.250	0.00460	mg/L		02/07/25 06:12	02/08/25 14:01	1
Manganese	0.0431	J	0.0500	0.00129	mg/L		02/07/25 06:12	02/08/25 14:01	1
Sodium	30.1		2.00	0.186	mg/L		02/07/25 06:12	02/08/25 14:01	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: SW846 7470A - Mercury (CVAA)

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		02/07/25 12:15	02/07/25 17:31	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		02/07/25 12:15	02/07/25 17:29	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	194		7.05	0.499	mg/L			02/09/25 16:49	1
Calcium hardness as calcium carbonate	136		4.99	0.209	mg/L			02/09/25 16:49	1
Magnesium hardness as calcium carbonate	58.0		2.06	0.289	mg/L			02/09/25 16:49	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	196		7.05	0.499	mg/L			02/09/25 16:49	1
Calcium hardness as calcium carbonate	138		4.99	0.209	mg/L			02/09/25 16:49	1
Magnesium hardness as calcium carbonate	58.4		2.06	0.289	mg/L			02/09/25 16:49	1

Client Sample Results

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

General Chemistry

Client Sample ID: Zone 1A-Explorer Well-391

Date Collected: 02/05/25 15:35

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	200		5.00	2.18	mg/L			02/13/25 01:16	1
Bicarbonate (as CaCO3) (SM 2320B)	200		5.00	2.18	mg/L			02/13/25 01:16	1
Carbonate (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			02/13/25 01:16	1
Hydroxide (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			02/13/25 01:16	1
Specific Conductance (SM 2510B)	514		1.00	1.00	umhos/cm			02/13/25 01:16	1
Total Dissolved Solids (SM 2540C)	265		10.0	8.35	mg/L			02/11/25 13:34	1
pH (SM 4500 H+ B)	7.9	HF	0.01	0.01	S.U.			02/11/25 16:21	1
MBAS (SM 5540C)	ND		0.200	0.0520	mg/L		02/06/25 13:35	02/06/25 16:00	1

Client Sample ID: Zone 1B-Explorer Well-391

Date Collected: 02/05/25 15:45

Date Received: 02/05/25 18:53

Lab Sample ID: 570-216860-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3) (SM 2320B)	200		5.00	2.18	mg/L			02/13/25 01:24	1
Bicarbonate (as CaCO3) (SM 2320B)	200		5.00	2.18	mg/L			02/13/25 01:24	1
Carbonate (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			02/13/25 01:24	1
Hydroxide (as CaCO3) (SM 2320B)	ND		5.00	2.18	mg/L			02/13/25 01:24	1
Specific Conductance (SM 2510B)	514		1.00	1.00	umhos/cm			02/13/25 01:24	1
Total Dissolved Solids (SM 2540C)	301		10.0	8.35	mg/L			02/11/25 13:34	1
pH (SM 4500 H+ B)	8.0	HF	0.01	0.01	S.U.			02/11/25 16:21	1
MBAS (SM 5540C)	ND		0.200	0.0520	mg/L		02/06/25 13:35	02/06/25 16:01	1

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (60-140)	BFB (60-140)	DBFM (60-140)	TOL (60-140)
570-216860-1	Zone 1A-Explorer Well-391	98	96	99	98
570-216860-2	Zone 1B-Explorer Well-391	98	96	100	98
LCS 570-531367/1002	Lab Control Sample	91	99	96	99
LCSD 570-531367/3	Lab Control Sample Dup	91	96	96	102
MB 570-531367/5	Method Blank	90	95	95	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-123)	BFB (80-120)	DBFM (78-120)	TOL (80-120)
570-216860-1	Zone 1A-Explorer Well-391	98	96	99	98
570-216860-2	Zone 1B-Explorer Well-391	98	96	100	98
570-216860-3	FB-Explorer Well-391	91	95	94	96
570-216860-4	EB-Explorer Well-391	92	93	96	97
LCS 570-531366/1002	Lab Control Sample	91	99	96	99
LCSD 570-531366/3	Lab Control Sample Dup	91	96	96	102
MB 570-531366/5	Method Blank	90	95	95	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
570-216860-1	Zone 1A-Explorer Well-391	117	94.6	112	126	115	111	105	90.3
570-216860-2	Zone 1B-Explorer Well-391	115	107	117	136 *5+	118	120	107	97.6
570-216860-3	FB-Explorer Well-391	114	98.4	119	123	112	106	106	112
570-216860-4	EB-Explorer Well-391	115	98.1	123	126	108	119	110	105
LCS 320-832350/3-A	Lab Control Sample	118	112	114	132 *5+	117	119	97.6	99.1
LCS 320-832350/4-A	Lab Control Sample Dup	126	108	131 *5+	136 *5+	111	125	105	100
LLCS 320-832350/2-A	Lab Control Sample	119	96.9	116	121	117	111	108	95.8
MB 320-832350/1-A	Method Blank	117	93.4	108	116	112	114	99.9	93.2

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
570-216860-1	Zone 1A-Explorer Well-391	93.9	83.2	105	118	106	107	107	104
570-216860-2	Zone 1B-Explorer Well-391	97.4	92.5	106	124	115	115	121	115
570-216860-3	FB-Explorer Well-391	109	101	101	117	108	104	113	108
570-216860-4	EB-Explorer Well-391	97.6	92.5	102	111	115	110	121	118
LCS 320-832350/3-A	Lab Control Sample	90.1	80.5	115	114	108	102	107	103
LCS 320-832350/4-A	Lab Control Sample Dup	101	86.0	108	114	114	107	115	114
LLCS 320-832350/2-A	Lab Control Sample	96.0	81.1	106	119	117	101	115	106
MB 320-832350/1-A	Method Blank	90.3	78.7	97.7	108	111	97.5	105	101

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (40-200)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
570-216860-1	Zone 1A-Explorer Well-391	87.9	116	104	102	86.4	91.9
570-216860-2	Zone 1B-Explorer Well-391	87.5	120	127	115	99.2	111
570-216860-3	FB-Explorer Well-391	95.3	115	112	113	96.4	94.3
570-216860-4	EB-Explorer Well-391	94.4	113	120	115	97.2	100
LCS 320-832350/3-A	Lab Control Sample	83.9	113	114	108	80.3	77.9
LCS 320-832350/4-A	Lab Control Sample Dup	86.4	124	125	119	91.7	95.5
LLCS 320-832350/2-A	Lab Control Sample	90.6	116	116	108	83.1	88.2
MB 320-832350/1-A	Method Blank	80.2	103	108	109	88.6	89.6

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M262FTS = 13C2 6:2 FTS

Isotope Dilution Summary

Client: Geosyntec Consultants Inc

Job ID: 570-216860-1

Project/Site: HPA110005

HFPODA = 13C3 HFPO-DA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

d3NMFSA = d3-NMePFOSA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M242FTS (40-200)	M282FTS (40-300)
570-216860-1 - RA	Zone 1A-Explorer Well-391	129	117
570-216860-2 - RA	Zone 1B-Explorer Well-391	142	102
570-216860-3 - RA	FB-Explorer Well-391	145	106
570-216860-4 - RA	EB-Explorer Well-391	156	133
LCS 320-832350/3-A - RA	Lab Control Sample	126	122
LCSD 320-832350/4-A - RA	Lab Control Sample Dup	125	113
LLCS 320-832350/2-A - RA	Lab Control Sample	143	107
MB 320-832350/1-A - RA	Method Blank	123	105

Surrogate Legend

M242FTS = 13C2 4:2 FTS

M282FTS = 13C2 8:2 FTS

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-531367/5

Matrix: Water

Analysis Batch: 531367

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.35	ug/L			02/07/25 20:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.33	ug/L			02/07/25 20:50	1
1,1-Dichloroethane	ND		1.0	0.29	ug/L			02/07/25 20:50	1
1,1-Dichloroethene	ND		1.0	0.38	ug/L			02/07/25 20:50	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			02/07/25 20:50	1
1,2-Dichloroethane	ND		0.50	0.21	ug/L			02/07/25 20:50	1
1,2-Dichloropropane	ND		1.0	0.49	ug/L			02/07/25 20:50	1
1,3-Dichlorobenzene	ND		1.0	0.23	ug/L			02/07/25 20:50	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			02/07/25 20:50	1
Benzene	ND		0.50	0.30	ug/L			02/07/25 20:50	1
Bromodichloromethane	ND		1.0	0.24	ug/L			02/07/25 20:50	1
Bromoform	ND		1.0	0.46	ug/L			02/07/25 20:50	1
Bromomethane	ND		5.0	3.7	ug/L			02/07/25 20:50	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			02/07/25 20:50	1
cis-1,3-Dichloropropene	ND		0.50	0.21	ug/L			02/07/25 20:50	1
Carbon tetrachloride	ND		0.50	0.45	ug/L			02/07/25 20:50	1
Chlorobenzene	ND		1.0	0.20	ug/L			02/07/25 20:50	1
Chloroethane	ND		1.0	0.54	ug/L			02/07/25 20:50	1
Chloroform	ND		1.0	0.26	ug/L			02/07/25 20:50	1
Chloromethane	ND		1.0	0.65	ug/L			02/07/25 20:50	1
Dibromochloromethane	ND		1.0	0.25	ug/L			02/07/25 20:50	1
Dichlorodifluoromethane	ND		1.0	0.63	ug/L			02/07/25 20:50	1
Ethylbenzene	ND		1.0	0.23	ug/L			02/07/25 20:50	1
Methylene Chloride	ND		2.0	0.83	ug/L			02/07/25 20:50	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.24	ug/L			02/07/25 20:50	1
o-Xylene	ND		1.0	0.24	ug/L			02/07/25 20:50	1
m,p-Xylene	ND		1.0	0.48	ug/L			02/07/25 20:50	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L			02/07/25 20:50	1
trans-1,3-Dichloropropene	ND		0.50	0.33	ug/L			02/07/25 20:50	1
Tetrachloroethene	ND		1.0	0.39	ug/L			02/07/25 20:50	1
Toluene	ND		1.0	0.19	ug/L			02/07/25 20:50	1
Trichloroethene	ND		1.0	0.41	ug/L			02/07/25 20:50	1
Trichlorofluoromethane	ND		5.0	2.6	ug/L			02/07/25 20:50	1
Vinyl chloride	ND		0.50	0.36	ug/L			02/07/25 20:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		60 - 140		02/07/25 20:50	1
4-Bromofluorobenzene (Surr)	95		60 - 140		02/07/25 20:50	1
Dibromofluoromethane (Surr)	95		60 - 140		02/07/25 20:50	1
Toluene-d8 (Surr)	98		60 - 140		02/07/25 20:50	1

Lab Sample ID: LCS 570-531367/1002

Matrix: Water

Analysis Batch: 531367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.60		ug/L		98	60 - 140

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-531367/1002

Matrix: Water

Analysis Batch: 531367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethane	20.0	21.02		ug/L		105	70 - 130
1,1-Dichloroethene	20.0	22.02		ug/L		110	50 - 150
1,2-Dichlorobenzene	20.0	19.23		ug/L		96	65 - 135
1,2-Dichloroethane	20.0	18.61		ug/L		93	70 - 130
1,2-Dichloropropane	20.0	18.91		ug/L		95	35 - 165
1,3-Dichlorobenzene	20.0	19.85		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	18.61		ug/L		93	65 - 135
Benzene	20.0	20.08		ug/L		100	65 - 135
Bromodichloromethane	20.0	19.22		ug/L		96	65 - 135
Bromoform	20.0	19.96		ug/L		100	70 - 130
Bromomethane	20.0	17.70		ug/L		89	15 - 185
cis-1,2-Dichloroethene	20.0	20.44		ug/L		102	60 - 140
cis-1,3-Dichloropropene	20.0	22.06		ug/L		110	25 - 175
Carbon tetrachloride	20.0	19.56		ug/L		98	70 - 130
Chlorobenzene	20.0	20.83		ug/L		104	65 - 135
Chloroethane	20.0	21.00		ug/L		105	40 - 160
Chloroform	20.0	18.01		ug/L		90	70 - 135
Chloromethane	20.0	18.46		ug/L		92	1 - 205
Dibromochloromethane	20.0	19.85		ug/L		99	70 - 135
Dichlorodifluoromethane	20.0	16.04		ug/L		80	60 - 140
Ethylbenzene	20.0	20.31		ug/L		102	60 - 140
Methylene Chloride	20.0	23.70		ug/L		119	60 - 140
Methyl-t-Butyl Ether (MTBE)	20.0	21.60		ug/L		108	60 - 140
o-Xylene	20.0	21.24		ug/L		106	60 - 140
m,p-Xylene	40.0	41.23		ug/L		103	60 - 140
trans-1,2-Dichloroethene	20.0	23.26		ug/L		116	70 - 130
trans-1,3-Dichloropropene	20.0	16.40		ug/L		82	50 - 150
Tetrachloroethene	20.0	21.47		ug/L		107	70 - 130
Toluene	20.0	19.82		ug/L		99	70 - 130
Trichloroethene	20.0	19.93		ug/L		100	65 - 135
Trichlorofluoromethane	20.0	21.79		ug/L		109	50 - 150
Vinyl chloride	20.0	20.01		ug/L		100	5 - 195

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
4-Bromofluorobenzene (Surr)	99		60 - 140
Dibromofluoromethane (Surr)	96		60 - 140
Toluene-d8 (Surr)	99		60 - 140

Lab Sample ID: LCSD 570-531367/3

Matrix: Water

Analysis Batch: 531367

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
1,1,1-Trichloroethane	20.0	19.32		ug/L		97	70 - 130	2	36
1,1,1,2,2-Tetrachloroethane	20.0	21.48		ug/L		107	60 - 140	9	61
1,1-Dichloroethane	20.0	19.44		ug/L		97	70 - 130	8	40
1,1-Dichloroethene	20.0	22.61		ug/L		113	50 - 150	3	32

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-531367/3

Matrix: Water

Analysis Batch: 531367

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
1,2-Dichlorobenzene	20.0	19.87		ug/L		99	65 - 135	3	57
1,2-Dichloroethane	20.0	19.20		ug/L		96	70 - 130	3	49
1,2-Dichloropropane	20.0	20.03		ug/L		100	35 - 165	6	55
1,3-Dichlorobenzene	20.0	20.76		ug/L		104	70 - 130	5	43
1,4-Dichlorobenzene	20.0	19.52		ug/L		98	65 - 135	5	57
Benzene	20.0	20.67		ug/L		103	65 - 135	3	61
Bromodichloromethane	20.0	19.50		ug/L		98	65 - 135	1	56
Bromoform	20.0	21.01		ug/L		105	70 - 130	5	42
Bromomethane	20.0	18.75		ug/L		94	15 - 185	6	61
cis-1,2-Dichloroethene	20.0	20.71		ug/L		104	60 - 140	1	30
cis-1,3-Dichloropropene	20.0	23.21		ug/L		116	25 - 175	5	58
Carbon tetrachloride	20.0	19.46		ug/L		97	70 - 130	1	41
Chlorobenzene	20.0	20.69		ug/L		103	65 - 135	1	53
Chloroethane	20.0	23.89		ug/L		119	40 - 160	13	78
Chloroform	20.0	17.91		ug/L		90	70 - 135	1	30
Chloromethane	20.0	18.20		ug/L		91	1 - 205	1	60
Dibromochloromethane	20.0	19.79		ug/L		99	70 - 135	0	50
Dichlorodifluoromethane	20.0	15.62		ug/L		78	60 - 140	3	30
Ethylbenzene	20.0	20.66		ug/L		103	60 - 140	2	63
Methylene Chloride	20.0	23.26		ug/L		116	60 - 140	2	28
Methyl-t-Butyl Ether (MTBE)	20.0	22.25		ug/L		111	60 - 140	3	30
o-Xylene	20.0	21.49		ug/L		107	60 - 140	1	30
m,p-Xylene	40.0	41.80		ug/L		104	60 - 140	1	30
trans-1,2-Dichloroethene	20.0	23.62		ug/L		118	70 - 130	2	45
trans-1,3-Dichloropropene	20.0	16.56		ug/L		83	50 - 150	1	86
Tetrachloroethene	20.0	21.30		ug/L		106	70 - 130	1	39
Toluene	20.0	20.33		ug/L		102	70 - 130	3	41
Trichloroethene	20.0	20.37		ug/L		102	65 - 135	2	48
Trichlorofluoromethane	20.0	23.18		ug/L		116	50 - 150	6	84
Vinyl chloride	20.0	20.97		ug/L		105	5 - 195	5	66

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		60 - 140
4-Bromofluorobenzene (Surr)	96		60 - 140
Dibromofluoromethane (Surr)	96		60 - 140
Toluene-d8 (Surr)	102		60 - 140

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

Lab Sample ID: MB 570-531366/5

Matrix: Water

Analysis Batch: 531366

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		2.0	0.36	ug/L			02/07/25 20:50	1
1,1,1-Trichloroethane	ND		1.0	0.36	ug/L			02/07/25 20:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.31	ug/L			02/07/25 20:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	2.5	ug/L			02/07/25 20:50	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			02/07/25 20:50	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Lab Sample ID: MB 570-531366/5

Matrix: Water

Analysis Batch: 531366

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	ND		1.0	0.34	ug/L			02/07/25 20:50	1
1,1-Dichloroethene	ND		1.0	0.42	ug/L			02/07/25 20:50	1
1,1-Dichloropropene	ND		1.0	0.41	ug/L			02/07/25 20:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.59	ug/L			02/07/25 20:50	1
1,2,3-Trichloropropane	ND		5.0	0.42	ug/L			02/07/25 20:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.71	ug/L			02/07/25 20:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			02/07/25 20:50	1
1,2-Dibromo-3-Chloropropane	ND		10	2.1	ug/L			02/07/25 20:50	1
1,2-Dibromoethane	ND		1.0	0.41	ug/L			02/07/25 20:50	1
1,2-Dichlorobenzene	ND		1.0	0.26	ug/L			02/07/25 20:50	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/07/25 20:50	1
1,2-Dichloropropane	ND		1.0	0.42	ug/L			02/07/25 20:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.50	ug/L			02/07/25 20:50	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			02/07/25 20:50	1
1,3-Dichloropropane	ND		1.0	0.32	ug/L			02/07/25 20:50	1
1,4-Dichlorobenzene	ND		1.0	0.28	ug/L			02/07/25 20:50	1
2,2-Dichloropropane	ND		1.0	0.50	ug/L			02/07/25 20:50	1
2-Butanone (MEK)	ND		10	4.5	ug/L			02/07/25 20:50	1
2-Chlorotoluene	ND		1.0	0.33	ug/L			02/07/25 20:50	1
2-Hexanone	ND		10	2.7	ug/L			02/07/25 20:50	1
4-Chlorotoluene	ND		1.0	0.35	ug/L			02/07/25 20:50	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.2	ug/L			02/07/25 20:50	1
Acetone	ND		10	7.4	ug/L			02/07/25 20:50	1
Benzene	ND		0.50	0.24	ug/L			02/07/25 20:50	1
Bromobenzene	ND		1.0	0.29	ug/L			02/07/25 20:50	1
Bromochloromethane	ND		2.0	0.38	ug/L			02/07/25 20:50	1
Bromodichloromethane	ND		1.0	0.29	ug/L			02/07/25 20:50	1
Bromoform	ND		5.0	1.9	ug/L			02/07/25 20:50	1
Bromomethane	ND		25	7.4	ug/L			02/07/25 20:50	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			02/07/25 20:50	1
cis-1,3-Dichloropropene	ND		0.50	0.26	ug/L			02/07/25 20:50	1
Carbon disulfide	ND		10	0.42	ug/L			02/07/25 20:50	1
Carbon tetrachloride	ND		0.50	0.37	ug/L			02/07/25 20:50	1
Chlorobenzene	ND		1.0	0.26	ug/L			02/07/25 20:50	1
Chloroethane	ND		5.0	1.9	ug/L			02/07/25 20:50	1
Chloroform	ND		1.0	0.32	ug/L			02/07/25 20:50	1
Chloromethane	ND		10	2.2	ug/L			02/07/25 20:50	1
Dibromochloromethane	ND		2.0	0.37	ug/L			02/07/25 20:50	1
Dibromomethane	ND		1.0	0.33	ug/L			02/07/25 20:50	1
Dichlorodifluoromethane	ND		5.0	0.62	ug/L			02/07/25 20:50	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/07/25 20:50	1
Isopropylbenzene	ND		1.0	0.41	ug/L			02/07/25 20:50	1
Methylene Chloride	ND		10	3.0	ug/L			02/07/25 20:50	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.30	ug/L			02/07/25 20:50	1
Naphthalene	ND		10	4.9	ug/L			02/07/25 20:50	1
n-Butylbenzene	ND		1.0	0.53	ug/L			02/07/25 20:50	1
N-Propylbenzene	ND		1.0	0.47	ug/L			02/07/25 20:50	1
o-Xylene	ND		1.0	0.27	ug/L			02/07/25 20:50	1
m,p-Xylene	ND		2.0	0.49	ug/L			02/07/25 20:50	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Lab Sample ID: MB 570-531366/5

Matrix: Water

Analysis Batch: 531366

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	ND		1.0	0.47	ug/L			02/07/25 20:50	1
sec-Butylbenzene	ND		1.0	0.37	ug/L			02/07/25 20:50	1
Styrene	ND		1.0	0.38	ug/L			02/07/25 20:50	1
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L			02/07/25 20:50	1
trans-1,3-Dichloropropene	ND		0.50	0.31	ug/L			02/07/25 20:50	1
tert-Butylbenzene	ND		1.0	0.38	ug/L			02/07/25 20:50	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/07/25 20:50	1
Toluene	ND		1.0	0.30	ug/L			02/07/25 20:50	1
Trichloroethene	ND		1.0	0.39	ug/L			02/07/25 20:50	1
Trichlorofluoromethane	ND		10	0.75	ug/L			02/07/25 20:50	1
Vinyl acetate	ND		10	5.0	ug/L			02/07/25 20:50	1
Vinyl chloride	ND		0.50	0.43	ug/L			02/07/25 20:50	1
Xylenes, Total	ND		2.0	0.49	ug/L			02/07/25 20:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		70 - 123		02/07/25 20:50	1
4-Bromofluorobenzene (Surr)	95		80 - 120		02/07/25 20:50	1
Dibromofluoromethane (Surr)	95		78 - 120		02/07/25 20:50	1
Toluene-d8 (Surr)	98		80 - 120		02/07/25 20:50	1

Lab Sample ID: LCS 570-531366/1002

Matrix: Water

Analysis Batch: 531366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.89		ug/L		94	78 - 125
1,1,2,2-Tetrachloroethane	20.0	19.60		ug/L		98	79 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.04		ug/L		115	72 - 138
1,1,2-Trichloroethane	20.0	20.90		ug/L		104	80 - 124
1,1-Dichloroethane	20.0	21.02		ug/L		105	80 - 127
1,1-Dichloroethene	20.0	22.02		ug/L		110	80 - 133
1,1-Dichloropropene	20.0	18.91		ug/L		95	79 - 126
1,2,3-Trichlorobenzene	20.0	18.48		ug/L		92	79 - 128
1,2,3-Trichloropropane	20.0	17.59		ug/L		88	71 - 128
1,2,4-Trichlorobenzene	20.0	20.99		ug/L		105	77 - 126
1,2,4-Trimethylbenzene	20.0	20.25		ug/L		101	80 - 121
1,2-Dibromo-3-Chloropropane	20.0	16.17		ug/L		81	66 - 122
1,2-Dibromoethane	20.0	20.63		ug/L		103	80 - 120
1,2-Dichlorobenzene	20.0	19.23		ug/L		96	80 - 121
1,2-Dichloroethane	20.0	18.61		ug/L		93	77 - 122
1,2-Dichloropropane	20.0	18.91		ug/L		95	80 - 122
1,3,5-Trimethylbenzene	20.0	20.30		ug/L		101	80 - 123
1,3-Dichlorobenzene	20.0	19.85		ug/L		99	80 - 120
1,3-Dichloropropane	20.0	19.76		ug/L		99	80 - 121
1,4-Dichlorobenzene	20.0	18.61		ug/L		93	80 - 120
2,2-Dichloropropane	20.0	18.78		ug/L		94	68 - 143
2-Butanone (MEK)	20.0	18.09		ug/L		90	61 - 139

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Lab Sample ID: LCS 570-531366/1002

Matrix: Water

Analysis Batch: 531366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2-Chlorotoluene	20.0	19.33		ug/L		97	80 - 121
2-Hexanone	20.0	17.84		ug/L		89	63 - 134
4-Chlorotoluene	20.0	18.76		ug/L		94	80 - 121
4-Methyl-2-pentanone (MIBK)	20.0	16.39		ug/L		82	67 - 125
Acetone	20.0	23.70		ug/L		118	45 - 150
Benzene	20.0	20.08		ug/L		100	80 - 121
Bromobenzene	20.0	20.98		ug/L		105	80 - 120
Bromochloromethane	20.0	21.59		ug/L		108	80 - 121
Bromodichloromethane	20.0	19.22		ug/L		96	80 - 121
Bromoform	20.0	19.63		ug/L		98	78 - 124
Bromomethane	20.0	19.54	J	ug/L		98	48 - 156
cis-1,2-Dichloroethene	20.0	20.44		ug/L		102	80 - 125
cis-1,3-Dichloropropene	20.0	20.78		ug/L		104	80 - 120
Carbon disulfide	20.0	25.07		ug/L		125	76 - 129
Carbon tetrachloride	20.0	19.47		ug/L		97	71 - 137
Chlorobenzene	20.0	20.83		ug/L		104	80 - 120
Chloroethane	20.0	21.00		ug/L		105	73 - 138
Chloroform	20.0	18.01		ug/L		90	80 - 121
Chloromethane	20.0	18.46		ug/L		92	57 - 138
Dibromochloromethane	20.0	18.65		ug/L		93	80 - 126
Dibromomethane	20.0	20.00		ug/L		100	80 - 120
Dichlorodifluoromethane	20.0	16.04		ug/L		80	44 - 148
Ethylbenzene	20.0	20.31		ug/L		102	80 - 121
Isopropylbenzene	20.0	21.22		ug/L		106	80 - 121
Methylene Chloride	20.0	23.70		ug/L		119	80 - 121
Methyl-t-Butyl Ether (MTBE)	20.0	21.60		ug/L		108	78 - 123
Naphthalene	20.0	17.98		ug/L		90	65 - 133
n-Butylbenzene	20.0	19.99		ug/L		100	80 - 125
N-Propylbenzene	20.0	19.99		ug/L		100	80 - 125
o-Xylene	20.0	21.24		ug/L		106	80 - 122
m,p-Xylene	40.0	41.23		ug/L		103	80 - 123
p-Isopropyltoluene	20.0	19.54		ug/L		98	80 - 124
sec-Butylbenzene	20.0	20.06		ug/L		100	80 - 122
Styrene	20.0	21.19		ug/L		106	80 - 120
trans-1,2-Dichloroethene	20.0	23.26		ug/L		116	80 - 122
trans-1,3-Dichloropropene	20.0	19.40		ug/L		97	80 - 125
tert-Butylbenzene	20.0	20.79		ug/L		104	80 - 122
Tetrachloroethene	20.0	21.47		ug/L		107	80 - 122
Toluene	20.0	19.82		ug/L		99	80 - 120
Trichloroethene	20.0	19.93		ug/L		100	80 - 120
Trichlorofluoromethane	20.0	21.79		ug/L		109	67 - 142
Vinyl acetate	20.0	20.18		ug/L		101	62 - 140
Vinyl chloride	20.0	20.01		ug/L		100	66 - 136

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		70 - 123
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	96		78 - 120

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Lab Sample ID: LCS 570-531366/1002

Matrix: Water

Analysis Batch: 531366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 570-531366/3

Matrix: Water

Analysis Batch: 531366

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
1,1,1,2-Tetrachloroethane	20.0	20.72		ug/L		104	80 - 122	0	20
1,1,1-Trichloroethane	20.0	19.32		ug/L		97	78 - 125	2	20
1,1,2,2-Tetrachloroethane	20.0	21.48		ug/L		107	79 - 127	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.28		ug/L		116	72 - 138	1	20
1,1,2-Trichloroethane	20.0	20.59		ug/L		103	80 - 124	1	20
1,1-Dichloroethane	20.0	19.44		ug/L		97	80 - 127	8	20
1,1-Dichloroethene	20.0	22.61		ug/L		113	80 - 133	3	20
1,1-Dichloropropane	20.0	19.22		ug/L		96	79 - 126	2	20
1,2,3-Trichlorobenzene	20.0	20.59		ug/L		103	79 - 128	11	20
1,2,3-Trichloropropane	20.0	17.95		ug/L		90	71 - 128	2	20
1,2,4-Trichlorobenzene	20.0	21.04		ug/L		105	77 - 126	0	20
1,2,4-Trimethylbenzene	20.0	21.48		ug/L		107	80 - 121	6	20
1,2-Dibromo-3-Chloropropane	20.0	17.88		ug/L		89	66 - 122	10	20
1,2-Dibromoethane	20.0	20.79		ug/L		104	80 - 120	1	20
1,2-Dichlorobenzene	20.0	19.87		ug/L		99	80 - 121	3	20
1,2-Dichloroethane	20.0	19.20		ug/L		96	77 - 122	3	20
1,2-Dichloropropane	20.0	20.03		ug/L		100	80 - 122	6	20
1,3,5-Trimethylbenzene	20.0	20.26		ug/L		101	80 - 123	0	20
1,3-Dichlorobenzene	20.0	20.76		ug/L		104	80 - 120	5	20
1,3-Dichloropropane	20.0	20.44		ug/L		102	80 - 121	3	20
1,4-Dichlorobenzene	20.0	19.52		ug/L		98	80 - 120	5	20
2,2-Dichloropropane	20.0	18.96		ug/L		95	68 - 143	1	20
2-Butanone (MEK)	20.0	18.57		ug/L		93	61 - 139	3	25
2-Chlorotoluene	20.0	19.46		ug/L		97	80 - 121	1	20
2-Hexanone	20.0	17.77		ug/L		89	63 - 134	0	21
4-Chlorotoluene	20.0	20.20		ug/L		101	80 - 121	7	20
4-Methyl-2-pentanone (MIBK)	20.0	18.24		ug/L		91	67 - 125	11	20
Acetone	20.0	27.54		ug/L		138	45 - 150	15	23
Benzene	20.0	20.67		ug/L		103	80 - 121	3	20
Bromobenzene	20.0	20.50		ug/L		102	80 - 120	2	20
Bromochloromethane	20.0	21.42		ug/L		107	80 - 121	1	20
Bromodichloromethane	20.0	19.50		ug/L		98	80 - 121	1	20
Bromoform	20.0	20.61		ug/L		103	78 - 124	5	20
Bromomethane	20.0	20.70	J	ug/L		103	48 - 156	6	21
cis-1,2-Dichloroethene	20.0	20.71		ug/L		104	80 - 125	1	20
cis-1,3-Dichloropropene	20.0	21.77		ug/L		109	80 - 120	5	20
Carbon disulfide	20.0	24.50		ug/L		123	76 - 129	2	20
Carbon tetrachloride	20.0	19.37		ug/L		97	71 - 137	1	20
Chlorobenzene	20.0	20.69		ug/L		103	80 - 120	1	20
Chloroethane	20.0	23.89		ug/L		119	73 - 138	13	20
Chloroform	20.0	17.91		ug/L		90	80 - 121	1	20

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Lab Sample ID: LCSD 570-531366/3

Matrix: Water

Analysis Batch: 531366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Chloromethane	20.0	18.20		ug/L		91	57 - 138	1	20
Dibromochloromethane	20.0	18.59		ug/L		93	80 - 126	0	20
Dibromomethane	20.0	20.34		ug/L		102	80 - 120	2	20
Dichlorodifluoromethane	20.0	15.62		ug/L		78	44 - 148	3	28
Ethylbenzene	20.0	20.66		ug/L		103	80 - 121	2	20
Isopropylbenzene	20.0	21.45		ug/L		107	80 - 121	1	20
Methylene Chloride	20.0	23.26		ug/L		116	80 - 121	2	20
Methyl-t-Butyl Ether (MTBE)	20.0	22.25		ug/L		111	78 - 123	3	20
Naphthalene	20.0	18.73		ug/L		94	65 - 133	4	20
n-Butylbenzene	20.0	20.51		ug/L		103	80 - 125	3	20
N-Propylbenzene	20.0	19.86		ug/L		99	80 - 125	1	20
o-Xylene	20.0	21.49		ug/L		107	80 - 122	1	20
m,p-Xylene	40.0	41.80		ug/L		104	80 - 123	1	20
p-Isopropyltoluene	20.0	20.35		ug/L		102	80 - 124	4	20
sec-Butylbenzene	20.0	21.72		ug/L		109	80 - 122	8	20
Styrene	20.0	21.43		ug/L		107	80 - 120	1	20
trans-1,2-Dichloroethene	20.0	23.62		ug/L		118	80 - 122	2	20
trans-1,3-Dichloropropene	20.0	19.56		ug/L		98	80 - 125	1	20
tert-Butylbenzene	20.0	22.45		ug/L		112	80 - 122	8	20
Tetrachloroethene	20.0	21.30		ug/L		106	80 - 122	1	20
Toluene	20.0	20.33		ug/L		102	80 - 120	3	20
Trichloroethene	20.0	20.37		ug/L		102	80 - 120	2	20
Trichlorofluoromethane	20.0	23.18		ug/L		116	67 - 142	6	20
Vinyl acetate	20.0	20.93		ug/L		105	62 - 140	4	21
Vinyl chloride	20.0	20.97		ug/L		105	66 - 136	5	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		70 - 123
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	96		78 - 120
Toluene-d8 (Surr)	102		80 - 120

