



ANALYTICAL REPORT

PREPARED FOR

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Generated 6/14/2024 9:26:18 AM

JOB DESCRIPTION

LOCS D

JOB NUMBER

570-184998-1

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Job Notes

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

Authorization



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Definitions/Glossary

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.

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
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Case Narrative

Client: GSI Water Solutions, Inc
Project: LOCS D

Job ID: 570-184998-1

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Job Narrative 570-184998-1

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

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

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

Receipt

The samples were received on 5/17/2024 6:27 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 1.8°C and 3.0°C.

Subcontract Work

Method Nitrogen & Oxygen Isotopes--15N/14N & 18O/16O analysis of Diss NO3: This method was subcontracted to Isotech Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

HPLC/IC

Method 300_ORGFM_28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 570-441907 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Sulfate in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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.

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Detection Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Client Sample ID: MW-1 (S)

Lab Sample ID: 570-184998-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	2.1		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate	48		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride - DL	110		10	3.6	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	2.1		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.0851	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	63.8		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	529		10.0	8.70	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2 (S)

Lab Sample ID: 570-184998-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	110		10	3.6	mg/L	10		300.0	Total/NA
Nitrate as N - DL	8.6		1.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - DL	96		10	1.8	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	8.6		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.133	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	65.3		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Kjeldahl Nitrogen	0.287	F1	0.200	0.112	mg/L	1		351.2	Total/NA
Total Dissolved Solids	948		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	8.89		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: MW-3 (S)

Lab Sample ID: 570-184998-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	49		1.0	0.36	mg/L	1		300.0	Total/NA
Nitrate as N	5.9		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate - DL	190		10	1.8	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	5.9		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.145	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	43.4		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	853		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	5.90		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: MW-4 (S)

Lab Sample ID: 570-184998-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	97		10	3.6	mg/L	10		300.0	Total/NA
Nitrate as N - DL	14		1.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - DL	180		10	1.8	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	14		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.228	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	71.3		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	1160		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	14.0		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Client Sample ID: MW-5 (S)

Lab Sample ID: 570-184998-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	43		1.0	0.36	mg/L	1		300.0	Total/NA
Nitrate as N	4.7		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate - DL	170		10	1.8	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	4.7		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.141	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	40.0		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	745		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	4.70		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: MW-1 (D)

Lab Sample ID: 570-184998-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	2.2		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate	42		1.0	0.18	mg/L	1		300.0	Total/NA
Chloride - DL	110		10	3.6	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	2.2		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.0651	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	58.1		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	510		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	2.20		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: MW-2 (D)

Lab Sample ID: 570-184998-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	150		10	3.6	mg/L	10		300.0	Total/NA
Nitrate as N - DL	9.9		1.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - DL	94		10	1.8	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	9.9		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.139	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	72.6		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Kjeldahl Nitrogen	0.215		0.200	0.112	mg/L	1		351.2	Total/NA
Total Dissolved Solids	1030		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	10.1		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: MW-3 (D)

Lab Sample ID: 570-184998-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	48		1.0	0.36	mg/L	1		300.0	Total/NA
Nitrate as N	6.1		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate - DL	190		10	1.8	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	6.1		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.140	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	43.2		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	844		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	6.10		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: GSI Water Solutions, Inc
 Project/Site: LOCSD

Job ID: 570-184998-1

Client Sample ID: MW-4 (D)

Lab Sample ID: 570-184998-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	100		10	3.6	mg/L	10		300.0	Total/NA
Nitrate as N - DL	14		1.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - DL	180		10	1.8	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	14		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.225	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	71.8		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	1160		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	14.0		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: MW-5 (D)

Lab Sample ID: 570-184998-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	43		1.0	0.36	mg/L	1		300.0	Total/NA
Nitrate as N	4.7		0.10	0.020	mg/L	1		300.0	Total/NA
Sulfate - DL	170		10	1.8	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N	4.7		0.10	0.020	mg/L	1		NO2NO3 Calc	Total/NA
Boron	0.139	J	0.500	0.00348	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	40.5		2.00	0.186	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	746		10.0	8.70	mg/L	1		SM 2540C	Total/NA
Total Nitrogen	4.70		1.00	0.350	mg/L	1		Total Nitrogen	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Client Sample ID: MW-1 (S)
Date Collected: 05/16/24 09:40
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-1
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.043	mg/L			05/17/24 23:48	1
Nitrate as N	2.1		0.10	0.020	mg/L			05/17/24 23:48	1
Sulfate	48		1.0	0.18	mg/L			05/17/24 23:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		10	3.6	mg/L			05/18/24 03:58	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	2.1		0.10	0.020	mg/L			05/17/24 23:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0851	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:15	1
Sodium	63.8		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	529		10.0	8.70	mg/L			05/22/24 13:45	1

Client Sample ID: MW-2 (S)
Date Collected: 05/16/24 11:20
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 00:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		10	3.6	mg/L			05/18/24 04:52	10
Nitrate as N	8.6		1.0	0.20	mg/L			05/18/24 04:52	10
Sulfate	96		10	1.8	mg/L			05/18/24 04:52	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	8.6		0.10	0.020	mg/L			05/18/24 04:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.133	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:17	1
Sodium	65.3		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	0.287	F1	0.200	0.112	mg/L		05/22/24 15:27	05/23/24 19:47	1
Total Dissolved Solids (SM 2540C)	948		10.0	8.70	mg/L			05/22/24 13:45	1
Total Nitrogen (EPA Total Nitrogen)	8.89		1.00	0.350	mg/L			05/23/24 19:47	1