Method: SRL 524M - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-532378/4

Matrix: Water

Analysis Batch: 532378

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,3-Trichloropropane	ND		5.0	1.7	ng/L			02/11/25 12:28	1

Lab Sample ID: LCS 570-532378/5

Matrix: Water

Analysis Batch: 532378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
1,2,3-Trichloropropane	5.00	4.519	J	ng/L		90	80 - 120

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: SRL 524M - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-532378/6
Matrix: Water
Analysis Batch: 532378

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
1,2,3-Trichloropropane	5.00	4.580	J	ng/L		92	80 - 120	1	20

Lab Sample ID: 570-216860-1 DU
Matrix: Water
Analysis Batch: 532378

Client Sample ID: Zone 1A-Explorer Well-391
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
1,2,3-Trichloropropane	27		25.42		ng/L		4	30

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-530508/5
Matrix: Water
Analysis Batch: 530508

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.091	mg/L			02/06/25 00:35	1
Nitrate as N	ND		0.10	0.020	mg/L			02/06/25 00:35	1

Lab Sample ID: LCS 570-530508/6
Matrix: Water
Analysis Batch: 530508

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	2.50	2.455		mg/L		98	90 - 110
Nitrate as N	5.00	4.882		mg/L		98	90 - 110

Lab Sample ID: LCSD 570-530508/7
Matrix: Water
Analysis Batch: 530508

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	2.50	2.452		mg/L		98	90 - 110	0	15
Nitrate as N	5.00	4.885		mg/L		98	90 - 110	0	15

Lab Sample ID: MB 570-530511/5
Matrix: Water
Analysis Batch: 530511

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.36	mg/L			02/06/25 00:35	1
Sulfate	ND		1.0	0.18	mg/L			02/06/25 00:35	1

Lab Sample ID: LCS 570-530511/6
Matrix: Water
Analysis Batch: 530511

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	46.88		mg/L		94	90 - 110
Sulfate	50.0	47.19		mg/L		94	90 - 110

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 570-530511/7
Matrix: Water
Analysis Batch: 530511

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		
Chloride	50.0	46.94		mg/L		94	90 - 110	0	15	
Sulfate	50.0	47.27		mg/L		95	90 - 110	0	15	

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 570-531485/5
Matrix: Water
Analysis Batch: 531485

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perchlorate	ND		1.0	0.39	ug/L			02/08/25 07:10	1

Lab Sample ID: LCS 570-531485/6
Matrix: Water
Analysis Batch: 531485

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							RPD	Limit
Perchlorate	25.0	24.11		ug/L		96	85 - 115	

Lab Sample ID: LCSD 570-531485/7
Matrix: Water
Analysis Batch: 531485

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		
Perchlorate	25.0	24.46		ug/L		98	85 - 115	1	15	

Lab Sample ID: MRL 570-531485/3
Matrix: Water
Analysis Batch: 531485

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
							RPD	Limit
Perchlorate	1.00	1.153		ug/L		115	75 - 125	

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 320-832350/1-A
Matrix: Water
Analysis Batch: 832831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 832350

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.58	ng/L		02/10/25 04:35	02/12/25 03:52	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-832350/1-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 832350

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.81	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.53	ng/L		02/10/25 04:35	02/12/25 03:52	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	2.5	ng/L		02/10/25 04:35	02/12/25 03:52	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		02/10/25 04:35	02/12/25 03:52	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.39	ng/L		02/10/25 04:35	02/12/25 03:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.72	ng/L		02/10/25 04:35	02/12/25 03:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	0.58	ng/L		02/10/25 04:35	02/12/25 03:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0	0.50	ng/L		02/10/25 04:35	02/12/25 03:52	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 03:52	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		02/10/25 04:35	02/12/25 03:52	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		02/10/25 04:35	02/12/25 03:52	1
	MB	MB							
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	117		5 - 130				02/10/25 04:35	02/12/25 03:52	1
13C5 PFPeA	93.4		40 - 130				02/10/25 04:35	02/12/25 03:52	1
13C5 PFHxA	108		40 - 130				02/10/25 04:35	02/12/25 03:52	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 320-832350/1-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 832350

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFHpA	116		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C8 PFOA	112		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C9 PFNA	114		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C6 PFDA	99.9		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C7 PFUnA	93.2		30 - 130	02/10/25 04:35	02/12/25 03:52	1
13C2 PFDoA	90.3		10 - 130	02/10/25 04:35	02/12/25 03:52	1
13C2 PFTeDA	78.7		10 - 130	02/10/25 04:35	02/12/25 03:52	1
13C3 PFBS	97.7		40 - 135	02/10/25 04:35	02/12/25 03:52	1
13C3 PFHxS	108		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C8 PFOS	111		40 - 130	02/10/25 04:35	02/12/25 03:52	1
13C8 FOSA	97.5		40 - 130	02/10/25 04:35	02/12/25 03:52	1
d3-NMeFOSAA	105		40 - 170	02/10/25 04:35	02/12/25 03:52	1
d5-NEtFOSAA	101		25 - 135	02/10/25 04:35	02/12/25 03:52	1
13C2 6:2 FTS	80.2		40 - 200	02/10/25 04:35	02/12/25 03:52	1
13C3 HFPO-DA	103		40 - 130	02/10/25 04:35	02/12/25 03:52	1
d7-N-MeFOSE-M	108		10 - 130	02/10/25 04:35	02/12/25 03:52	1
d9-N-EtFOSE-M	109		10 - 130	02/10/25 04:35	02/12/25 03:52	1
d5-NEtPFOSA	88.6		10 - 130	02/10/25 04:35	02/12/25 03:52	1
d3-NMePFOSA	89.6		10 - 130	02/10/25 04:35	02/12/25 03:52	1

Lab Sample ID: LCS 320-832350/3-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	40.0	39.29		ng/L		98	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	38.91		ng/L		97	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	37.79		ng/L		94	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	32.82		ng/L		82	70 - 150
Perfluorononanoic acid (PFNA)	40.0	30.26		ng/L		76	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	36.22		ng/L		91	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	35.39		ng/L		88	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	37.99		ng/L		95	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	40.0	36.16		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	37.66		ng/L		94	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	34.37		ng/L		97	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	34.75		ng/L		92	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	31.57		ng/L		87	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	33.06		ng/L		87	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	30.97		ng/L		83	55 - 150

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-832350/3-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanesulfonic acid (PFNS)	38.5	33.02		ng/L		86	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	33.82		ng/L		88	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	30.23		ng/L		78	50 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	68.80		ng/L		90	65 - 155
Perfluorooctanesulfonamide (PFOSA)	40.0	33.51		ng/L		84	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	35.29		ng/L		88	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	35.10		ng/L		88	65 - 145
N-methylperfluorooctanesulfonamide (NMeFOSAA)	40.0	34.99		ng/L		87	50 - 140
N-ethylperfluorooctanesulfonamide (NEtFOSAA)	40.0	33.09		ng/L		83	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	152.4		ng/L		76	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	162.1		ng/L		81	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	23.62		ng/L		79	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	34.86		ng/L		92	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	39.20		ng/L		98	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	37.68		ng/L		94	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	43.41		ng/L		109	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.4	31.48		ng/L		84	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	31.94		ng/L		85	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	31.45		ng/L		88	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	72.18		ng/L		90	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	184.8		ng/L		92	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	174.7		ng/L		87	50 - 145

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	118		5 - 130
13C5 PFPeA	112		40 - 130
13C5 PFHxA	114		40 - 130
13C4 PFHpA	132	*5+	40 - 130
13C8 PFOA	117		40 - 130
13C9 PFNA	119		40 - 130

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 320-832350/3-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 832350

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C6 PFDA	97.6		40 - 130
13C7 PFUnA	99.1		30 - 130
13C2 PFDoA	90.1		10 - 130
13C2 PFTeDA	80.5		10 - 130
13C3 PFBS	115		40 - 135
13C3 PFHxS	114		40 - 130
13C8 PFOS	108		40 - 130
13C8 FOSA	102		40 - 130
d3-NMeFOSAA	107		40 - 170
d5-NEtFOSAA	103		25 - 135
13C2 6:2 FTS	83.9		40 - 200
13C3 HFPO-DA	113		40 - 130
d7-N-MeFOSE-M	114		10 - 130
d9-N-EtFOSE-M	108		10 - 130
d5-NEtPFOSA	80.3		10 - 130
d3-NMePFOSA	77.9		10 - 130

Lab Sample ID: LCSD 320-832350/4-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	80.0	62.78		ng/L		78	70 - 140	1	30
Perfluoropentanoic acid (PFPeA)	40.0	39.90		ng/L		100	65 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	29.40		ng/L		74	70 - 145	28	30
Perfluoroheptanoic acid (PFHpA)	40.0	31.71		ng/L		79	70 - 150	17	30
Perfluorooctanoic acid (PFOA)	40.0	32.97		ng/L		82	70 - 150	0	30
Perfluorononanoic acid (PFNA)	40.0	30.45		ng/L		76	70 - 150	1	30
Perfluorodecanoic acid (PFDA)	40.0	33.24		ng/L		83	70 - 140	9	30
Perfluoroundecanoic acid (PFUnA)	40.0	34.85		ng/L		87	70 - 145	2	30
Perfluorododecanoic acid (PFDoA)	40.0	35.39		ng/L		88	70 - 140	7	30
Perfluorotridecanoic acid (PFTrDA)	40.0	34.18		ng/L		85	65 - 140	6	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	36.71		ng/L		92	60 - 140	3	30
Perfluorobutanesulfonic acid (PFBS)	35.5	33.20		ng/L		93	60 - 145	3	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	34.66		ng/L		92	65 - 140	0	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	32.03		ng/L		88	65 - 145	1	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	30.87		ng/L		81	70 - 150	7	30
Perfluorooctanesulfonic acid (PFOS)	37.2	28.54		ng/L		77	55 - 150	8	30
Perfluorononanesulfonic acid (PFNS)	38.5	29.93		ng/L		78	65 - 145	10	30
Perfluorodecanesulfonic acid (PFDS)	38.6	31.09		ng/L		81	60 - 145	8	30

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-832350/4-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanesulfonic acid (PFDoS)	38.8	29.25		ng/L		75	50 - 145	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	62.16		ng/L		82	65 - 155	10	30
Perfluorooctanesulfonamide (PFOSA)	40.0	32.27		ng/L		81	70 - 145	4	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	33.23		ng/L		83	60 - 150	6	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	35.43		ng/L		89	65 - 145	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	32.00		ng/L		80	50 - 140	9	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	31.81		ng/L		80	70 - 145	4	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	142.1		ng/L		71	70 - 145	7	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	146.6		ng/L		73	70 - 135	10	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	24.31		ng/L		81	70 - 140	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	30.52		ng/L		81	65 - 145	13	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	39.28		ng/L		98	55 - 140	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	40.08		ng/L		100	60 - 150	6	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	32.48		ng/L		81	50 - 150	29	30
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	37.4	29.76		ng/L		80	70 - 155	6	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.8	27.41		ng/L		73	55 - 160	15	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	30.78		ng/L		86	70 - 140	2	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	78.48		ng/L		98	65 - 130	8	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	155.8		ng/L		78	70 - 135	17	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	145.6		ng/L		73	50 - 145	18	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	126		5 - 130
13C5 PFPeA	108		40 - 130
13C5 PFHxA	131	*5+	40 - 130
13C4 PFHpA	136	*5+	40 - 130
13C8 PFOA	111		40 - 130
13C9 PFNA	125		40 - 130
13C6 PFDA	105		40 - 130
13C7 PFUnA	100		30 - 130
13C2 PFDoA	101		10 - 130
13C2 PFTeDA	86.0		10 - 130

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCSD 320-832350/4-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 832350

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C3 PFBS	108		40 - 135
13C3 PFHxS	114		40 - 130
13C8 PFOS	114		40 - 130
13C8 FOSA	107		40 - 130
d3-NMeFOSAA	115		40 - 170
d5-NEtFOSAA	114		25 - 135
13C2 6:2 FTS	86.4		40 - 200
13C3 HFPO-DA	124		40 - 130
d7-N-MeFOSE-M	125		10 - 130
d9-N-EtFOSE-M	119		10 - 130
d5-NEtPFOSA	91.7		10 - 130
d3-NMePFOSA	95.5		10 - 130

Lab Sample ID: LLCS 320-832350/2-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	8.00	6.964		ng/L		87	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.497		ng/L		112	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	3.252		ng/L		81	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	3.855		ng/L		96	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	3.755		ng/L		94	70 - 150
Perfluorononanoic acid (PFNA)	4.00	3.802		ng/L		95	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.592		ng/L		90	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.078		ng/L		102	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.883		ng/L		97	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	3.580		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.889		ng/L		97	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.775		ng/L		106	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.711		ng/L		99	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.613		ng/L		99	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.307		ng/L		87	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.256		ng/L		88	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.102		ng/L		81	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	2.960		ng/L		77	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.605		ng/L		67	50 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	7.484		ng/L		98	65 - 155

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-832350/2-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorooctanesulfonamide (PFOSA)	4.00	3.579		ng/L		89	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	3.616		ng/L		90	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	3.816		ng/L		95	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	3.460		ng/L		87	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.549		ng/L		89	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	15.46		ng/L		77	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	15.97		ng/L		80	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.563		ng/L		85	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.291		ng/L		87	65 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.762		ng/L		119	55 - 140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.687		ng/L		117	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.925		ng/L		123	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	3.74	3.218		ng/L		86	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.78	2.793		ng/L		74	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.463		ng/L		97	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	9.059		ng/L		113	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	17.67		ng/L		88	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	16.56		ng/L		83	50 - 145

Isotope Dilution	LLCS	LLCS	Limits
	%Recovery	Qualifier	
13C4 PFBA	119		5 - 130
13C5 PFPeA	96.9		40 - 130
13C5 PFHxA	116		40 - 130
13C4 PFHpA	121		40 - 130
13C8 PFOA	117		40 - 130
13C9 PFNA	111		40 - 130
13C6 PFDA	108		40 - 130
13C7 PFUnA	95.8		30 - 130
13C2 PFDoA	96.0		10 - 130
13C2 PFTeDA	81.1		10 - 130
13C3 PFBS	106		40 - 135
13C3 PFHxS	119		40 - 130
13C8 PFOS	117		40 - 130

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 320-832350/2-A

Matrix: Water

Analysis Batch: 832831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 832350

Isotope Dilution	LLCS LLCS		Limits
	%Recovery	Qualifier	
13C8 FOSA	101		40 - 130
d3-NMeFOSAA	115		40 - 170
d5-NEtFOSAA	106		25 - 135
13C2 6:2 FTS	90.6		40 - 200
13C3 HFPO-DA	116		40 - 130
d7-N-MeFOSE-M	116		10 - 130
d9-N-EtFOSE-M	108		10 - 130
d5-NEtPFOSA	83.1		10 - 130
d3-NMePFOSA	88.2		10 - 130

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA

Lab Sample ID: MB 320-832350/1-A

Matrix: Water

Analysis Batch: 833012

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 832350

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 12:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	ND		4.0	1.0	ng/L		02/10/25 04:35	02/12/25 12:01	1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 4:2 FTS - RA	123		40 - 200	02/10/25 04:35	02/12/25 12:01	1
13C2 8:2 FTS - RA	105		40 - 300	02/10/25 04:35	02/12/25 12:01	1

Lab Sample ID: LCS 320-832350/3-A

Matrix: Water

Analysis Batch: 833012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	75.0	63.73		ng/L		85	70 - 145
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	76.8	59.81		ng/L		78	60 - 150

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 4:2 FTS - RA	126		40 - 200
13C2 8:2 FTS - RA	122		40 - 300

Lab Sample ID: LCSD 320-832350/4-A

Matrix: Water

Analysis Batch: 833012

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 832350

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	75.0	57.38		ng/L		76	70 - 145	10	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	76.8	66.07		ng/L		86	60 - 150	10	30

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RA (Continued)

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C2 4:2 FTS - RA	125		40 - 200
13C2 8:2 FTS - RA	113		40 - 300

Lab Sample ID: LLCS 320-832350/2-A
Matrix: Water
Analysis Batch: 833012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 832350

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) - RA	7.50	6.306		ng/L		84	70 - 145
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) - RA	7.68	7.641		ng/L		99	60 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C2 4:2 FTS - RA	143		40 - 200
13C2 8:2 FTS - RA	107		40 - 300

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-531065/1-A
Matrix: Water
Analysis Batch: 531834

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 531065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.100	0.0147	mg/L		02/07/25 06:12	02/08/25 13:34	1
Arsenic	ND		0.100	0.00965	mg/L		02/07/25 06:12	02/08/25 13:34	1
Barium	ND		0.0100	0.000730	mg/L		02/07/25 06:12	02/08/25 13:34	1
Beryllium	ND		0.0100	0.000660	mg/L		02/07/25 06:12	02/08/25 13:34	1
Cadmium	ND		0.0100	0.000450	mg/L		02/07/25 06:12	02/08/25 13:34	1
Chromium	ND		0.0500	0.00300	mg/L		02/07/25 06:12	02/08/25 13:34	1
Cobalt	ND		0.0500	0.00125	mg/L		02/07/25 06:12	02/08/25 13:34	1
Copper	ND		0.0500	0.00159	mg/L		02/07/25 06:12	02/08/25 13:34	1
Calcium	ND		2.00	0.0839	mg/L		02/07/25 06:12	02/08/25 13:34	1
Lead	ND		0.0500	0.00598	mg/L		02/07/25 06:12	02/08/25 13:34	1
Molybdenum	ND		0.0500	0.00592	mg/L		02/07/25 06:12	02/08/25 13:34	1
Nickel	ND		0.0500	0.00146	mg/L		02/07/25 06:12	02/08/25 13:34	1
Selenium	ND		0.100	0.0118	mg/L		02/07/25 06:12	02/08/25 13:34	1
Iron	ND		0.500	0.0559	mg/L		02/07/25 06:12	02/08/25 13:34	1
Silver	ND		0.0100	0.00340	mg/L		02/07/25 06:12	02/08/25 13:34	1
Thallium	ND		0.0500	0.00863	mg/L		02/07/25 06:12	02/08/25 13:34	1
Vanadium	ND		0.0100	0.00171	mg/L		02/07/25 06:12	02/08/25 13:34	1
Magnesium	ND		0.500	0.0703	mg/L		02/07/25 06:12	02/08/25 13:34	1
Zinc	ND		0.250	0.00460	mg/L		02/07/25 06:12	02/08/25 13:34	1
Manganese	ND		0.0500	0.00129	mg/L		02/07/25 06:12	02/08/25 13:34	1
Sodium	ND		2.00	0.186	mg/L		02/07/25 06:12	02/08/25 13:34	1

Lab Sample ID: LCS 570-531065/2-A
Matrix: Water
Analysis Batch: 531834

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 531065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.4715		mg/L		94	85 - 115
Arsenic	0.500	0.4751		mg/L		95	85 - 115

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-531065/2-A
Matrix: Water
Analysis Batch: 531834

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 531065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Barium	0.500	0.4761		mg/L		95	85 - 115	
Beryllium	0.500	0.4746		mg/L		95	85 - 115	
Cadmium	0.500	0.4794		mg/L		96	85 - 115	
Chromium	0.500	0.4866		mg/L		97	85 - 115	
Cobalt	0.500	0.4833		mg/L		97	85 - 115	
Copper	0.500	0.4803		mg/L		96	85 - 115	
Calcium	2.50	2.395		mg/L		96	85 - 115	
Lead	0.500	0.4815		mg/L		96	85 - 115	
Molybdenum	0.500	0.4693		mg/L		94	85 - 115	
Nickel	0.500	0.4843		mg/L		97	85 - 115	
Selenium	0.500	0.4758		mg/L		95	85 - 115	
Iron	0.500	0.4687	J	mg/L		94	85 - 115	
Silver	0.250	0.2390		mg/L		96	85 - 115	
Thallium	0.500	0.4830		mg/L		97	85 - 115	
Vanadium	0.500	0.4770		mg/L		95	85 - 115	
Magnesium	2.50	2.387		mg/L		95	85 - 115	
Zinc	0.500	0.4825		mg/L		97	85 - 115	
Manganese	0.500	0.4814		mg/L		96	85 - 115	
Sodium	5.00	4.733		mg/L		95	85 - 115	

Lab Sample ID: LCSD 570-531065/3-A
Matrix: Water
Analysis Batch: 531834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 531065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
Antimony	0.500	0.4684		mg/L		94	85 - 115	1	20	
Arsenic	0.500	0.4819		mg/L		96	85 - 115	1	20	
Barium	0.500	0.4771		mg/L		95	85 - 115	0	20	
Beryllium	0.500	0.4765		mg/L		95	85 - 115	0	20	
Cadmium	0.500	0.4814		mg/L		96	85 - 115	0	20	
Chromium	0.500	0.4891		mg/L		98	85 - 115	1	20	
Cobalt	0.500	0.4835		mg/L		97	85 - 115	0	20	
Copper	0.500	0.4816		mg/L		96	85 - 115	0	20	
Calcium	2.50	2.406		mg/L		96	85 - 115	0	20	
Lead	0.500	0.4830		mg/L		97	85 - 115	0	20	
Molybdenum	0.500	0.4708		mg/L		94	85 - 115	0	20	
Nickel	0.500	0.4867		mg/L		97	85 - 115	0	20	
Selenium	0.500	0.4835		mg/L		97	85 - 115	2	20	
Iron	0.500	0.4729	J	mg/L		95	85 - 115	1	20	
Silver	0.250	0.2405		mg/L		96	85 - 115	1	20	
Thallium	0.500	0.4854		mg/L		97	85 - 115	0	20	
Vanadium	0.500	0.4777		mg/L		96	85 - 115	0	20	
Magnesium	2.50	2.418		mg/L		97	85 - 115	1	20	
Zinc	0.500	0.4844		mg/L		97	85 - 115	0	20	
Manganese	0.500	0.4825		mg/L		97	85 - 115	0	20	
Sodium	5.00	4.759		mg/L		95	85 - 115	1	20	

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 570-216860-1 MS
Matrix: Water
Analysis Batch: 531834

Client Sample ID: Zone 1A-Explorer Well-391
Prep Type: Total Recoverable
Prep Batch: 531065

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Antimony	ND		0.500	0.4868		mg/L		97	80 - 120	
Arsenic	ND		0.500	0.4917		mg/L		98	80 - 120	
Barium	0.0562		0.500	0.5220		mg/L		93	80 - 120	
Beryllium	ND		0.500	0.4773		mg/L		95	80 - 120	
Cadmium	ND		0.500	0.4689		mg/L		94	80 - 120	
Chromium	0.00310	J	0.500	0.4856		mg/L		97	80 - 120	
Cobalt	ND		0.500	0.4616		mg/L		92	80 - 120	
Copper	ND		0.500	0.4807		mg/L		96	80 - 120	
Calcium	54.5		2.50	54.79	4	mg/L		14	80 - 120	
Lead	ND		0.500	0.4683		mg/L		94	80 - 120	
Molybdenum	0.0118	J	0.500	0.4851		mg/L		95	80 - 120	
Nickel	ND		0.500	0.4549		mg/L		91	80 - 120	
Selenium	ND		0.500	0.4752		mg/L		95	80 - 120	
Iron	0.224	J	0.500	0.6942		mg/L		94	80 - 120	
Silver	ND		0.250	0.2403		mg/L		96	80 - 120	
Thallium	ND		0.500	0.4700		mg/L		94	80 - 120	
Vanadium	0.00890	J	0.500	0.4903		mg/L		96	80 - 120	
Magnesium	14.1		2.50	15.83	4	mg/L		70	80 - 120	
Zinc	ND		0.500	0.4704		mg/L		94	80 - 120	
Manganese	0.0445	J	0.500	0.5130		mg/L		94	80 - 120	
Sodium	30.0		5.00	33.38	4	mg/L		68	80 - 120	

Lab Sample ID: 570-216860-1 MSD
Matrix: Water
Analysis Batch: 531834

Client Sample ID: Zone 1A-Explorer Well-391
Prep Type: Total Recoverable
Prep Batch: 531065

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Antimony	ND		0.500	0.5032		mg/L		101	80 - 120	3	20	
Arsenic	ND		0.500	0.4979		mg/L		100	80 - 120	1	20	
Barium	0.0562		0.500	0.5332		mg/L		95	80 - 120	2	20	
Beryllium	ND		0.500	0.4888		mg/L		98	80 - 120	2	20	
Cadmium	ND		0.500	0.4788		mg/L		96	80 - 120	2	20	
Chromium	0.00310	J	0.500	0.4967		mg/L		99	80 - 120	2	20	
Cobalt	ND		0.500	0.4685		mg/L		94	80 - 120	1	20	
Copper	ND		0.500	0.4906		mg/L		98	80 - 120	2	20	
Calcium	54.5		2.50	55.25	4	mg/L		32	80 - 120	1	20	
Lead	ND		0.500	0.4764		mg/L		95	80 - 120	2	20	
Molybdenum	0.0118	J	0.500	0.4960		mg/L		97	80 - 120	2	20	
Nickel	ND		0.500	0.4663		mg/L		93	80 - 120	2	20	
Selenium	ND		0.500	0.4894		mg/L		98	80 - 120	3	20	
Iron	0.224	J	0.500	0.7050		mg/L		96	80 - 120	2	20	
Silver	ND		0.250	0.2439		mg/L		98	80 - 120	1	20	
Thallium	ND		0.500	0.4837		mg/L		97	80 - 120	3	20	
Vanadium	0.00890	J	0.500	0.5009		mg/L		98	80 - 120	2	20	
Magnesium	14.1		2.50	15.97	4	mg/L		75	80 - 120	1	20	
Zinc	ND		0.500	0.4814		mg/L		96	80 - 120	2	20	
Manganese	0.0445	J	0.500	0.5246		mg/L		96	80 - 120	2	20	
Sodium	30.0		5.00	33.61	4	mg/L		73	80 - 120	1	20	

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 570-531238/1-A
Matrix: Water
Analysis Batch: 531380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	0.000124	mg/L		02/07/25 12:15	02/07/25 17:08	1

Lab Sample ID: LCS 570-531238/2-A
Matrix: Water
Analysis Batch: 531380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00800	0.008362		mg/L		105	80 - 120

Lab Sample ID: LCSD 570-531238/3-A
Matrix: Water
Analysis Batch: 531380

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 531238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00800	0.008103		mg/L		101	80 - 120	3	10

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 570-533457/114
Matrix: Water
Analysis Batch: 533457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (As CaCO3)	ND		5.00	2.18	mg/L			02/12/25 23:42	1
Bicarbonate (as CaCO3)	ND		5.00	2.18	mg/L			02/12/25 23:42	1
Carbonate (as CaCO3)	ND		5.00	2.18	mg/L			02/12/25 23:42	1
Hydroxide (as CaCO3)	ND		5.00	2.18	mg/L			02/12/25 23:42	1

Lab Sample ID: LCS 570-533457/112
Matrix: Water
Analysis Batch: 533457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity, Total (As CaCO3)	106	102.5		mg/L		97	78 - 110

Lab Sample ID: LCSD 570-533457/113
Matrix: Water
Analysis Batch: 533457

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
Alkalinity, Total (As CaCO3)	106	100.6		mg/L		95	78 - 110	2	10

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 570-533458/114
Matrix: Water
Analysis Batch: 533458

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.00	1.00	umhos/cm			02/12/25 23:42	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

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

Lab Sample ID: MB 570-532541/1
Matrix: Water
Analysis Batch: 532541

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	8.35	mg/L			02/11/25 13:34	1

Lab Sample ID: LCS 570-532541/2
Matrix: Water
Analysis Batch: 532541

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	1000	932.0		mg/L		93	84 - 108

Lab Sample ID: LCSD 570-532541/3
Matrix: Water
Analysis Batch: 532541

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 Dissolved Solids	1000	920.0		mg/L		92	84 - 108	1	10

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 570-530786/5-A
Matrix: Water
Analysis Batch: 530862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MBAS	ND		0.200	0.0520	mg/L		02/06/25 13:35	02/06/25 15:55	1

Lab Sample ID: LCS 570-530786/6-A
Matrix: Water
Analysis Batch: 530862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
MBAS	0.500	0.4701		mg/L		94	83 - 122

Lab Sample ID: LCSD 570-530786/7-A
Matrix: Water
Analysis Batch: 530862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 530786

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
MBAS	0.500	0.4614		mg/L		92	83 - 122	2	10

Lab Sample ID: 570-216860-1 MS
Matrix: Water
Analysis Batch: 530862

Client Sample ID: Zone 1A-Explorer Well-391
Prep Type: Total/NA
Prep Batch: 530786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
MBAS	ND		0.500	0.4094		mg/L		82	64 - 141

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Method: SM 5540C - Methylene Blue Active Substances (MBAS) (Continued)

Lab Sample ID: 570-216860-1 MSD

Matrix: Water

Analysis Batch: 530862

Client Sample ID: Zone 1A-Explorer Well-391

Prep Type: Total/NA

Prep Batch: 530786

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
MBAS	ND		0.500	0.4082		mg/L		82	64 - 141	0	10

QC Association Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

GC/MS VOA

Analysis Batch: 531366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	8260B	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	8260B	
570-216860-3	FB-Explorer Well-391	Total/NA	Water	8260B	
570-216860-4	EB-Explorer Well-391	Total/NA	Water	8260B	
MB 570-531366/5	Method Blank	Total/NA	Water	8260B	
LCS 570-531366/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-531366/3	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 531367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	624.1	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	624.1	
MB 570-531367/5	Method Blank	Total/NA	Water	624.1	
LCS 570-531367/1002	Lab Control Sample	Total/NA	Water	624.1	
LCSD 570-531367/3	Lab Control Sample Dup	Total/NA	Water	624.1	

Analysis Batch: 532378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	SRL 524M	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	SRL 524M	
MB 570-532378/4	Method Blank	Total/NA	Water	SRL 524M	
LCS 570-532378/5	Lab Control Sample	Total/NA	Water	SRL 524M	
LCSD 570-532378/6	Lab Control Sample Dup	Total/NA	Water	SRL 524M	
570-216860-1 DU	Zone 1A-Explorer Well-391	Total/NA	Water	SRL 524M	

HPLC/IC

Analysis Batch: 530508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	300.0	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	300.0	
MB 570-530508/5	Method Blank	Total/NA	Water	300.0	
LCS 570-530508/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-530508/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 530511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	300.0	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	300.0	
MB 570-530511/5	Method Blank	Total/NA	Water	300.0	
LCS 570-530511/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-530511/7	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 531485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	314.0 LL	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	314.0 LL	
MB 570-531485/5	Method Blank	Total/NA	Water	314.0 LL	
LCS 570-531485/6	Lab Control Sample	Total/NA	Water	314.0 LL	
LCSD 570-531485/7	Lab Control Sample Dup	Total/NA	Water	314.0 LL	
MRL 570-531485/3	Lab Control Sample	Total/NA	Water	314.0 LL	

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

LCMS

Prep Batch: 832350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	1633	
570-216860-1 - RA	Zone 1A-Explorer Well-391	Total/NA	Water	1633	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	1633	
570-216860-2 - RA	Zone 1B-Explorer Well-391	Total/NA	Water	1633	
570-216860-3	FB-Explorer Well-391	Total/NA	Water	1633	
570-216860-3 - RA	FB-Explorer Well-391	Total/NA	Water	1633	
570-216860-4	EB-Explorer Well-391	Total/NA	Water	1633	
570-216860-4 - RA	EB-Explorer Well-391	Total/NA	Water	1633	
MB 320-832350/1-A	Method Blank	Total/NA	Water	1633	
MB 320-832350/1-A - RA	Method Blank	Total/NA	Water	1633	
LCS 320-832350/3-A	Lab Control Sample	Total/NA	Water	1633	
LCS 320-832350/3-A - RA	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-832350/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LCSD 320-832350/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-832350/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-832350/2-A - RA	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 832831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	1633	832350
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	1633	832350
570-216860-3	FB-Explorer Well-391	Total/NA	Water	1633	832350
570-216860-4	EB-Explorer Well-391	Total/NA	Water	1633	832350
MB 320-832350/1-A	Method Blank	Total/NA	Water	1633	832350
LCS 320-832350/3-A	Lab Control Sample	Total/NA	Water	1633	832350
LCSD 320-832350/4-A	Lab Control Sample Dup	Total/NA	Water	1633	832350
LLCS 320-832350/2-A	Lab Control Sample	Total/NA	Water	1633	832350

Analysis Batch: 833012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1 - RA	Zone 1A-Explorer Well-391	Total/NA	Water	1633	832350
570-216860-2 - RA	Zone 1B-Explorer Well-391	Total/NA	Water	1633	832350
570-216860-3 - RA	FB-Explorer Well-391	Total/NA	Water	1633	832350
570-216860-4 - RA	EB-Explorer Well-391	Total/NA	Water	1633	832350
MB 320-832350/1-A - RA	Method Blank	Total/NA	Water	1633	832350
LCS 320-832350/3-A - RA	Lab Control Sample	Total/NA	Water	1633	832350
LCSD 320-832350/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	832350
LLCS 320-832350/2-A - RA	Lab Control Sample	Total/NA	Water	1633	832350

Metals

Prep Batch: 531065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total Recoverable	Water	200.7	
570-216860-2	Zone 1B-Explorer Well-391	Total Recoverable	Water	200.7	
MB 570-531065/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-531065/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-531065/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-216860-1 MS	Zone 1A-Explorer Well-391	Total Recoverable	Water	200.7	
570-216860-1 MSD	Zone 1A-Explorer Well-391	Total Recoverable	Water	200.7	

QC Association Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

Metals

Prep Batch: 531238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	7470A	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	7470A	
MB 570-531238/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-531238/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-531238/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 531380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	7470A	531238
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	7470A	531238
MB 570-531238/1-A	Method Blank	Total/NA	Water	7470A	531238
LCS 570-531238/2-A	Lab Control Sample	Total/NA	Water	7470A	531238
LCSD 570-531238/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	531238

Analysis Batch: 531763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total Recoverable	Water	SM 2340B	
570-216860-2	Zone 1B-Explorer Well-391	Total Recoverable	Water	SM 2340B	

Analysis Batch: 531834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total Recoverable	Water	200.7 Rev 4.4	531065
570-216860-2	Zone 1B-Explorer Well-391	Total Recoverable	Water	200.7 Rev 4.4	531065
MB 570-531065/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	531065
LCS 570-531065/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	531065
LCSD 570-531065/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	531065
570-216860-1 MS	Zone 1A-Explorer Well-391	Total Recoverable	Water	200.7 Rev 4.4	531065
570-216860-1 MSD	Zone 1A-Explorer Well-391	Total Recoverable	Water	200.7 Rev 4.4	531065

General Chemistry

Prep Batch: 530786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	SM 5540C	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	SM 5540C	
MB 570-530786/5-A	Method Blank	Total/NA	Water	SM 5540C	
LCS 570-530786/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	
LCSD 570-530786/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	
570-216860-1 MS	Zone 1A-Explorer Well-391	Total/NA	Water	SM 5540C	
570-216860-1 MSD	Zone 1A-Explorer Well-391	Total/NA	Water	SM 5540C	

Analysis Batch: 530862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	SM 5540C	530786
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	SM 5540C	530786
MB 570-530786/5-A	Method Blank	Total/NA	Water	SM 5540C	530786
LCS 570-530786/6-A	Lab Control Sample	Total/NA	Water	SM 5540C	530786
LCSD 570-530786/7-A	Lab Control Sample Dup	Total/NA	Water	SM 5540C	530786
570-216860-1 MS	Zone 1A-Explorer Well-391	Total/NA	Water	SM 5540C	530786
570-216860-1 MSD	Zone 1A-Explorer Well-391	Total/NA	Water	SM 5540C	530786

QC Association Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

General Chemistry

Analysis Batch: 532541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	SM 2540C	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	SM 2540C	
MB 570-532541/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-532541/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-532541/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 532649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	SM 4500 H+ B	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 533457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	SM 2320B	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	SM 2320B	
MB 570-533457/114	Method Blank	Total/NA	Water	SM 2320B	
LCS 570-533457/112	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 570-533457/113	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 533458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-216860-1	Zone 1A-Explorer Well-391	Total/NA	Water	SM 2510B	
570-216860-2	Zone 1B-Explorer Well-391	Total/NA	Water	SM 2510B	
MB 570-533458/114	Method Blank	Total/NA	Water	SM 2510B	

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Client Sample ID: Zone 1A-Explorer Well-391

Lab Sample ID: 570-216860-1

Date Collected: 02/05/25 15:35

Matrix: Water

Date Received: 02/05/25 18:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	531367	02/08/25 03:39	GC3Z	EET CAL 4
		Instrument ID: GCMSQQ								
Total/NA	Analysis	8260B		1	5 mL	5 mL	531366	02/08/25 03:39	GC3Z	EET CAL 4
		Instrument ID: GCMSQQ								
Total/NA	Analysis	SRL 524M		1	25 mL	25 mL	532378	02/11/25 13:58	N5PD	EET CAL 4
		Instrument ID: GCMS78								
Total/NA	Analysis	300.0		1	4 mL	4 mL	530508	02/06/25 19:16	U9XB	EET CAL 4
		Instrument ID: IC27								
Total/NA	Analysis	300.0		1	4 mL	4 mL	530511	02/06/25 19:16	U9XB	EET CAL 4
		Instrument ID: IC27								
Total/NA	Analysis	314.0 LL		1	5 mL	5 mL	531485	02/08/25 10:26	YO8L	EET CAL 4
		Instrument ID: IC25								
Total/NA	Prep	1633			160.8 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633		1			832831	02/12/25 05:14	N1K	EET SAC
		Instrument ID: A42								
Total/NA	Prep	1633	RA		160.8 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633	RA	1			833012	02/12/25 13:23	SEY	EET SAC
		Instrument ID: A45								
Total Recoverable	Prep	200.7			50 mL	50 mL	531065	02/07/25 06:12	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			531834	02/08/25 13:41	K1UV	EET CAL 4
		Instrument ID: ICP11								
Total/NA	Prep	7470A			25 mL	50 mL	531238	02/07/25 12:15	VCN7	EET CAL 4
Total/NA	Analysis	7470A		1			531380	02/07/25 17:31	RL6Q	EET CAL 4
		Instrument ID: HG9								
Total Recoverable	Analysis	SM 2340B		1			531763	02/09/25 16:49	P1R	EET CAL 4
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	533457	02/13/25 01:16	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2510B		1			533458	02/13/25 01:16	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	532541	02/11/25 13:34	ZL7L	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	SM 4500 H+ B		1			532649	02/11/25 16:21	UAPD	EET CAL 4
		Instrument ID: PH1								
Total/NA	Prep	SM 5540C			100 mL	100 mL	530786	02/06/25 13:35	PK4M	EET CAL 4
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	530862	02/06/25 16:00	PK4M	EET CAL 4
		Instrument ID: UV8								

Client Sample ID: Zone 1B-Explorer Well-391

Lab Sample ID: 570-216860-2

Date Collected: 02/05/25 15:45

Matrix: Water

Date Received: 02/05/25 18:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	531367	02/08/25 04:02	GC3Z	EET CAL 4
		Instrument ID: GCMSQQ								

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Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Client Sample ID: Zone 1B-Explorer Well-391

Lab Sample ID: 570-216860-2

Date Collected: 02/05/25 15:45

Matrix: Water

Date Received: 02/05/25 18:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	531366	02/08/25 04:02	GC3Z	EET CAL 4
Total/NA	Analysis	SRL 524M		1	25 mL	25 mL	532378	02/11/25 14:52	N5PD	EET CAL 4
		Instrument ID: GCMS78								
Total/NA	Analysis	300.0		1	4 mL	4 mL	530508	02/06/25 19:32	U9XB	EET CAL 4
		Instrument ID: IC27								
Total/NA	Analysis	300.0		1	4 mL	4 mL	530511	02/06/25 19:32	U9XB	EET CAL 4
		Instrument ID: IC27								
Total/NA	Analysis	314.0 LL		1	5 mL	5 mL	531485	02/08/25 10:44	YO8L	EET CAL 4
		Instrument ID: IC25								
Total/NA	Prep	1633			166.8 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633		1			832831	02/12/25 05:31	N1K	EET SAC
		Instrument ID: A42								
Total/NA	Prep	1633	RA		166.8 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633	RA	1			833012	02/12/25 15:18	SEY	EET SAC
		Instrument ID: A45								
Total Recoverable	Prep	200.7			50 mL	50 mL	531065	02/07/25 06:12	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			531834	02/08/25 14:01	K1UV	EET CAL 4
		Instrument ID: ICP11								
Total/NA	Prep	7470A			25 mL	50 mL	531238	02/07/25 12:15	VCN7	EET CAL 4
Total/NA	Analysis	7470A		1			531380	02/07/25 17:29	RL6Q	EET CAL 4
		Instrument ID: HG9								
Total Recoverable	Analysis	SM 2340B		1			531763	02/09/25 16:49	P1R	EET CAL 4
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2320B		1	10 mL	10 mL	533457	02/13/25 01:24	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2510B		1			533458	02/13/25 01:24	UAPD	EET CAL 4
		Instrument ID: ManSciMantech								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	532541	02/11/25 13:34	ZL7L	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	SM 4500 H+ B		1			532649	02/11/25 16:21	UAPD	EET CAL 4
		Instrument ID: PH1								
Total/NA	Prep	SM 5540C			100 mL	100 mL	530786	02/06/25 13:35	PK4M	EET CAL 4
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	530862	02/06/25 16:01	PK4M	EET CAL 4
		Instrument ID: UV8								

Client Sample ID: FB-Explorer Well-391

Lab Sample ID: 570-216860-3

Date Collected: 02/05/25 15:55

Matrix: Water

Date Received: 02/05/25 18:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	531366	02/07/25 21:58	GC3Z	EET CAL 4
		Instrument ID: GCMSQQ								
Total/NA	Prep	1633			167.1 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633		1			832831	02/12/25 05:47	N1K	EET SAC
		Instrument ID: A42								

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Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Client Sample ID: FB-Explorer Well-391

Lab Sample ID: 570-216860-3

Date Collected: 02/05/25 15:55

Matrix: Water

Date Received: 02/05/25 18:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1633	RA		167.1 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633	RA	1			833012	02/12/25 15:35	SEY	EET SAC
Instrument ID: A45										

Client Sample ID: EB-Explorer Well-391

Lab Sample ID: 570-216860-4

Date Collected: 02/05/25 16:15

Matrix: Water

Date Received: 02/05/25 18:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	531366	02/07/25 21:35	GC3Z	EET CAL 4
Instrument ID: GCMSQQ										
Total/NA	Prep	1633			160 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633		1			832831	02/12/25 06:04	N1K	EET SAC
Instrument ID: A42										
Total/NA	Prep	1633	RA		160 mL	5.0 mL	832350	02/10/25 04:35	RMF	EET SAC
Total/NA	Analysis	1633	RA	1			833012	02/12/25 15:51	SEY	EET SAC
Instrument ID: A45										

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
314.0 LL		Water	Perchlorate
624.1		Water	cis-1,2-Dichloroethene
624.1		Water	Dichlorodifluoromethane
624.1		Water	Methyl-t-Butyl Ether (MTBE)
8260B		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone (MEK)
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	Acetone
8260B		Water	Isopropylbenzene
8260B		Water	p-Isopropyltoluene
8260B		Water	Vinyl acetate
8260B		Water	Xylenes, Total
SM 2320B		Water	Bicarbonate (as CaCO ₃)
SM 2320B		Water	Carbonate (as CaCO ₃)
SM 2320B		Water	Hydroxide (as CaCO ₃)
SM 2340B		Water	Calcium hardness as calcium carbonate
SM 2340B		Water	Magnesium hardness as calcium carbonate
SRL 524M		Water	1,2,3-Trichloropropane

Oregon	NELAP	4175	02-02-26
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate (as CaCO ₃)
SM 2320B		Water	Carbonate (as CaCO ₃)
SM 2320B		Water	Hydroxide (as CaCO ₃)
SM 2340B		Water	Magnesium hardness as calcium carbonate

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468	01-20-27
Arizona	State	AZ0708	08-11-25

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005

Job ID: 570-216860-1

Laboratory: Eurofins Sacramento (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
Arkansas DEQ	State	88-0691	05-18-25
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-25
Florida	NELAP	E87570	06-30-25
Georgia	State	4040	01-29-26
Illinois	NELAP	200060	03-31-25
Kansas	NELAP	E-10375	10-31-25
Louisiana	NELAP	01944	06-30-25
Louisiana (All)	NELAP	01944	06-30-25
Maine	State	CA00004	04-14-26
Minnesota	NELAP	2749448	12-31-25
Nevada	State	CA00044	07-31-25
New Hampshire	NELAP	2997	04-19-25
New Jersey	NELAP	CA005	06-30-25
New York	NELAP	11666	04-01-25
Ohio	State	41252	01-29-26
Oregon	NELAP	4040	01-29-26
Texas	NELAP	T104704399-23-17	05-31-25
US Fish & Wildlife	US Federal Programs	A22139	04-30-25
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-25
Virginia	NELAP	460278	03-14-25
Washington	State	C581	05-05-25
West Virginia (DW)	State	9930C	01-31-26
Wisconsin	State	998204680	08-31-25
Wyoming	State Program	8TMS-L	01-28-19 *

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

Method Summary

Client: Geosyntec Consultants Inc
 Project/Site: HPA110005

Job ID: 570-216860-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CAL 4
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
SRL 524M	Volatile Organic Compounds (GC/MS)	CADHS	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
314.0 LL	Perchlorate (IC)	EPA	EET CAL 4
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET SAC
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
7470A	Mercury (CVAA)	SW846	EET CAL 4
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CAL 4
SM 2320B	Alkalinity	SM	EET CAL 4
SM 2510B	Conductivity, Specific Conductance	SM	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
SM 4500 H+ B	pH	SM	EET CAL 4
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EET CAL 4
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7470A	Preparation, Mercury	SW846	EET CAL 4
SM 5540C	Preparation, Methylene Blue Active Substances (MBAS)	SM	EET CAL 4

Protocol References:

- CADHS = California Department of Health Services
- EPA = US Environmental Protection Agency
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
- EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: HPA110005


Job ID: 570-216860-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-216860-1	Zone 1A-Explorer Well-391	Water	02/05/25 15:35	02/05/25 18:53
570-216860-2	Zone 1B-Explorer Well-391	Water	02/05/25 15:45	02/05/25 18:53
570-216860-3	FB-Explorer Well-391	Water	02/05/25 15:55	02/05/25 18:53
570-216860-4	EB-Explorer Well-391	Water	02/05/25 16:15	02/05/25 18:53

Eurofins Calscience

2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone (714) 895-5494

Chain of Custody Record

Client Information		Sampler: <i>Hilario Aguilar</i>		Lab PM: Nowak, Stephen		Carrier Tracking No(s):		COC No: 570-121264-24729.1	
Client Contact: Elizette Viramontes / Tara Rolfe		Phone: Tara Rolfe +1 626-788-4638		E-Mail: Stephen.Nowak@et.eurofinsus.com		State of Origin: CA		Page: Page 1 of 1	
Company: Geosyntec Consultants Inc				PWSID:		Analysis Requested			
Address: 440 E. Huntington Drive Suite 425		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2320B, 2510B, 2540C Calcd, 300 ORGFM_28D, 300_ORGFM_S, 314.0_LL, SM4500_H+ 200-7, 7470A, SM2340B 624.1 - Routine No A/A No 2-CEVE (14-day HT) 8260B - Routine Volatiles List (Full Spike) CA_SRL_524M_SIM - CA SRL 524M 1,2,3-Trichloropropane 5540C - Methylene Blue Active Substances (MBA S) 1633 - Final - Standard		Total Number of containers		Preservation Codes: N - None D - HNO3 A - HCL	
City: Arcadia		TAT Requested (days): 5 - Day TAT						Other:	
State, Zip: CA, 91006		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone: Tara Rolfe +1 626-788-4638		PO #: WO-HPA110004-3063							
Email: Elizette.Viramontes@Geosyntec.com / trolfe@geosyntec.com		WO #:							
Project Name: HPA110005		Project #: 57022737							
Site: Explorer Well		SSOW#:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Special Instructions/Note:	
1 Zone 1A - Explorer Well - 391		02/05/2025		1535		G Water		N D A A A N N	
2 Zone 1B - Explorer Well - 391		02/05/2025		1645		G Water		N D A A A N N	
3 FB - Explorer Well - 391		02/05/2025		1655		G Water		N D A A A N N	
4 EB - Explorer Well - 391		02/05/2025		1615		G Water		N D A A A N N	
 570-216860 Chain of Custody									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:		
Relinquished by: <i>[Signature]</i>			Date/Time: 2-5-25 / 1653		Company: G66		Received by: <i>[Signature]</i>		
Relinquished by: (Private courier)			Date/Time:		Company:		Received by: <i>[Signature]</i>		
Relinquished by:			Date/Time:		Company:		Received by: <i>[Signature]</i>		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 2.1/2.3 3.4/3.6 SC14				

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-216860-1

Login Number: 216860

List Source: Eurofins Calscience

List Number: 1

Creator: Vitente, Precy

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 570-216860-1

Login Number: 216860

List Number: 2

Creator: Morazzini, Dominic S

List Source: Eurofins Sacramento

List Creation: 02/07/25 11:16 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Elizette Viramontes
Geosyntec Consultants Inc
440 E. Huntington Drive
Suite 425
Arcadia, California 91006

Generated 6/3/2025 11:19:36 AM

JOB DESCRIPTION

Title 22

JOB NUMBER

380-147873-1

Eurofins Eaton Analytical Pomona

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and 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 Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW, Water matrices)

Authorization



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Authorized for release by
Monica Van Natta, Project Manager
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(559)326-4396



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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Dioxin

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
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	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Glossary (Continued)

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

Case Narrative

Client: Geosyntec Consultants Inc
Project: Title 22

Job ID: 380-147873-1

Job ID: 380-147873-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-147873-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 4/29/2025 7:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1°C and 2.9°C.

Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: Explorer Well T22 (380-147873-1), FIELD REAGENT BLANK (380-147873-2) and TRIP BLANK (380-147873-3). The client was contacted, and the laboratory was instructed to Provide a revised COC including the sampling time.

No time on COC, logged in per container labels.

The client was contacted by the PM and provided a revised COC that included the sample time.

-HNH4

Subcontract Work

Method Asbestos >10um: This method was subcontracted to Eurofins CEI Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA

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

GC/MS Semi VOA

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

GC Semi VOA

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

Herbicides

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

Pesticides/PCBs

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

HPLC/IC

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

Pesticides

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

LCMS

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

PFAS

Eurofins Eaton Analytical Pomona

Case Narrative

Client: Geosyntec Consultants Inc
Project: Title 22

Job ID: 380-147873-1

Job ID: 380-147873-1 (Continued)

Eurofins Eaton Analytical Pomona

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

Dioxin

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

Metals

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

General Chemistry

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

Gas Flow Proportional Counter

Method 905_Sr90: Strontium-90 prep batch 160-716561:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Explorer Well T22 (380-147873-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Liquid Scintillation Counter

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

Rad

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

Biology

Method 9215B_8H: The following sample was found to have a high value for the method listed below: Explorer Well T22 (380-147873-1).

SM9215B

HPC: 677 CFU/mL

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

Detection Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Trihalomethanes, Total	0.64		0.50	ug/L	1		524.2	Total/NA
Carbon tetrachloride	3.6		0.50	ug/L	1		524.2	Total/NA
Chloroform (Trichloromethane)	0.64		0.50	ug/L	1		524.2	Total/NA
1,2,3-Trichloropropane	0.013		0.0050	ug/L	1		SRL 524M	Total/NA
Hexavalent Chromium (CrVI)	1.2		0.020	ug/L	1		218.7	Total/NA
Chloride	21		0.50	mg/L	1		300.0	Total/NA
Nitrate as N	1.3		0.050	mg/L	1		300.0	Total/NA
Sulfate	35		0.25	mg/L	1		300.0	Total/NA
Perchlorate	4.9		0.50	ug/L	1		331.0	Total/NA
Calcium	50		0.10	mg/L	1		200.7	Total/NA
Iron	0.021		0.010	mg/L	1		200.7	Total/NA
Magnesium	13		0.10	mg/L	1		200.7	Total/NA
Potassium	2.4		0.10	mg/L	1		200.7	Total/NA
Sodium	33		0.10	mg/L	1		200.7	Total/NA
Arsenic	2.9		1.0	ug/L	1		200.8	Total/NA
Barium	50		2.0	ug/L	1		200.8	Total/NA
Chromium	1.9		0.90	ug/L	1		200.8	Total/NA
Copper	2.7		1.0	ug/L	1		200.8	Total/NA
Uranium	7.3		0.67	pCi/L	1		200.8	Total/NA
Turbidity	0.35		0.10	NTU	1		180.1	Total/NA
Odor	1.0		1.0	T.O.N.	1		SM 2150B	Total/NA
Total Alkalinity	190		4.0	mg/L	1		SM 2320B	Total/NA
Langelier Index	0.70			LangSU	1		SM 2330B	Total/NA
Specific Conductance	490		2.0	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	290		20	mg/L	1		SM 2540C	Total/NA
Fluoride	0.74		0.050	mg/L	1		SM 4500 F C	Total/NA
pH	8.1	HF	0.01	SU	1		SM 4500 H+ B	Total/NA
Heterotrophic Plate Count	677		1	CFU/mL	1		9215B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-147873-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Method: EPA-DW 524.2 - Total Trihalomethanes

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	0.64		0.50	ug/L			05/06/25 17:04	1

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	ug/L			04/29/25 23:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			04/29/25 23:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	ug/L			04/29/25 23:34	1
1,1,2-Trichloroethane	ND		0.50	ug/L			04/29/25 23:34	1
1,1-Dichloroethane	ND		0.50	ug/L			04/29/25 23:34	1
1,1-Dichloroethylene	ND		0.50	ug/L			04/29/25 23:34	1
1,2,4-Trichlorobenzene	ND		0.50	ug/L			04/29/25 23:34	1
1,2-Dichlorobenzene	ND		0.50	ug/L			04/29/25 23:34	1
1,2-Dichloroethane	ND		0.50	ug/L			04/29/25 23:34	1
1,2-Dichloroethene, Total	ND		0.50	ug/L			04/29/25 23:34	1
1,2-Dichloropropane	ND		0.50	ug/L			04/29/25 23:34	1
1,3-Dichloropropene, Total	ND		0.50	ug/L			04/29/25 23:34	1
1,4-Dichlorobenzene	ND		0.50	ug/L			04/29/25 23:34	1
Benzene	ND		0.50	ug/L			04/29/25 23:34	1
Bromodichloromethane	ND		0.50	ug/L			04/29/25 23:34	1
Bromoform	ND		0.50	ug/L			05/06/25 17:04	1
Carbon tetrachloride	3.6		0.50	ug/L			04/29/25 23:34	1
Chloroform (Trichloromethane)	0.64		0.50	ug/L			04/29/25 23:34	1
cis-1,2-Dichloroethylene	ND		0.50	ug/L			04/29/25 23:34	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/29/25 23:34	1
Dibromochloromethane	ND		0.50	ug/L			04/29/25 23:34	1
Dichloromethane	ND		0.50	ug/L			04/29/25 23:34	1
Ethylbenzene	ND		0.50	ug/L			04/29/25 23:34	1
m,p-Xylenes	ND		0.50	ug/L			04/29/25 23:34	1
Methyl-tert-butyl Ether (MTBE)	ND		0.50	ug/L			04/29/25 23:34	1
Monochlorobenzene	ND		0.50	ug/L			04/29/25 23:34	1
o-Xylene	ND		0.50	ug/L			04/29/25 23:34	1
Styrene	ND		0.50	ug/L			04/29/25 23:34	1
Tetrachloroethylene	ND		0.50	ug/L			04/29/25 23:34	1
Toluene	ND		0.50	ug/L			04/29/25 23:34	1
trans-1,2-Dichloroethylene	ND		0.50	ug/L			04/29/25 23:34	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/29/25 23:34	1
Trichloroethylene	ND		0.50	ug/L			04/29/25 23:34	1
Trichlorofluoromethane	ND		0.50	ug/L			04/29/25 23:34	1
Vinyl chloride	ND		0.30	ug/L			04/29/25 23:34	1
Xylenes, Total	ND		0.50	ug/L			04/29/25 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		04/29/25 23:34	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		05/06/25 17:04	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		05/06/25 17:26	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/29/25 23:34	1
4-Bromofluorobenzene (Surr)	106		70 - 130		05/06/25 17:04	1
4-Bromofluorobenzene (Surr)	104		70 - 130		05/06/25 17:26	1
Toluene-d8 (Surr)	104		70 - 130		04/29/25 23:34	1
Toluene-d8 (Surr)	90		70 - 130		05/06/25 17:04	1

Euofins Eaton Analytical Pomona

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		05/06/25 17:26	1

Method: CADHS SRL 524M - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	0.013		0.0050	ug/L			04/29/25 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/29/25 16:19	1

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	ND		0.050	ug/L		04/29/25 12:43	04/30/25 18:25	1
Atrazine	ND		0.050	ug/L		04/29/25 12:43	04/30/25 18:25	1
Benzo[a]pyrene	ND		0.020	ug/L		04/29/25 12:43	04/30/25 18:25	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		04/29/25 12:43	04/30/25 18:25	1
Di (2-ethylhexyl)phthalate	ND		0.59	ug/L		04/29/25 12:43	04/30/25 18:25	1
Endrin	ND		0.0099	ug/L		04/29/25 12:43	04/30/25 18:25	1
Heptachlor	ND		0.0099	ug/L		04/29/25 12:43	04/30/25 18:25	1
Heptachlor epoxide	ND		0.0099	ug/L		04/29/25 12:43	04/30/25 18:25	1
Hexachlorobenzene	ND		0.050	ug/L		04/29/25 12:43	04/30/25 18:25	1
Hexachlorocyclopentadiene	ND		0.050	ug/L		04/29/25 12:43	04/30/25 18:25	1
gamma-BHC (Lindane)	ND		0.0099	ug/L		04/29/25 12:43	04/30/25 18:25	1
Methoxychlor	ND		0.050	ug/L		04/29/25 12:43	04/30/25 18:25	1
Molinate	ND		0.099	ug/L		04/29/25 12:43	04/30/25 18:25	1
Simazine	ND		0.050	ug/L		04/29/25 12:43	04/30/25 18:25	1
Thiobencarb	ND	*+	0.099	ug/L		04/29/25 12:43	04/30/25 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	104		70 - 130	04/29/25 12:43	04/30/25 18:25	1
Triphenylphosphate	91		70 - 130	04/29/25 12:43	04/30/25 18:25	1
Perylene-d12	81		70 - 130	04/29/25 12:43	04/30/25 18:25	1

Method: EPA 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		5.0	ug/L		04/30/25 11:47	05/02/25 12:52	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (EDB)	ND		0.010	ug/L		04/30/25 11:45	04/30/25 17:14	1
Dibromochloropropane (DBCP)	ND		0.010	ug/L		04/30/25 11:45	04/30/25 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	97		60 - 140	04/30/25 11:45	04/30/25 17:14	1

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane	ND		0.10	ug/L		05/01/25 12:04	05/02/25 04:32	1
Toxaphene	ND		0.50	ug/L		05/01/25 12:04	05/02/25 04:32	1
PCB-1016	ND		0.070	ug/L		05/01/25 12:04	05/02/25 04:32	1
PCB-1221	ND		0.10	ug/L		05/01/25 12:04	05/02/25 04:32	1
PCB-1232	ND		0.10	ug/L		05/01/25 12:04	05/02/25 04:32	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Method: EPA 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.10	ug/L		05/01/25 12:04	05/02/25 04:32	1
PCB-1248	ND		0.10	ug/L		05/01/25 12:04	05/02/25 04:32	1
PCB-1254	ND		0.10	ug/L		05/01/25 12:04	05/02/25 04:32	1
PCB-1260	ND		0.070	ug/L		05/01/25 12:04	05/02/25 04:32	1
Polychlorinated biphenyls, Total	ND		0.10	ug/L		05/01/25 12:04	05/02/25 04:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		70 - 130			05/01/25 12:04	05/02/25 04:32	1

Method: EPA-DW 515.4 - Herbicides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-TP (Silvex)	ND		0.10	ug/L		04/30/25 09:42	05/01/25 05:12	1
Dinoseb	ND		0.20	ug/L		04/30/25 09:42	05/01/25 05:12	1
2,4-D	ND		0.10	ug/L		04/30/25 09:42	05/01/25 05:12	1
Bentazon	ND		0.50	ug/L		04/30/25 09:42	05/01/25 05:12	1
Pentachlorophenol	ND		0.040	ug/L		04/30/25 09:42	05/01/25 05:12	1
Dalapon	ND		1.0	ug/L		04/30/25 09:42	05/01/25 05:12	1
Picloram	ND		0.10	ug/L		04/30/25 09:42	05/01/25 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	109		70 - 130			04/30/25 09:42	05/01/25 05:12	1

Method: SM 6251B - Haloacetic Acids (HAAs) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Monobromoacetic acid	ND		1.0	ug/L		05/01/25 08:36	05/01/25 17:00	1
Monochloroacetic acid	ND		2.0	ug/L		05/01/25 08:36	05/01/25 17:00	1
Dibromoacetic acid	ND		1.0	ug/L		05/01/25 08:36	05/01/25 17:00	1
Dichloroacetic acid	ND		1.0	ug/L		05/01/25 08:36	05/01/25 17:00	1
Trichloroacetic acid	ND		1.0	ug/L		05/01/25 08:36	05/01/25 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,3-Dibromopropionic acid	102		70 - 130			05/01/25 08:36	05/01/25 17:00	1

Method: SM 6251B - Total Haloacetic Acids (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Haloacetic Acids 5	ND		2.0	ug/L			05/01/25 17:00	1

Method: EPA 218.7 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent Chromium (CrVI)	1.2		0.020	ug/L		04/29/25 11:09	04/30/25 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		0.50	mg/L			04/29/25 14:02	1
Chlorite	ND		10	ug/L			04/30/25 08:43	1
Nitrate as N	1.3		0.050	mg/L			04/29/25 14:02	1
Nitrite as N	ND		0.050	mg/L			04/29/25 14:02	1
Sulfate	35		0.25	mg/L			04/29/25 14:02	1

Method: EPA 317 - Bromate, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromate	ND		1.0	ug/L			04/30/25 07:49	1

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Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Method: EPA 531.2 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	ND		0.50	ug/L		04/30/25 12:03	04/30/25 18:41	1
Oxamyl	ND		0.50	ug/L		04/30/25 12:03	04/30/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
BDMC	110		70 - 130			04/30/25 12:03	04/30/25 18:41	1

Method: EPA 547 - Glyphosate (DAI HPLC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Glyphosate	ND		6.0	ug/L		04/29/25 13:01	04/29/25 18:41	1

Method: EPA 549.2 - Diquat and Paraquat (HPLC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diquat	ND		0.39	ug/L		04/29/25 14:38	04/30/25 23:09	1

Method: EPA 331.0 - Perchlorate (LC/MS/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	4.9		0.50	ug/L			04/30/25 06:45	1

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 07:36	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 07:36	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 07:36	1
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 07:36	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 07:36	1
Perfluorooctanoic acid (PFOA)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 07:36	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C6 PFDA	105		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C5 PFHxA	100		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C4 PFHpA	109		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C8 PFOA	104		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C9 PFNA	108		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C7 PFUnA	93		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C2 PFDoA	91		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C4 PFBA	106		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C5 PFPeA	102		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C3 PFBS	96		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C3 PFHxS	105		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C8 PFOS	105		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C2-4:2-FTS	110		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C2-6:2-FTS	101		50 - 200			04/30/25 16:07	05/01/25 07:36	1
13C2-8:2-FTS	98		50 - 200			04/30/25 16:07	05/01/25 07:36	1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorooctanoic acid (PFOA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorodecanoic acid (PFDA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorotetradecanoic acid (PFTA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 11:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130			04/30/25 16:45	05/01/25 11:05	1
13C2 PFHxA	102		70 - 130			04/30/25 16:45	05/01/25 11:05	1
13C2 PFDA	102		70 - 130			04/30/25 16:45	05/01/25 11:05	1
13C3-GenX	90		70 - 130			04/30/25 16:45	05/01/25 11:05	1

Method: Lab SOP In-House Method - Acrylamide (LC/MS/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylamide	ND		0.10	ug/L			05/01/25 10:11	1

Method: EPA 1613B - Tetra Chlorinated Dioxin (GC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		4.8		pg/L		05/01/25 09:09	05/02/25 15:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	63		31 - 137				05/01/25 09:09	05/02/25 15:42	1

Method: EPA 200.7 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	50		0.10	mg/L			04/30/25 12:51	1
Iron	0.021		0.010	mg/L			04/30/25 12:51	1
Magnesium	13		0.10	mg/L			04/30/25 12:51	1
Potassium	2.4		0.10	mg/L			04/30/25 12:51	1
Sodium	33		0.10	mg/L			04/30/25 12:51	1

Method: EPA 200.8 - Mercury (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20	ug/L			04/30/25 14:52	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	ug/L			04/30/25 14:52	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Method: EPA 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	ug/L			04/30/25 14:52	1
Arsenic	2.9		1.0	ug/L			04/30/25 14:52	1
Barium	50		2.0	ug/L			04/30/25 14:52	1
Beryllium	ND		0.30	ug/L			04/30/25 14:52	1
Cadmium	ND		0.50	ug/L			04/30/25 14:52	1
Chromium	1.9		0.90	ug/L			05/01/25 12:46	1
Copper	2.7		1.0	ug/L			04/30/25 14:52	1
Lead	ND		0.50	ug/L			04/30/25 14:52	1
Manganese	ND		2.0	ug/L			04/30/25 14:52	1
Nickel	ND		1.0	ug/L			04/30/25 14:52	1
Selenium	ND		2.0	ug/L			04/30/25 14:52	1
Silver	ND		0.50	ug/L			04/30/25 14:52	1
Thallium	ND		0.30	ug/L			04/30/25 14:52	1
Uranium	7.3		0.67	pCi/L			04/30/25 14:52	1
Zinc	ND		5.0	ug/L			04/30/25 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity (EPA 180.1)	0.35		0.10	NTU			04/29/25 12:58	1
Cyanide, Total (EPA 335.4)	ND		0.0050	mg/L		05/01/25 10:08	05/01/25 13:34	1
Chlorine dioxide, Residual (SM 4500 ClO2 D)	ND	HF	0.24	mg/L			05/05/25 14:39	1
Color, Apparent (SM 2120B)	ND		2.0	Color Units			04/29/25 11:28	1
Odor (SM 2150B)	1.0		1.0	T.O.N.			04/29/25 12:41	1
Total Alkalinity (SM 2320B)	190		4.0	mg/L			04/30/25 16:39	1
Langelier Index (SM 2330B)	0.70			LangSU			04/30/25 14:54	1
Specific Conductance (SM 2510B)	490		2.0	umhos/cm			04/30/25 16:39	1
Total Dissolved Solids (SM 2540C)	290		20	mg/L			04/29/25 13:53	1
Chlorine, Total Residual (SM 4500 Cl G)	ND	HF	0.050	mg/L			05/05/25 14:39	1
Fluoride (SM 4500 F C)	0.74		0.050	mg/L			04/30/25 18:45	1
pH (SM 4500 H+ B)	8.1	HF	0.01	SU			04/30/25 16:39	1
Methylene Blue Active Substances (SM 5540C)	ND		0.10	mg/L			04/29/25 14:59	1