Client Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Client Sample ID: MW-3 (S)
Date Collected: 05/16/24 13:45
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-3
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49		1.0	0.36	mg/L			05/18/24 00:59	1
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 00:59	1
Nitrate as N	5.9		0.10	0.020	mg/L			05/18/24 00:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	190		10	1.8	mg/L			05/18/24 05:10	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	5.9		0.10	0.020	mg/L			05/18/24 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.145	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:19	1
Sodium	43.4		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 19:47	1
Total Dissolved Solids (SM 2540C)	853		10.0	8.70	mg/L			05/22/24 13:45	1
Total Nitrogen (EPA Total Nitrogen)	5.90		1.00	0.350	mg/L			05/23/24 19:47	1

Client Sample ID: MW-4 (S)
Date Collected: 05/16/24 12:35
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-4
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97		10	3.6	mg/L			05/18/24 05:28	10
Nitrate as N	14		1.0	0.20	mg/L			05/18/24 05:28	10
Sulfate	180		10	1.8	mg/L			05/18/24 05:28	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	14		0.10	0.020	mg/L			05/18/24 05:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.228	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:22	1
Sodium	71.3		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 19:47	1
Total Dissolved Solids (SM 2540C)	1160		10.0	8.70	mg/L			05/22/24 13:45	1

Eurofins Calscience

Client Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Client Sample ID: MW-4 (S)
Date Collected: 05/16/24 12:35
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Nitrogen (EPA Total Nitrogen)	14.0		1.00	0.350	mg/L			05/23/24 19:47	1

Client Sample ID: MW-5 (S)
Date Collected: 05/16/24 14:55
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-5
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		1.0	0.36	mg/L			05/18/24 01:35	1
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 01:35	1
Nitrate as N	4.7		0.10	0.020	mg/L			05/18/24 01:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	170		10	1.8	mg/L			05/18/24 05:45	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	4.7		0.10	0.020	mg/L			05/18/24 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.141	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:29	1
Sodium	40.0		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 19:47	1
Total Dissolved Solids (SM 2540C)	745		10.0	8.70	mg/L			05/22/24 13:45	1
Total Nitrogen (EPA Total Nitrogen)	4.70		1.00	0.350	mg/L			05/23/24 19:47	1

Client Sample ID: MW-1 (D)
Date Collected: 05/16/24 10:30
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-6
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 01:53	1
Nitrate as N	2.2		0.10	0.020	mg/L			05/18/24 01:53	1
Sulfate	42		1.0	0.18	mg/L			05/18/24 01:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		10	3.6	mg/L			05/18/24 06:03	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	2.2		0.10	0.020	mg/L			05/18/24 01:53	1

Client Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Client Sample ID: MW-1 (D)

Date Collected: 05/16/24 10:30

Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0651	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:36	1
Sodium	58.1		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 20:29	1
Total Dissolved Solids (SM 2540C)	510		10.0	8.70	mg/L			05/22/24 13:45	1
Total Nitrogen (EPA Total Nitrogen)	2.20		1.00	0.350	mg/L			05/23/24 20:29	1

Client Sample ID: MW-2 (D)

Date Collected: 05/16/24 11:50

Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-7

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 02:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		10	3.6	mg/L			05/18/24 06:21	10
Nitrate as N	9.9		1.0	0.20	mg/L			05/18/24 06:21	10
Sulfate	94		10	1.8	mg/L			05/18/24 06:21	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	9.9		0.10	0.020	mg/L			05/18/24 06:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.139	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:39	1
Sodium	72.6		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	0.215		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 20:29	1
Total Dissolved Solids (SM 2540C)	1030		10.0	8.70	mg/L			05/22/24 13:45	1
Total Nitrogen (EPA Total Nitrogen)	10.1		1.00	0.350	mg/L			05/23/24 20:29	1

Client Sample ID: MW-3 (D)

Date Collected: 05/16/24 14:25

Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-8

Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48		1.0	0.36	mg/L			05/18/24 02:29	1
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 02:29	1
Nitrate as N	6.1		0.10	0.020	mg/L			05/18/24 02:29	1

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Client Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Client Sample ID: MW-3 (D)

Lab Sample ID: 570-184998-8

Date Collected: 05/16/24 14:25

Matrix: Water

Date Received: 05/17/24 18:27

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	190		10	1.8	mg/L			05/18/24 06:39	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	6.1		0.10	0.020	mg/L			05/18/24 02:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.140	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:41	1
Sodium	43.2		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 20:29	1
Total Dissolved Solids (SM 2540C)	844		10.0	8.70	mg/L			05/22/24 13:45	1
Total Nitrogen (EPA Total Nitrogen)	6.10		1.00	0.350	mg/L			05/23/24 20:29	1

Client Sample ID: MW-4 (D)