Method: SM 7110B - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Gross Alpha	7.48		2.17		3.00	1.18	pCi/L	05/07/25 12:19	05/13/25 10:02	1
Gross Beta	3.36		1.69		4.00	1.55	pCi/L	05/07/25 12:19	05/13/25 10:02	1

Method: SM 7500 Ra D - Radium 226 Radium 228 Combined

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.000	U	0.83863		1.00	0.870	pCi/L		06/02/25 10:12	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Method: EPA 905 - Strontium-90 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	-0.208	U	0.416	0.417	3.00	0.474	pCi/L	05/08/25 09:24	05/19/25 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Sr Carrier	65.1		30 - 110					05/08/25 09:24	05/19/25 14:28	1
Y Carrier	84.5		30 - 110					05/08/25 09:24	05/19/25 14:28	1

Method: EPA 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-107	U	171	171	500	331	pCi/L	05/05/25 13:53	05/07/25 03:34	1

Method: SM7500 Ra B - Radium-226

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0700	U	0.120		1.00	0.170	pCi/L	05/14/25 10:18	06/02/25 10:12	1

Method: SM7500 Ra D - Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.150	U	0.830		1.00	0.870	pCi/L	05/14/25 10:10	05/29/25 11:34	1

Method: SM 9215B - Heterotrophic Plate Count

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heterotrophic Plate Count	677		1	CFU/mL			04/29/25 11:24	1

Method: SM 9223B - Coliforms, Total, and E.Coll (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Coliform	<1.0		1.0	MPN/100mL			04/29/25 13:42	1
E. Coli	<1.0		1.0	MPN/100mL			04/29/25 13:42	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-147873-3

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Method: CADHS SRL 524M - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.0050	ug/L			04/29/25 16:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130				04/29/25 16:41	1

Action Limit Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Trihalomethanes, Total	0.64		ug/L	80	0.50	524.2	Total/NA
1,1,1-Trichloroethane	ND		ug/L	200	0.50	524.2	Total/NA
1,1,2-Trichloroethane	ND		ug/L	5	0.50	524.2	Total/NA
1,1-Dichloroethylene	ND		ug/L	7	0.50	524.2	Total/NA
1,2,4-Trichlorobenzene	ND		ug/L	70	0.50	524.2	Total/NA
1,2-Dichlorobenzene	ND		ug/L	600	0.50	524.2	Total/NA
1,2-Dichloroethane	ND		ug/L	5	0.50	524.2	Total/NA
1,2-Dichloropropane	ND		ug/L	5	0.50	524.2	Total/NA
1,4-Dichlorobenzene	ND		ug/L	75	0.50	524.2	Total/NA
Benzene	ND		ug/L	5	0.50	524.2	Total/NA
Carbon tetrachloride	3.6		ug/L	5	0.50	524.2	Total/NA
cis-1,2-Dichloroethylene	ND		ug/L	70	0.50	524.2	Total/NA
Dichloromethane	ND		ug/L	5	0.50	524.2	Total/NA
Ethylbenzene	ND		ug/L	700	0.50	524.2	Total/NA
Monochlorobenzene	ND		ug/L	100	0.50	524.2	Total/NA
Styrene	ND		ug/L	100	0.50	524.2	Total/NA
Tetrachloroethylene	ND		ug/L	5	0.50	524.2	Total/NA
Toluene	ND		ug/L	1000	0.50	524.2	Total/NA
trans-1,2-Dichloroethylene	ND		ug/L	100	0.50	524.2	Total/NA
Trichloroethylene	ND		ug/L	5	0.50	524.2	Total/NA
Vinyl chloride	ND		ug/L	2	0.30	524.2	Total/NA
Xylenes, Total	ND		ug/L	10000	0.50	524.2	Total/NA
Alachlor	ND		ug/L	2	0.050	525.2	Total/NA
Atrazine	ND		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	ND		ug/L	0.2	0.020	525.2	Total/NA
Di(2-ethylhexyl)adipate	ND		ug/L	400	0.59	525.2	Total/NA
Di(2-ethylhexyl)phthalate	ND		ug/L	6	0.59	525.2	Total/NA
Endrin	ND		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	ND		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide	ND		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	ND		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	ND		ug/L	50	0.050	525.2	Total/NA
gamma-BHC (Lindane)	ND		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	ND		ug/L	40	0.050	525.2	Total/NA
Simazine	ND		ug/L	4	0.050	525.2	Total/NA
Endothall	ND		ug/L	100	5.0	548.1	Total/NA
Ethylene Dibromide (EDB)	ND		ug/L	0.05	0.010	504.1	Total/NA
Dibromochloropropane (DBCP)	ND		ug/L	0.2	0.010	504.1	Total/NA
Chlordane	ND		ug/L	2	0.10	505	Total/NA
Toxaphene	ND		ug/L	3	0.50	505	Total/NA
Polychlorinated biphenyls, Total	ND		ug/L	0.5	0.10	505	Total/NA
2,4,5-TP (Silvex)	ND		ug/L	50	0.10	515.4	Total/NA
Dinoseb	ND		ug/L	7	0.20	515.4	Total/NA
2,4-D	ND		ug/L	70	0.10	515.4	Total/NA
Pentachlorophenol	ND		ug/L	1	0.040	515.4	Total/NA
Dalapon	ND		ug/L	200	1.0	515.4	Total/NA
Picloram	ND		ug/L	500	0.10	515.4	Total/NA
Total Haloacetic Acids 5	ND		ug/L	60	2.0	6251B	Total/NA

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Action Limit Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22 (Continued)

Lab Sample ID: 380-147873-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Chlorite	ND		ug/L	1000	10	300.0	Total/NA
Nitrate as N	1.3		mg/L	10	0.050	300.0	Total/NA
Nitrite as N	ND		mg/L	1	0.050	300.0	Total/NA
Bromate	ND		ug/L	10	1.0	317	Total/NA
Carbofuran	ND		ug/L	40	0.50	531.2	Total/NA
Oxamyl	ND		ug/L	200	0.50	531.2	Total/NA
Glyphosate	ND		ug/L	700	6.0	547	Total/NA
Diquat	ND		ug/L	20	0.39	549.2	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	ND		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	ND		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	ND		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	ND		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	ND		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	ND		ng/L	10	2.0	EPA 537.1 V2	Total/NA
2,3,7,8-TCDD	ND		pg/L	30	4.8	1613B	Total/NA
Hg	ND		ug/L	2	0.20	200.8	Total/NA
Antimony	ND		ug/L	6	1.0	200.8	Total/NA
Arsenic	2.9		ug/L	10	1.0	200.8	Total/NA
Barium	50		ug/L	2000	2.0	200.8	Total/NA
Beryllium	ND		ug/L	4	0.30	200.8	Total/NA
Cadmium	ND		ug/L	5	0.50	200.8	Total/NA
Chromium	1.9		ug/L	100	0.90	200.8	Total/NA
Lead	ND		ug/L	15.000	0.50	200.8	Total/NA
Selenium	ND		ug/L	50	2.0	200.8	Total/NA
Thallium	ND		ug/L	2	0.30	200.8	Total/NA
Uranium	7.3		pCi/L	20	0.67	200.8	Total/NA
Cyanide, Total	ND		mg/L	0.2	0.0050	335.4	Total/NA
Chlorine dioxide, Residual	ND	HF	mg/L	0.8	0.24	4500 ClO2 D	Total/NA
Chlorine, Total Residual	ND	HF	mg/L	4	0.050	SM 4500 Cl G	Total/NA
Fluoride	0.74		mg/L	4	0.050	SM 4500 F C	Total/NA
Gross Alpha	7.48		pCi/L	15	3.00	7110B	Total/NA
Gross Beta	3.36		pCi/L	50	4.00	7110B	Total/NA
Combined Radium 226 + 228	0.000	U	pCi/L	5	1.00	7500 Ra D	Total/NA
Tritium	-107	U	pCi/L	2700	500	906.0	Total/NA

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DCA (70-130)	BFB (70-130)	TOL (70-130)
380-147873-1	Explorer Well T22	96	98	104
380-147873-1	Explorer Well T22	101	106	90
380-147873-1	Explorer Well T22	103	104	91
LCS 380-149908/3	Lab Control Sample	101	98	101
LCS 380-150850/11	Lab Control Sample	94	98	101
LCSD 380-149908/4	Lab Control Sample Dup	96	96	102
LCSD 380-150850/12	Lab Control Sample Dup	96	100	101
MB 380-149908/5	Method Blank	96	98	103
MB 380-150850/15	Method Blank	98	106	92
MRL 380-150850/13	Lab Control Sample	97	101	94
MRL 380-150850/14	Lab Control Sample	98	103	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: SRL 524M - Volatile Organic Compounds (GC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TOL (70-130)
380-147873-1	Explorer Well T22	101
380-147873-3	TRIP BLANK	105
LCS 380-149765/3	Lab Control Sample	101
LCSD 380-149765/17	Lab Control Sample Dup	93
MB 380-149765/5	Method Blank	86
MRL 380-149765/4	Lab Control Sample	107

Surrogate Legend

TOL = Toluene-d8 (Surr)

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	TPP (70-130)	PRY (70-130)
380-147873-1	Explorer Well T22	104	91	81
LCS 380-149836/23-A	Lab Control Sample	101	89	92
MB 380-149836/21-A	Method Blank	104	85	85
MRL 380-149836/22-A	Lab Control Sample	101	85	89

Surrogate Legend

2NMX = 2-Nitro-m-xylene
TPP = Triphenylphosphate
PRY = Perylene-d12

Surrogate Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBPP1 (60-140)
380-147873-1	Explorer Well T22	97
LCS 380-150006/29-A	Lab Control Sample	94
MBL 380-150006/4-A	Method Blank	96
MRL 380-150006/2-A	Lab Control Sample	93
MRL 380-150006/3-A	Lab Control Sample	93

Surrogate Legend

DBPP = 1,2-Dibromopropane (Surr)

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (70-130)
380-147873-1	Explorer Well T22	103
LCS 380-150189/16-A	Lab Control Sample	111
LCS 380-150189/24-A	Lab Control Sample	96
LCS 380-150189/57-A	Lab Control Sample	101
LCS 380-150189/59-A	Lab Control Sample	111
LCS 380-150189/60-A	Lab Control Sample	108
LCS 380-150189/8-A	Lab Control Sample	102
LCSD 380-150189/58-A	Lab Control Sample Dup	106
MB 380-150189/32-A	Method Blank	104
MRL 380-150189/30-A	Lab Control Sample	106
MRL 380-150189/31-A	Lab Control Sample	105

Surrogate Legend

TCX = Tetrachloro-m-xylene

Method: 515.4 - Herbicides (GC)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA1 (70-130)
380-147873-1	Explorer Well T22	109
LCS 380-149784/32-A	Lab Control Sample	101
LCS 380-149784/33-A	Lab Control Sample	103
LCSD 380-149784/34-A	Lab Control Sample Dup	102
MBL 380-149784/8-A	Method Blank	101
MRL 380-149784/35-A	Lab Control Sample	97

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 6251B - Haloacetic Acids (HAAs) (GC)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	23DPA1 (70-130)
380-147873-1	Explorer Well T22	102

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Surrogate Summary

Client: Geosyntec Consultants Inc
 Project/Site: Title 22

Job ID: 380-147873-1

Method: 6251B - Haloacetic Acids (HAAs) (GC) (Continued)

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	23DPA1 (70-130)			
LCS 380-150039/37-A	Lab Control Sample	100			
MB 380-150039/10-A	Method Blank	103			
MRL 380-150039/9-A	Lab Control Sample	102			
Surrogate Legend					
23DPA = 2,3-Dibromopropionic acid					

Method: 531.2 - Carbamate Pesticides (HPLC)

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BDMC (70-130)			
380-147873-1	Explorer Well T22	110			
LCS 380-150036/14-A	Lab Control Sample	109			
MBL 380-150036/3-A	Method Blank	95			
MRL 380-150036/2-A	Lab Control Sample	107			
Surrogate Legend					
BDMC = BDMC					

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-147873-1	Explorer Well T22	105	102	102	90
LCS 380-150088/22-A	Lab Control Sample	102	105	101	93
MBL 380-150088/20-A	Method Blank	122	109	111	100
MRL 380-150088/21-A	Lab Control Sample	107	106	102	91
Surrogate Legend					
d5NEFOS = d5-NEtFOSAA					
PFHxA = 13C2 PFHxA					
PFDA = 13C2 PFDA					
GenX = 13C3-GenX					

Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-147873-1	Explorer Well T22	91	105	100	109	104	108	93	91
LCS 380-150060/22-A	Lab Control Sample	78	103	103	108	109	104	96	90
MBL 380-150060/20-A	Method Blank	78	108	111	116	112	117	99	100
MRL 380-150060/21-A	Lab Control Sample	68	112	108	117	113	110	97	97

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-147873-1	Explorer Well T22	106	102	96	105	105	110	101	98
LCS 380-150060/22-A	Lab Control Sample	107	99	100	106	107	117	104	101
MBL 380-150060/20-A	Method Blank	113	101	105	104	111	123	109	101
MRL 380-150060/21-A	Lab Control Sample	112	105	103	111	110	122	116	107

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

Method: 1613B - Tetra Chlorinated Dioxin (GC/MS/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCDD (31-137)
380-147873-1	Explorer Well T22	63
MBL 380-150167/21-A	Method Blank	83

Surrogate Legend

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

Method: 1613B - Tetra Chlorinated Dioxin (GC/MS/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCDD (25-141)
LCS 380-150167/19-A	Lab Control Sample	81
LCSD 380-150167/20-A	Lab Control Sample Dup	85
MRL 380-150167/22-A	Lab Control Sample	78

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Isotope Dilution Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Surrogate Legend

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



Tracer/Carrier Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 905 - Strontium-90 (GFPC)

Matrix: Drinking Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Sr (30-110)	Y (30-110)				
380-147873-1	Explorer Well T22	65.1	84.5				
LCS 160-716561/2-A	Lab Control Sample	74.9	85.6				
LCSD 160-716561/3-A	Lab Control Sample Dup	81.8	88.2				
MB 160-716561/1-A	Method Blank	83.1	90.1				

Tracer/Carrier Legend

Sr = Sr Carrier

Y = Y Carrier

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-149908/5
Matrix: Drinking Water
Analysis Batch: 149908

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1-Trichloroethane	ND		0.50	ug/L			04/29/25 22:02	1
1,1,1,2-Tetrachloroethane	ND		0.50	ug/L			04/29/25 22:02	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	ug/L			04/29/25 22:02	1
1,1,2-Trichloroethane	ND		0.50	ug/L			04/29/25 22:02	1
1,1-Dichloroethane	ND		0.50	ug/L			04/29/25 22:02	1
1,1-Dichloroethylene	ND		0.50	ug/L			04/29/25 22:02	1
1,2,4-Trichlorobenzene	ND		0.50	ug/L			04/29/25 22:02	1
1,2-Dichlorobenzene	ND		0.50	ug/L			04/29/25 22:02	1
1,2-Dichloroethane	ND		0.50	ug/L			04/29/25 22:02	1
1,2-Dichloroethene, Total	ND		0.50	ug/L			04/29/25 22:02	1
1,2-Dichloropropane	ND		0.50	ug/L			04/29/25 22:02	1
1,3-Dichloropropene, Total	ND		0.50	ug/L			04/29/25 22:02	1
1,4-Dichlorobenzene	ND		0.50	ug/L			04/29/25 22:02	1
Benzene	ND		0.50	ug/L			04/29/25 22:02	1
Bromodichloromethane	ND		0.50	ug/L			04/29/25 22:02	1
Bromoform	ND		0.50	ug/L			04/29/25 22:02	1
Carbon tetrachloride	ND		0.50	ug/L			04/29/25 22:02	1
Chloroform (Trichloromethane)	ND		0.50	ug/L			04/29/25 22:02	1
cis-1,2-Dichloroethylene	ND		0.50	ug/L			04/29/25 22:02	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			04/29/25 22:02	1
Dibromochloromethane	ND		0.50	ug/L			04/29/25 22:02	1
Dichloromethane	ND		0.50	ug/L			04/29/25 22:02	1
Ethylbenzene	ND		0.50	ug/L			04/29/25 22:02	1
m,p-Xylenes	ND		0.50	ug/L			04/29/25 22:02	1
Methyl-tert-butyl Ether (MTBE)	ND		0.50	ug/L			04/29/25 22:02	1
Monochlorobenzene	ND		0.50	ug/L			04/29/25 22:02	1
o-Xylene	ND		0.50	ug/L			04/29/25 22:02	1
Styrene	ND		0.50	ug/L			04/29/25 22:02	1
Tetrachloroethylene	ND		0.50	ug/L			04/29/25 22:02	1
Toluene	ND		0.50	ug/L			04/29/25 22:02	1
trans-1,2-Dichloroethylene	ND		0.50	ug/L			04/29/25 22:02	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			04/29/25 22:02	1
Trichloroethylene	ND		0.50	ug/L			04/29/25 22:02	1
Trichlorofluoromethane	ND		0.50	ug/L			04/29/25 22:02	1
Vinyl chloride	ND		0.30	ug/L			04/29/25 22:02	1
Xylenes, Total	ND		0.50	ug/L			04/29/25 22:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		04/29/25 22:02	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/29/25 22:02	1
Toluene-d8 (Surr)	103		70 - 130		04/29/25 22:02	1

Lab Sample ID: LCS 380-149908/3
Matrix: Drinking Water
Analysis Batch: 149908

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	5.00	4.46		ug/L		89	70 - 130

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-149908/3

Matrix: Drinking Water

Analysis Batch: 149908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,2,2-Tetrachloroethane	5.00	4.54		ug/L		91	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	4.42		ug/L		88	70 - 130
1,1,2-Trichloroethane	5.00	4.56		ug/L		91	70 - 130
1,1-Dichloroethane	5.00	4.68		ug/L		94	70 - 130
1,1-Dichloroethylene	5.00	4.49		ug/L		90	70 - 130
1,2,4-Trichlorobenzene	5.00	4.75		ug/L		95	70 - 130
1,2-Dichlorobenzene	5.00	4.60		ug/L		92	70 - 130
1,2-Dichloroethane	5.00	4.41		ug/L		88	70 - 130
1,2-Dichloroethene, Total	10.0	9.18		ug/L		92	70 - 130
1,2-Dichloropropane	5.00	4.51		ug/L		90	70 - 130
1,3-Dichloropropene, Total	10.0	8.47		ug/L		85	70 - 130
1,4-Dichlorobenzene	5.00	4.61		ug/L		92	70 - 130
Benzene	5.00	4.58		ug/L		92	70 - 130
Bromodichloromethane	5.00	3.86		ug/L		77	70 - 130
Carbon tetrachloride	5.00	4.29		ug/L		86	70 - 130
cis-1,2-Dichloroethylene	5.00	4.68		ug/L		94	70 - 130
cis-1,3-Dichloropropene	5.00	4.24		ug/L		85	70 - 130
Dibromochloromethane	5.00	3.82		ug/L		76	70 - 130
Dichloromethane	5.00	4.43		ug/L		89	70 - 130
Ethylbenzene	5.00	4.89		ug/L		98	70 - 130
m,p-Xylenes	10.0	9.07		ug/L		91	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	4.58		ug/L		92	70 - 130
Monochlorobenzene	5.00	4.53		ug/L		91	70 - 130
o-Xylene	5.00	4.63		ug/L		93	70 - 130
Styrene	5.00	4.62		ug/L		92	70 - 130
Tetrachloroethylene	5.00	4.42		ug/L		88	70 - 130
Toluene	5.00	4.64		ug/L		93	70 - 130
trans-1,2-Dichloroethylene	5.00	4.50		ug/L		90	70 - 130
trans-1,3-Dichloropropene	5.00	4.23		ug/L		85	70 - 130
Trichloroethylene	5.00	4.49		ug/L		90	70 - 130
Trichlorofluoromethane	5.00	4.54		ug/L		91	70 - 130
Vinyl chloride	5.00	4.65		ug/L		93	70 - 130
Xylenes, Total	15.0	13.7		ug/L		91	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 380-149908/4

Matrix: Drinking Water

Analysis Batch: 149908

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
1,1,1-Trichloroethane	5.00	4.37		ug/L		87	70 - 130	2	20
1,1,2,2-Tetrachloroethane	5.00	4.29		ug/L		86	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	4.24		ug/L		85	70 - 130	4	20

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-149908/4

Matrix: Drinking Water

Analysis Batch: 149908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Added	Result	Qualifier						
1,1,2-Trichloroethane	5.00	4.48		ug/L		90	70 - 130	2	20
1,1-Dichloroethane	5.00	4.52		ug/L		90	70 - 130	4	20
1,1-Dichloroethylene	5.00	4.46		ug/L		89	70 - 130	1	20
1,2,4-Trichlorobenzene	5.00	4.66		ug/L		93	70 - 130	2	20
1,2-Dichlorobenzene	5.00	4.50		ug/L		90	70 - 130	2	20
1,2-Dichloroethane	5.00	4.03		ug/L		81	70 - 130	9	20
1,2-Dichloroethene, Total	10.0	9.01		ug/L		90	70 - 130	2	20
1,2-Dichloropropane	5.00	4.32		ug/L		86	70 - 130	4	20
1,3-Dichloropropene, Total	10.0	8.18		ug/L		82	70 - 130	3	20
1,4-Dichlorobenzene	5.00	4.45		ug/L		89	70 - 130	4	20
Benzene	5.00	4.25		ug/L		85	70 - 130	8	20
Bromodichloromethane	5.00	3.76		ug/L		75	70 - 130	3	20
Carbon tetrachloride	5.00	4.23		ug/L		85	70 - 130	1	20
cis-1,2-Dichloroethylene	5.00	4.62		ug/L		92	70 - 130	1	20
cis-1,3-Dichloropropene	5.00	4.10		ug/L		82	70 - 130	3	20
Dibromochloromethane	5.00	3.69		ug/L		74	70 - 130	4	20
Dichloromethane	5.00	4.37		ug/L		87	70 - 130	2	20
Ethylbenzene	5.00	4.80		ug/L		96	70 - 130	2	20
m,p-Xylenes	10.0	8.75		ug/L		88	70 - 130	4	20
Methyl-tert-butyl Ether (MTBE)	5.00	4.56		ug/L		91	70 - 130	0	20
Monochlorobenzene	5.00	4.47		ug/L		89	70 - 130	1	20
o-Xylene	5.00	4.53		ug/L		91	70 - 130	2	20
Styrene	5.00	4.46		ug/L		89	70 - 130	4	20
Tetrachloroethylene	5.00	4.27		ug/L		85	70 - 130	4	20
Toluene	5.00	4.45		ug/L		89	70 - 130	4	20
trans-1,2-Dichloroethylene	5.00	4.39		ug/L		88	70 - 130	3	20
trans-1,3-Dichloropropene	5.00	4.08		ug/L		82	70 - 130	4	20
Trichloroethylene	5.00	4.33		ug/L		87	70 - 130	4	20
Trichlorofluoromethane	5.00	4.52		ug/L		90	70 - 130	0	20
Vinyl chloride	5.00	4.48		ug/L		90	70 - 130	4	20
Xylenes, Total	15.0	13.3		ug/L		89	70 - 130	3	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: MB 380-150850/15

Matrix: Drinking Water

Analysis Batch: 150850

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1-Trichloroethane	ND		0.50	ug/L			05/06/25 16:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L			05/06/25 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	ug/L			05/06/25 16:20	1
1,1,2-Trichloroethane	ND		0.50	ug/L			05/06/25 16:20	1
1,1-Dichloroethane	ND		0.50	ug/L			05/06/25 16:20	1
1,1-Dichloroethylene	ND		0.50	ug/L			05/06/25 16:20	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-150850/15

Matrix: Drinking Water

Analysis Batch: 150850

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		0.50	ug/L			05/06/25 16:20	1
1,2-Dichlorobenzene	ND		0.50	ug/L			05/06/25 16:20	1
1,2-Dichloroethane	ND		0.50	ug/L			05/06/25 16:20	1
1,2-Dichloroethene, Total	ND		0.50	ug/L			05/06/25 16:20	1
1,2-Dichloropropane	ND		0.50	ug/L			05/06/25 16:20	1
1,3-Dichloropropene, Total	ND		0.50	ug/L			05/06/25 16:20	1
1,4-Dichlorobenzene	ND		0.50	ug/L			05/06/25 16:20	1
Benzene	ND		0.50	ug/L			05/06/25 16:20	1
Bromodichloromethane	ND		0.50	ug/L			05/06/25 16:20	1
Bromoform	ND		0.50	ug/L			05/06/25 16:20	1
Carbon tetrachloride	ND		0.50	ug/L			05/06/25 16:20	1
Chloroform (Trichloromethane)	ND		0.50	ug/L			05/06/25 16:20	1
cis-1,2-Dichloroethylene	ND		0.50	ug/L			05/06/25 16:20	1
cis-1,3-Dichloropropene	ND		0.50	ug/L			05/06/25 16:20	1
Dibromochloromethane	ND		0.50	ug/L			05/06/25 16:20	1
Dichloromethane	ND		0.50	ug/L			05/06/25 16:20	1
Ethylbenzene	ND		0.50	ug/L			05/06/25 16:20	1
m,p-Xylenes	ND		0.50	ug/L			05/06/25 16:20	1
Methyl-tert-butyl Ether (MTBE)	ND		0.50	ug/L			05/06/25 16:20	1
Monochlorobenzene	ND		0.50	ug/L			05/06/25 16:20	1
o-Xylene	ND		0.50	ug/L			05/06/25 16:20	1
Styrene	ND		0.50	ug/L			05/06/25 16:20	1
Tetrachloroethylene	ND		0.50	ug/L			05/06/25 16:20	1
Toluene	ND		0.50	ug/L			05/06/25 16:20	1
trans-1,2-Dichloroethylene	ND		0.50	ug/L			05/06/25 16:20	1
trans-1,3-Dichloropropene	ND		0.50	ug/L			05/06/25 16:20	1
Trichloroethylene	ND		0.50	ug/L			05/06/25 16:20	1
Trichlorofluoromethane	ND		0.50	ug/L			05/06/25 16:20	1
Vinyl chloride	ND		0.30	ug/L			05/06/25 16:20	1
Xylenes, Total	ND		0.50	ug/L			05/06/25 16:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		05/06/25 16:20	1
4-Bromofluorobenzene (Surr)	106		70 - 130		05/06/25 16:20	1
Toluene-d8 (Surr)	92		70 - 130		05/06/25 16:20	1

Lab Sample ID: LCS 380-150850/11

Matrix: Drinking Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.96		ug/L		99	70 - 130
1,1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	5.73		ug/L		115	70 - 130
1,1,2-Trichloroethane	5.00	4.87		ug/L		97	70 - 130
1,1-Dichloroethane	5.00	5.09		ug/L		102	70 - 130
1,1-Dichloroethylene	5.00	4.92		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	5.00	4.93		ug/L		99	70 - 130

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-150850/11

Matrix: Drinking Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	5.00	4.89		ug/L		98	70 - 130
1,2-Dichloroethane	5.00	4.94		ug/L		99	70 - 130
1,2-Dichloroethene, Total	10.0	9.99		ug/L		100	70 - 130
1,2-Dichloropropane	5.00	4.82		ug/L		96	70 - 130
1,3-Dichloropropene, Total	10.0	10.6		ug/L		106	70 - 130
1,4-Dichlorobenzene	5.00	4.82		ug/L		96	70 - 130
Benzene	5.00	5.13		ug/L		103	70 - 130
Bromodichloromethane	5.00	5.05		ug/L		101	70 - 130
Bromoform	5.00	4.62		ug/L		92	70 - 130
Carbon tetrachloride	5.00	4.31		ug/L		86	70 - 130
cis-1,2-Dichloroethylene	5.00	5.06		ug/L		101	70 - 130
cis-1,3-Dichloropropene	5.00	5.38		ug/L		108	70 - 130
Dibromochloromethane	5.00	5.03		ug/L		101	70 - 130
Dichloromethane	5.00	5.09		ug/L		102	70 - 130
Ethylbenzene	5.00	5.03		ug/L		101	70 - 130
m,p-Xylenes	10.0	10.0		ug/L		100	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	5.52		ug/L		110	70 - 130
Monochlorobenzene	5.00	4.88		ug/L		98	70 - 130
o-Xylene	5.00	5.04		ug/L		101	70 - 130
Styrene	5.00	4.92		ug/L		98	70 - 130
Tetrachloroethylene	5.00	4.83		ug/L		97	70 - 130
Toluene	5.00	4.84		ug/L		97	70 - 130
trans-1,2-Dichloroethylene	5.00	4.93		ug/L		99	70 - 130
trans-1,3-Dichloropropene	5.00	5.17		ug/L		103	70 - 130
Trichloroethylene	5.00	5.14		ug/L		103	70 - 130
Trichlorofluoromethane	5.00	4.95		ug/L		99	70 - 130
Vinyl chloride	5.00	5.45		ug/L		109	70 - 130
Xylenes, Total	15.0	15.0		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 380-150850/12

Matrix: Drinking Water

Analysis Batch: 150850

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
1,1,1-Trichloroethane	5.00	4.02		ug/L		80	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	5.00	5.26		ug/L		105	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	6.02		ug/L		120	70 - 130	5	20
1,1,2-Trichloroethane	5.00	5.16		ug/L		103	70 - 130	6	20
1,1-Dichloroethane	5.00	5.14		ug/L		103	70 - 130	1	20
1,1-Dichloroethylene	5.00	5.09		ug/L		102	70 - 130	3	20
1,2,4-Trichlorobenzene	5.00	5.46		ug/L		109	70 - 130	10	20
1,2-Dichlorobenzene	5.00	5.06		ug/L		101	70 - 130	3	20
1,2-Dichloroethane	5.00	5.19		ug/L		104	70 - 130	5	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 380-150850/12

Matrix: Drinking Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
1,2-Dichloroethene, Total	10.0	10.0		ug/L		100	70 - 130	0	20
1,2-Dichloropropane	5.00	5.28		ug/L		106	70 - 130	9	20
1,3-Dichloropropene, Total	10.0	11.0		ug/L		110	70 - 130	4	20
1,4-Dichlorobenzene	5.00	5.05		ug/L		101	70 - 130	5	20
Benzene	5.00	5.34		ug/L		107	70 - 130	4	20
Bromodichloromethane	5.00	5.11		ug/L		102	70 - 130	1	20
Bromoform	5.00	4.93		ug/L		99	70 - 130	7	20
Carbon tetrachloride	5.00	4.54		ug/L		91	70 - 130	5	20
cis-1,2-Dichloroethylene	5.00	4.97		ug/L		99	70 - 130	2	20
cis-1,3-Dichloropropene	5.00	5.48		ug/L		110	70 - 130	2	20
Dibromochloromethane	5.00	5.34		ug/L		107	70 - 130	6	20
Dichloromethane	5.00	5.24		ug/L		105	70 - 130	3	20
Ethylbenzene	5.00	5.22		ug/L		104	70 - 130	4	20
m,p-Xylenes	10.0	10.2		ug/L		102	70 - 130	2	20
Methyl-tert-butyl Ether (MTBE)	5.00	5.75		ug/L		115	70 - 130	4	20
Monochlorobenzene	5.00	5.00		ug/L		100	70 - 130	2	20
o-Xylene	5.00	5.20		ug/L		104	70 - 130	3	20
Styrene	5.00	5.09		ug/L		102	70 - 130	3	20
Tetrachloroethylene	5.00	4.90		ug/L		98	70 - 130	1	20
Toluene	5.00	5.03		ug/L		101	70 - 130	4	20
trans-1,2-Dichloroethylene	5.00	5.03		ug/L		101	70 - 130	2	20
trans-1,3-Dichloropropene	5.00	5.50		ug/L		110	70 - 130	6	20
Trichloroethylene	5.00	5.18		ug/L		104	70 - 130	1	20
Trichlorofluoromethane	5.00	5.49		ug/L		110	70 - 130	10	20
Vinyl chloride	5.00	5.55		ug/L		111	70 - 130	2	20
Xylenes, Total	15.0	15.4		ug/L		103	70 - 130	2	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MRL 380-150850/13

Matrix: Drinking Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
m,p-Xylenes	0.500	0.363	J	ug/L		73	50 - 150
Vinyl chloride	0.250	0.238	J	ug/L		95	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	94		70 - 130

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-150850/14

Matrix: Drinking Water

Analysis Batch: 150850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.500	0.329	J	ug/L		66	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.438	J	ug/L		88	50 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	0.500	0.421	J	ug/L		84	50 - 150
1,1,2-Trichloroethane	0.500	0.473	J	ug/L		95	50 - 150
1,1-Dichloroethane	0.500	0.493	J	ug/L		99	50 - 150
1,1-Dichloroethylene	0.500	0.471	J	ug/L		94	50 - 150
1,2,4-Trichlorobenzene	0.500	0.443	J	ug/L		89	50 - 150
1,2-Dichlorobenzene	0.500	0.438	J	ug/L		88	50 - 150
1,2-Dichloroethane	0.500	0.459	J	ug/L		92	50 - 150
1,2-Dichloroethene, Total	1.00	1.01		ug/L		101	50 - 150
1,2-Dichloropropane	0.500	0.462	J	ug/L		92	50 - 150
1,3-Dichloropropene, Total	1.00	0.844		ug/L		84	50 - 150
1,4-Dichlorobenzene	0.500	0.448	J	ug/L		90	50 - 150
Benzene	0.500	0.503		ug/L		101	50 - 150
Bromodichloromethane	0.500	0.392	J	ug/L		78	50 - 150
Bromoform	0.500	0.354	J	ug/L		71	50 - 150
Carbon tetrachloride	0.500	0.342	J	ug/L		68	50 - 150
cis-1,2-Dichloroethylene	0.500	0.497	J	ug/L		99	50 - 150
cis-1,3-Dichloropropene	0.500	0.369	J	ug/L		74	50 - 150
Dibromochloromethane	0.500	0.336	J	ug/L		67	50 - 150
Dichloromethane	0.500	0.485	J	ug/L		97	50 - 150
Ethylbenzene	0.500	0.373	J	ug/L		75	50 - 150
m,p-Xylenes	1.00	0.719		ug/L		72	50 - 150
Methyl-tert-butyl Ether (MTBE)	0.500	0.537		ug/L		107	50 - 150
Monochlorobenzene	0.500	0.411	J	ug/L		82	50 - 150
o-Xylene	0.500	0.378	J	ug/L		76	50 - 150
Styrene	0.500	0.344	J	ug/L		69	50 - 150
Tetrachloroethylene	0.500	0.429	J	ug/L		86	50 - 150
Toluene	0.500	0.421	J	ug/L		84	50 - 150
trans-1,2-Dichloroethylene	0.500	0.512		ug/L		102	50 - 150
trans-1,3-Dichloropropene	0.500	0.475	J	ug/L		95	50 - 150
Trichloroethylene	0.500	0.430	J	ug/L		86	50 - 150
Trichlorofluoromethane	0.500	0.426	J	ug/L		85	50 - 150
Vinyl chloride	0.500	0.448		ug/L		90	50 - 150
Xylenes, Total	1.50	1.10		ug/L		73	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Toluene-d8 (Surr)	96		70 - 130

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: SRL 524M - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-149765/5
Matrix: Drinking Water
Analysis Batch: 149765

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.0050	ug/L			04/29/25 10:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	86		70 - 130				04/29/25 10:30	1

Lab Sample ID: LCS 380-149765/3
Matrix: Drinking Water
Analysis Batch: 149765

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1,2,3-Trichloropropane	0.0100	0.0108		ug/L		108	80 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Toluene-d8 (Surr)	101		70 - 130					

Lab Sample ID: LCSD 380-149765/17
Matrix: Drinking Water
Analysis Batch: 149765

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
1,2,3-Trichloropropane	0.0100	0.00998		ug/L		100	80 - 120	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Toluene-d8 (Surr)	93		70 - 130						

Lab Sample ID: MRL 380-149765/4
Matrix: Drinking Water
Analysis Batch: 149765

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
1,2,3-Trichloropropane	0.00500	0.00587		ug/L		117	80 - 120	
Surrogate	MRL %Recovery	MRL Qualifier	Limits					
Toluene-d8 (Surr)	107		70 - 130					

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-149836/21-A
Matrix: Drinking Water
Analysis Batch: 149983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 149836

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	ND		0.050	ug/L		04/29/25 12:43	04/30/25 11:35	1
Atrazine	ND		0.050	ug/L		04/29/25 12:43	04/30/25 11:35	1
Benzo[a]pyrene	ND		0.020	ug/L		04/29/25 12:43	04/30/25 11:35	1
Di(2-ethylhexyl)adipate	ND		0.59	ug/L		04/29/25 12:43	04/30/25 11:35	1
Di(2-ethylhexyl)phthalate	ND		0.59	ug/L		04/29/25 12:43	04/30/25 11:35	1
Endrin	ND		0.0099	ug/L		04/29/25 12:43	04/30/25 11:35	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-149836/21-A

Matrix: Drinking Water

Analysis Batch: 149983

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149836

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Heptachlor	ND		0.0099	ug/L		04/29/25 12:43	04/30/25 11:35	1
Heptachlor epoxide	ND		0.0099	ug/L		04/29/25 12:43	04/30/25 11:35	1
Hexachlorobenzene	ND		0.050	ug/L		04/29/25 12:43	04/30/25 11:35	1
Hexachlorocyclopentadiene	ND		0.050	ug/L		04/29/25 12:43	04/30/25 11:35	1
gamma-BHC (Lindane)	ND		0.0099	ug/L		04/29/25 12:43	04/30/25 11:35	1
Methoxychlor	ND		0.050	ug/L		04/29/25 12:43	04/30/25 11:35	1
Molinate	ND		0.099	ug/L		04/29/25 12:43	04/30/25 11:35	1
Simazine	ND		0.050	ug/L		04/29/25 12:43	04/30/25 11:35	1
Thiobencarb	ND		0.099	ug/L		04/29/25 12:43	04/30/25 11:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	104		70 - 130	04/29/25 12:43	04/30/25 11:35	1
Triphenylphosphate	85		70 - 130	04/29/25 12:43	04/30/25 11:35	1
Perylene-d12	85		70 - 130	04/29/25 12:43	04/30/25 11:35	1

Lab Sample ID: LCS 380-149836/23-A

Matrix: Drinking Water

Analysis Batch: 149983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149836

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Alachlor	1.99	2.48		ug/L		125	70 - 130
Atrazine	1.99	2.16		ug/L		109	70 - 130
Benzo[a]pyrene	1.99	2.04		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.45		ug/L		123	70 - 130
Di (2-ethylhexyl)phthalate	1.99	2.43		ug/L		122	70 - 130
Endrin	1.99	2.21		ug/L		111	70 - 130
Heptachlor	1.99	2.05		ug/L		103	70 - 130
Heptachlor epoxide	1.99	1.77		ug/L		89	70 - 130
Hexachlorobenzene	1.99	1.71		ug/L		86	70 - 130
Hexachlorocyclopentadiene	1.99	1.98		ug/L		100	70 - 130
gamma-BHC (Lindane)	1.99	2.18		ug/L		109	70 - 130
Methoxychlor	1.99	2.29		ug/L		115	70 - 130
Molinate	1.99	2.37		ug/L		119	70 - 130
Simazine	1.99	2.05		ug/L		103	70 - 130
Thiobencarb	1.99	2.65	*+	ug/L		134	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	101		70 - 130
Triphenylphosphate	89		70 - 130
Perylene-d12	92		70 - 130

Lab Sample ID: MRL 380-149836/22-A

Matrix: Drinking Water

Analysis Batch: 149983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149836

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Alachlor	0.0497	0.0569		ug/L		115	50 - 150
Atrazine	0.0497	0.0563		ug/L		113	50 - 150

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-149836/22-A
Matrix: Drinking Water
Analysis Batch: 149983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149836

Analyte	Spike Added	MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzo[a]pyrene	0.0199	0.0247		ug/L		124	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.600		ug/L		101	50 - 150
Di (2-ethylhexyl)phthalate	0.596	0.564	J	ug/L		95	50 - 150
Endrin	0.00994	0.00957	J	ug/L		96	50 - 150
Heptachlor	0.00994	0.00883	J	ug/L		89	50 - 150
Heptachlor epoxide	0.00994	0.0117		ug/L		118	50 - 150
Hexachlorobenzene	0.0497	0.0460	J	ug/L		93	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0474	J	ug/L		95	50 - 150
gamma-BHC (Lindane)	0.00994	0.0124		ug/L		125	50 - 150
Methoxychlor	0.0497	0.0616		ug/L		124	50 - 150
Molinate	0.0994	0.111		ug/L		112	50 - 150
Simazine	0.0497	0.0531		ug/L		107	50 - 150
Thiobencarb	0.0994	0.121		ug/L		122	50 - 150

Surrogate	MRL		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	101		70 - 130
Triphenylphosphate	85		70 - 130
Perylene-d12	89		70 - 130

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 380-150027/1-A
Matrix: Drinking Water
Analysis Batch: 150382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150027

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Endothall	ND		5.0	ug/L		04/30/25 11:47	05/02/25 09:12	1

Lab Sample ID: LCS 380-150027/3-A
Matrix: Drinking Water
Analysis Batch: 150382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150027

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Endothall	25.0	21.2		ug/L		85	80 - 120

Lab Sample ID: MRL 380-150027/2-A
Matrix: Drinking Water
Analysis Batch: 150382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150027

Analyte	Spike Added	MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Endothall	5.00	5.02		ug/L		100	50 - 150

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MBL 380-150006/4-A
Matrix: Drinking Water
Analysis Batch: 150259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150006

Analyte	MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Ethylene Dibromide (EDB)	ND		0.010	ug/L		04/30/25 11:45	04/30/25 14:03	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MBL 380-150006/4-A
Matrix: Drinking Water
Analysis Batch: 150259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150006

Analyte	MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Dibromochloropropane (DBCP)	ND		0.010	ug/L		04/30/25 11:45	04/30/25 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	96		60 - 140			04/30/25 11:45	04/30/25 14:03	1

Lab Sample ID: LCS 380-150006/29-A
Matrix: Drinking Water
Analysis Batch: 150259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150006

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Ethylene Dibromide (EDB)	0.200	0.175		ug/L		87	70 - 130
Dibromochloropropane (DBCP)	0.200	0.178		ug/L		89	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dibromopropane (Surr)	94		60 - 140				

Lab Sample ID: MRL 380-150006/2-A
Matrix: Drinking Water
Analysis Batch: 150259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150006

Surrogate	MRL		Limits
	%Recovery	Qualifier	
1,2-Dibromopropane (Surr)	93		60 - 140

Lab Sample ID: MRL 380-150006/3-A
Matrix: Drinking Water
Analysis Batch: 150259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150006

Analyte	Spike Added	MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Ethylene Dibromide (EDB)	0.0100	0.00859	J	ug/L		86	60 - 140
Dibromochloropropane (DBCP)	0.0100	0.0101		ug/L		101	60 - 140
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dibromopropane (Surr)	93		60 - 140				

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Lab Sample ID: MB 380-150189/32-A
Matrix: Drinking Water
Analysis Batch: 150381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150189

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chlordane	ND		0.10	ug/L		05/01/25 12:04	05/01/25 23:56	1
Toxaphene	ND		0.50	ug/L		05/01/25 12:04	05/01/25 23:56	1
PCB-1016	ND		0.070	ug/L		05/01/25 12:04	05/01/25 23:56	1
PCB-1221	ND		0.10	ug/L		05/01/25 12:04	05/01/25 23:56	1
PCB-1232	ND		0.10	ug/L		05/01/25 12:04	05/01/25 23:56	1
PCB-1242	ND		0.10	ug/L		05/01/25 12:04	05/01/25 23:56	1
PCB-1248	ND		0.10	ug/L		05/01/25 12:04	05/01/25 23:56	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: MB 380-150189/32-A

Matrix: Drinking Water

Analysis Batch: 150381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 150189

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
PCB-1254	ND		0.10	ug/L		05/01/25 12:04	05/01/25 23:56	1
PCB-1260	ND		0.070	ug/L		05/01/25 12:04	05/01/25 23:56	1
Polychlorinated biphenyls, Total	ND		0.10	ug/L		05/01/25 12:04	05/01/25 23:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	104		70 - 130	05/01/25 12:04	05/01/25 23:56	1

Lab Sample ID: LCS 380-150189/16-A

Matrix: Drinking Water

Analysis Batch: 150381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150189

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chlordane	0.500	0.472		ug/L		94	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	111		70 - 130

Lab Sample ID: LCS 380-150189/24-A

Matrix: Drinking Water

Analysis Batch: 150381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150189

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
PCB-1016	0.500	0.444		ug/L		89	70 - 130
PCB-1260	0.500	0.459		ug/L		92	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	96		70 - 130

Lab Sample ID: LCS 380-150189/57-A

Matrix: Drinking Water

Analysis Batch: 150381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150189

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Toxaphene	2.50	2.40	E	ug/L		96	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	101		70 - 130

Lab Sample ID: LCS 380-150189/59-A

Matrix: Drinking Water

Analysis Batch: 150381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150189

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chlordane	0.500	0.487		ug/L		97	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	111		70 - 130

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: LCS 380-150189/60-A
Matrix: Drinking Water
Analysis Batch: 150381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
PCB-1016	0.500	0.531		ug/L		106	70 - 130	
PCB-1260	0.500	0.510		ug/L		102	70 - 130	
Surrogate		%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene		108		70 - 130				

Lab Sample ID: LCS 380-150189/8-A
Matrix: Drinking Water
Analysis Batch: 150381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150189

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Toxaphene	2.50	1.96		ug/L		78	70 - 130	
Surrogate		%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene		102		70 - 130				

Lab Sample ID: LCSD 380-150189/58-A
Matrix: Drinking Water
Analysis Batch: 150381

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150189

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
Toxaphene	2.50	2.48	E	ug/L		99	70 - 130	3	20	
Surrogate		%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene		106		70 - 130						

Lab Sample ID: MRL 380-150189/30-A
Matrix: Drinking Water
Analysis Batch: 150381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150189

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Toxaphene	0.500	0.468	J	ug/L		94	50 - 150	
Surrogate		%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene		106		70 - 130				

Lab Sample ID: MRL 380-150189/31-A
Matrix: Drinking Water
Analysis Batch: 150381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150189

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Chlordane	0.100	0.0946	J	ug/L		95	50 - 150	
Surrogate		%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene		105		70 - 130				

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 515.4 - Herbicides (GC)

Lab Sample ID: MBL 380-149784/8-A
Matrix: Drinking Water
Analysis Batch: 150179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 149784

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2,4,5-TP (Silvex)	ND		0.10	ug/L		04/30/25 09:42	04/30/25 19:38	1
Dinoseb	ND		0.20	ug/L		04/30/25 09:42	04/30/25 19:38	1
2,4-D	ND		0.10	ug/L		04/30/25 09:42	04/30/25 19:38	1
Bentazon	ND		0.50	ug/L		04/30/25 09:42	04/30/25 19:38	1
Pentachlorophenol	ND		0.040	ug/L		04/30/25 09:42	04/30/25 19:38	1
Dalapon	ND		1.0	ug/L		04/30/25 09:42	04/30/25 19:38	1
Picloram	ND		0.10	ug/L		04/30/25 09:42	04/30/25 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr)	101		70 - 130			04/30/25 09:42	04/30/25 19:38	1

Lab Sample ID: LCS 380-149784/32-A
Matrix: Drinking Water
Analysis Batch: 150179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-TP (Silvex)	3.00	2.96		ug/L		99	70 - 130
Dinoseb	3.00	2.59		ug/L		86	70 - 130
2,4-D	1.50	1.20		ug/L		80	70 - 130
Bentazon	7.50	6.69		ug/L		89	70 - 130
Pentachlorophenol	0.600	0.573		ug/L		95	70 - 130
Dalapon	15.0	14.4		ug/L		96	70 - 130
Picloram	1.50	1.22		ug/L		82	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
2,4-Dichlorophenylacetic acid (Surr)	101		70 - 130				

Lab Sample ID: LCS 380-149784/33-A
Matrix: Drinking Water
Analysis Batch: 150179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-TP (Silvex)	2.00	2.15		ug/L		108	70 - 130
Dinoseb	4.00	4.30		ug/L		108	70 - 130
2,4-D	2.00	1.91		ug/L		96	70 - 130
Bentazon	10.0	10.9		ug/L		109	70 - 130
Pentachlorophenol	0.800	0.851		ug/L		106	70 - 130
Dalapon	20.0	21.9		ug/L		110	70 - 130
Picloram	2.00	2.03		ug/L		101	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
2,4-Dichlorophenylacetic acid (Surr)	103		70 - 130				

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 515.4 - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 380-149784/34-A
Matrix: Drinking Water
Analysis Batch: 150179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 149784

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-TP (Silvex)	2.00	2.21		ug/L		110	70 - 130	3	30
Dinoseb	4.00	4.30		ug/L		108	70 - 130	0	30
2,4-D	2.00	2.08		ug/L		104	70 - 130	8	30
Bentazon	10.0	11.1		ug/L		111	70 - 130	2	30
Pentachlorophenol	0.800	0.893		ug/L		112	70 - 130	5	30
Dalapon	20.0	22.7		ug/L		113	70 - 130	3	30
Picloram	2.00	2.09		ug/L		104	70 - 130	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr)	102		70 - 130

Lab Sample ID: MRL 380-149784/35-A
Matrix: Drinking Water
Analysis Batch: 150179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149784

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-TP (Silvex)	0.100	0.107		ug/L		107	50 - 150
Dinoseb	0.200	0.191	J	ug/L		96	50 - 150
2,4-D	0.100	0.107		ug/L		107	50 - 150
Bentazon	0.500	0.518		ug/L		104	50 - 150
Pentachlorophenol	0.0400	0.0429		ug/L		107	50 - 150
Dalapon	1.00	1.01		ug/L		101	50 - 150
Picloram	0.100	0.119		ug/L		119	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr)	97		70 - 130

Method: 6251B - Haloacetic Acids (HAAs) (GC)

Lab Sample ID: MB 380-150039/10-A
Matrix: Drinking Water
Analysis Batch: 150255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150039

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Monobromoacetic acid	ND		1.0	ug/L		05/01/25 08:36	05/01/25 14:33	1
Monochloroacetic acid	ND		2.0	ug/L		05/01/25 08:36	05/01/25 14:33	1
Dibromoacetic acid	ND		1.0	ug/L		05/01/25 08:36	05/01/25 14:33	1
Dichloroacetic acid	ND		1.0	ug/L		05/01/25 08:36	05/01/25 14:33	1
Trichloroacetic acid	ND		1.0	ug/L		05/01/25 08:36	05/01/25 14:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,3-Dibromopropionic acid	103		70 - 130	05/01/25 08:36	05/01/25 14:33	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 6251B - Haloacetic Acids (HAAs) (GC) (Continued)

Lab Sample ID: LCS 380-150039/37-A
Matrix: Drinking Water
Analysis Batch: 150255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Monobromoacetic acid	32.0	31.7		ug/L		99	80 - 120		
Monochloroacetic acid	32.0	31.6		ug/L		99	80 - 120		
Dibromoacetic acid	32.0	32.0		ug/L		100	80 - 120		
Dichloroacetic acid	32.0	31.9		ug/L		100	80 - 120		
Trichloroacetic acid	32.0	32.6		ug/L		102	80 - 120		
		LCS	LCS						
Surrogate	%Recovery	Qualifier	Limits						
2,3-Dibromopropionic acid	100		70 - 130						

Lab Sample ID: MRL 380-150039/9-A
Matrix: Drinking Water
Analysis Batch: 150255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150039

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Monobromoacetic acid	1.00	0.964	J	ug/L		96	50 - 150		
Monochloroacetic acid	2.00	1.98	J	ug/L		99	50 - 150		
Dibromoacetic acid	1.00	0.997	J	ug/L		100	50 - 150		
Dichloroacetic acid	1.00	0.970	J	ug/L		97	50 - 150		
Trichloroacetic acid	1.00	1.01		ug/L		101	50 - 150		
		MRL	MRL						
Surrogate	%Recovery	Qualifier	Limits						
2,3-Dibromopropionic acid	102		70 - 130						

Method: 218.7 - Chromium, Hexavalent (Ion Chromatography)

Lab Sample ID: 380-147873-1 MS
Matrix: Drinking Water
Analysis Batch: 150069

Client Sample ID: Explorer Well T22
Prep Type: Total/NA
Prep Batch: 149797

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Hexavalent Chromium (CrVI)	1.2		2.00	3.25		ug/L		104	90 - 110	

Lab Sample ID: 380-147873-1 MSD
Matrix: Drinking Water
Analysis Batch: 150069

Client Sample ID: Explorer Well T22
Prep Type: Total/NA
Prep Batch: 149797

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
											RPD	Limit
Hexavalent Chromium (CrVI)	1.2		2.00	3.26		ug/L		105	90 - 110	1	15	

Lab Sample ID: MBL 380-150069/6
Matrix: Drinking Water
Analysis Batch: 150069

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Hexavalent Chromium (CrVI)	ND		0.020	ug/L			04/30/25 10:03		1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 218.7 - Chromium, Hexavalent (Ion Chromatography) (Continued)

Lab Sample ID: LCS 380-150069/7
Matrix: Drinking Water
Analysis Batch: 150069

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexavalent Chromium (CrVI)	2.00	2.04		ug/L		102	90 - 110

Lab Sample ID: LCSD 380-150069/8
Matrix: Drinking Water
Analysis Batch: 150069

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
Hexavalent Chromium (CrVI)	2.00	2.03		ug/L		101	90 - 110	1	10

Lab Sample ID: MRL 380-150069/5
Matrix: Drinking Water
Analysis Batch: 150069

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexavalent Chromium (CrVI)	0.0200	0.0175	J	ug/L		87	50 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 380-149844/4
Matrix: Drinking Water
Analysis Batch: 149844

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050	mg/L			04/29/25 10:24	1
Nitrite as N	ND		0.050	mg/L			04/29/25 10:24	1

Lab Sample ID: LCS 380-149844/7
Matrix: Drinking Water
Analysis Batch: 149844

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.52		mg/L		101	90 - 110
Nitrite as N	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCSD 380-149844/8
Matrix: Drinking Water
Analysis Batch: 149844

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	2.50	2.52		mg/L		101	90 - 110	0	20
Nitrite as N	1.00	1.01		mg/L		101	90 - 110	0	20

Lab Sample ID: MRL 380-149844/6
Matrix: Drinking Water
Analysis Batch: 149844

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0492	J	mg/L		98	50 - 150
Nitrite as N	0.0500	0.0505		mg/L		101	50 - 150

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 380-149845/4
Matrix: Drinking Water
Analysis Batch: 149845

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

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	ND		0.50	mg/L			04/29/25 10:24	1
Sulfate	ND		0.25	mg/L			04/29/25 10:24	1

Lab Sample ID: LCS 380-149845/7
Matrix: Drinking Water
Analysis Batch: 149845

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	25.0	25.9		mg/L		104	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110

Lab Sample ID: LCSD 380-149845/8
Matrix: Drinking Water
Analysis Batch: 149845

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Chloride	25.0	25.9		mg/L		104	90 - 110	0	20
Sulfate	50.0	51.0		mg/L		102	90 - 110	0	20

Lab Sample ID: MRL 380-149845/5
Matrix: Drinking Water
Analysis Batch: 149845

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

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	0.125	0.131	J	mg/L		105	50 - 150
Sulfate	0.250	0.249	J	mg/L		99	50 - 150

Lab Sample ID: MRL 380-149845/6
Matrix: Drinking Water
Analysis Batch: 149845

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

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	0.500	0.459	J	mg/L		92	50 - 150
Sulfate	1.00	0.971		mg/L		97	50 - 150

Lab Sample ID: MB 380-149934/6
Matrix: Drinking Water
Analysis Batch: 149934

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

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chlorite	ND		10	ug/L			04/29/25 22:10	1

Lab Sample ID: LCS 380-149934/7
Matrix: Drinking Water
Analysis Batch: 149934

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chlorite	200	203		ug/L		101	90 - 110

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 380-149934/8
Matrix: Drinking Water
Analysis Batch: 149934

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
Chlorite	200	203		ug/L		102	90 - 110	0	10

Lab Sample ID: MRL 380-149934/5
Matrix: Drinking Water
Analysis Batch: 149934

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorite	10.0	9.51	J	ug/L		95	75 - 125

Method: 317 - Bromate, Ion Chromatography

Lab Sample ID: MB 380-149945/4
Matrix: Drinking Water
Analysis Batch: 149945

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromate	ND		1.0	ug/L			04/30/25 03:55	1

Lab Sample ID: LCS 380-149945/2
Matrix: Drinking Water
Analysis Batch: 149945

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromate	10.0	10.1		ug/L		101	90 - 110

Lab Sample ID: LCSD 380-149945/3
Matrix: Drinking Water
Analysis Batch: 149945

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
Bromate	10.0	10.1		ug/L		101	90 - 110	0	10

Lab Sample ID: MRL 380-149945/5
Matrix: Drinking Water
Analysis Batch: 149945

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromate	1.00	0.971	J	ug/L		97	75 - 125

Method: 531.2 - Carbamate Pesticides (HPLC)

Lab Sample ID: MBL 380-150036/3-A
Matrix: Drinking Water
Analysis Batch: 150256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150036

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbofuran	ND		0.50	ug/L		04/30/25 12:03	04/30/25 14:20	1
Oxamyl	ND		0.50	ug/L		04/30/25 12:03	04/30/25 14:20	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 531.2 - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: MBL 380-150036/3-A
Matrix: Drinking Water
Analysis Batch: 150256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150036

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
BDMC	95		70 - 130	04/30/25 12:03	04/30/25 14:20	1

Lab Sample ID: LCS 380-150036/14-A
Matrix: Drinking Water
Analysis Batch: 150256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbofuran	5.00	4.95		ug/L		99	70 - 130
Oxamyl	5.00	4.93		ug/L		99	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
BDMC	109		70 - 130

Lab Sample ID: MRL 380-150036/2-A
Matrix: Drinking Water
Analysis Batch: 150256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150036

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Carbofuran	0.500	0.539		ug/L		108	50 - 150
Oxamyl	0.500	0.602		ug/L		120	50 - 150

Surrogate	MRL MRL		Limits
	%Recovery	Qualifier	
BDMC	107		70 - 130

Method: 547 - Glyphosate (DAI HPLC)

Lab Sample ID: MBL 380-149876/3-A
Matrix: Drinking Water
Analysis Batch: 150009

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 149876

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Glyphosate	ND		6.0	ug/L		04/29/25 13:01	04/29/25 17:15	1

Lab Sample ID: LCS 380-149876/27-A
Matrix: Drinking Water
Analysis Batch: 150009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149876

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Glyphosate	10.0	10.3		ug/L		103	80 - 120

Lab Sample ID: MRL 380-149876/2-A
Matrix: Drinking Water
Analysis Batch: 150009

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149876

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Glyphosate	6.00	6.39		ug/L		106	50 - 150

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 549.2 - Diquat and Paraquat (HPLC)

Lab Sample ID: MB 380-149804/1-A
Matrix: Drinking Water
Analysis Batch: 150207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 149804

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diquat	ND		0.40	ug/L		04/29/25 10:34	04/30/25 18:03	1

Lab Sample ID: LCS 380-149804/5-A
Matrix: Drinking Water
Analysis Batch: 150207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diquat	5.00	4.48		ug/L		90	70 - 130

Lab Sample ID: LCSD 380-149804/6-A
Matrix: Drinking Water
Analysis Batch: 150207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 149804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diquat	5.00	4.50		ug/L		90	70 - 130	0	20

Lab Sample ID: MRL 380-149804/3-A
Matrix: Drinking Water
Analysis Batch: 150207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149804

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Diquat	0.400	ND		ug/L		81	50 - 150

Method: 331.0 - Perchlorate (LC/MS/MS)

Lab Sample ID: MBL 380-149962/10
Matrix: Drinking Water
Analysis Batch: 149962

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0963	J	0.50	ug/L			04/30/25 06:01	1

Lab Sample ID: LCS 380-149962/11
Matrix: Drinking Water
Analysis Batch: 149962

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	19.6	19.5		ug/L		99	80 - 120

Lab Sample ID: MRL 380-149962/1008
Matrix: Drinking Water
Analysis Batch: 149962

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.490	0.570		ug/L		116	50 - 150

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 380-150060/20-A
Matrix: Drinking Water
Analysis Batch: 150165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150060

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 06:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 06:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 06:27	1
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 06:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 06:27	1
Perfluorooctanoic acid (PFOA)	ND		2.0	ng/L		04/30/25 16:07	05/01/25 06:27	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	78		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C6 PFDA	108		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C5 PFHxA	111		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C4 PFHpA	116		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C8 PFOA	112		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C9 PFNA	117		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C7 PFUnA	99		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C2 PFDoA	100		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C4 PFBA	113		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C5 PFPeA	101		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C3 PFBS	105		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C3 PFHxS	104		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C8 PFOS	111		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C2-4:2-FTS	123		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C2-6:2-FTS	109		50 - 200	04/30/25 16:07	05/01/25 06:27	1
13C2-8:2-FTS	101		50 - 200	04/30/25 16:07	05/01/25 06:27	1

Lab Sample ID: LCS 380-150060/22-A
Matrix: Drinking Water
Analysis Batch: 150165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.0	57.3		ng/L		96	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.0	58.9		ng/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.0	58.7		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	60.0	61.7		ng/L		103	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.0	58.2		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	60.0	59.0		ng/L		98	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 HFPO-DA	78		50 - 200
13C6 PFDA	103		50 - 200
13C5 PFHxA	103		50 - 200
13C4 PFHpA	108		50 - 200
13C8 PFOA	109		50 - 200
13C9 PFNA	104		50 - 200
13C7 PFUnA	96		50 - 200

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LCS 380-150060/22-A
Matrix: Drinking Water
Analysis Batch: 150165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150060

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDoA	90		50 - 200
13C4 PFBA	107		50 - 200
13C5 PFPeA	99		50 - 200
13C3 PFBS	100		50 - 200
13C3 PFHxS	106		50 - 200
13C8 PFOS	107		50 - 200
13C2-4:2-FTS	117		50 - 200
13C2-6:2-FTS	104		50 - 200
13C2-8:2-FTS	101		50 - 200

Lab Sample ID: MRL 380-150060/21-A
Matrix: Drinking Water
Analysis Batch: 150165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150060

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.10		ng/L		105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.17		ng/L		108	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.22		ng/L		111	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.15		ng/L		107	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.14		ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.08		ng/L		104	50 - 150

Isotope Dilution	MRL MRL		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	68		50 - 200
13C6 PFDA	112		50 - 200
13C5 PFHxA	108		50 - 200
13C4 PFHpA	117		50 - 200
13C8 PFOA	113		50 - 200
13C9 PFNA	110		50 - 200
13C7 PFUnA	97		50 - 200
13C2 PFDoA	97		50 - 200
13C4 PFBA	112		50 - 200
13C5 PFPeA	105		50 - 200
13C3 PFBS	103		50 - 200
13C3 PFHxS	111		50 - 200
13C8 PFOS	110		50 - 200
13C2-4:2-FTS	122		50 - 200
13C2-6:2-FTS	116		50 - 200
13C2-8:2-FTS	107		50 - 200

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Lab Sample ID: MBL 380-150088/20-A
Matrix: Drinking Water
Analysis Batch: 150184

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150088

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorooctanoic acid (PFOA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorodecanoic acid (PFDA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorotetradecanoic acid (PFTA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	ng/L		04/30/25 16:45	05/01/25 09:49	1
Surrogate	MBL	MBL	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	122		70 - 130			04/30/25 16:45	05/01/25 09:49	1
13C2 PFHxA	109		70 - 130			04/30/25 16:45	05/01/25 09:49	1
13C2 PFDA	111		70 - 130			04/30/25 16:45	05/01/25 09:49	1
13C3-GenX	100		70 - 130			04/30/25 16:45	05/01/25 09:49	1

Lab Sample ID: LCS 380-150088/22-A
Matrix: Drinking Water
Analysis Batch: 150184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	50.1	46.3		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.1	47.4		ng/L		95	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.1	45.5		ng/L		91	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.1	45.2		ng/L		90	70 - 130
Perfluorohexanoic acid (PFHxA)	50.1	49.1		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	50.1	44.6		ng/L		89	70 - 130
Perfluorooctanoic acid (PFOA)	50.1	45.9		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	50.1	48.1		ng/L		96	70 - 130

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: LCS 380-150088/22-A

Matrix: Drinking Water

Analysis Batch: 150184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS)	50.1	48.4		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.1	47.7		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.1	47.5		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	50.1	45.9		ng/L		92	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.1	45.6		ng/L		91	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	50.1	44.8		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	50.1	45.2		ng/L		90	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.1	46.0		ng/L		92	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.1	44.2		ng/L		88	70 - 130
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
d5-NEtFOSAA	102		70 - 130				
13C2 PFHxA	105		70 - 130				
13C2 PFDA	101		70 - 130				
13C3-GenX	93		70 - 130				

Lab Sample ID: MRL 380-150088/21-A

Matrix: Drinking Water

Analysis Batch: 150184

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 150088

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.73	J	ng/L		87	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.98	J	ng/L		99	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.92	J	ng/L		96	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.32		ng/L		116	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.93	J	ng/L		96	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.00		ng/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.08		ng/L		104	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.92	J	ng/L		96	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.99	J	ng/L		99	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.00		ng/L		100	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	2.01		ng/L		100	50 - 150

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: MRL 380-150088/21-A
Matrix: Drinking Water
Analysis Batch: 150184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150088