Lab Sample ID: 570-184998-9

Date Collected: 05/16/24 13:10

Matrix: Water

Date Received: 05/17/24 18:27

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 02:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		10	3.6	mg/L			05/18/24 06:57	10
Nitrate as N	14		1.0	0.20	mg/L			05/18/24 06:57	10
Sulfate	180		10	1.8	mg/L			05/18/24 06:57	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	14		0.10	0.020	mg/L			05/18/24 06:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.225	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:44	1
Sodium	71.8		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 20:29	1
Total Dissolved Solids (SM 2540C)	1160		10.0	8.70	mg/L			05/22/24 13:45	1
Total Nitrogen (EPA Total Nitrogen)	14.0		1.00	0.350	mg/L			05/23/24 20:29	1

Client Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Client Sample ID: MW-5 (D)

Lab Sample ID: 570-184998-10

Date Collected: 05/16/24 15:25

Matrix: Water

Date Received: 05/17/24 18:27

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		1.0	0.36	mg/L			05/18/24 03:04	1
Nitrite as N	ND		0.10	0.043	mg/L			05/18/24 03:04	1
Nitrate as N	4.7		0.10	0.020	mg/L			05/18/24 03:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	170		10	1.8	mg/L			05/18/24 07:15	10

Method: EPA NO2NO3 Calc - Nitrogen, Nitrate-Nitrite

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	4.7		0.10	0.020	mg/L			05/18/24 03:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.139	J	0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 20:46	1
Sodium	40.5		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen (EPA 351.2)	ND		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 20:29	1
Total Dissolved Solids (SM 2540C)	746		10.0	8.70	mg/L			05/22/24 13:45	1
Total Nitrogen (EPA Total Nitrogen)	4.70		1.00	0.350	mg/L			05/23/24 20:29	1

QC Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 570-441906/5
Matrix: Water
Analysis Batch: 441906

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			05/17/24 19:08	1
Nitrate as N	ND		0.10	0.020	mg/L			05/17/24 19:08	1

Lab Sample ID: LCS 570-441906/6
Matrix: Water
Analysis Batch: 441906

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	2.433		mg/L		97	90 - 110
Nitrate as N	5.00	4.924		mg/L		98	90 - 110

Lab Sample ID: LCSD 570-441906/7
Matrix: Water
Analysis Batch: 441906

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	2.414		mg/L		97	90 - 110	1	15
Nitrate as N	5.00	4.883		mg/L		98	90 - 110	1	15

Lab Sample ID: 570-184998-1 MS
Matrix: Water
Analysis Batch: 441906

Client Sample ID: MW-1 (S)
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	2.555		mg/L		102	80 - 120
Nitrate as N	2.1		5.00	7.289		mg/L		104	80 - 120

Lab Sample ID: 570-184998-1 MSD
Matrix: Water
Analysis Batch: 441906

Client Sample ID: MW-1 (S)
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	2.442		mg/L		98	80 - 120	4	20
Nitrate as N	2.1		5.00	7.319		mg/L		104	80 - 120	0	20

Lab Sample ID: MB 570-441907/5
Matrix: Water
Analysis Batch: 441907

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			05/17/24 19:08	1
Sulfate	ND		1.0	0.18	mg/L			05/17/24 19:08	1

Lab Sample ID: LCS 570-441907/6
Matrix: Water
Analysis Batch: 441907

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	49.86		mg/L		100	90 - 110
Sulfate	50.0	49.27		mg/L		99	90 - 110

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QC Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 570-441907/7
Matrix: Water
Analysis Batch: 441907

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	49.81		mg/L		100	90 - 110	0	15
Sulfate	50.0	49.27		mg/L		99	90 - 110	0	15

Lab Sample ID: 570-184998-1 MS
Matrix: Water
Analysis Batch: 441907

Client Sample ID: MW-1 (S)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	48		50.0	105.4	E	mg/L		115	80 - 120

Lab Sample ID: 570-184998-1 MSD
Matrix: Water
Analysis Batch: 441907

Client Sample ID: MW-1 (S)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	48		50.0	105.8	E	mg/L		115	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 570-184998-1 MS
Matrix: Water
Analysis Batch: 441907

Client Sample ID: MW-1 (S)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride - DL	110		50.0	149.6		mg/L		82	80 - 120

Lab Sample ID: 570-184998-1 MSD
Matrix: Water
Analysis Batch: 441907

Client Sample ID: MW-1 (S)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride - DL	110		50.0	149.0		mg/L		81	80 - 120	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-443051/1-A
Matrix: Water
Analysis Batch: 443909

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 443051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.500	0.00348	mg/L		05/22/24 05:49	05/23/24 19:45	1
Sodium	ND		2.00	0.186	mg/L		05/22/24 05:49	05/23/24 19:45	1

Lab Sample ID: LCS 570-443051/2-A
Matrix: Water
Analysis Batch: 443909

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 443051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.5108		mg/L		102	85 - 115
Sodium	5.00	5.198		mg/L		104	85 - 115

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QC Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

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

Lab Sample ID: LCSD 570-443051/3-A
Matrix: Water
Analysis Batch: 443909

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 443051

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.500	0.5029		mg/L		101	85 - 115	2	20
Sodium	5.00	5.211		mg/L		104	85 - 115	0	20