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotridecanoic acid (PFTTrDA)	2.00	1.88	J	ng/L		94	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	1.92	J	ng/L		96	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.84	J	ng/L		92	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.80	J	ng/L		90	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	107		70 - 130
13C2 PFHxA	106		70 - 130
13C2 PFDA	102		70 - 130
13C3-GenX	91		70 - 130

Method: In-House Method - Acrylamide (LC/MS/MS)

Lab Sample ID: MB 380-150164/8
Matrix: Drinking Water
Analysis Batch: 150164

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylamide	ND		0.10	ug/L			05/01/25 08:38	1

Lab Sample ID: LCS 380-150164/10
Matrix: Drinking Water
Analysis Batch: 150164

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrylamide	10.0	10.6		ug/L		106	70 - 130

Lab Sample ID: MRL 380-150164/1007
Matrix: Drinking Water
Analysis Batch: 150164

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Acrylamide	0.100	0.0818	J	ug/L		82	50 - 150

Method: 1613B - Tetra Chlorinated Dioxin (GC/MS/MS)

Lab Sample ID: MBL 380-150167/21-A
Matrix: Drinking Water
Analysis Batch: 150203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150167

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		4.9		pg/L		05/01/25 09:09	05/02/25 11:20	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	83		31 - 137	05/01/25 09:09	05/02/25 11:20	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 1613B - Tetra Chlorinated Dioxin (GC/MS/MS)

Lab Sample ID: LCS 380-150167/19-A
Matrix: Drinking Water
Analysis Batch: 150203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	197	184		pg/L		94	73 - 146
<i>Isotope Dilution</i>		<i>%Recovery</i>	<i>Qualifier</i>				<i>Limits</i>
13C-2,3,7,8-TCDD		81					25 - 141

Lab Sample ID: LCSD 380-150167/20-A
Matrix: Drinking Water
Analysis Batch: 150203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150167

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD	197	183		pg/L		93	73 - 146	1	20
<i>Isotope Dilution</i>		<i>%Recovery</i>	<i>Qualifier</i>				<i>Limits</i>		
13C-2,3,7,8-TCDD		85					25 - 141		

Lab Sample ID: MRL 380-150167/22-A
Matrix: Drinking Water
Analysis Batch: 150203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150167

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	4.92	3.71	J	pg/L		75	50 - 150
<i>Isotope Dilution</i>		<i>%Recovery</i>	<i>Qualifier</i>				<i>Limits</i>
13C-2,3,7,8-TCDD		78					25 - 141

Method: 200.7 - Metals (ICP)

Lab Sample ID: MBL 380-150070/47
Matrix: Drinking Water
Analysis Batch: 150070

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.10	mg/L			04/30/25 12:37	1
Iron	ND		0.010	mg/L			04/30/25 12:37	1
Magnesium	ND		0.10	mg/L			04/30/25 12:37	1
Potassium	ND		0.10	mg/L			04/30/25 12:37	1
Sodium	ND		0.10	mg/L			04/30/25 12:37	1

Lab Sample ID: LCS 380-150070/50
Matrix: Drinking Water
Analysis Batch: 150070

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50.0	50.6		mg/L		101	85 - 115
Iron	5.00	5.07		mg/L		101	85 - 115
Magnesium	20.0	20.3		mg/L		102	85 - 115
Potassium	20.0	20.2		mg/L		101	85 - 115
Sodium	50.0	50.2		mg/L		100	85 - 115

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 200.7 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 380-150070/51
Matrix: Drinking Water
Analysis Batch: 150070

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Calcium	50.0	51.1		mg/L		102	85 - 115	1	20	
Iron	5.00	5.14		mg/L		103	85 - 115	2	20	
Magnesium	20.0	20.5		mg/L		102	85 - 115	1	20	
Potassium	20.0	20.4		mg/L		102	85 - 115	1	20	
Sodium	50.0	50.9		mg/L		102	85 - 115	1	20	

Lab Sample ID: LLCS 380-150070/48
Matrix: Drinking Water
Analysis Batch: 150070

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Calcium	0.100	0.0994	J	mg/L		99	50 - 150			
Potassium	0.100	0.106		mg/L		106	50 - 150			
Sodium	0.100	0.0988	J	mg/L		99	50 - 150			

Lab Sample ID: LLCS 380-150070/49
Matrix: Drinking Water
Analysis Batch: 150070

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Iron	0.0100	0.0101		mg/L		101	50 - 150			
Magnesium	0.100	0.0921	J	mg/L		92	50 - 150			

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MBL 380-150095/80
Matrix: Drinking Water
Analysis Batch: 150095

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

Analyte	MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aluminum	ND		20	ug/L			04/30/25 13:35	1
Antimony	ND		1.0	ug/L			04/30/25 13:35	1
Arsenic	ND		1.0	ug/L			04/30/25 13:35	1
Barium	ND		2.0	ug/L			04/30/25 13:35	1
Beryllium	ND		0.30	ug/L			04/30/25 13:35	1
Cadmium	ND		0.50	ug/L			04/30/25 13:35	1
Chromium	ND		0.90	ug/L			04/30/25 13:35	1
Copper	ND		1.0	ug/L			04/30/25 13:35	1
Lead	ND		0.50	ug/L			04/30/25 13:35	1
Manganese	ND		2.0	ug/L			04/30/25 13:35	1
Nickel	ND		1.0	ug/L			04/30/25 13:35	1
Selenium	ND		2.0	ug/L			04/30/25 13:35	1
Silver	ND		0.50	ug/L			04/30/25 13:35	1
Thallium	ND		0.30	ug/L			04/30/25 13:35	1
Uranium	ND		0.67	pCi/L			04/30/25 13:35	1
Zinc	ND		5.0	ug/L			04/30/25 13:35	1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 380-150095/82
Matrix: Drinking Water
Analysis Batch: 150095

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	50.0	50.7		ug/L		101	85 - 115	
Antimony	50.0	50.2		ug/L		100	85 - 115	
Arsenic	50.0	50.1		ug/L		100	85 - 115	
Barium	50.0	51.9		ug/L		104	85 - 115	
Beryllium	50.0	50.8		ug/L		102	85 - 115	
Cadmium	50.0	50.8		ug/L		102	85 - 115	
Chromium	50.0	49.2		ug/L		98	85 - 115	
Copper	50.0	48.9		ug/L		98	85 - 115	
Lead	50.0	50.2		ug/L		100	85 - 115	
Manganese	50.0	49.6		ug/L		99	85 - 115	
Nickel	50.0	49.4		ug/L		99	85 - 115	
Selenium	50.0	50.1		ug/L		100	85 - 115	
Silver	50.0	51.0		ug/L		102	85 - 115	
Thallium	50.0	50.1		ug/L		100	85 - 115	
Uranium	33.5	34.5		pCi/L		103	85 - 115	
Zinc	50.0	49.9		ug/L		100	85 - 115	

Lab Sample ID: LCSD 380-150095/83
Matrix: Drinking Water
Analysis Batch: 150095

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
Aluminum	50.0	50.4		ug/L		101	85 - 115	1	20	
Antimony	50.0	50.4		ug/L		101	85 - 115	0	20	
Arsenic	50.0	50.1		ug/L		100	85 - 115	0	20	
Barium	50.0	51.2		ug/L		102	85 - 115	1	20	
Beryllium	50.0	50.8		ug/L		102	85 - 115	0	20	
Cadmium	50.0	50.7		ug/L		101	85 - 115	0	20	
Chromium	50.0	49.3		ug/L		99	85 - 115	0	20	
Copper	50.0	49.3		ug/L		99	85 - 115	1	20	
Lead	50.0	50.6		ug/L		101	85 - 115	1	20	
Manganese	50.0	49.8		ug/L		100	85 - 115	0	20	
Nickel	50.0	49.4		ug/L		99	85 - 115	0	20	
Selenium	50.0	49.8		ug/L		100	85 - 115	1	20	
Silver	50.0	51.0		ug/L		102	85 - 115	0	20	
Thallium	50.0	50.8		ug/L		102	85 - 115	1	20	
Uranium	33.5	34.5		pCi/L		103	85 - 115	0	20	
Zinc	50.0	50.2		ug/L		100	85 - 115	1	20	

Lab Sample ID: LLCS 380-150095/81
Matrix: Drinking Water
Analysis Batch: 150095

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	20.0	20.2		ug/L		101	50 - 150	
Antimony	1.00	1.06		ug/L		106	50 - 150	
Arsenic	1.00	1.03		ug/L		103	50 - 150	
Barium	2.00	2.11		ug/L		105	50 - 150	
Beryllium	0.300	0.303		ug/L		101	50 - 150	

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 380-150095/81
Matrix: Drinking Water
Analysis Batch: 150095

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

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Cadmium	0.500	0.535		ug/L		107	50 - 150
Chromium	0.900	1.10		ug/L		122	50 - 150
Copper	1.00	1.03		ug/L		103	50 - 150
Lead	0.500	0.518		ug/L		104	50 - 150
Manganese	2.00	2.08		ug/L		104	50 - 150
Nickel	1.00	0.998	J	ug/L		100	50 - 150
Selenium	2.00	2.07		ug/L		104	50 - 150
Silver	0.500	0.524		ug/L		105	50 - 150
Thallium	0.300	0.308		ug/L		103	50 - 150
Uranium	0.670	0.706		pCi/L		105	50 - 150
Zinc	4.99	5.42		ug/L		109	50 - 150

Lab Sample ID: MBL 380-150315/30
Matrix: Drinking Water
Analysis Batch: 150315

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

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Aluminum	ND		20	ug/L			05/01/25 12:01	1
Antimony	ND		1.0	ug/L			05/01/25 12:01	1
Arsenic	ND		1.0	ug/L			05/01/25 12:01	1
Barium	ND		2.0	ug/L			05/01/25 12:01	1
Beryllium	ND		0.30	ug/L			05/01/25 12:01	1
Cadmium	ND		0.50	ug/L			05/01/25 12:01	1
Chromium	ND		0.90	ug/L			05/01/25 12:01	1
Copper	ND		1.0	ug/L			05/01/25 12:01	1
Lead	ND		0.50	ug/L			05/01/25 12:01	1
Manganese	ND		2.0	ug/L			05/01/25 12:01	1
Nickel	ND		1.0	ug/L			05/01/25 12:01	1
Selenium	ND		2.0	ug/L			05/01/25 12:01	1
Silver	ND		0.50	ug/L			05/01/25 12:01	1
Thallium	ND		0.30	ug/L			05/01/25 12:01	1
Uranium	ND		0.67	pCi/L			05/01/25 12:01	1
Zinc	ND		5.0	ug/L			05/01/25 12:01	1

Lab Sample ID: LCS 380-150315/32
Matrix: Drinking Water
Analysis Batch: 150315

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Aluminum	50.0	52.8		ug/L		106	85 - 115
Antimony	50.0	49.4		ug/L		99	85 - 115
Arsenic	50.0	51.5		ug/L		103	85 - 115
Barium	50.0	50.7		ug/L		101	85 - 115
Beryllium	50.0	52.9		ug/L		106	85 - 115
Cadmium	50.0	50.0		ug/L		100	85 - 115
Chromium	50.0	50.8		ug/L		102	85 - 115
Copper	50.0	50.2		ug/L		100	85 - 115
Lead	50.0	50.6		ug/L		101	85 - 115
Manganese	50.0	50.4		ug/L		101	85 - 115

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 380-150315/32
Matrix: Drinking Water
Analysis Batch: 150315

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Nickel	50.0	50.8		ug/L		102	85 - 115
Selenium	50.0	49.6		ug/L		99	85 - 115
Silver	50.0	51.0		ug/L		102	85 - 115
Thallium	50.0	51.0		ug/L		102	85 - 115
Uranium	33.5	34.3		pCi/L		102	85 - 115
Zinc	50.0	49.1		ug/L		98	85 - 115

Lab Sample ID: LCSD 380-150315/33
Matrix: Drinking Water
Analysis Batch: 150315

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Aluminum	50.0	52.5		ug/L		105	85 - 115	1	20
Antimony	50.0	50.3		ug/L		101	85 - 115	2	20
Arsenic	50.0	51.7		ug/L		103	85 - 115	0	20
Barium	50.0	51.2		ug/L		102	85 - 115	1	20
Beryllium	50.0	53.2		ug/L		106	85 - 115	1	20
Cadmium	50.0	50.0		ug/L		100	85 - 115	0	20
Chromium	50.0	50.8		ug/L		102	85 - 115	0	20
Copper	50.0	50.3		ug/L		101	85 - 115	0	20
Lead	50.0	51.0		ug/L		102	85 - 115	1	20
Manganese	50.0	50.4		ug/L		101	85 - 115	0	20
Nickel	50.0	50.8		ug/L		102	85 - 115	0	20
Selenium	50.0	49.7		ug/L		99	85 - 115	0	20
Silver	50.0	51.0		ug/L		102	85 - 115	0	20
Thallium	50.0	51.5		ug/L		103	85 - 115	1	20
Uranium	33.5	34.5		pCi/L		103	85 - 115	1	20
Zinc	50.0	49.1		ug/L		98	85 - 115	0	20

Lab Sample ID: LLCS 380-150315/31
Matrix: Drinking Water
Analysis Batch: 150315

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

Analyte	Spike Added	LLCS	LLCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Aluminum	20.0	21.2		ug/L		106	50 - 150
Antimony	1.00	1.06		ug/L		106	50 - 150
Arsenic	1.00	1.00		ug/L		100	50 - 150
Barium	2.00	2.05		ug/L		102	50 - 150
Beryllium	0.300	0.328		ug/L		109	50 - 150
Cadmium	0.500	0.444	J	ug/L		89	50 - 150
Chromium	0.900	0.986		ug/L		110	50 - 150
Copper	1.00	1.04		ug/L		104	50 - 150
Lead	0.500	0.512		ug/L		102	50 - 150
Manganese	2.00	2.05		ug/L		103	50 - 150
Nickel	1.00	1.07		ug/L		107	50 - 150
Selenium	2.00	2.06		ug/L		103	50 - 150
Silver	0.500	0.514		ug/L		103	50 - 150
Thallium	0.300	0.308		ug/L		103	50 - 150
Uranium	0.670	0.682		pCi/L		102	50 - 150

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 380-150315/31
Matrix: Drinking Water
Analysis Batch: 150315

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	4.99	5.29		ug/L		106	50 - 150

Method: 200.8 - Mercury (ICP/MS)

Lab Sample ID: MBL 380-150096/116
Matrix: Drinking Water
Analysis Batch: 150096

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20	ug/L			04/30/25 14:54	1

Lab Sample ID: MBL 380-150096/80
Matrix: Drinking Water
Analysis Batch: 150096

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20	ug/L			04/30/25 13:35	1

Lab Sample ID: LCS 380-150096/118
Matrix: Drinking Water
Analysis Batch: 150096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	1.00	0.971		ug/L		97	85 - 115

Lab Sample ID: LCS 380-150096/82
Matrix: Drinking Water
Analysis Batch: 150096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	1.00	0.965		ug/L		97	85 - 115

Lab Sample ID: LCSD 380-150096/119
Matrix: Drinking Water
Analysis Batch: 150096

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
Hg	1.00	0.984		ug/L		98	85 - 115	1	20

Lab Sample ID: LCSD 380-150096/83
Matrix: Drinking Water
Analysis Batch: 150096

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
Hg	1.00	1.02		ug/L		102	85 - 115	6	20

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 200.8 - Mercury (ICP/MS) (Continued)

Lab Sample ID: LLCS 380-150096/117
Matrix: Drinking Water
Analysis Batch: 150096

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	0.200	0.205		ug/L		103	50 - 150

Lab Sample ID: LLCS 380-150096/81
Matrix: Drinking Water
Analysis Batch: 150096

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	0.200	0.202		ug/L		101	50 - 150

Lab Sample ID: MBL 380-150316/30
Matrix: Drinking Water
Analysis Batch: 150316

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20	ug/L			05/01/25 12:01	1

Lab Sample ID: LCS 380-150316/32
Matrix: Drinking Water
Analysis Batch: 150316

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	1.00	0.979		ug/L		98	85 - 115

Lab Sample ID: LCSD 380-150316/33
Matrix: Drinking Water
Analysis Batch: 150316

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
Hg	1.00	0.997		ug/L		100	85 - 115	2	20

Lab Sample ID: LLCS 380-150316/31
Matrix: Drinking Water
Analysis Batch: 150316

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	0.200	0.206		ug/L		103	50 - 150

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 380-149896/1
Matrix: Drinking Water
Analysis Batch: 149896

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		0.10	NTU			04/29/25 12:34	1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 180.1 - Turbidity, Nephelometric (Continued)

Lab Sample ID: LCS 380-149896/2
Matrix: Drinking Water
Analysis Batch: 149896

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Turbidity	20.0	20		NTU		98	90 - 110

Lab Sample ID: LCSD 380-149896/29
Matrix: Drinking Water
Analysis Batch: 149896

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
Turbidity	20.0	20		NTU		98	90 - 110	1	20

Lab Sample ID: MRL 380-149896/4
Matrix: Drinking Water
Analysis Batch: 149896

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Turbidity	0.100	0.10		NTU		105	50 - 150

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 380-150219/1-A
Matrix: Drinking Water
Analysis Batch: 150265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150219

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.0050	mg/L		05/01/25 10:08	05/01/25 13:24	1

Lab Sample ID: LCS 380-150219/4-A
Matrix: Drinking Water
Analysis Batch: 150265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.100	0.0953		mg/L		95	90 - 110

Lab Sample ID: LCSD 380-150219/5-A
Matrix: Drinking Water
Analysis Batch: 150265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150219

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.100	0.106		mg/L		106	90 - 110	10	20

Lab Sample ID: LLCS 380-150219/3-A
Matrix: Drinking Water
Analysis Batch: 150265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150219

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0200	0.0200		mg/L		100	80 - 120

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: MRL 380-150219/2-A
Matrix: Drinking Water
Analysis Batch: 150265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150219

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.00500	0.00437	J	mg/L		87	50 - 150

Method: 4500 ClO2 D - Chlorine Dioxide

Lab Sample ID: MB 380-150726/8
Matrix: Drinking Water
Analysis Batch: 150726

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine dioxide, Residual	ND		0.24	mg/L			05/05/25 13:47	1

Lab Sample ID: LCS 380-150726/10
Matrix: Drinking Water
Analysis Batch: 150726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorine dioxide, Residual	2.40	2.20		mg/L		92	85 - 115

Lab Sample ID: LCSD 380-150726/11
Matrix: Drinking Water
Analysis Batch: 150726

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
Chlorine dioxide, Residual	2.40	2.24		mg/L		93	85 - 115	2	20

Lab Sample ID: MRL 380-150726/9
Matrix: Drinking Water
Analysis Batch: 150726

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorine dioxide, Residual	0.240	ND		mg/L		79	50 - 150

Lab Sample ID: 380-147873-1 DU
Matrix: Drinking Water
Analysis Batch: 150726

Client Sample ID: Explorer Well T22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chlorine dioxide, Residual	ND	HF	ND		mg/L		NC	20

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: MB 380-149819/1
Matrix: Drinking Water
Analysis Batch: 149819

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		2.0	Color Units			04/29/25 11:28	1

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: SM 2150B - Odor

Lab Sample ID: MB 380-149837/1
Matrix: Drinking Water
Analysis Batch: 149837

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Odor	ND		1.0	T.O.N.			04/29/25 12:41	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 380-150190/1
Matrix: Drinking Water
Analysis Batch: 150190

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		4.0	mg/L			04/30/25 15:11	1

Lab Sample ID: LCS 380-150190/4
Matrix: Drinking Water
Analysis Batch: 150190

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	100	97.6		mg/L		98	90 - 110

Lab Sample ID: LCSD 380-150190/19
Matrix: Drinking Water
Analysis Batch: 150190

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	100	97.7		mg/L		98	90 - 110	0	20

Lab Sample ID: LLCS 380-150190/5
Matrix: Drinking Water
Analysis Batch: 150190

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	20.0	18.8		mg/L		94	90 - 110

Lab Sample ID: MRL 380-150190/3
Matrix: Drinking Water
Analysis Batch: 150190

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	4.00	3.87	J	mg/L		97	50 - 150

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 380-150193/3
Matrix: Drinking Water
Analysis Batch: 150193

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		2.0	umhos/cm			04/30/25 15:11	1

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: SM 2510B - Conductivity, Specific Conductance (Continued)

Lab Sample ID: LCS 380-150193/5
Matrix: Drinking Water
Analysis Batch: 150193

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1000	998		umhos/cm		100	90 - 110

Lab Sample ID: LCSD 380-150193/17
Matrix: Drinking Water
Analysis Batch: 150193

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
Specific Conductance	1000	991		umhos/cm		99	90 - 110	1	10

Lab Sample ID: MRL 380-150193/4
Matrix: Drinking Water
Analysis Batch: 150193

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	2.00	2.00		umhos/cm		100	50 - 150

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

Lab Sample ID: MB 380-149857/1
Matrix: Drinking Water
Analysis Batch: 149857

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	mg/L			04/29/25 13:53	1

Lab Sample ID: HLCS 380-149857/5
Matrix: Drinking Water
Analysis Batch: 149857

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	682		mg/L		97	80 - 114

Lab Sample ID: LCS 380-149857/4
Matrix: Drinking Water
Analysis Batch: 149857

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	175	172		mg/L		98	80 - 114

Lab Sample ID: MRL 380-149857/2
Matrix: Drinking Water
Analysis Batch: 149857

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	8.00	J	mg/L		80	50 - 150

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

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

Lab Sample ID: MRL 380-149857/3
Matrix: Drinking Water
Analysis Batch: 149857

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	10.0		mg/L		100	50 - 150

Lab Sample ID: 380-147873-1 DU
Matrix: Drinking Water
Analysis Batch: 149857

Client Sample ID: Explorer Well T22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	290		300		mg/L		3	10

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 380-150725/8
Matrix: Drinking Water
Analysis Batch: 150725

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	ND		0.050	mg/L			05/05/25 13:47	1

Lab Sample ID: LCS 380-150725/10
Matrix: Drinking Water
Analysis Batch: 150725

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorine, Total Residual	1.00	0.920		mg/L		92	85 - 115
Chlorine, free	1.00	0.920		mg/L		92	85 - 115

Lab Sample ID: LCSD 380-150725/11
Matrix: Drinking Water
Analysis Batch: 150725

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
Chlorine, Total Residual	1.00	0.930		mg/L		93	85 - 115	1	20
Chlorine, free	1.00	0.880		mg/L		88	85 - 115	4	20

Lab Sample ID: MRL 380-150725/9
Matrix: Drinking Water
Analysis Batch: 150725

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorine, Total Residual	0.100	0.0700		mg/L		70	50 - 150
Chlorine, free	0.100	0.0500		mg/L		50	50 - 150

Lab Sample ID: 380-147873-1 DU
Matrix: Drinking Water
Analysis Batch: 150725

Client Sample ID: Explorer Well T22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chlorine, Total Residual	ND	HF	ND		mg/L		NC	20

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 380-150180/6
Matrix: Drinking Water
Analysis Batch: 150180

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.050	mg/L			04/30/25 17:01	1

Lab Sample ID: LCS 380-150180/8
Matrix: Drinking Water
Analysis Batch: 150180

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: LCSD 380-150180/9
Matrix: Drinking Water
Analysis Batch: 150180

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
Fluoride	1.00	1.05		mg/L		105	90 - 110	0	10

Lab Sample ID: MRL 380-150180/7
Matrix: Drinking Water
Analysis Batch: 150180

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.0500	0.0523		mg/L		105	50 - 150

Method: SM 4500 H+ B - pH

Lab Sample ID: MB 380-150194/5
Matrix: Drinking Water
Analysis Batch: 150194

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.7		0.01	SU			04/30/25 15:11	1

Lab Sample ID: LCS 380-150194/6
Matrix: Drinking Water
Analysis Batch: 150194

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	6.00	6.0		SU		100	98 - 102

Lab Sample ID: LCSD 380-150194/18
Matrix: Drinking Water
Analysis Batch: 150194

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	6.00	6.0		SU		101	98 - 102	0	2

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 380-149813/2
Matrix: Drinking Water
Analysis Batch: 149813

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Blue Active Substances	ND		0.10	mg/L			04/29/25 14:59	1

Lab Sample ID: LCS 380-149813/4
Matrix: Drinking Water
Analysis Batch: 149813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Blue Active Substances	0.200	0.195		mg/L		98	90 - 110

Lab Sample ID: LCSD 380-149813/5
Matrix: Drinking Water
Analysis Batch: 149813

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
Methylene Blue Active Substances	0.200	0.190		mg/L		95	90 - 110	3	20

Lab Sample ID: MRL 380-149813/3
Matrix: Drinking Water
Analysis Batch: 149813

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Blue Active Substances	0.100	0.114		mg/L		114	75 - 125

Method: 7110B - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 810-142960/1-A
Matrix: Drinking Water
Analysis Batch: 143824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142960

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.0000	U	0.480		3.00	0.660	pCi/L	05/07/25 12:19	05/13/25 10:01	1
Gross Beta	-0.3600	U	1.36		4.00	1.46	pCi/L	05/07/25 12:19	05/13/25 10:01	1

Lab Sample ID: LCS 810-142960/2-A
Matrix: Drinking Water
Analysis Batch: 143824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142960

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	14.9	13.46			3.00	0.800	pCi/L	90	80 - 120
Gross Beta	19.8	16.32			4.00	1.77	pCi/L	83	80 - 120

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 905 - Strontium-90 (GFPC)

Lab Sample ID: MB 160-716561/1-A
Matrix: Drinking Water
Analysis Batch: 718202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716561

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Strontium-90	0.08720	U	0.180	0.180	3.00	0.184	pCi/L	05/08/25 09:24	05/19/25 14:26	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Sr Carrier	83.1		30 - 110				05/08/25 09:24		05/19/25 14:26	1
Y Carrier	90.1		30 - 110				05/08/25 09:24		05/19/25 14:26	1

Lab Sample ID: LCS 160-716561/2-A
Matrix: Drinking Water
Analysis Batch: 718202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716561

Analyte	LCS LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					
Strontium-90			6.98	6.678		0.759	3.00	0.186	pCi/L	96	90 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits								
Sr Carrier	74.9		30 - 110								
Y Carrier	85.6		30 - 110								

Lab Sample ID: LCSD 160-716561/3-A
Matrix: Drinking Water
Analysis Batch: 718202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 716561

Analyte	LCSD LCSD		Spike	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RPD	RPD Limit
	%Yield	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)							
Strontium-90			6.98	6.946		0.763	3.00	0.178	pCi/L	100	90 - 110	4	20
Carrier	LCSD %Yield	LCSD Qualifier	Limits										
Sr Carrier	81.8		30 - 110										
Y Carrier	88.2		30 - 110										

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-716134/2-A
Matrix: Drinking Water
Analysis Batch: 716386

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716134

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Tritium	-123.9	U	174	174	500	208	pCi/L	05/05/25 13:53	05/06/25 21:32	1

Lab Sample ID: LCS 160-716134/3-A
Matrix: Drinking Water
Analysis Batch: 716386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716134

Analyte	LCS LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					
Tritium			1860	1681		348	500	200	pCi/L	90	90 - 110

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QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: SM7500 Ra B - Radium-226

Lab Sample ID: MB 810-143985/1-A
Matrix: Drinking Water
Analysis Batch: 145766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143985

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	0.05000	U	0.130		1.00	0.190	pCi/L	05/14/25 10:18	05/27/25 11:17	1

Lab Sample ID: LCS 810-143985/2-A
Matrix: Drinking Water
Analysis Batch: 145766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143985

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Lab Sample ID: 380-147873-1 MS
Matrix: Drinking Water
Analysis Batch: 146580

Client Sample ID: Explorer Well T22
Prep Type: Total/NA
Prep Batch: 143985

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Lab Sample ID: 380-147873-1 MSD
Matrix: Drinking Water
Analysis Batch: 146580

Client Sample ID: Explorer Well T22
Prep Type: Total/NA
Prep Batch: 143985

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RPD	RPD Limit

Method: SM7500 Ra D - Radium-228

Lab Sample ID: MB 810-143983/1-A
Matrix: Drinking Water
Analysis Batch: 146228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143983

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.5300	U	0.660		1.00	0.740	pCi/L	05/14/25 10:10	05/29/25 11:34	1

Lab Sample ID: LCS 810-143983/2-A
Matrix: Drinking Water
Analysis Batch: 146228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143983

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method: 9215B - Heterotrophic Plate Count

Lab Sample ID: POS 380-150113/13
Matrix: Drinking Water
Analysis Batch: 150113

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

Analyte	POS Result	POS Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heterotrophic Plate Count	>5700		1	CFU/mL			04/29/25 11:24	1

Lab Sample ID: POS 380-150113/14
Matrix: Drinking Water
Analysis Batch: 150113

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

Analyte	POS Result	POS Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heterotrophic Plate Count	>5700		1	CFU/mL			04/29/25 11:24	1

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

GC/MS VOA

Analysis Batch: 149765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SRL 524M	
380-147873-3	TRIP BLANK	Total/NA	Drinking Water	SRL 524M	
MB 380-149765/5	Method Blank	Total/NA	Drinking Water	SRL 524M	
LCS 380-149765/3	Lab Control Sample	Total/NA	Drinking Water	SRL 524M	
LCSD 380-149765/17	Lab Control Sample Dup	Total/NA	Drinking Water	SRL 524M	
MRL 380-149765/4	Lab Control Sample	Total/NA	Drinking Water	SRL 524M	

Analysis Batch: 149908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	524.2	
MB 380-149908/5	Method Blank	Total/NA	Drinking Water	524.2	
LCS 380-149908/3	Lab Control Sample	Total/NA	Drinking Water	524.2	
LCSD 380-149908/4	Lab Control Sample Dup	Total/NA	Drinking Water	524.2	

Analysis Batch: 150158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	524.2	

Analysis Batch: 150850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	524.2	
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	524.2	
MB 380-150850/15	Method Blank	Total/NA	Drinking Water	524.2	
LCS 380-150850/11	Lab Control Sample	Total/NA	Drinking Water	524.2	
LCSD 380-150850/12	Lab Control Sample Dup	Total/NA	Drinking Water	524.2	
MRL 380-150850/13	Lab Control Sample	Total/NA	Drinking Water	524.2	
MRL 380-150850/14	Lab Control Sample	Total/NA	Drinking Water	524.2	

GC/MS Semi VOA

Prep Batch: 149836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	525.2	
MB 380-149836/21-A	Method Blank	Total/NA	Drinking Water	525.2	
LCS 380-149836/23-A	Lab Control Sample	Total/NA	Drinking Water	525.2	
MRL 380-149836/22-A	Lab Control Sample	Total/NA	Drinking Water	525.2	

Analysis Batch: 149983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	525.2	149836
MB 380-149836/21-A	Method Blank	Total/NA	Drinking Water	525.2	149836
LCS 380-149836/23-A	Lab Control Sample	Total/NA	Drinking Water	525.2	149836
MRL 380-149836/22-A	Lab Control Sample	Total/NA	Drinking Water	525.2	149836

Prep Batch: 150027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	548.1	
MB 380-150027/1-A	Method Blank	Total/NA	Drinking Water	548.1	
LCS 380-150027/3-A	Lab Control Sample	Total/NA	Drinking Water	548.1	
MRL 380-150027/2-A	Lab Control Sample	Total/NA	Drinking Water	548.1	

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

GC/MS Semi VOA

Analysis Batch: 150382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	548.1	150027
MB 380-150027/1-A	Method Blank	Total/NA	Drinking Water	548.1	150027
LCS 380-150027/3-A	Lab Control Sample	Total/NA	Drinking Water	548.1	150027
MRL 380-150027/2-A	Lab Control Sample	Total/NA	Drinking Water	548.1	150027

GC Semi VOA

Prep Batch: 149784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	515.4	
MBL 380-149784/8-A	Method Blank	Total/NA	Drinking Water	515.4	
LCS 380-149784/32-A	Lab Control Sample	Total/NA	Drinking Water	515.4	
LCS 380-149784/33-A	Lab Control Sample	Total/NA	Drinking Water	515.4	
LCSD 380-149784/34-A	Lab Control Sample Dup	Total/NA	Drinking Water	515.4	
MRL 380-149784/35-A	Lab Control Sample	Total/NA	Drinking Water	515.4	

Prep Batch: 150006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	504.1	
MBL 380-150006/4-A	Method Blank	Total/NA	Drinking Water	504.1	
LCS 380-150006/29-A	Lab Control Sample	Total/NA	Drinking Water	504.1	
MRL 380-150006/2-A	Lab Control Sample	Total/NA	Drinking Water	504.1	
MRL 380-150006/3-A	Lab Control Sample	Total/NA	Drinking Water	504.1	

Prep Batch: 150039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	6251B	
MB 380-150039/10-A	Method Blank	Total/NA	Drinking Water	6251B	
LCS 380-150039/37-A	Lab Control Sample	Total/NA	Drinking Water	6251B	
MRL 380-150039/9-A	Lab Control Sample	Total/NA	Drinking Water	6251B	

Analysis Batch: 150179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	515.4	149784
MBL 380-149784/8-A	Method Blank	Total/NA	Drinking Water	515.4	149784
LCS 380-149784/32-A	Lab Control Sample	Total/NA	Drinking Water	515.4	149784
LCS 380-149784/33-A	Lab Control Sample	Total/NA	Drinking Water	515.4	149784
LCSD 380-149784/34-A	Lab Control Sample Dup	Total/NA	Drinking Water	515.4	149784
MRL 380-149784/35-A	Lab Control Sample	Total/NA	Drinking Water	515.4	149784

Prep Batch: 150189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	505	
MB 380-150189/32-A	Method Blank	Total/NA	Drinking Water	505	
LCS 380-150189/16-A	Lab Control Sample	Total/NA	Drinking Water	505	
LCS 380-150189/24-A	Lab Control Sample	Total/NA	Drinking Water	505	
LCS 380-150189/57-A	Lab Control Sample	Total/NA	Drinking Water	505	
LCS 380-150189/59-A	Lab Control Sample	Total/NA	Drinking Water	505	
LCS 380-150189/60-A	Lab Control Sample	Total/NA	Drinking Water	505	
LCS 380-150189/8-A	Lab Control Sample	Total/NA	Drinking Water	505	
LCSD 380-150189/58-A	Lab Control Sample Dup	Total/NA	Drinking Water	505	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

GC Semi VOA (Continued)

Prep Batch: 150189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-150189/30-A	Lab Control Sample	Total/NA	Drinking Water	505	
MRL 380-150189/31-A	Lab Control Sample	Total/NA	Drinking Water	505	

Analysis Batch: 150255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	6251B	150039
MB 380-150039/10-A	Method Blank	Total/NA	Drinking Water	6251B	150039
LCS 380-150039/37-A	Lab Control Sample	Total/NA	Drinking Water	6251B	150039
MRL 380-150039/9-A	Lab Control Sample	Total/NA	Drinking Water	6251B	150039

Analysis Batch: 150259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	504.1	150006
MBL 380-150006/4-A	Method Blank	Total/NA	Drinking Water	504.1	150006
LCS 380-150006/29-A	Lab Control Sample	Total/NA	Drinking Water	504.1	150006
MRL 380-150006/2-A	Lab Control Sample	Total/NA	Drinking Water	504.1	150006
MRL 380-150006/3-A	Lab Control Sample	Total/NA	Drinking Water	504.1	150006

Analysis Batch: 150381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	505	150189
MB 380-150189/32-A	Method Blank	Total/NA	Drinking Water	505	150189
LCS 380-150189/16-A	Lab Control Sample	Total/NA	Drinking Water	505	150189
LCS 380-150189/24-A	Lab Control Sample	Total/NA	Drinking Water	505	150189
LCS 380-150189/57-A	Lab Control Sample	Total/NA	Drinking Water	505	150189
LCS 380-150189/59-A	Lab Control Sample	Total/NA	Drinking Water	505	150189
LCS 380-150189/60-A	Lab Control Sample	Total/NA	Drinking Water	505	150189
LCS 380-150189/8-A	Lab Control Sample	Total/NA	Drinking Water	505	150189
LCSD 380-150189/58-A	Lab Control Sample Dup	Total/NA	Drinking Water	505	150189
MRL 380-150189/30-A	Lab Control Sample	Total/NA	Drinking Water	505	150189
MRL 380-150189/31-A	Lab Control Sample	Total/NA	Drinking Water	505	150189

Analysis Batch: 150620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	6251B	

HPLC/IC

Prep Batch: 149797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	Pres Check	
380-147873-1 MS	Explorer Well T22	Total/NA	Drinking Water	Pres Check	
380-147873-1 MSD	Explorer Well T22	Total/NA	Drinking Water	Pres Check	

Prep Batch: 149804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	549.2	
MB 380-149804/1-A	Method Blank	Total/NA	Drinking Water	549.2	
LCS 380-149804/5-A	Lab Control Sample	Total/NA	Drinking Water	549.2	
LCSD 380-149804/6-A	Lab Control Sample Dup	Total/NA	Drinking Water	549.2	
MRL 380-149804/3-A	Lab Control Sample	Total/NA	Drinking Water	549.2	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

HPLC/IC

Analysis Batch: 149844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	300.0	
MB 380-149844/4	Method Blank	Total/NA	Drinking Water	300.0	
LCS 380-149844/7	Lab Control Sample	Total/NA	Drinking Water	300.0	
LCSD 380-149844/8	Lab Control Sample Dup	Total/NA	Drinking Water	300.0	
MRL 380-149844/6	Lab Control Sample	Total/NA	Drinking Water	300.0	

Analysis Batch: 149845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	300.0	
MB 380-149845/4	Method Blank	Total/NA	Drinking Water	300.0	
LCS 380-149845/7	Lab Control Sample	Total/NA	Drinking Water	300.0	
LCSD 380-149845/8	Lab Control Sample Dup	Total/NA	Drinking Water	300.0	
MRL 380-149845/5	Lab Control Sample	Total/NA	Drinking Water	300.0	
MRL 380-149845/6	Lab Control Sample	Total/NA	Drinking Water	300.0	

Filtration Batch: 149876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	Filtration	
MBL 380-149876/3-A	Method Blank	Total/NA	Drinking Water	Filtration	
LCS 380-149876/27-A	Lab Control Sample	Total/NA	Drinking Water	Filtration	
MRL 380-149876/2-A	Lab Control Sample	Total/NA	Drinking Water	Filtration	

Analysis Batch: 149934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	300.0	
MB 380-149934/6	Method Blank	Total/NA	Drinking Water	300.0	
LCS 380-149934/7	Lab Control Sample	Total/NA	Drinking Water	300.0	
LCSD 380-149934/8	Lab Control Sample Dup	Total/NA	Drinking Water	300.0	
MRL 380-149934/5	Lab Control Sample	Total/NA	Drinking Water	300.0	

Analysis Batch: 149945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	317	
MB 380-149945/4	Method Blank	Total/NA	Drinking Water	317	
LCS 380-149945/2	Lab Control Sample	Total/NA	Drinking Water	317	
LCSD 380-149945/3	Lab Control Sample Dup	Total/NA	Drinking Water	317	
MRL 380-149945/5	Lab Control Sample	Total/NA	Drinking Water	317	

Analysis Batch: 150009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	547	149876
MBL 380-149876/3-A	Method Blank	Total/NA	Drinking Water	547	149876
LCS 380-149876/27-A	Lab Control Sample	Total/NA	Drinking Water	547	149876
MRL 380-149876/2-A	Lab Control Sample	Total/NA	Drinking Water	547	149876

Filtration Batch: 150036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	Filtration	
MBL 380-150036/3-A	Method Blank	Total/NA	Drinking Water	Filtration	
LCS 380-150036/14-A	Lab Control Sample	Total/NA	Drinking Water	Filtration	
MRL 380-150036/2-A	Lab Control Sample	Total/NA	Drinking Water	Filtration	

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QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

HPLC/IC

Analysis Batch: 150069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	218.7	149797
MBL 380-150069/6	Method Blank	Total/NA	Drinking Water	218.7	
LCS 380-150069/7	Lab Control Sample	Total/NA	Drinking Water	218.7	
LCSD 380-150069/8	Lab Control Sample Dup	Total/NA	Drinking Water	218.7	
MRL 380-150069/5	Lab Control Sample	Total/NA	Drinking Water	218.7	
380-147873-1 MS	Explorer Well T22	Total/NA	Drinking Water	218.7	149797
380-147873-1 MSD	Explorer Well T22	Total/NA	Drinking Water	218.7	149797

Analysis Batch: 150207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	549.2	149804
MB 380-149804/1-A	Method Blank	Total/NA	Drinking Water	549.2	149804
LCS 380-149804/5-A	Lab Control Sample	Total/NA	Drinking Water	549.2	149804
LCSD 380-149804/6-A	Lab Control Sample Dup	Total/NA	Drinking Water	549.2	149804
MRL 380-149804/3-A	Lab Control Sample	Total/NA	Drinking Water	549.2	149804

Analysis Batch: 150256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	531.2	150036
MBL 380-150036/3-A	Method Blank	Total/NA	Drinking Water	531.2	150036
LCS 380-150036/14-A	Lab Control Sample	Total/NA	Drinking Water	531.2	150036
MRL 380-150036/2-A	Lab Control Sample	Total/NA	Drinking Water	531.2	150036

LCMS

Analysis Batch: 149962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	331.0	
MBL 380-149962/10	Method Blank	Total/NA	Drinking Water	331.0	
LCS 380-149962/11	Lab Control Sample	Total/NA	Drinking Water	331.0	
MRL 380-149962/1008	Lab Control Sample	Total/NA	Drinking Water	331.0	

Prep Batch: 150060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	533	
MBL 380-150060/20-A	Method Blank	Total/NA	Drinking Water	533	
LCS 380-150060/22-A	Lab Control Sample	Total/NA	Drinking Water	533	
MRL 380-150060/21-A	Lab Control Sample	Total/NA	Drinking Water	533	

Prep Batch: 150088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	537.1 DW	
MBL 380-150088/20-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 380-150088/22-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
MRL 380-150088/21-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 150164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	In-House Method	
MB 380-150164/8	Method Blank	Total/NA	Drinking Water	In-House Method	

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QC Association Summary

Client: Geosyntec Consultants Inc
 Project/Site: Title 22

Job ID: 380-147873-1

LCMS (Continued)

Analysis Batch: 150164 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 380-150164/10	Lab Control Sample	Total/NA	Drinking Water	In-House Method	
MRL 380-150164/1007	Lab Control Sample	Total/NA	Drinking Water	In-House Method	

Analysis Batch: 150165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	533	150060
MBL 380-150060/20-A	Method Blank	Total/NA	Drinking Water	533	150060
LCS 380-150060/22-A	Lab Control Sample	Total/NA	Drinking Water	533	150060
MRL 380-150060/21-A	Lab Control Sample	Total/NA	Drinking Water	533	150060

Analysis Batch: 150184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	EPA 537.1 V2	150088
MBL 380-150088/20-A	Method Blank	Total/NA	Drinking Water	EPA 537.1 V2	150088
LCS 380-150088/22-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1 V2	150088
MRL 380-150088/21-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1 V2	150088

Specialty Organics

Prep Batch: 150167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	1613B	
MBL 380-150167/21-A	Method Blank	Total/NA	Drinking Water	1613B	
LCS 380-150167/19-A	Lab Control Sample	Total/NA	Drinking Water	1613B	
LCSD 380-150167/20-A	Lab Control Sample Dup	Total/NA	Drinking Water	1613B	
MRL 380-150167/22-A	Lab Control Sample	Total/NA	Drinking Water	1613B	

Analysis Batch: 150203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	1613B	150167
MBL 380-150167/21-A	Method Blank	Total/NA	Drinking Water	1613B	150167
LCS 380-150167/19-A	Lab Control Sample	Total/NA	Drinking Water	1613B	150167
LCSD 380-150167/20-A	Lab Control Sample Dup	Total/NA	Drinking Water	1613B	150167
MRL 380-150167/22-A	Lab Control Sample	Total/NA	Drinking Water	1613B	150167

Metals

Analysis Batch: 150070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	200.7	
MBL 380-150070/47	Method Blank	Total/NA	Drinking Water	200.7	
LCS 380-150070/50	Lab Control Sample	Total/NA	Drinking Water	200.7	
LCSD 380-150070/51	Lab Control Sample Dup	Total/NA	Drinking Water	200.7	
LLCS 380-150070/48	Lab Control Sample	Total/NA	Drinking Water	200.7	
LLCS 380-150070/49	Lab Control Sample	Total/NA	Drinking Water	200.7	

Analysis Batch: 150095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	200.8	
MBL 380-150095/80	Method Blank	Total/NA	Drinking Water	200.8	

Eurofins Eaton Analytical Pomona

QC Association Summary

Client: Geosyntec Consultants Inc
 Project/Site: Title 22

Job ID: 380-147873-1

Metals (Continued)

Analysis Batch: 150095 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 380-150095/82	Lab Control Sample	Total/NA	Drinking Water	200.8	
LCSD 380-150095/83	Lab Control Sample Dup	Total/NA	Drinking Water	200.8	
LLCS 380-150095/81	Lab Control Sample	Total/NA	Drinking Water	200.8	

Analysis Batch: 150096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	200.8	
MBL 380-150096/116	Method Blank	Total/NA	Drinking Water	200.8	
MBL 380-150096/80	Method Blank	Total/NA	Drinking Water	200.8	
LCS 380-150096/118	Lab Control Sample	Total/NA	Drinking Water	200.8	
LCS 380-150096/82	Lab Control Sample	Total/NA	Drinking Water	200.8	
LCSD 380-150096/119	Lab Control Sample Dup	Total/NA	Drinking Water	200.8	
LCSD 380-150096/83	Lab Control Sample Dup	Total/NA	Drinking Water	200.8	
LLCS 380-150096/117	Lab Control Sample	Total/NA	Drinking Water	200.8	
LLCS 380-150096/81	Lab Control Sample	Total/NA	Drinking Water	200.8	

Analysis Batch: 150315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	200.8	
MBL 380-150315/30	Method Blank	Total/NA	Drinking Water	200.8	
LCS 380-150315/32	Lab Control Sample	Total/NA	Drinking Water	200.8	
LCSD 380-150315/33	Lab Control Sample Dup	Total/NA	Drinking Water	200.8	
LLCS 380-150315/31	Lab Control Sample	Total/NA	Drinking Water	200.8	

Analysis Batch: 150316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MBL 380-150316/30	Method Blank	Total/NA	Drinking Water	200.8	
LCS 380-150316/32	Lab Control Sample	Total/NA	Drinking Water	200.8	
LCSD 380-150316/33	Lab Control Sample Dup	Total/NA	Drinking Water	200.8	
LLCS 380-150316/31	Lab Control Sample	Total/NA	Drinking Water	200.8	

General Chemistry

Analysis Batch: 149813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 5540C	
MB 380-149813/2	Method Blank	Total/NA	Drinking Water	SM 5540C	
LCS 380-149813/4	Lab Control Sample	Total/NA	Drinking Water	SM 5540C	
LCSD 380-149813/5	Lab Control Sample Dup	Total/NA	Drinking Water	SM 5540C	
MRL 380-149813/3	Lab Control Sample	Total/NA	Drinking Water	SM 5540C	

Analysis Batch: 149819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 2120B	
MB 380-149819/1	Method Blank	Total/NA	Drinking Water	SM 2120B	

Analysis Batch: 149837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 2150B	
MB 380-149837/1	Method Blank	Total/NA	Drinking Water	SM 2150B	

QC Association Summary

Client: Geosyntec Consultants Inc
 Project/Site: Title 22

Job ID: 380-147873-1

General Chemistry

Analysis Batch: 149857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 2540C	
MB 380-149857/1	Method Blank	Total/NA	Drinking Water	SM 2540C	
HLCS 380-149857/5	Lab Control Sample	Total/NA	Drinking Water	SM 2540C	
LCS 380-149857/4	Lab Control Sample	Total/NA	Drinking Water	SM 2540C	
MRL 380-149857/2	Lab Control Sample	Total/NA	Drinking Water	SM 2540C	
MRL 380-149857/3	Lab Control Sample	Total/NA	Drinking Water	SM 2540C	
380-147873-1 DU	Explorer Well T22	Total/NA	Drinking Water	SM 2540C	

Analysis Batch: 149896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	180.1	
MB 380-149896/1	Method Blank	Total/NA	Drinking Water	180.1	
LCS 380-149896/2	Lab Control Sample	Total/NA	Drinking Water	180.1	
LCSD 380-149896/29	Lab Control Sample Dup	Total/NA	Drinking Water	180.1	
MRL 380-149896/4	Lab Control Sample	Total/NA	Drinking Water	180.1	

Analysis Batch: 150080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 2330B	

Analysis Batch: 150180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 4500 F C	
MB 380-150180/6	Method Blank	Total/NA	Drinking Water	SM 4500 F C	
LCS 380-150180/8	Lab Control Sample	Total/NA	Drinking Water	SM 4500 F C	
LCSD 380-150180/9	Lab Control Sample Dup	Total/NA	Drinking Water	SM 4500 F C	
MRL 380-150180/7	Lab Control Sample	Total/NA	Drinking Water	SM 4500 F C	

Analysis Batch: 150190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 2320B	
MB 380-150190/1	Method Blank	Total/NA	Drinking Water	SM 2320B	
LCS 380-150190/4	Lab Control Sample	Total/NA	Drinking Water	SM 2320B	
LCSD 380-150190/19	Lab Control Sample Dup	Total/NA	Drinking Water	SM 2320B	
LLCS 380-150190/5	Lab Control Sample	Total/NA	Drinking Water	SM 2320B	
MRL 380-150190/3	Lab Control Sample	Total/NA	Drinking Water	SM 2320B	

Analysis Batch: 150193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 2510B	
MB 380-150193/3	Method Blank	Total/NA	Drinking Water	SM 2510B	
LCS 380-150193/5	Lab Control Sample	Total/NA	Drinking Water	SM 2510B	
LCSD 380-150193/17	Lab Control Sample Dup	Total/NA	Drinking Water	SM 2510B	
MRL 380-150193/4	Lab Control Sample	Total/NA	Drinking Water	SM 2510B	

Analysis Batch: 150194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 4500 H+ B	
MB 380-150194/5	Method Blank	Total/NA	Drinking Water	SM 4500 H+ B	
LCS 380-150194/6	Lab Control Sample	Total/NA	Drinking Water	SM 4500 H+ B	
LCSD 380-150194/18	Lab Control Sample Dup	Total/NA	Drinking Water	SM 4500 H+ B	

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QC Association Summary

Client: Geosyntec Consultants Inc
 Project/Site: Title 22

Job ID: 380-147873-1

General Chemistry

Prep Batch: 150219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	Distill/CN	
MB 380-150219/1-A	Method Blank	Total/NA	Drinking Water	Distill/CN	
LCS 380-150219/4-A	Lab Control Sample	Total/NA	Drinking Water	Distill/CN	
LCSD 380-150219/5-A	Lab Control Sample Dup	Total/NA	Drinking Water	Distill/CN	
LLCS 380-150219/3-A	Lab Control Sample	Total/NA	Drinking Water	Distill/CN	
MRL 380-150219/2-A	Lab Control Sample	Total/NA	Drinking Water	Distill/CN	

Analysis Batch: 150265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	335.4	150219
MB 380-150219/1-A	Method Blank	Total/NA	Drinking Water	335.4	150219
LCS 380-150219/4-A	Lab Control Sample	Total/NA	Drinking Water	335.4	150219
LCSD 380-150219/5-A	Lab Control Sample Dup	Total/NA	Drinking Water	335.4	150219
LLCS 380-150219/3-A	Lab Control Sample	Total/NA	Drinking Water	335.4	150219
MRL 380-150219/2-A	Lab Control Sample	Total/NA	Drinking Water	335.4	150219

Analysis Batch: 150725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	SM 4500 CI G	
MB 380-150725/8	Method Blank	Total/NA	Drinking Water	SM 4500 CI G	
LCS 380-150725/10	Lab Control Sample	Total/NA	Drinking Water	SM 4500 CI G	
LCSD 380-150725/11	Lab Control Sample Dup	Total/NA	Drinking Water	SM 4500 CI G	
MRL 380-150725/9	Lab Control Sample	Total/NA	Drinking Water	SM 4500 CI G	
380-147873-1 DU	Explorer Well T22	Total/NA	Drinking Water	SM 4500 CI G	

Analysis Batch: 150726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	4500 ClO2 D	
MB 380-150726/8	Method Blank	Total/NA	Drinking Water	4500 ClO2 D	
LCS 380-150726/10	Lab Control Sample	Total/NA	Drinking Water	4500 ClO2 D	
LCSD 380-150726/11	Lab Control Sample Dup	Total/NA	Drinking Water	4500 ClO2 D	
MRL 380-150726/9	Lab Control Sample	Total/NA	Drinking Water	4500 ClO2 D	
380-147873-1 DU	Explorer Well T22	Total/NA	Drinking Water	4500 ClO2 D	

Rad

Prep Batch: 142960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	RAD Prep	
MB 810-142960/1-A	Method Blank	Total/NA	Drinking Water	RAD Prep	
LCS 810-142960/2-A	Lab Control Sample	Total/NA	Drinking Water	RAD Prep	

Prep Batch: 143983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	RAD Prep	
MB 810-143983/1-A	Method Blank	Total/NA	Drinking Water	RAD Prep	
LCS 810-143983/2-A	Lab Control Sample	Total/NA	Drinking Water	RAD Prep	

Prep Batch: 143985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	RAD Prep	

QC Association Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Rad (Continued)

Prep Batch: 143985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 810-143985/1-A	Method Blank	Total/NA	Drinking Water	RAD Prep	
LCS 810-143985/2-A	Lab Control Sample	Total/NA	Drinking Water	RAD Prep	
380-147873-1 MS	Explorer Well T22	Total/NA	Drinking Water	RAD Prep	
380-147873-1 MSD	Explorer Well T22	Total/NA	Drinking Water	RAD Prep	

Prep Batch: 716134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	LSC_Dist_Susp	
MB 160-716134/2-A	Method Blank	Total/NA	Drinking Water	LSC_Dist_Susp	
LCS 160-716134/3-A	Lab Control Sample	Total/NA	Drinking Water	LSC_Dist_Susp	

Prep Batch: 716561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	PrecSep-7	
MB 160-716561/1-A	Method Blank	Total/NA	Drinking Water	PrecSep-7	
LCS 160-716561/2-A	Lab Control Sample	Total/NA	Drinking Water	PrecSep-7	
LCSD 160-716561/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	PrecSep-7	

Biology

Analysis Batch: 149925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	9223B	

Analysis Batch: 150113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-147873-1	Explorer Well T22	Total/NA	Drinking Water	9215B	
POS 380-150113/13	Positive Control	Total/NA	Drinking Water	9215B	
POS 380-150113/14	Positive Control	Total/NA	Drinking Water	9215B	

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	149908	Q6AD	EA POM	04/29/25 23:34
Total/NA	Analysis	524.2		1	150158	KP	EA POM	05/06/25 17:04
Total/NA	Analysis	524.2		1	150850	Q6AD	EA POM	05/06/25 17:04
Total/NA	Analysis	524.2		1	150850	Q6AD	EA POM	05/06/25 17:26
Total/NA	Analysis	SRL 524M		1	149765	Q6AD	EA POM	04/29/25 16:19
Total/NA	Prep	525.2			149836	IQ42	EA POM	04/29/25 12:43
Total/NA	Analysis	525.2		1	149983	Q8LA	EA POM	04/30/25 18:25
Total/NA	Prep	548.1			150027	P3YA	EA POM	04/30/25 11:47
Total/NA	Analysis	548.1		1	150382	X8AA	EA POM	05/02/25 12:52
Total/NA	Prep	504.1			150006	LZ8Q	EA POM	04/30/25 11:45 - 04/30/25 12:30 ¹
Total/NA	Analysis	504.1		1	150259	LZ8Q	EA POM	04/30/25 17:14
Total/NA	Prep	505			150189	DR5R	EA POM	05/01/25 12:04 - 05/01/25 13:54 ¹
Total/NA	Analysis	505		1	150381	DR5R	EA POM	05/02/25 04:32
Total/NA	Prep	515.4			149784	K9GY	EA POM	04/30/25 09:42
Total/NA	Analysis	515.4		1	150179	K9GY	EA POM	05/01/25 05:12
Total/NA	Prep	6251B			150039	QBD3	EA POM	05/01/25 08:36
Total/NA	Analysis	6251B		1	150255	QBD3	EA POM	05/01/25 17:00
Total/NA	Analysis	6251B		1	150620	DB	EA POM	05/01/25 17:00
Total/NA	Prep	Pres Check			149797	EUA7	EA POM	04/29/25 11:09
Total/NA	Analysis	218.7		1	150069	EUA7	EA POM	04/30/25 13:04
Total/NA	Analysis	300.0		1	149844	DXD4	EA POM	04/29/25 14:02
Total/NA	Analysis	300.0		1	149845	DXD4	EA POM	04/29/25 14:02
Total/NA	Analysis	300.0		1	149934	UNJR	EA POM	04/30/25 08:43
Total/NA	Analysis	317		1	149945	XLG4	EA POM	04/30/25 07:49
Total/NA	Filtration	Filtration			150036	Q6XM	EA POM	04/30/25 12:03
Total/NA	Analysis	531.2		1	150256	Q6XM	EA POM	04/30/25 18:41
Total/NA	Filtration	Filtration			149876	UD4M	EA POM	04/29/25 13:01
Total/NA	Analysis	547		1	150009	UD4M	EA POM	04/29/25 18:41
Total/NA	Prep	549.2			149804	X5FS	EA POM	04/29/25 14:38
Total/NA	Analysis	549.2		1	150207	UD4M	EA POM	04/30/25 23:09
Total/NA	Analysis	331.0		1	149962	UKDT	EA POM	04/30/25 06:45
Total/NA	Prep	533			150060	N8NE	EA POM	04/30/25 16:07
Total/NA	Analysis	533		1	150165	SZ9R	EA POM	05/01/25 07:36
Total/NA	Prep	537.1 DW			150088	E2HD	EA POM	04/30/25 16:45
Total/NA	Analysis	EPA 537.1 V2		1	150184	M7ML	EA POM	05/01/25 11:05
Total/NA	Analysis	In-House Method		1	150164	UKDT	EA POM	05/01/25 10:11
Total/NA	Prep	1613B			150167	U7RS	EA POM	05/01/25 09:09
Total/NA	Analysis	1613B		1	150203	X8AA	EA POM	05/02/25 15:42
Total/NA	Analysis	200.7		1	150070	MF7S	EA POM	04/30/25 12:51
Total/NA	Analysis	200.8		1	150095	VB9B	EA POM	04/30/25 14:52
Total/NA	Analysis	200.8		1	150096	VB9B	EA POM	04/30/25 14:52
Total/NA	Analysis	200.8		1	150315	T8BB	EA POM	05/01/25 12:46

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Client Sample ID: Explorer Well T22

Lab Sample ID: 380-147873-1

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	180.1		1	149896	MQP5	EA POM	04/29/25 12:58
Total/NA	Prep	Distill/CN			150219	MH2L	EA POM	05/01/25 10:08
Total/NA	Analysis	335.4		1	150265	MH2L	EA POM	05/01/25 13:34
Total/NA	Analysis	4500 ClO2 D		1	150726	V7DE	EA POM	05/05/25 14:39
Total/NA	Analysis	SM 2120B		1	149819	DN4H	EA POM	04/29/25 11:28
Total/NA	Analysis	SM 2150B		1	149837	QDP7	EA POM	04/29/25 12:41
Total/NA	Analysis	SM 2320B		1	150190	PK4Q	EA POM	04/30/25 16:39
Total/NA	Analysis	SM 2330B		1	150080	UWAH	EA POM	04/30/25 14:54
Total/NA	Analysis	SM 2510B		1	150193	PK4Q	EA POM	04/30/25 16:39
Total/NA	Analysis	SM 2540C		1	149857	UJRF	EA POM	04/29/25 13:53
Total/NA	Analysis	SM 4500 Cl G		1	150725	V7DE	EA POM	05/05/25 14:39
Total/NA	Analysis	SM 4500 F C		1	150180	PK4Q	EA POM	04/30/25 18:45
Total/NA	Analysis	SM 4500 H+ B		1	150194	PK4Q	EA POM	04/30/25 16:39
Total/NA	Analysis	SM 5540C		1	149813	ZJ2C	EA POM	04/29/25 14:59
Total/NA	Prep	RAD Prep			142960	SB	EA SB	05/07/25 12:19
Total/NA	Analysis	7110B		1	143824	SB	EA SB	05/13/25 10:02 - 05/13/25 14:02 ¹
Total/NA	Analysis	7500 Ra D		1	145767	SB	EA SB	06/02/25 10:12
Total/NA	Prep	PrecSep-7			716561	OGC	EET SL	05/08/25 09:24
Total/NA	Analysis	905		1	718065	SWS	EET SL	05/19/25 14:28
Total/NA	Prep	LSC_Dist_Susp			716134	SEH	EET SL	05/05/25 13:53
Total/NA	Analysis	906.0		1	716386	REV	EET SL	05/07/25 03:34
Total/NA	Prep	RAD Prep			143985	SB	EA SB	05/14/25 10:18
Total/NA	Analysis	SM7500 Ra B		1	146580	SM	EA SB	06/02/25 10:12 - 06/02/25 10:42 ¹
Total/NA	Prep	RAD Prep			143983	SB	EA SB	05/14/25 10:10
Total/NA	Analysis	SM7500 Ra D		1	146228	OO	EA SB	05/29/25 11:34 - 05/29/25 14:34 ¹
Total/NA	Analysis	9215B		1	150113	ZE3N	EA POM	04/29/25 11:24 - 05/01/25 11:29 ¹
Total/NA	Analysis	9223B		1	149925	ZE3N	EA POM	04/29/25 13:42 - 04/30/25 11:13 ¹

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-147873-3

Date Collected: 04/29/25 03:25

Matrix: Drinking Water

Date Received: 04/29/25 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SRL 524M		1	149765	Q6AD	EA POM	04/29/25 16:41

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

Laboratory References:

E CEI = E CEI, 730 SE Maynard Road, Cary, NC 27511

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
California	State	2813	06-18-25
<p>The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.</p>			
Analysis Method	Prep Method	Matrix	Analyte
505	505	Drinking Water	Polychlorinated biphenyls, Total
524.2		Drinking Water	1,2-Dichloroethene, Total
524.2		Drinking Water	1,3-Dichloropropene, Total
524.2		Drinking Water	Trihalomethanes, Total
524.2		Drinking Water	Xylenes, Total
6251B		Drinking Water	Total Haloacetic Acids 5
In-House Method		Drinking Water	Acrylamide
SM 2120B		Drinking Water	Color, Apparent
SM 2150B		Drinking Water	Odor
SM 2330B		Drinking Water	Langelier Index

Laboratory: Eurofins Eaton Analytical South Bend

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	ISO/IEC 17025	5794.01	07-31-26
Alabama	State	40700	06-30-25
Alaska	State	IN00035	06-30-25
Arizona	State	AZ0432	07-26-25
Arkansas (DW)	State	EPA IN00035	06-30-25
California	State	2920	06-30-25
Colorado	State	IN00035	02-28-26
Connecticut	State	PH-0132	03-31-26
Delaware (DW)	State	IN00035	06-30-25
Florida	NELAP	E87775	06-30-25
Georgia (DW)	State	929	06-30-25
Guam	State	24-012R	07-15-25
Hawaii	State	IN035	06-30-25
Idaho (DW)	State	IN00035	12-31-25
IL Dept. of Public Health (Micro)	State	17767	06-30-25
Illinois	NELAP	200001	09-30-25
Indiana	State	C-71-01	12-31-25
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	098	11-01-25
Kansas	NELAP	E-10233	10-31-25
Kentucky (DW)	State	KY90056	12-31-25
Louisiana (DW)	State	LA014	12-31-25
Maine	State	IN00035	05-01-27
Maryland	State	209	06-30-26
Massachusetts	State	M-IN035	06-30-26
MI - RadChem Recognition	State	9926	06-01-25 *
Michigan	State	9926	12-31-25
Minnesota	NELAP	018-999-338	12-31-25
Mississippi	State	IN00035	06-30-25
Missouri	State	880	09-30-27
Montana (DW)	State	CERT0026	01-01-26

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Laboratory: Eurofins Eaton Analytical South Bend (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
Nebraska	State	NE-OS-05-04	06-30-25
Nevada	State	NV-C24-00276	07-31-25
New Hampshire	NELAP	2124	11-05-25
New Jersey	NELAP	IN598	06-30-25
New Mexico	State	IN00035	06-30-25
New York	NELAP	11398	04-01-26
North Carolina (DW)	State	18700	07-31-25
North Dakota	State	R-035	06-30-24 *
Northern Mariana Islands (DW)	State	IN00035	06-30-25
Ohio	State	87775	06-30-25
Oklahoma	NELAP	D9508	08-31-25
Oregon	NELAP	4156	09-16-25
Pennsylvania	NELAP	68-00466	04-30-26
Puerto Rico	State	IN00035	04-01-26
Rhode Island	State	LAO00343	12-30-25
South Carolina	State	95005001	06-30-25
South Dakota (DW)	State	IN00035	06-30-25
Tennessee	State	TN02973	06-30-25
Texas	NELAP	T104704187	12-31-25
Texas	TCEQ Water Supply	TX207	06-30-25
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-25
Vermont	State	VT-8775	12-28-25
Virginia	NELAP	460275	03-14-26
Washington	State	C837	01-01-26
West Virginia (DW)	State	9927 C	01-31-26
Wisconsin	State	999766900	08-31-25
Wisconsin (Micro)	State	10121	12-31-25
Wyoming	State	8TMS-L	06-30-25

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-27
ANAB	Dept. of Energy	L2305.01	04-06-27
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-25
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
 Project/Site: Title 22

Job ID: 380-147873-1

Laboratory: Eurofins St. Louis (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
Louisiana (All)	NELAP	106151	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-01-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method	Method Description	Protocol	Laboratory
524.2	Total Trihalomethanes	EPA-DW	EA POM
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA POM
SRL 524M	Volatile Organic Compounds (GC/MS)	CADHS	EA POM
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
548.1	Endothall (GC/MS)	EPA	EA POM
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW2	EA POM
505	Organochlorine Pesticides/PCBs (GC)	EPA	EA POM
515.4	Herbicides (GC)	EPA-DW	EA POM
6251B	Haloacetic Acids (HAAs) (GC)	SM	EA POM
6251B	Total Haloacetic Acids (GC)	SM	EA POM
218.7	Chromium, Hexavalent (Ion Chromatography)	EPA	EA POM
300.0	Anions, Ion Chromatography	EPA	EA POM
317	Bromate, Ion Chromatography	EPA	EA POM
531.2	Carbamate Pesticides (HPLC)	EPA	EA POM
547	Glyphosate (DAI HPLC)	EPA	EA POM
549.2	Diquat and Paraquat (HPLC)	EPA	EA POM
331.0	Perchlorate (LC/MS/MS)	EPA	EA POM
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
EPA 537.1 V2	EPA 537.1 Ver. 2.0 March 2020	EPA	EA POM
In-House Method	Acrylamide (LC/MS/MS)	Lab SOP	EA POM
1613B	Tetra Chlorinated Dioxin (GC/MS/MS)	EPA	EA POM
200.7	Metals (ICP)	EPA	EA POM
200.8	Mercury (ICP/MS)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
180.1	Turbidity, Nephelometric	EPA	EA POM
335.4	Cyanide, Total	EPA	EA POM
4500 ClO2 D	Chlorine Dioxide	SM	EA POM
SM 2120B	Color, Colorimetric	SM	EA POM
SM 2150B	Odor	SM	EA POM
SM 2320B	Alkalinity	SM	EA POM
SM 2330B	Corrosivity, LSI Calculation	SM	EA POM
SM 2510B	Conductivity, Specific Conductance	SM	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
SM 4500 Cl G	Chlorine, Residual	SM	EA POM
SM 4500 F C	Fluoride	SM	EA POM
SM 4500 H+ B	pH	SM	EA POM
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EA POM
7110B	Gross Alpha and Gross Beta Radioactivity	SM	EA SB
7500 Ra D	Radium 226 Radium 228 Combined	SM	EA SB
905	Strontium-90 (GFPC)	EPA	EET SL
906.0	Tritium, Total (LSC)	EPA	EET SL
SM7500 Ra B	Radium-226	SM	EA SB
SM7500 Ra D	Radium-228	SM	EA SB
9215B	Heterotrophic Plate Count	SM	EA POM
9223B	Coliforms, Total, and E.Coll (Colilert - Quanti Tray)	SM	EA POM
100.2	EPA 100.2 Asbestos in Drinking Water	EPA	E CEI
1613B	Solid-Phase Extraction (SPE)	EPA	EA POM
504.1	Microextraction	EPA-DW	EA POM
505	Extraction, Organohalide Pesticides	EPA	EA POM
515.4	Extraction of Chlorinated Acids	EPA-DW	EA POM
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA POM
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA POM

Eurofins Eaton Analytical Pomona

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

Method	Method Description	Protocol	Laboratory
548.1	Extraction of Endothall	EPA-DW	EA POM
549.2	Extraction of Diquat and Paraquat	EPA	EA POM
6251B	Microextraction	SM	EA POM
Distill/CN	Distillation, Cyanide	None	EA POM
Filtration	Sample Filtration	None	EA POM
LSC_Dist_Susp	Distillation and Suspension (LSC)	None	EET SL
None	Autocomplete Prep - Metals - No Digestion required	None	EA POM
PrecSep-7	Preparation, Precipitate Separation (7-Day In-Growth)	None	EET SL
Pres Check	IC Preservation check	None	EA POM
RAD Prep	Preparation, Radiologicals	None	EA SB

Protocol References:

CADHS = California Department of Health Services

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

EPA-DW2 = "Methods For The Determination of Organic Compounds in Drinking Water - Supplement III ", EPA/600/R-95-131, August 1995

Lab SOP = Laboratory Standard Operating Procedure

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

E CEI = E CEI, 730 SE Maynard Road, Cary, NC 27511

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Title 22

Job ID: 380-147873-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
380-147873-1	Explorer Well T22	Drinking Water	04/29/25 03:25	04/29/25 07:00
380-147873-3	TRIP BLANK	Drinking Water	04/29/25 03:25	04/29/25 07:00

May 08, 2025

Monica Van Natta
Eurofins Eaton Analytical, LLC - Pomona
941 Corporate Center Drive
Pomona, CA 91768

CLIENT PROJECT: Title 22, 38009249, 380-147873-1
LAB CODE: 655175-1

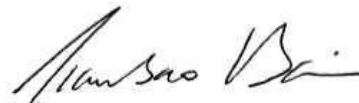
Dear Monica,

Enclosed are asbestos analysis results for TEM water samples received at our laboratory on May 1, 2025. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per the US EPA 100.2 Method.