Lab Sample ID: 570-184998-5 MS
Matrix: Water
Analysis Batch: 443909

Client Sample ID: MW-5 (S)
Prep Type: Total Recoverable
Prep Batch: 443051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.141	J	0.500	0.6571		mg/L		103	80 - 120
Sodium	40.0		5.00	44.74	4	mg/L		94	80 - 120

Lab Sample ID: 570-184998-5 MSD
Matrix: Water
Analysis Batch: 443909

Client Sample ID: MW-5 (S)
Prep Type: Total Recoverable
Prep Batch: 443051

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.141	J	0.500	0.6722		mg/L		106	80 - 120	2	20
Sodium	40.0		5.00	45.40	4	mg/L		107	80 - 120	1	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 570-443349/3-A
Matrix: Water
Analysis Batch: 443878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.200	0.112	mg/L		05/22/24 15:27	05/23/24 19:22	1

Lab Sample ID: LCS 570-443349/4-A
Matrix: Water
Analysis Batch: 443878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	5.00	5.282		mg/L		106	90 - 110

Lab Sample ID: LCSD 570-443349/5-A
Matrix: Water
Analysis Batch: 443878

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 443349

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	5.00	5.345		mg/L		107	90 - 110	1	20

Lab Sample ID: 570-184998-2 MS
Matrix: Water
Analysis Batch: 443878

Client Sample ID: MW-2 (S)
Prep Type: Total/NA
Prep Batch: 443349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	0.287	F1	5.00	4.819		mg/L		91	90 - 110

QC Sample Results

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 570-184998-2 MSD
Matrix: Water
Analysis Batch: 443878

Client Sample ID: MW-2 (S)
Prep Type: Total/NA
Prep Batch: 443349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	0.287	F1	5.00	4.321	F1	mg/L		81	90 - 110	11	20

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

Lab Sample ID: MB 570-443291/1
Matrix: Water
Analysis Batch: 443291

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	8.70	mg/L			05/22/24 13:45	1

Lab Sample ID: LCS 570-443291/2
Matrix: Water
Analysis Batch: 443291

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	1002		mg/L		100	84 - 108

Lab Sample ID: LCSD 570-443291/3
Matrix: Water
Analysis Batch: 443291

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	1002		mg/L		100	84 - 108	0	10

Lab Sample ID: 570-184998-2 DU
Matrix: Water
Analysis Batch: 443291

Client Sample ID: MW-2 (S)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	948		940.0		mg/L		0.8	10

QC Association Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

HPLC/IC

Analysis Batch: 441906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-1	MW-1 (S)	Total/NA	Water	300.0	
570-184998-2	MW-2 (S)	Total/NA	Water	300.0	
570-184998-2 - DL	MW-2 (S)	Total/NA	Water	300.0	
570-184998-3	MW-3 (S)	Total/NA	Water	300.0	
570-184998-4	MW-4 (S)	Total/NA	Water	300.0	
570-184998-4 - DL	MW-4 (S)	Total/NA	Water	300.0	
570-184998-5	MW-5 (S)	Total/NA	Water	300.0	
570-184998-6	MW-1 (D)	Total/NA	Water	300.0	
570-184998-7	MW-2 (D)	Total/NA	Water	300.0	
570-184998-7 - DL	MW-2 (D)	Total/NA	Water	300.0	
570-184998-8	MW-3 (D)	Total/NA	Water	300.0	
570-184998-9	MW-4 (D)	Total/NA	Water	300.0	
570-184998-9 - DL	MW-4 (D)	Total/NA	Water	300.0	
570-184998-10	MW-5 (D)	Total/NA	Water	300.0	
MB 570-441906/5	Method Blank	Total/NA	Water	300.0	
LCS 570-441906/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-441906/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-184998-1 MS	MW-1 (S)	Total/NA	Water	300.0	
570-184998-1 MSD	MW-1 (S)	Total/NA	Water	300.0	

Analysis Batch: 441907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-1	MW-1 (S)	Total/NA	Water	300.0	
570-184998-1 - DL	MW-1 (S)	Total/NA	Water	300.0	
570-184998-2 - DL	MW-2 (S)	Total/NA	Water	300.0	
570-184998-3	MW-3 (S)	Total/NA	Water	300.0	
570-184998-3 - DL	MW-3 (S)	Total/NA	Water	300.0	
570-184998-4 - DL	MW-4 (S)	Total/NA	Water	300.0	
570-184998-5	MW-5 (S)	Total/NA	Water	300.0	
570-184998-5 - DL	MW-5 (S)	Total/NA	Water	300.0	
570-184998-6	MW-1 (D)	Total/NA	Water	300.0	
570-184998-6 - DL	MW-1 (D)	Total/NA	Water	300.0	
570-184998-7 - DL	MW-2 (D)	Total/NA	Water	300.0	
570-184998-8	MW-3 (D)	Total/NA	Water	300.0	
570-184998-8 - DL	MW-3 (D)	Total/NA	Water	300.0	
570-184998-9 - DL	MW-4 (D)	Total/NA	Water	300.0	
570-184998-10	MW-5 (D)	Total/NA	Water	300.0	
570-184998-10 - DL	MW-5 (D)	Total/NA	Water	300.0	
MB 570-441907/5	Method Blank	Total/NA	Water	300.0	
LCS 570-441907/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 570-441907/7	Lab Control Sample Dup	Total/NA	Water	300.0	
570-184998-1 MS	MW-1 (S)	Total/NA	Water	300.0	
570-184998-1 MS - DL	MW-1 (S)	Total/NA	Water	300.0	
570-184998-1 MSD	MW-1 (S)	Total/NA	Water	300.0	
570-184998-1 MSD - DL	MW-1 (S)	Total/NA	Water	300.0	

Analysis Batch: 443635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-1	MW-1 (S)	Total/NA	Water	NO2NO3 Calc	
570-184998-2	MW-2 (S)	Total/NA	Water	NO2NO3 Calc	
570-184998-3	MW-3 (S)	Total/NA	Water	NO2NO3 Calc	

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QC Association Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

HPLC/IC (Continued)

Analysis Batch: 443635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-4	MW-4 (S)	Total/NA	Water	NO2NO3 Calc	
570-184998-5	MW-5 (S)	Total/NA	Water	NO2NO3 Calc	
570-184998-6	MW-1 (D)	Total/NA	Water	NO2NO3 Calc	
570-184998-7	MW-2 (D)	Total/NA	Water	NO2NO3 Calc	
570-184998-8	MW-3 (D)	Total/NA	Water	NO2NO3 Calc	
570-184998-9	MW-4 (D)	Total/NA	Water	NO2NO3 Calc	
570-184998-10	MW-5 (D)	Total/NA	Water	NO2NO3 Calc	

Metals

Prep Batch: 443051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-1	MW-1 (S)	Total Recoverable	Water	200.7	
570-184998-2	MW-2 (S)	Total Recoverable	Water	200.7	
570-184998-3	MW-3 (S)	Total Recoverable	Water	200.7	
570-184998-4	MW-4 (S)	Total Recoverable	Water	200.7	
570-184998-5	MW-5 (S)	Total Recoverable	Water	200.7	
570-184998-6	MW-1 (D)	Total Recoverable	Water	200.7	
570-184998-7	MW-2 (D)	Total Recoverable	Water	200.7	
570-184998-8	MW-3 (D)	Total Recoverable	Water	200.7	
570-184998-9	MW-4 (D)	Total Recoverable	Water	200.7	
570-184998-10	MW-5 (D)	Total Recoverable	Water	200.7	
MB 570-443051/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-443051/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-443051/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-184998-5 MS	MW-5 (S)	Total Recoverable	Water	200.7	
570-184998-5 MSD	MW-5 (S)	Total Recoverable	Water	200.7	

Analysis Batch: 443909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-1	MW-1 (S)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-2	MW-2 (S)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-3	MW-3 (S)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-4	MW-4 (S)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-5	MW-5 (S)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-6	MW-1 (D)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-7	MW-2 (D)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-8	MW-3 (D)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-9	MW-4 (D)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-10	MW-5 (D)	Total Recoverable	Water	200.7 Rev 4.4	443051
MB 570-443051/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	443051
LCS 570-443051/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	443051
LCSD 570-443051/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-5 MS	MW-5 (S)	Total Recoverable	Water	200.7 Rev 4.4	443051
570-184998-5 MSD	MW-5 (S)	Total Recoverable	Water	200.7 Rev 4.4	443051

General Chemistry

Analysis Batch: 443291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-1	MW-1 (S)	Total/NA	Water	SM 2540C	
570-184998-2	MW-2 (S)	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

General Chemistry (Continued)

Analysis Batch: 443291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-3	MW-3 (S)	Total/NA	Water	SM 2540C	
570-184998-4	MW-4 (S)	Total/NA	Water	SM 2540C	
570-184998-5	MW-5 (S)	Total/NA	Water	SM 2540C	
570-184998-6	MW-1 (D)	Total/NA	Water	SM 2540C	
570-184998-7	MW-2 (D)	Total/NA	Water	SM 2540C	
570-184998-8	MW-3 (D)	Total/NA	Water	SM 2540C	
570-184998-9	MW-4 (D)	Total/NA	Water	SM 2540C	
570-184998-10	MW-5 (D)	Total/NA	Water	SM 2540C	
MB 570-443291/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 570-443291/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 570-443291/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
570-184998-2 DU	MW-2 (S)	Total/NA	Water	SM 2540C	

Prep Batch: 443349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-2	MW-2 (S)	Total/NA	Water	351.2	
570-184998-3	MW-3 (S)	Total/NA	Water	351.2	
570-184998-4	MW-4 (S)	Total/NA	Water	351.2	
570-184998-5	MW-5 (S)	Total/NA	Water	351.2	
570-184998-6	MW-1 (D)	Total/NA	Water	351.2	
570-184998-7	MW-2 (D)	Total/NA	Water	351.2	
570-184998-8	MW-3 (D)	Total/NA	Water	351.2	
570-184998-9	MW-4 (D)	Total/NA	Water	351.2	
570-184998-10	MW-5 (D)	Total/NA	Water	351.2	
MB 570-443349/3-A	Method Blank	Total/NA	Water	351.2	
LCS 570-443349/4-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 570-443349/5-A	Lab Control Sample Dup	Total/NA	Water	351.2	
570-184998-2 MS	MW-2 (S)	Total/NA	Water	351.2	
570-184998-2 MSD	MW-2 (S)	Total/NA	Water	351.2	

Analysis Batch: 443878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-2	MW-2 (S)	Total/NA	Water	351.2	443349
570-184998-3	MW-3 (S)	Total/NA	Water	351.2	443349
570-184998-4	MW-4 (S)	Total/NA	Water	351.2	443349
570-184998-5	MW-5 (S)	Total/NA	Water	351.2	443349
570-184998-6	MW-1 (D)	Total/NA	Water	351.2	443349
570-184998-7	MW-2 (D)	Total/NA	Water	351.2	443349
570-184998-8	MW-3 (D)	Total/NA	Water	351.2	443349
570-184998-9	MW-4 (D)	Total/NA	Water	351.2	443349
570-184998-10	MW-5 (D)	Total/NA	Water	351.2	443349
MB 570-443349/3-A	Method Blank	Total/NA	Water	351.2	443349
LCS 570-443349/4-A	Lab Control Sample	Total/NA	Water	351.2	443349
LCSD 570-443349/5-A	Lab Control Sample Dup	Total/NA	Water	351.2	443349
570-184998-2 MS	MW-2 (S)	Total/NA	Water	351.2	443349
570-184998-2 MSD	MW-2 (S)	Total/NA	Water	351.2	443349

Analysis Batch: 445359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-2	MW-2 (S)	Total/NA	Water	Total Nitrogen	
570-184998-3	MW-3 (S)	Total/NA	Water	Total Nitrogen	

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QC Association Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

General Chemistry (Continued)

Analysis Batch: 445359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-4	MW-4 (S)	Total/NA	Water	Total Nitrogen	
570-184998-5	MW-5 (S)	Total/NA	Water	Total Nitrogen	
570-184998-7	MW-2 (D)	Total/NA	Water	Total Nitrogen	
570-184998-8	MW-3 (D)	Total/NA	Water	Total Nitrogen	
570-184998-9	MW-4 (D)	Total/NA	Water	Total Nitrogen	
570-184998-10	MW-5 (D)	Total/NA	Water	Total Nitrogen	

Analysis Batch: 446286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-184998-6	MW-1 (D)	Total/NA	Water	Total Nitrogen	



Lab Chronicle

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Client Sample ID: MW-1 (S)

Date Collected: 05/16/24 09:40

Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/17/24 23:48	UIP1	EET CAL 4
	Instrument ID: IC15									
Total/NA	Analysis	300.0		1	4 mL	4 mL	441907	05/17/24 23:48	UIP1	EET CAL 4
	Instrument ID: IC15									
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 03:58	UIP1	EET CAL 4
	Instrument ID: IC15									
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/17/24 23:48	WH6J	EET CAL 4
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:15	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
	Instrument ID: BAL100									

Client Sample ID: MW-2 (S)

Date Collected: 05/16/24 11:20

Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 00:42	UIP1	EET CAL 4
	Instrument ID: IC15									
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441906	05/18/24 04:52	UIP1	EET CAL 4
	Instrument ID: IC15									
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 04:52	UIP1	EET CAL 4
	Instrument ID: IC15									
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 04:52	WH6J	EET CAL 4
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:17	P1R	EET CAL 4
	Instrument ID: ICP10									
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 19:47	ZL7L	EET CAL 4
	Instrument ID: ACA3									
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
	Instrument ID: BAL100									
Total/NA	Analysis	Total Nitrogen		1			445359	05/23/24 19:47	UAPD	EET CAL 4
	Instrument ID: ACA3									

Client Sample ID: MW-3 (S)

Date Collected: 05/16/24 13:45

Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 00:59	UIP1	EET CAL 4
	Instrument ID: IC15									

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Lab Chronicle

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Client Sample ID: MW-3 (S)

Lab Sample ID: 570-184998-3

Date Collected: 05/16/24 13:45

Matrix: Water

Date Received: 05/17/24 18:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441907	05/18/24 00:59	UIP1	EET CAL 4
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 05:10	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 00:59	WH6J	EET CAL 4
		Instrument ID: NOEQUIP								
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:19	P1R	EET CAL 4
		Instrument ID: ICP10								
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 19:47	ZL7L	EET CAL 4
		Instrument ID: ACA3								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	Total Nitrogen		1			445359	05/23/24 19:47	UAPD	EET CAL 4
		Instrument ID: ACA3								

Client Sample ID: MW-4 (S)

Lab Sample ID: 570-184998-4

Date Collected: 05/16/24 12:35

Matrix: Water

Date Received: 05/17/24 18:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 01:17	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441906	05/18/24 05:28	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 05:28	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 05:28	WH6J	EET CAL 4
		Instrument ID: NOEQUIP								
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:22	P1R	EET CAL 4
		Instrument ID: ICP10								
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 19:47	ZL7L	EET CAL 4
		Instrument ID: ACA3								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	Total Nitrogen		1			445359	05/23/24 19:47	UAPD	EET CAL 4
		Instrument ID: ACA3								

Lab Chronicle

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Client Sample ID: MW-5 (S)
Date Collected: 05/16/24 14:55
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 01:35	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0		1	4 mL	4 mL	441907	05/18/24 01:35	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 05:45	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 01:35	WH6J	EET CAL 4
		Instrument ID: NOEQUIP								
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:29	P1R	EET CAL 4
		Instrument ID: ICP10								
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 19:47	ZL7L	EET CAL 4
		Instrument ID: ACA3								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	Total Nitrogen		1			445359	05/23/24 19:47	UAPD	EET CAL 4
		Instrument ID: ACA3								

Client Sample ID: MW-1 (D)
Date Collected: 05/16/24 10:30
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 01:53	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0		1	4 mL	4 mL	441907	05/18/24 01:53	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 06:03	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 01:53	WH6J	EET CAL 4
		Instrument ID: NOEQUIP								
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:36	P1R	EET CAL 4
		Instrument ID: ICP10								
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 20:29	ZL7L	EET CAL 4
		Instrument ID: ACA3								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	Total Nitrogen		1			446286	05/23/24 20:29	UAPD	EET CAL 4
		Instrument ID: ACA3								

Lab Chronicle

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Client Sample ID: MW-2 (D)
Date Collected: 05/16/24 11:50
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 02:11	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441906	05/18/24 06:21	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 06:21	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 06:21	WH6J	EET CAL 4
		Instrument ID: NOEQUIP								
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:39	P1R	EET CAL 4
		Instrument ID: ICP10								
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 20:29	ZL7L	EET CAL 4
		Instrument ID: ACA3								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	Total Nitrogen		1			445359	05/23/24 20:29	UAPD	EET CAL 4
		Instrument ID: ACA3								

Client Sample ID: MW-3 (D)
Date Collected: 05/16/24 14:25
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 02:29	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0		1	4 mL	4 mL	441907	05/18/24 02:29	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 06:39	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 02:29	WH6J	EET CAL 4
		Instrument ID: NOEQUIP								
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:41	P1R	EET CAL 4
		Instrument ID: ICP10								
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 20:29	ZL7L	EET CAL 4
		Instrument ID: ACA3								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	Total Nitrogen		1			445359	05/23/24 20:29	UAPD	EET CAL 4
		Instrument ID: ACA3								

Lab Chronicle

Client: GSI Water Solutions, Inc
Project/Site: LOCS D

Job ID: 570-184998-1

Client Sample ID: MW-4 (D)
Date Collected: 05/16/24 13:10
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 02:47	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441906	05/18/24 06:57	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 06:57	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 06:57	WH6J	EET CAL 4
		Instrument ID: NOEQUIP								
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:44	P1R	EET CAL 4
		Instrument ID: ICP10								
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 20:29	ZL7L	EET CAL 4
		Instrument ID: ACA3								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	Total Nitrogen		1			445359	05/23/24 20:29	UAPD	EET CAL 4
		Instrument ID: ACA3								

Client Sample ID: MW-5 (D)
Date Collected: 05/16/24 15:25
Date Received: 05/17/24 18:27

Lab Sample ID: 570-184998-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	4 mL	4 mL	441906	05/18/24 03:04	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0		1	4 mL	4 mL	441907	05/18/24 03:04	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	300.0	DL	10	4 mL	4 mL	441907	05/18/24 07:15	UIP1	EET CAL 4
		Instrument ID: IC15								
Total/NA	Analysis	NO2NO3 Calc		1			443635	05/18/24 03:04	WH6J	EET CAL 4
		Instrument ID: NOEQUIP								
Total Recoverable	Prep	200.7			50 mL	50 mL	443051	05/22/24 05:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			443909	05/23/24 20:46	P1R	EET CAL 4
		Instrument ID: ICP10								
Total/NA	Prep	351.2			25 mL	25 mL	443349	05/22/24 15:27	ZL7L	EET CAL 4
Total/NA	Analysis	351.2		1			443878	05/23/24 20:29	ZL7L	EET CAL 4
		Instrument ID: ACA3								
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	443291	05/22/24 13:45	PK4M	EET CAL 4
		Instrument ID: BAL100								
Total/NA	Analysis	Total Nitrogen		1			445359	05/23/24 20:29	UAPD	EET CAL 4
		Instrument ID: ACA3								

Lab Chronicle

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
Isotech = Isotech Laboratories, Inc, 1308 Parkland Ct, Champaign, IL 61821, TEL (217)398-3490

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- 14
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Accreditation/Certification Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

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	07-31-24

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

Analysis Method	Prep Method	Matrix	Analyte
Total Nitrogen		Water	Total Nitrogen
Oregon	NELAP	4175	06-11-24

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

Analysis Method	Prep Method	Matrix	Analyte
Total Nitrogen		Water	Total Nitrogen

- 1
- 2
- 3
- 4
- 5
- 6
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- 14
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Method Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET CAL 4
NO2NO3 Calc	Nitrogen, Nitrate-Nitrite	EPA	EET CAL 4
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
351.2	Nitrogen, Total Kjeldahl	EPA	EET CAL 4
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CAL 4
Total Nitrogen	Nitrogen, Total	EPA	EET CAL 4
Subcontract	Nitrogen & Oxygen Isotopes--15N/14N & 18O/16O analysis of Diss NO3	None	Isotech
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
351.2	Nitrogen, Total Kjeldahl	EPA	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Isotech = Isotech Laboratories, Inc, 1308 Parkland Ct, Champaign, IL 61821, TEL (217)398-3490

Sample Summary

Client: GSI Water Solutions, Inc
Project/Site: LOCSD

Job ID: 570-184998-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-184998-1	MW-1 (S)	Water	05/16/24 09:40	05/17/24 18:27
570-184998-2	MW-2 (S)	Water	05/16/24 11:20	05/17/24 18:27
570-184998-3	MW-3 (S)	Water	05/16/24 13:45	05/17/24 18:27
570-184998-4	MW-4 (S)	Water	05/16/24 12:35	05/17/24 18:27
570-184998-5	MW-5 (S)	Water	05/16/24 14:55	05/17/24 18:27
570-184998-6	MW-1 (D)	Water	05/16/24 10:30	05/17/24 18:27
570-184998-7	MW-2 (D)	Water	05/16/24 11:50	05/17/24 18:27
570-184998-8	MW-3 (D)	Water	05/16/24 14:25	05/17/24 18:27
570-184998-9	MW-4 (D)	Water	05/16/24 13:10	05/17/24 18:27
570-184998-10	MW-5 (D)	Water	05/16/24 15:25	05/17/24 18:27

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Lab #: 922619

Job #: 58669

CoreTrac: IS-75414

Sample Name: MW-1 (D)

Co. Lab#: 570-184998-6

Company: Eurofins Calscience

Container: Plastic Bottle

Field/Site Name: 57020136 / LOCSD

Date Sampled: 05/16/2024 10:30

Date Received: 05/21/2024

Date Reported: 06/14/2024

δ D of water	na
δ^{18} O of water	na
Tritium content of water	na
δ^{13} C of DIC	na
14 C content of DIC	na
δ^{15} N of nitrate	16.8‰ relative to Air
δ^{18} O of nitrate	13.3‰ relative to VSMOW
δ^{34} of sulfate	na
δ^{18} O of sulfate	na
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water





Lab #: 922620

Job #: 58669

CoreTrac: IS-75414

Sample Name: MW-2 (D)

Co. Lab#: 570-184998-7

Company: Eurofins Calscience

Container: Plastic Bottle

Field/Site Name: 57020136 / LOCSD

Date Sampled: 05/16/2024 11:50

Date Received: 05/21/2024

Date Reported: 06/14/2024

δ D of water	na
δ^{18} O of water	na
Tritium content of water	na
δ^{13} C of DIC	na
14 C content of DIC	na
δ^{15} N of nitrate	20.0‰ relative to Air
δ^{18} O of nitrate	15.9‰ relative to VSMOW
δ^{34} of sulfate	na
δ^{18} O of sulfate	na
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water





Lab #: 922621

Job #: 58669

CoreTrac: IS-75414

Sample Name: MW-3 (D)

Co. Lab#: 570-184998-8

Company: Eurofins Calscience

Container: Plastic Bottle

Field/Site Name: 57020136 / LOCSD

Date Sampled: 05/16/2024 14:25

Date Received: 05/21/2024

Date Reported: 06/14/2024

δ D of water	na
δ^{18} O of water	na
Tritium content of water	na
δ^{13} C of DIC	na
14 C content of DIC	na
δ^{15} N of nitrate	8.8‰ relative to Air
δ^{18} O of nitrate	6.6‰ relative to VSMOW
δ^{34} of sulfate	na
δ^{18} O of sulfate	na
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water





Lab #: 922622

Job #: 58669

CoreTrac: IS-75414

Sample Name: MW-4 (D)

Co. Lab#: 570-184998-9

Company: Eurofins Calscience

Container: Plastic Bottle

Field/Site Name: 57020136 / LOCSD

Date Sampled: 05/16/2024 13:10

Date Received: 05/21/2024

Date Reported: 06/14/2024

δ D of water	na
δ^{18} O of water	na
Tritium content of water	na
δ^{13} C of DIC	na
14 C content of DIC	na
δ^{15} N of nitrate	11.7‰ relative to Air
δ^{18} O of nitrate	3.8‰ relative to VSMOW
δ^{34} of sulfate	na
δ^{18} O of sulfate	na
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water





Lab #: 922623

Job #: 58669

CoreTrac: IS-75414

Sample Name: MW-5 (D)

Co. Lab#: 570-184998-10

Company: Eurofins Calscience

Container: Plastic Bottle

Field/Site Name: 57020136 / LOCSD

Date Sampled: 05/16/2024 15:25

Date Received: 05/21/2024

Date Reported: 06/14/2024

δ D of water	na
δ^{18} O of water	na
Tritium content of water	na
δ^{13} C of DIC	na
14 C content of DIC	na
δ^{15} N of nitrate	9.3‰ relative to Air
δ^{18} O of nitrate	7.8‰ relative to VSMOW
δ^{34} of sulfate	na
δ^{18} O of sulfate	na
Vacuum Distilled? *	No

Remarks:

nd = not detected. na = not analyzed.

*Indicates if vacuum distillation was utilized for hydrogen and oxygen isotopic analysis of water



Login Sample Receipt Checklist

Client: GSI Water Solutions, Inc

Job Number: 570-184998-1

Login Number: 184998

List Number: 1

Creator: Patel, Jayesh

List Source: Eurofins Calscience

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	