The current EPA regulatory limit for asbestos in water is 7 million fibers per liter (MFL, > 10 µm in length). The analytical sensitivity for the EPA 100.2 method is 0.2 MFL.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Eurofins Eaton Analytical, LLC - Pomona

CLIENT PROJECT: Title 22, 38009249, 380-147873-1

LAB CODE: 655175-1

TEST METHOD: EPA 100.2

REPORT DATE: 05/08/25



Built Environment Testing

ASBESTOS IN WATER ANALYSIS

By: Transmission Electron Microscopy

Client: Eurofins Eaton Analytical, LLC - Pomona
941 Corporate Center Drive
Pomona, CA 91768

Lab Code: 655175-1
Date Received: 05/01/25
Date Analyzed: 05/08/25
Date Reported: 05/08/25

Project: Title 22, 38009249, 380-147873-1

Method: TEM EPA 100.2 (DRINKING WATER)

Client ID	Date Collected	Date Filtered	Sample Volume Filtered	Dilution Factor	Effective Filter Area (mm ²)	# of Grids Analyzed	Total Area Of Filter Examined	Analytical Sensitivity (MFL)	Asbestos Type	Concentration (MFL)	Confidence Limit Lower	Confidence Limit Upper
Lab ID	04/29/25	05/02/25	100	1	1060	6	0.06	0.177	None	<0.177	0	<0.65
Explorer Well	03:25	17:27							Detected			
T22												
(380-147873-1)												
3349110												

Sample ozonated prior to analysis due to lab receipt time exceeding 48hr method hold time.

LEGEND: MFL = million fibers per liter, > 10 µm in length

METHOD: EPA 100.2

AVERAGE GRID OPENING SIZE: 0.010 mm²

ANALYTICAL SENSITIVITY: 0.2 MFL

MAXIMUM CONTAMINANT LEVEL: 7 MFL

Eurofins Built Environment Testing East, LLC makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins Built Environment Testing East, LLC. Estimated measurement of uncertainty is available on request. Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

Sample bottle was not provided by Eurofins Built Environment Testing East, LLC.

For the current states of certification please refer to the website: www.eurofinsus.com/environment-testing/built-environment/locations/eurofins-cei/



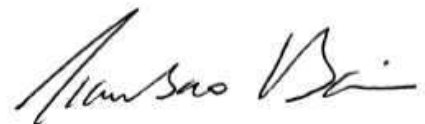
Partima Poudel Acharya
Analyst



DATA QA:

Kamila Reichert
5/8/2025

APPROVED BY:

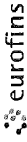


Tianbao Bai, Ph.D., CIH
Laboratory Director

Lab Name	Eurofins Built Environment Testing East, LLC	Client	Eurofins Eaton Analytical, LLC - Pomona	Analyzed By	PPA
Primary Scope	JEM-1200EX	Sample Type	Water	Analysis Date	05/08/2025
Voltage	100KV	Vol/Area		Prep Method	Indirect
Magnification	20000	Lab Code	655175-1	Date Received	05/01/2025
Primary Filter Area (mm²)		Sec. Filter Area (mm²)	1060	Grid Opening Area (mm²)	0.01
Sample ID	Explorer Well T22 (380-147873-1)	Method	EPA 100.2	Scope Align	05/08/2025
Suspension		Aliquot	100	Grid Openings	6

Grid	GO	Type	Count	Total	Length	Width	ID	Mineral Class	Comments	Photo	EDS
2H20484	C4	F4-6	ND								
2H20484	E4-1	ND									
2H20484	C3	F3-3	ND								
2H20484	K4-3	ND									
2H20484	C5	G4-2	ND								
2H20484	E5-1	ND									

Chain of Custody Record



Client Information
 Client Contact: **Janet Arroyo**
 Elizabeth Viramontes / Tara Rolfe
 Company: **Geosyntec Consultants Inc**
 Address: 440 E Huntington Drive Suite 425
 City: Arcadia
 State Zip: CA 91006
 Phone: 626-788-4638 (Tara Rolfe)
 Email: Elizabeth.Viramontes@Geosyntec.com / TRolfe@Geosyntec.com
 Project Name: Title 22
 Site: Explorer Well

Lab P.M.: Van Matta Monica
E-Mail: Monica.VanNatta@eurofins.com
Carrier Tracking No(s):
State of Origin: California
Page 1 of 3
Job #:

COC No: 380-86423-25746 1
380-147873 COC

Sample Identification	Sample Date	Sample Time (C=Comp, G=grab)	Sample Preservation Code	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested										Special Instructions/Note				
							R	L	L	N	G	N	D	GE	N	HB		N			
Explorer Well T22	4/29/2025		G	Drinking Water	No	No	9215B_BH 9223B_C1Q18_DW	300_OF_14D_B Chlorite	317 Bromate	4500_CL_G_4500_C1Q2_D_LCMS_Acrylamide	SM6251B Halocetic Acids 5	SM6251B THA_SUM Total Halocetic Acids 5	160.1 2120B_SM2150_Odor_B	200.7_SDWA 200.8_Hg 200.8_SDWA	218.7 Local Method	300_OF_28D_PREC 300_OF_48H_PREC_4500_F_C	331.0_PREC_CA Perchlorate	335.4 Cyanide Total	2220B_2510B_SM4500_H+	Total Number of containers	55
FIELD REAGENT BLANK	4/29/2025			Drinking Water	No	No															4
TRIP BLANK	4/29/2025			Drinking Water	No	No															2

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I II III IV Other (specify)

Empty Kit Relinquished by: _____ Date: _____
Relinquished by: Janet Arroyo Date/Time: 4/24/2025 / 0600
Relinquished by: Eva Villacres Date/Time: 4/29/2025 / 0600
Relinquished by: _____ Date/Time: _____

Custody Seals Intact: Yes No **Custody Seal No:** _____

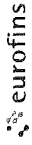
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements

Method of Shipment: L70
Date/Time: 4/29/25 7:00
Company: BSA
Date/Time: _____
Company: _____
Date/Time: _____
Company: _____

Relinquished by: _____
Relinquished by: _____
Relinquished by: _____

Cooler Temperature(s) °C and Other Remarks:
 0.3DA (-17.20 = 1.1 ICE)
 2.9 + 6.0 = 2.9 ICE

Chain of Custody Record



Client Information		Sampler: Janet Arroyo		Lab PM: Van Natta Monica		Carrier Tracking No(s): 380-86423-25746 3	
Client Contact: Elizette Viramontes / Tara Rolfe		Phone: 626-788-4638 (Tara Rolfe)		E-Mail: Monica.VanNatta@et.eurofins.com		Page: Page 3 of 3	
Company: Geosyntec Consultants Inc		Address: 440 E Huntington Drive Suite 425		City: Arcadia		State of Origin: California	
Address: 440 E Huntington Drive Suite 425		City: Arcadia		State of Origin: California		Job #:	
State Zip: CA, 91006		Phone: 626-788-4638 (Tara Rolfe)		PO #: Purchase Order not required		Preservation Codes: I NH4 Acetate Y Trizma D HNO3 N None R NATHISO4	
Email: Elizette.Viramontes@Geosyntec.com / TRolfe@Geosyntec.com		Project #: WO-HPA110005-8225		Title 22: 38009249		Other:	
Site: Explorer Well		SSOW#:		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Total Number of Containers: 55	
Due Date Requested		TAT Requested (days)		Field Filtered Sample (Yes or No)		Special Instructions/Note	
Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		504.1_PREC EDB and DBCP	
4/29/2025		4/29/2025		G		537.1_DW_PREC 537.1 Full List FRB	
Explorer Well T22		FIELD REAGENT BLANK		Drinking Water		53 PFAS by 533 FRB	
4/29/2025		4/29/2025		No		906.0 Local Method	
TRIP BLANK		TRIP BLANK		No		SM7500_Ra_D SUM Radium-226 and 228 Combined	
				No		SM7500_Ra_B SM7500_Ra_D	
				No		SM7108 Gross Alpha and Beta	
				No		905_Sr90 Strontium-90	
				No		537.1_DW_PREC 537.1 Full List	
				No		53 PFAS by 533	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
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				No		504.1_PREC EDB and DBCP	
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				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
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				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		53 PFAS by 533 FRB	
				No		537.1_DW_PREC 537.1 Full List FRB	
				No		504.1_PREC EDB and DBCP	
				No		537.	

Bottle Order Information

Bottle Order: Title 22
 Bottle Order # 25746
 Request From Client: 4/23/2025
 Date Order Posted: 4/23/2025 7:43:07PM
 Order Status: Shipped
 Prepared By: Monica Van Natta
 Deliver By Date: 4/28/2025 11:59:00PM
 Lab Project Number: 38009249
 PWSID

Order Completion Information

Creator: Monica Van Natta
 Filled by: Process Server (DO NOT DELETE)
 Sent Date 4/24/2025 12:00 00AM
 Sent Via: FedEx Priority Overnight
 Tracking #: 444120435250, 444120435261

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
1	2	2	Sterile w/tno 100 mL	Sodium Thiosulfate	9215B_8H - Heterotrophic Plate Count	Drinking W	Normal	✓	
1	1	1	Plastic 125mL - ethylene diamine	Ethylene Diamine	9223B_CIQ18_DW - Total Coliform and E Coli (MPN)	Drinking W	Normal	✓	
1	1	1	Plastic 125mL - ethylene diamine	Ethylene Diamine	300_OF_14D_B - Chlorite	Drinking W	Normal	✓	
1	2	2	Amber Glass 125mL - unpreserved	None	317 - Bromate	Drinking W	Normal	✓	
1	3	3	Voa Vial 40ml Amber - Ammonium Chloride	Ammonium Chloride	4500_CL_G - (MOD) Chloramines	Drinking W	Normal	✓	
1	0	0	No Container	None	4500_CIO2_D - Chlorine Dioxide, Residual	Drinking W	Normal	✓	
1	1	1	Amber Glass 1 liter - unpreserved	None	LCMS_Acrylamide - Acrylamide	Drinking W	Normal	✓	
1	1	1	Amber Glass 500ml - with Nitric Acid	Nitric Acid	SM6251B - Haloacetic Acids 5	Drinking W	Normal	✓	
1	1	1	Plastic 125 mL - Ammon. SO4/Ammon. OH-S	Ammonium Sulfate/ammonium hydroxide	SM6251B_THA_SUM - Total Haloacetic Acids 5	Drinking W	Normal	✓	
1	1	1	Plastic 500ml - with Nitric Acid	Nitric Acid	180.1 - Turbidity	Drinking W	Normal	✓	
1	1	1	Plastic 125 mL - Ammon. SO4/Ammon. OH-S	Ammonium Sulfate/ammonium hydroxide	2120B - Color, Apparent	Drinking W	Normal	✓	
1	1	1	Plastic 125 mL - Ammon. SO4/Ammon. OH-S	Ammonium Sulfate/ammonium hydroxide	SM2150_Odor_B - Odor	Drinking W	Normal	✓	
1	1	1	Plastic 125 mL - Ammon. SO4/Ammon. OH-S	Ammonium Sulfate/ammonium hydroxide	200.7_SDWA - (MOD) 200.7 Secondary DW Metals	Drinking W	Normal	✓	
1	1	1	Plastic 125 mL - Ammon. SO4/Ammon. OH-S	Ammonium Sulfate/ammonium hydroxide	200.8_SDWA - (MOD) 200.8: Primary/Secondary Metals	Drinking W	Normal	✓	
1	1	1	Plastic 125 mL - Ammon. SO4/Ammon. OH-S	Ammonium Sulfate/ammonium hydroxide	200.8_Hg - Mercury	Drinking W	Normal	✓	
1	1	1	Plastic 125 mL - Ammon. SO4/Ammon. OH-S	Ammonium Sulfate/ammonium hydroxide	218.7 - Local Method	Drinking W	Normal	✓	

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1	2	2	Plastic 125mL - unpreserved	None	300_OF_48H_PREC - Nitrate and Nitrite as N	Drinking W	Normal	✓
1	1	1	Plastic 125mL - unpreserved	None	300_OF_28D_PREC - Chloride and Sulfate	Drinking W	Normal	✓
1	1	1	Plastic 250ml - Ascorbic Acid w/NAOH	Ascorbic Acid and Sodium Hydroxide	4500_F_C - Fluoride	Drinking W	Normal	✓
1	1	1	Plastic 250ml - unpreserved	None	3310_PREC_CA - Perchlorate	Drinking W	Normal	✓
1	0	0	No Container	None	3354 - Cyanide, Total	Drinking W	Normal	✓
1	2	2	Plastic 500ml - unpreserved	None	2320B - Total Alkalinity	Drinking W	Normal	✓
1	1	1	Plastic 1 liter - Sonicated	None	2510B - Specific Conductance	Drinking W	Normal	✓
1	6	6	Voa Vial 40mL Amber - Hydrochloric Acid	Hydrochloric Acid	SM4500_H+ - pH	Drinking W	Normal	✓
1	2	2	Amber Glass 1 liter - Sodium Thiosulfate	Sodium Thiosulfate	SM2330B - Corrosivity, Langlier Index	Drinking W	Normal	✓
1	1	1	Amber Plastic 1L - Na2S2O3	Sodium Thiosulfate	2540C_Calcd - Total Dissolved Solids	Drinking W	Normal	✓
1	1	1	Amber Glass 125mL - Sodium Thiosulfate	Sodium Thiosulfate	5540C - Methylene Blue Active Substances	Drinking W	Normal	✓
1	2	2	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	SUBCONTRACT - Asbestos >10um	Drinking W	Normal	✓
1	3	3	VOA Vial 40mL Amber - NaThio + C6H7KO7	Sodium Thiosulfate/Dihydrogen Citrate	CA_SRL_524M_SIM - 1,2,3-Trichloropropane	Drinking W	Normal	✓
1	2	2	Amber Glass 1 Liter - Sodium Sulfite w/HCl	Sodium Sulfite w/HCl	524.2_Pres_PREC - 524.2 - VOCs	Drinking W	Normal	✓
1	0	0	No Container	None	1613B_IDA - 2,3,7,8-TCDD	Drinking W	Normal	✓
1	1	1	Amber Glass 250ml - Na2SO3	Sodium Sulfite	549.2_PREC - Diquat	Drinking W	Normal	✓
1	6	6	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	548.1_PREC - Endothall	Drinking W	Normal	✓
1	3	3	Plastic 250ml - Ammonium Acetate	Ammonium Acetate	547_PREC - Glyphosate	Drinking W	Normal	✓
1	3	3	Plastic 250ml - Trizma	Trizma	531.2_PREC - Carbamate Pesticides	Drinking W	Normal	✓
1	2	2	Amber Glass 1 Liter - Sodium Sulfite w/HCl	Sodium Sulfite w/HCl	525.2_PREC - (MOD) 525.2: SVOCs	Drinking W	Normal	✓
1	0	0	No Container	None	524.2_TTHM_Sum - Total Trihalomethanes	Drinking W	Normal	✓
1	1	1	Amber Glass 250ml - Na2SO3	Sodium Sulfite	515.4_PREC - (MOD) Chlorinated Herbicides	Drinking W	Normal	✓
1	6	6	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	505_PREC - 505 REG	Drinking W	Normal	✓
1	3	3	Plastic 250ml - Ammonium Acetate	Ammonium Acetate	504.1_PREC - EDB and DBCP	Drinking W	Normal	✓
1	3	3	Plastic 250ml - Trizma	Trizma	533 - PFAS by 533	Drinking W	Normal	✓
1	3	3	Plastic 250ml - Trizma	Trizma	537.1_DW_PREC - 537.1 Full List	Drinking W	Normal	✓

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1	1	1	1	Plastic 1 liter - Nitric Acid	Nitric Acid	905_Sr90 - Strontium-90	Drinking W	Normal	SR ✓
1	1	1	1	Plastic 1 liter - Nitric Acid	Nitric Acid	SM7110B - Gross Alpha and Beta	Drinking W	Normal	SR ✓
1	1	1	1	Plastic 1 Gallon - HNO3	Nitric Acid	SM7500_Ra_B - Radium-226	Drinking W	Normal	SR ✓
1	1	0	0	No Container	None	SM7500_Ra_D - Radium-228	Drinking W	Normal	SR ✓
1	2	2	2	Voa Vial 40ml - unpreserved	None	SM7500_Ra_D_SUM - Radium-226 and 228 - Combined	Drinking W	Normal	SR ✓
1	1	1	1	Plastic 250ml - Reagent Water	None	906 0 - Local Method	Drinking W	Normal	SR ✓
1	1	1	1	Plastic 250ml - Ammonium Acetate	Ammonium Acetate	533 - PFAS by 533 FRB	Drinking W	Field Reagent B	SR ✓
1	1	1	1	Plastic 250ml - Reagent Water	None	533 - PFAS by 533 FRB	Drinking W	Field Reagent B	SR ✓
1	1	1	1	Plastic 250ml - Trizma	Trizma	537 1_DW_PREC - 537 1 Full List - FRB*	Drinking W	Field Reagent B	SR ✓
1	1	1	1	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	537 1_DW_PREC - 537 1 Full List - FRB*	Drinking W	Field Reagent B	SR ✓
1	1	1	1	Voa Vial 40mL Amber - Hydrochloric Acid	Hydrochloric Acid	504 1_PREC - EDB and DBCP	Drinking W	Trip Blank	SR ✓
1	1	1	1			CA_SRL_524M_SIM - 1,2,3-Trichloropropane	Drinking W	Trip Blank	SR ✓
1	1	1	1			524.2_Pres_PREC - 524 2 VOCs	Drinking W	Trip Blank	SR ✓

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Bottle Order Information

Bottle Order Title 22
 Bottle Order # 25746
 Request From Client 4/23/2025
 Date Order Posted 4/23/2025 7 43.07PM
 Order Status. Shipped
 Prepared By Monica Van Natta
 Deliver By Date. 4/28/2025 11 59:00PM
 Lab Project Number 38009249
 PWSID

Order Completion Information

Creator Monica Van Natta
 Filled by Process Server (DO NOT DELETE)
 Sent Date 4/24/2025 12 00:00AM
 Sent Via FedEx Priority Overnight
 Tracking #. 444120435250 444120435261

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
1	2	2	Sterile w/thio 100 mL	Sodium Thiosulfate	9215B_8H - Heterotrophic Plate Count	Drinking W	Normal	✓	
					9223B_CIQ18_DW - Total Coliform and E Coli (MPN)	Drinking W	Normal	✓	
1	1	1	Plastic 125mL - ethylene diamine	Ethylene Diamine	300_OF_14D_B - Chlorite	Drinking W	Normal	✓	
1	1	1	Plastic 125mL - ethylene diamine	Ethylene Diamine	317 Bromate	Drinking W	Normal	✓	
1	2	2	Amber Glass 125mL unpreserved	None	4500_CL_G - (MOD) Chloramines	Drinking W	Normal		
					4500_CIO2_D - Chlorine Dioxide, Residual	Drinking W	Normal	✓	
					LCMS_Acrylamide - Acrylamide	Drinking W	Normal		
1	3	3	Voa Vial 40ml Amber - Ammonium Chloride	Ammonium Chloride	SM6251B - Haloacetic Acids 5	Drinking W	Normal	✓	
1	0	0	No Container	None	SM6251B_THA_SUM - Total Haloacetic Acids 5	Drinking W	Normal	—	
1	1	1	Amber Glass 1 liter - unpreserved	None	180 1 Turbidity	Drinking W	Normal	✓	
					2120B - Color Apparent	Drinking W	Normal	✓	
					SM2150_Odor_B Odor	Drinking W	Normal		
1	1	1	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7_SDWA - (MOD) 200.7 Secondary DW Metals	Drinking W	Normal		
					200.8_SDWA (MOD) 200.8 Primary/Secondary Metals	Drinking W	Normal	✓	
					200.8_Hg Mercury	Drinking W	Normal		
1	1	1	Plastic 125 mL - Ammon. SO4/Ammon. OH -S	Ammonium Sulfate/ammonium hydroxide	218 7 Local Method	Drinking W	Normal	✓	

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1	2	2	Plastic 125mL unpreserved	None	300_OF_48H_PREC Nitrate and Nitrite as N	Drinking W	Normal		
					300_OF_28D_PREC - Chloride and Sulfate	Drinking W	Normal	✓	
					4500_F_C - Fluoride	Drinking W	Normal		
1	1	1	Plastic 125mL - unpreserved	None	331.0_PREC_CA - Perchlorate	Drinking W	Normal	✓	
1	1	1	Plastic 250ml Ascorbic Acid w/NAOH	Ascorbic Acid and Sodium Hydroxide	335.4 Cyanide Total	Drinking W	Normal	✓	
1	1	1	Plastic 250ml unpreserved	None	2320B Total Alkalinity	Drinking W	Normal	✓	
					2510B - Specific Conductance	Drinking W	Normal	✓	
					SM4500_H+ pH	Drinking W	Normal		
1	0	0	No Container	None	SM2330B Corrosivity Langlier Index	Drinking W	Normal	—	
1	2	2	Plastic 500ml - unpreserved	None	2540C_Calcd - Total Dissolved Solids	Drinking W	Normal	✓	
					5540C - Methylene Blue Active Substances	Drinking W	Normal	✓	
1	1	1	Plastic 1 liter - Sonicated	None	SUBCONTRACT - Asbestos >10um	Drinking W	Normal	✓	✓
1	6	6	Voa Vial 40mL Amber Hydrochloric Acid	Hydrochloric Acid	CA_SRL_524M_SIM - 1,2 3-Trichloropropane	Drinking W	Normal	✓	
					524.2_Pres_PREC - 524.2 VOCs	Drinking W	Normal	✓	
1	2	2	Amber Glass 1 liter Sodium Thiosulfate	Sodium Thiosulfate	1613B_IDA 2,3 7 8-TCDD	Drinking W	Normal	✓	
1	1	1	Amber Plastic 1L - Na2S2O3	Sodium Thiosulfate	549.2_PREC - Diquat	Drinking W	Normal	✓	
1	1	1	Amber Glass 125mL - Sodium Thiosulfate	Sodium Thiosulfate	548 1_PREC - Endothall	Drinking W	Normal	✓	
1	2	2	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	547_PREC - Glyphosate	Drinking W	Normal	✓	
1	3	3	VOA Vial 40mL Amber - NaThio + C6H7KO7	Sodium Thiosulfate/K Dihydrogen Citrate	531.2_PREC - Carbamate Pesticides	Drinking W	Normal	✓	
1	2	2	Amber Glass 1 Liter- Sodium Sulfite/HCl	Sodium Sulfite w/HCl	525.2_PREC - (MOD) 525.2. SVOCs	Drinking W	Normal	✓	
1	0	0	No Container	None	524.2_TTHM_Sum - Total Trihalomethanes	Drinking W	Normal	—	
1	1	1	Amber Glass 250ml Na2SO3	Sodium Sulfite	515.4_PREC (MOD) Chlorinated Herbicides	Drinking W	Normal	✓	
1	6	6	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	505_PREC 505 REG	Drinking W	Normal	✓	
					504.1_PREC EDB and DBCP	Drinking W	Normal	✓	
1	3	3	Plastic 250ml - Ammonium Acetate	Ammonium Acetate	533 - PFAS by 533	Drinking W	Normal	✓	
1	3	3	Plastic 250ml Trizma	Trizma	537 1_DW_PREC - 537 1 Full List	Drinking W	Normal	✓	

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

1	1	1	Plastic 1 liter - Nitric Acid	Nitric Acid	905_Sr90 - Strontium-90 ✓	Drinking W	Normal	SRL ✓	
1	1	1	Plastic 1 liter Nitric Acid	Nitric Acid	SM7110B - Gross Alpha and Beta ✓	Drinking W	Normal	ESB ✓	
1	1	1	Plastic 1 Gallon HNO3	Nitric Acid	SM7500_Ra_B - Radium-226 ✓	Drinking W	Normal	ESB ✓	
					SM7500_Ra_D - Radium-228 ✓	Drinking W	Normal	ESB ✓	
1	1	0	No Container	None	SM7500_Ra_D_SUM - Radium-226 and 228 Combined ✓	Drinking W	Normal	ESB ✓	
1	2	2	Voa Vial 40ml unpreserved	None	906.0 - Local Method ✓	Drinking W	Normal	ESB ✓	
1	1	1	Plastic 250ml Reagent Water	None	533 - PFAS by 533 FRB ✓	Drinking W	Field Reagent B	✓	
1	1	1	Plastic 250ml - Ammonium Acetate	Ammonium Acetate	533 - PFAS by 533 FRB ✓	Drinking W	Field Reagent B	✓	
1	1	1	Plastic 250ml - Reagent Water	None	537 1_DW_PREC - 537 1 Full List - FRB* ✓	Drinking W	Field Reagent B	✓	
1	1	1	Plastic 250ml Trizma	Trizma	537 1_DW_PREC - 537 1 Full List FRB* ✓	Drinking W	Field Reagent B	✓	
1	1	1	Voa Vial 40ml Amber - Sodium thiosulfate	Sodium Thiosulfate	504.1_PREC - EDB and DBCP ✓	Drinking W	Trip Blank	✓	
1	1	1	Voa Vial 40mL Amber - Hydrochloric Acid	Hydrochloric Acid	CA_SRL_524M_SIM ✓	Drinking W	Trip Blank	✓	
					1,2 3-Trichloropropane ✓	Drinking W	Trip Blank	✓	
					524.2_Pres_PREC - 524.2 VOCs ✓	Drinking W	Trip Blank	✓	

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 380-147873-1

Login Number: 147873

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Edrosa, Rey

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No time on COC, logged in per container labels.
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 380-147873-1

Login Number: 147873

List Number: 3

Creator: Trowbridge, Peyton

List Source: Eurofins Eaton Analytical South Bend

List Creation: 05/01/25 03:00 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	False	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	False	Client provided containers

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 380-147873-1

Login Number: 147873

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 05/01/25 11:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX H

Department of Water Resources Well Completion Report

Depth from Surface (Feet to Feet)		Description
360	370	SAND GRAVEL
370	380	SAND GRAVEL SOME CLAY
380	390	SAND GRAVEL CLAY
390	400	SAND CLAY GRAVEL
400	420	SAND CLAY
420	510	SAND GRAVEL CLAY
510	520	SAND CLAY
520	550	SAND CLAY GRAVEL
550	580	SAND CLAY
580	660	SAND GRAVEL CLAY
660	670	SAND CLAY
670	680	SAND GRAVEL CLAY
680	690	SAND CLAY

Casings										
Casing #	Depth from Surface (Feet to Feet)		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	96	Conductor or Fill Pipe	Other	Other	36	0.5			CONDUCTOR
2	0	350	Blank	Spiral Weld Stainless Steel	Nominal Size: 6 in. Thickness: 3/16 in. OD: 6-5/8 in.	0.3125	18.625			
2	350	390	Screen	Spiral Weld Stainless Steel	Nominal Size: 18 in. Thickness: 5/16 in. OD: 18-5/8 in.	0.3125	18.625	Louver	0.06	LOUVERED SCREEN
2	390	440	Blank	Spiral Weld Stainless Steel	Nominal Size: 18 in. Thickness: 5/16 in. OD: 18-5/8 in.	0.3125	18.625			
2	440	650	Screen	Spiral Weld Stainless Steel	Nominal Size: 18 in. Thickness: 5/16 in. OD: 18-5/8 in.	0.3125	18.625	Louver	0.06	LOUVERED SCREEN

Casing #	Depth from Surface (Feet to Feet)		Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
2	650	670	Blank	Spiral Weld Stainless Steel	Nominal Size: 18 in. Thickness: 5/16 in. OD: 18-5/8 in.	0.3125	18.625			BLANK WITH END PLATE
3	0	433	Blank	Stainless Steel	Grade: 304 Stainless Steel	0.025	4.5			GRAVEL FEED TUBE
4	0	343	Blank	Stainless Steel	Grade: 304 Stainless Steel	0.025	4.5			GRAVEL FEED TUBE
5	0	345	Blank	Stainless Steel	Grade: 304 Stainless Steel	0.025	3.5			SOUNDING TUBE

Annular Material					
Depth from Surface (Feet to Feet)		Fill	Fill Type Details	Filter Pack Size	Description
0	96	Cement	Other Cement		CEMENT GROUT
0	338	Cement	Other Cement		CEMENT GROUT
338	340	Other Fill	See description		TRANSITION SAND
340	400	Filter Pack	8 x 16		
400	428	Bentonite	Other Bentonite		BENTONITE SEAL
428	430	Other Fill	See description		TRANSITION SAND
430	670	Filter Pack	8 x 16		
670	680	Bentonite	Other Bentonite		BENTONITE SEAL
680	690	Other Fill	See description		NATIVE BACKFILL

Other Observations:

Borehole Specifications		
Depth from Surface (Feet to Feet)		Borehole Diameter (inches)
0	96	48
96	443	32
443	690	28

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.			
Name: <u>LAYNE CHRISTENSEN COMPANY</u>			
Person, Firm or Corporation			
<u>1717 WEST PARK AVENUE</u>	<u>REDLANDS</u>	<u>California</u>	<u>92373</u>
Address	City	State	Zip
Signed: <u>electronic signature received</u>	<u>06/09/2025</u>	<u>510011</u>	

Attachments

No Attachments

DWR Use Only

CSG #	State Well Number	Site Code	Local Well Number
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				N
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Latitude Deg/Min/Sec

				W
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Longitude Deg/Min/Sec

TRS:

APN: