



A Waters Company

Larry Lem
CalScience Environmental Laboratories
7440 Lincoln Way
Garden Grove, CA 92841-1427

WS-183



Final Report

WatR™ Supply Proficiency Testing

WatR™ Supply Study

Open Date: 10/07/11

Close Date: 11/21/11

Report Issued Date: 12/08/11



A Waters Company

December 8, 2011

Larry Lem
CalScience Environmental Laboratories
7440 Lincoln Way
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Enclosed is your final report for ERA's WS-183 WatR™Supply Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's WS-183 WatR™Supply Proficiency Testing (PT) study have been evaluated using the following tiered approach. If the analyte is listed in the current TNI Fields of Proficiency Testing (FoPT) tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the TNI FoPT tables. If the analyte is not included in the TNI FoPT tables, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

Please note the following changes to our final reports:

- At the request of the TNI Accreditation Council, we have included a Laboratory Exception Report that includes a list of all analytes reported with less than qualifiers when the assigned value was greater than "0." In addition, because we have received many requests from laboratories, this report also includes a list of all analytes with "Not Acceptable" evaluations.
- Some states have elected not to convert to the 2009 TNI Standards at this time. If you have released your results to a state that has retained the 2003 NELAC Evaluation Criteria, your final report will include a section that evaluates the results according to the 2003 Standard in addition to the 2009 TNI Standards.

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (QuiK™Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have well over three hundred years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be helpful in helping you work through your technical issues.

Thank you for your participation in ERA's WS-183 WatR™Supply Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink that reads "Jay R. McBurney". The signature is written in a cursive, flowing style.

Jay R. McBurney
Quality Program Manager

attachments
jrm



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
California	Fred Choske / 510-620-3175	All Analytes	2009 TNI
DoD EDQW	Fred S McLean / 843-764-7266	All Analytes	2009 TNI
EPA Region 9	Andrew Lincoff / 510-412-2330	All Analytes	2009 TNI
Guam	Rodolfo Paulino / 671-475-1655	All Analytes	2009 TNI
Hawaii	Richard Kiyokane / 808-453-6679	All Analytes	2009 TNI
Nevada	Sara Rairick / 775-687-9490	All Analytes	2003 NELAC
Oregon	Gary Ward / 503-693-4122	All Analytes	2009 TNI
Washington	Alan Rue / (360) 895-6178	All Analytes	2009 TNI
Perry Johnson Laboratory Accreditation, Inc.	Tracy Szerszen / 877-369-5227	All Analytes	2009 TNI

WS-183 Definitions & Study Discussion

Study Dates: 10/07/11 - 11/21/11

Report Issued: 12/08/11

WS Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the current TNI Fields of Proficiency Testing (FoPT) tables. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2009 TNI Standards. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT tables, or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

- | | |
|----------------|---|
| Acceptable | = Reported Value falls within the Acceptance Limits. |
| Not Acceptable | = Reported Value falls outside the Acceptance Limits. |
| No Evaluation | = Reported Value cannot be evaluated. |
| Not Reported | = No Value reported. |

The Method Description is the method the laboratory reported to ERA.

WS Study Discussion

ERA's WS-183 WatR™ Supply Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standards and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) tables.

ERA's WS-183 WatR™ Supply study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes in the standards met the acceptance criteria contained in the 2009 TNI PT Standard and the criteria contained in the most current TNI FoPT tables.

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's WS-183 WatR™ Supply study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's WatR™ Supply Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.





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WS-183 Laboratory Exception Report

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C052701
12/08/11
10/07/11 - 11/21/11

2009 TNI Evaluation Check: There are no values reported with < where the assigned value was greater than 0.

2009 TNI Not Acceptable Evaluations

NELAC Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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WS Regulated Volatiles (cat# 840)

4455	Carbon tetrachloride	µg/L	23.9	19.6	15.7 - 23.5	Not Acceptable	EPA 524.2 4.1 1995
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01



Final Report Results For Laboratory CalScience Environmental Laboratories



2009 TNI Evaluation Report

Study: **WS-183**

ERA Customer Number: **C052701**

Laboratory Name: **Calscience
Environmental
Laboratories**

Inorganic Results





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WS-183 2009 TNI Evaluation Final Complete Report

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NELAC Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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WS Hardness (cat# 555)

1035	Calcium	mg/L	72.9	73.6	65.6 - 81.3	Acceptable	EPA 200.7	11/10/2011	-0.682	74.7	2.68	
1085	Magnesium	mg/L	15.2	15.3	13.8 - 17.0	Acceptable	EPA 200.7 5 1998	11/10/2011	-0.238	15.4	0.702	
1155	Sodium	mg/L	18.9	17.9	15.8 - 19.7	Acceptable	EPA 200.7 5 1998	11/10/2011	0.935	18.1	0.879	
1550	Calcium Hardness as CaCO3	mg/L	181	184	164 - 203	Acceptable	SM3500Ca B	11/9/2011	-0.885	187	7.05	
1755	Total Hardness as CaCO3	mg/L	249	247	221 - 273	Acceptable	SM2340C online	11/9/2011	-0.174	250	7.17	

WS Hardness (cat# 555)

1035	Calcium	mg/L	72.9	73.6	65.6 - 81.3	Acceptable	SM3120B	11/10/2011	-0.682	74.7	2.68	
1085	Magnesium	mg/L	15.2	15.3	13.8 - 17.0	Acceptable	SM3120B online	11/10/2011	-0.238	15.4	0.702	
1155	Sodium	mg/L	18.9	17.9	15.8 - 19.7	Acceptable	SM3120B online	11/10/2011	0.935	18.1	0.879	
1550	Calcium Hardness as CaCO3	mg/L	181	184	164 - 203	Acceptable	EPA 215.2 1978	11/9/2011	-0.885	187	7.05	
1755	Total Hardness as CaCO3	mg/L	249	247	221 - 273	Acceptable	EPA 130.2 1978	11/9/2011	-0.174	250	7.17	

WS Hardness (cat# 555)

1035	Calcium	mg/L		73.6	65.6 - 81.3	Not Reported				74.7	2.68	
1085	Magnesium	mg/L		15.3	13.8 - 17.0	Not Reported				15.4	0.702	
1155	Sodium	mg/L		17.9	15.8 - 19.7	Not Reported				18.1	0.879	
1550	Calcium Hardness as CaCO3	mg/L	182	184	164 - 203	Acceptable	EPA 200.7 5 1998	11/10/2011	-0.743	187	7.05	
1755	Total Hardness as CaCO3	mg/L	245	247	221 - 273	Acceptable	EPA 200.7 5 1998	11/10/2011	-0.731	250	7.17	

WS Hardness (cat# 555)

1035	Calcium	mg/L		73.6	65.6 - 81.3	Not Reported				74.7	2.68	
1085	Magnesium	mg/L		15.3	13.8 - 17.0	Not Reported				15.4	0.702	
1155	Sodium	mg/L		17.9	15.8 - 19.7	Not Reported				18.1	0.879	
1550	Calcium Hardness as CaCO3	mg/L	182	184	164 - 203	Acceptable	EPA 6010B	11/10/2011	-0.743	187	7.05	
1755	Total Hardness as CaCO3	mg/L	245	247	221 - 273	Acceptable	EPA 6010B	11/10/2011	-0.731	250	7.17	





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NELAC Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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WS Inorganics (cat# 591)

1505	Alkalinity as CaCO3	mg/L	72.0	71.2	64.1 - 78.3	Acceptable	SM2320B online	11/1/2011	-0.307	72.8	2.67	
1575	Chloride	mg/L	51.2	52.0	46.8 - 57.2	Acceptable	SM4500Cl- C TIT online	10/28/2011	-0.2	51.7	2.36	
1610	Conductivity at 25°C	µmhos/cm	395	385	346 - 424	Acceptable	SM2510B online	10/22/2011	0.209	394	7.14	
1730	Fluoride	mg/L	7.39	7.26	6.53 - 7.99	Acceptable	SM4500F- C online	11/5/2011	0.627	7.17	0.346	
1820	Nitrate + Nitrite as N	mg/L	3.40	3.53	3.11 - 3.88	Acceptable	SM4500NO3- E online	10/25/2011	-0.331	3.45	0.143	
1810	Nitrate as N	mg/L	3.40	3.53	3.18 - 3.88	Acceptable	SM4500NO3- E online	10/25/2011	-0.278	3.44	0.153	
1125	Potassium	mg/L	28.0	24.8	21.4 - 28.4	Acceptable	EPA 200.7 5 1998	11/10/2011	2.67	24.4	1.36	
2000	Sulfate	mg/L	8.33	8.24	6.00 - 9.98	Acceptable	ASTM D516-02 2002	10/31/2011	0.945	7.92	0.430	
1955	Total Dissolved Solids at 180°C	mg/L	302	289	189 - 389	Acceptable	SM2540C online	11/1/2011	0.793	289	16.4	

WS Inorganics (cat# 591)

1505	Alkalinity as CaCO3	mg/L	72.0	71.2	64.1 - 78.3	Acceptable	EPA 310.1 1978	11/1/2011	-0.307	72.8	2.67	
1575	Chloride	mg/L	51.4	52.0	46.8 - 57.2	Acceptable	EPA 300.0 2.1 1993	10/25/2011	-0.115	51.7	2.36	
1610	Conductivity at 25°C	µmhos/cm	395	385	346 - 424	Acceptable	EPA 120.1 1982	10/22/2011	0.209	394	7.14	
1730	Fluoride	mg/L	7.19	7.26	6.53 - 7.99	Acceptable	EPA 300.0 2.1 1993	10/25/2011	0.0484	7.17	0.346	
1820	Nitrate + Nitrite as N	mg/L	3.48	3.53	3.11 - 3.88	Acceptable	EPA 300.0 2.1 1993	10/25/2011	0.228	3.45	0.143	
1810	Nitrate as N	mg/L	3.48	3.53	3.18 - 3.88	Acceptable	EPA 300.0 2.1 1993	10/25/2011	0.243	3.44	0.153	
1125	Potassium	mg/L	28.0	24.8	21.4 - 28.4	Acceptable	EPA 6010B 1996	11/10/2011	2.67	24.4	1.36	
2000	Sulfate	mg/L	8.06	8.24	6.00 - 9.98	Acceptable	EPA 300.0 2.1 1993	10/25/2011	0.317	7.92	0.430	
1955	Total Dissolved Solids at 180°C	mg/L		289	189 - 389	Not Reported				289	16.4	





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WS Inorganics (cat# 591)

1505	Alkalinity as CaCO3	mg/L		71.2	64.1 - 78.3	Not Reported				72.8	2.67	
1575	Chloride	mg/L	51.2	52.0	46.8 - 57.2	Acceptable	EPA 325.3 1982	10/28/2011	-0.2	51.7	2.36	
1610	Conductivity at 25°C	µmhos/cm		385	346 - 424	Not Reported				394	7.14	
1730	Fluoride	mg/L	7.39	7.26	6.53 - 7.99	Acceptable	EPA 340.2 1974	10/25/2011	0.627	7.17	0.346	
1820	Nitrate + Nitrite as N	mg/L	3.40	3.53	3.11 - 3.88	Acceptable	EPA 353.3	10/25/2011	-0.331	3.45	0.143	
1810	Nitrate as N	mg/L	3.40	3.53	3.18 - 3.88	Acceptable	EPA 353.3 1974	10/25/2011	-0.278	3.44	0.153	
1125	Potassium	mg/L	28.0	24.8	21.4 - 28.4	Acceptable	SM3120B online	11/10/2011	2.67	24.4	1.36	
2000	Sulfate	mg/L	8.33	8.24	6.00 - 9.98	Acceptable	EPA 375.4 1978	10/31/2011	0.945	7.92	0.430	
1955	Total Dissolved Solids at 180°C	mg/L	302	289	189 - 389	Acceptable	EPA 160.1 1979	11/1/2011	0.793	289	16.4	

WS Inorganics (cat# 591)

1505	Alkalinity as CaCO3	mg/L		71.2	64.1 - 78.3	Not Reported				72.8	2.67	
1575	Chloride	mg/L	51.4	52.0	46.8 - 57.2	Acceptable	SM4110B online	10/25/2011	-0.115	51.7	2.36	
1610	Conductivity at 25°C	µmhos/cm		385	346 - 424	Not Reported				394	7.14	
1730	Fluoride	mg/L	7.19	7.26	6.53 - 7.99	Acceptable	SM4110B online	10/25/2011	0.0484	7.17	0.346	
1820	Nitrate + Nitrite as N	mg/L	3.48	3.53	3.11 - 3.88	Acceptable	SM4110B online	10/25/2011	0.228	3.45	0.143	
1810	Nitrate as N	mg/L	3.48	3.53	3.18 - 3.88	Acceptable	SM4110B online	10/25/2011	0.243	3.44	0.153	
1125	Potassium	mg/L		24.8	21.4 - 28.4	Not Reported				24.4	1.36	
2000	Sulfate	mg/L	8.06	8.24	6.00 - 9.98	Acceptable	SM4110B online	10/25/2011	0.317	7.92	0.430	
1955	Total Dissolved Solids at 180°C	mg/L		289	189 - 389	Not Reported				289	16.4	

WS pH (cat# 552)

1900	pH	S.U.	7.53	7.36	7.16 - 7.56	Acceptable	EPA 150.1 1982	10/20/2011	3.52	7.35	0.0515	
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WS pH (cat# 552)

1900	pH	S.U.	7.53	7.36	7.16 - 7.56	Acceptable	SM4500H+ B online	10/20/2011	3.52	7.35	0.0515	
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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NELAC Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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WS Metals (cat# 590)

1000	Aluminum	µg/L	1140	1170	1000 - 1300	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.284	1160	62.8	
1005	Antimony	µg/L	31.6	38.3	26.8 - 49.8	Acceptable	EPA 200.7 5 1998	11/11/2011	-2.75	38.3	2.44	
1010	Arsenic	µg/L	43.2	43.3	30.3 - 56.3	Acceptable	EPA 200.7 5 1998	11/11/2011	0.0349	43.1	2.70	
1015	Barium	µg/L	958	918	780 - 1060	Acceptable	EPA 200.7 5 1998	11/11/2011	1.02	918	38.7	
1020	Beryllium	µg/L	9.91	9.60	8.16 - 11.0	Acceptable	EPA 200.7 5 1998	11/11/2011	0.824	9.54	0.447	
1025	Boron	µg/L	1610	1610	1410 - 1780	Acceptable	EPA 200.7 5 1998	11/11/2011	0.00480	1610	70.1	
1030	Cadmium	µg/L	35.5	35.6	28.5 - 42.7	Acceptable	EPA 200.7 5 1998	11/11/2011	0.560	34.8	1.28	
1040	Chromium	µg/L	56.5	56.3	47.8 - 64.7	Acceptable	EPA 200.7 5 1998	11/11/2011	0.0813	56.3	1.99	
1055	Copper	µg/L	1670	1650	1480 - 1820	Acceptable	EPA 200.7 5 1998	11/11/2011	0.496	1640	63.7	
1070	Iron	µg/L	267	263	221 - 300	Acceptable	EPA 200.7 5 1998	11/11/2011	0.0230	267	14.0	
1075	Lead	µg/L	83.4	81.3	56.9 - 106	Acceptable	EPA 200.7 5 1998	11/11/2011	0.597	80.9	4.16	
1090	Manganese	µg/L	609	582	524 - 640	Acceptable	EPA 200.7 5 1998	11/11/2011	1.50	578	20.4	
1100	Molybdenum	µg/L	22.7	22.8	18.8 - 26.4	Acceptable	EPA 200.7 5 1998	11/11/2011	0.225	22.5	0.881	
1105	Nickel	µg/L	469	453	385 - 521	Acceptable	EPA 200.7 5 1998	11/11/2011	1.14	449	17.7	
1140	Selenium	µg/L	90.9	93.4	74.7 - 112	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.147	91.5	4.40	
1150	Silver	µg/L	205	206	182 - 228	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.169	207	10.0	
1165	Thallium	µg/L	6.5	6.62	4.63 - 8.61	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.0712	6.54	0.503	
1185	Vanadium	µg/L	473	480	432 - 528	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.139	475	14.6	
1190	Zinc	µg/L	780	764	688 - 840	Acceptable	EPA 200.7 5 1998	11/11/2011	0.405	768	29.6	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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WS Metals (cat# 590)												
1000	Aluminum	µg/L	1140	1170	1000 - 1300	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.284	1160	62.8	
1005	Antimony	µg/L	31.6	38.3	26.8 - 49.8	Acceptable	EPA 6010B 2 1996	11/11/2011	-2.75	38.3	2.44	
1010	Arsenic	µg/L	43.2	43.3	30.3 - 56.3	Acceptable	EPA 6010B 2 1996	11/11/2011	0.0349	43.1	2.70	
1015	Barium	µg/L	958	918	780 - 1060	Acceptable	EPA 6010B 2 1996	11/11/2011	1.02	918	38.7	
1020	Beryllium	µg/L	9.91	9.60	8.16 - 11.0	Acceptable	EPA 6010B 2 1996	11/11/2011	0.824	9.54	0.447	
1025	Boron	µg/L	1610	1610	1410 - 1780	Acceptable	EPA 6010B 2 1996	11/11/2011	0.00480	1610	70.1	
1030	Cadmium	µg/L	35.5	35.6	28.5 - 42.7	Acceptable	EPA 6010B 2 1996	11/11/2011	0.560	34.8	1.28	
1040	Chromium	µg/L	56.5	56.3	47.8 - 64.7	Acceptable	EPA 6010B 2 1996	11/11/2011	0.0813	56.3	1.99	
1055	Copper	µg/L	1670	1650	1480 - 1820	Acceptable	EPA 6010B 2 1996	11/11/2011	0.496	1640	63.7	
1070	Iron	µg/L	267	263	221 - 300	Acceptable	EPA 6010B 2 1996	11/11/2011	0.0230	267	14.0	
1075	Lead	µg/L	83.4	81.3	56.9 - 106	Acceptable	EPA 6010B 2 1996	11/11/2011	0.597	80.9	4.16	
1090	Manganese	µg/L	609	582	524 - 640	Acceptable	EPA 6010B 2 1996	11/11/2011	1.50	578	20.4	
1100	Molybdenum	µg/L	22.7	22.8	18.8 - 26.4	Acceptable	EPA 6010B 2 1996	11/11/2011	0.225	22.5	0.881	
1105	Nickel	µg/L	469	453	385 - 521	Acceptable	EPA 6010B 2 1996	11/11/2011	1.14	449	17.7	
1140	Selenium	µg/L	90.9	93.4	74.7 - 112	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.147	91.5	4.40	
1150	Silver	µg/L	205	206	182 - 228	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.169	207	10.0	
1165	Thallium	µg/L	6.5	6.62	4.63 - 8.61	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.0712	6.54	0.503	
1185	Vanadium	µg/L	473	480	432 - 528	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.139	475	14.6	
1190	Zinc	µg/L	780	764	688 - 840	Acceptable	EPA 6010B 2 1996	11/11/2011	0.405	768	29.6	





A Waters Company

WS-183 2009 TNI Evaluation Final Complete Report

Larry Lem
 QA Manager
 Calscience Environmental Laboratories
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 (714) 895-5494

EPA ID:
 ERA Customer Number:
 Report Issued:
 Study Dates:

CA00111
 C052701
 12/08/11
 10/07/11 - 11/21/11

NELAC Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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WS Metals (cat# 590)

1000	Aluminum	µg/L	1140	1170	1000 - 1300	Acceptable	SM3120B	10/11/2011	-0.284	1160	62.8	
1005	Antimony	µg/L	31.6	38.3	26.8 - 49.8	Acceptable	SM3120B	10/11/2011	-2.75	38.3	2.44	
1010	Arsenic	µg/L	43.2	43.3	30.3 - 56.3	Acceptable	SM3120B	10/11/2011	0.0349	43.1	2.70	
1015	Barium	µg/L	958	918	780 - 1060	Acceptable	SM3120B	10/11/2011	1.02	918	38.7	
1020	Beryllium	µg/L	9.91	9.60	8.16 - 11.0	Acceptable	SM3120B	10/11/2011	0.824	9.54	0.447	
1025	Boron	µg/L	1610	1610	1410 - 1780	Acceptable	SM3120B	10/11/2011	0.00480	1610	70.1	
1030	Cadmium	µg/L	35.5	35.6	28.5 - 42.7	Acceptable	SM3120B	10/11/2011	0.560	34.8	1.28	
1040	Chromium	µg/L	56.5	56.3	47.8 - 64.7	Acceptable	SM3120B	10/11/2011	0.0813	56.3	1.99	
1055	Copper	µg/L	1670	1650	1480 - 1820	Acceptable	SM3120B	10/11/2011	0.496	1640	63.7	
1070	Iron	µg/L	267	263	221 - 300	Acceptable	SM3120B	10/11/2011	0.0230	267	14.0	
1075	Lead	µg/L	83.4	81.3	56.9 - 106	Acceptable	SM3120B	10/11/2011	0.597	80.9	4.16	
1090	Manganese	µg/L	609	582	524 - 640	Acceptable	SM3120B	10/11/2011	1.50	578	20.4	
1100	Molybdenum	µg/L	22.7	22.8	18.8 - 26.4	Acceptable	SM3120B	10/11/2011	0.225	22.5	0.881	
1105	Nickel	µg/L	469	453	385 - 521	Acceptable	SM3120B	10/11/2011	1.14	449	17.7	
1140	Selenium	µg/L	90.9	93.4	74.7 - 112	Acceptable	SM3120B	10/11/2011	-0.147	91.5	4.40	
1150	Silver	µg/L	205	206	182 - 228	Acceptable	SM3120B	10/11/2011	-0.169	207	10.0	
1165	Thallium	µg/L	6.5	6.62	4.63 - 8.61	Acceptable	SM3120B	10/11/2011	-0.0712	6.54	0.503	
1185	Vanadium	µg/L	473	480	432 - 528	Acceptable	SM3120B	10/11/2011	-0.139	475	14.6	
1190	Zinc	µg/L	780	764	688 - 840	Acceptable	SM3120B	10/11/2011	0.405	768	29.6	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1160	1170	1000 - 1300	Acceptable	EPA 200.8	11/3/2011	0.0348	1160	62.8	
1005	Antimony	µg/L	36.5	38.3	26.8 - 49.8	Acceptable	EPA 200.8	11/3/2011	-0.748	38.3	2.44	
1010	Arsenic	µg/L	41.9	43.3	30.3 - 56.3	Acceptable	EPA 200.8	11/3/2011	-0.447	43.1	2.70	
1015	Barium	µg/L	906	918	780 - 1060	Acceptable	EPA 200.8	11/3/2011	-0.322	918	38.7	
1020	Beryllium	µg/L	9.51	9.60	8.16 - 11.0	Acceptable	EPA 200.8	11/3/2011	-0.0695	9.54	0.447	
1025	Boron	µg/L	1660	1610	1410 - 1780	Acceptable	EPA 200.8	11/3/2011	0.718	1610	70.1	
1030	Cadmium	µg/L	33.6	35.6	28.5 - 42.7	Acceptable	EPA 200.8	11/3/2011	-0.919	34.8	1.28	
1040	Chromium	µg/L	54.8	56.3	47.8 - 64.7	Acceptable	EPA 200.8	11/3/2011	-0.771	56.3	1.99	
1055	Copper	µg/L	1630	1650	1480 - 1820	Acceptable	EPA 200.8	11/3/2011	-0.133	1640	63.7	
1070	Iron	µg/L	269	263	221 - 300	Acceptable	EPA 200.8	11/3/2011	0.166	267	14.0	
1075	Lead	µg/L	77.6	81.3	56.9 - 106	Acceptable	EPA 200.8	11/3/2011	-0.796	80.9	4.16	
1090	Manganese	µg/L	561	582	524 - 640	Acceptable	EPA 200.8	11/3/2011	-0.857	578	20.4	
1100	Molybdenum	µg/L	21.8	22.8	18.8 - 26.4	Acceptable	EPA 200.8	11/3/2011	-0.796	22.5	0.881	
1105	Nickel	µg/L	441	453	385 - 521	Acceptable	EPA 200.8	11/3/2011	-0.44	449	17.7	
1140	Selenium	µg/L	88.8	93.4	74.7 - 112	Acceptable	EPA 200.8	11/3/2011	-0.624	91.5	4.40	
1150	Silver	µg/L	194	206	182 - 228	Acceptable	EPA 200.8	11/3/2011	-1.27	207	10.0	
1165	Thallium	µg/L	6.19	6.62	4.63 - 8.61	Acceptable	EPA 200.8	11/3/2011	-0.687	6.54	0.503	
1185	Vanadium	µg/L	450	480	432 - 528	Acceptable	EPA 200.8	11/3/2011	-1.71	475	14.6	
1190	Zinc	µg/L	770	764	688 - 840	Acceptable	EPA 200.8	11/3/2011	0.0673	768	29.6	





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1160	1170	1000 - 1300	Acceptable	EPA 6020A	11/3/2011	0.0348	1160	62.8	
1005	Antimony	µg/L	36.5	38.3	26.8 - 49.8	Acceptable	EPA 6020A	11/3/2011	-0.748	38.3	2.44	
1010	Arsenic	µg/L	41.9	43.3	30.3 - 56.3	Acceptable	EPA 6020A	11/3/2011	-0.447	43.1	2.70	
1015	Barium	µg/L	906	918	780 - 1060	Acceptable	EPA 6020A	11/3/2011	-0.322	918	38.7	
1020	Beryllium	µg/L	9.51	9.60	8.16 - 11.0	Acceptable	EPA 6020A	11/3/2011	-0.0695	9.54	0.447	
1025	Boron	µg/L	1660	1610	1410 - 1780	Acceptable	EPA 6020A	11/3/2011	0.718	1610	70.1	
1030	Cadmium	µg/L	33.6	35.6	28.5 - 42.7	Acceptable	EPA 6020A	11/3/2011	-0.919	34.8	1.28	
1040	Chromium	µg/L	54.8	56.3	47.8 - 64.7	Acceptable	EPA 6020A	11/3/2011	-0.771	56.3	1.99	
1055	Copper	µg/L	1630	1650	1480 - 1820	Acceptable	EPA 6020A	11/3/2011	-0.133	1640	63.7	
1070	Iron	µg/L	269	263	221 - 300	Acceptable	EPA 6020A	11/3/2011	0.166	267	14.0	
1075	Lead	µg/L	77.6	81.3	56.9 - 106	Acceptable	EPA 6020A	11/3/2011	-0.796	80.9	4.16	
1090	Manganese	µg/L	561	582	524 - 640	Acceptable	EPA 6020A	11/3/2011	-0.857	578	20.4	
1100	Molybdenum	µg/L	21.8	22.8	18.8 - 26.4	Acceptable	EPA 6020A	11/3/2011	-0.796	22.5	0.881	
1105	Nickel	µg/L	441	453	385 - 521	Acceptable	EPA 6020A	11/3/2011	-0.44	449	17.7	
1140	Selenium	µg/L	88.8	93.4	74.7 - 112	Acceptable	EPA 6020A	11/3/2011	-0.624	91.5	4.40	
1150	Silver	µg/L	194	206	182 - 228	Acceptable	EPA 6020A	11/3/2011	-1.27	207	10.0	
1165	Thallium	µg/L	6.19	6.62	4.63 - 8.61	Acceptable	EPA 6020A	11/3/2011	-0.687	6.54	0.503	
1185	Vanadium	µg/L	450	480	432 - 528	Acceptable	EPA 6020A	11/3/2011	-1.71	475	14.6	
1190	Zinc	µg/L	770	764	688 - 840	Acceptable	EPA 6020A	11/3/2011	0.0673	768	29.6	





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1160	1170	1000 - 1300	Acceptable	SM3125B	11/3/2011	0.0348	1160	62.8	
1005	Antimony	µg/L	36.5	38.3	26.8 - 49.8	Acceptable	SM3125B	11/3/2011	-0.748	38.3	2.44	
1010	Arsenic	µg/L	41.9	43.3	30.3 - 56.3	Acceptable	SM3125B	11/3/2011	-0.447	43.1	2.70	
1015	Barium	µg/L	906	918	780 - 1060	Acceptable	SM3125B	11/3/2011	-0.322	918	38.7	
1020	Beryllium	µg/L	9.51	9.60	8.16 - 11.0	Acceptable	SM3125B	11/3/2011	-0.0695	9.54	0.447	
1025	Boron	µg/L	1660	1610	1410 - 1780	Acceptable	SM3125B	11/3/2011	0.718	1610	70.1	
1030	Cadmium	µg/L	33.6	35.6	28.5 - 42.7	Acceptable	SM3125B	11/3/2011	-0.919	34.8	1.28	
1040	Chromium	µg/L	54.8	56.3	47.8 - 64.7	Acceptable	SM3125B	11/3/2011	-0.771	56.3	1.99	
1055	Copper	µg/L	1630	1650	1480 - 1820	Acceptable	SM3125B	11/3/2011	-0.133	1640	63.7	
1070	Iron	µg/L	269	263	221 - 300	Acceptable	SM3125B	11/3/2011	0.166	267	14.0	
1075	Lead	µg/L	77.6	81.3	56.9 - 106	Acceptable	SM3125B	11/3/2011	-0.796	80.9	4.16	
1090	Manganese	µg/L	561	582	524 - 640	Acceptable	SM3125B	11/3/2011	-0.857	578	20.4	
1100	Molybdenum	µg/L	21.8	22.8	18.8 - 26.4	Acceptable	SM3125B	11/3/2011	-0.796	22.5	0.881	
1105	Nickel	µg/L	441	453	385 - 521	Acceptable	SM3125B	11/3/2011	-0.44	449	17.7	
1140	Selenium	µg/L	88.8	93.4	74.7 - 112	Acceptable	SM3125B	11/3/2011	-0.624	91.5	4.40	
1150	Silver	µg/L	194	206	182 - 228	Acceptable	SM3125B	11/3/2011	-1.27	207	10.0	
1165	Thallium	µg/L	6.19	6.62	4.63 - 8.61	Acceptable	SM3125B	11/3/2011	-0.687	6.54	0.503	
1185	Vanadium	µg/L	450	480	432 - 528	Acceptable	SM3125B	11/3/2011	-1.71	475	14.6	
1190	Zinc	µg/L	770	764	688 - 840	Acceptable	SM3125B	11/3/2011	0.0673	768	29.6	

WS Mercury (cat# 551)

1095	Mercury	µg/L	7.08	6.32	4.42 - 8.22	Acceptable	EPA 1631E 2004	11/5/2011	0.893	6.52	0.628	
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WS Mercury (cat# 551)

1095	Mercury	µg/L	6.50	6.32	4.42 - 8.22	Acceptable	EPA 245.1 3 1994	11/2/2011	-0.0312	6.52	0.628	
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WS Hexavalent Chromium (cat# 854)

1045	Hexavalent Chromium	µg/L	35.0	33.5	30.1 - 36.8	Acceptable	SM3500Cr B online	10/20/2011	1.45	33.8	0.810	
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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WS Hexavalent Chromium (cat# 854)												
1045	Hexavalent Chromium	µg/L	34.9	33.5	30.1 - 36.8	Acceptable	EPA 7196A 1 1992	10/20/2011	1.33	33.8	0.810	
WS Hexavalent Chromium (cat# 854)												
1045	Hexavalent Chromium	µg/L	33.7	33.5	30.1 - 36.8	Acceptable	EPA 218.6 3.3 1994	10/20/2011	-0.15	33.8	0.810	
WS Hexavalent Chromium (cat# 854)												
1045	Hexavalent Chromium	µg/L	33.7	33.5	30.1 - 36.8	Acceptable	EPA 7199 1996	10/20/2011	-0.15	33.8	0.810	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	12.3	12.9	10.9 - 14.7	Acceptable	SM3120B	11/11/2011	-0.753	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	12.3	12.9	10.9 - 14.7	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.753	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	12.3	12.9	10.9 - 14.7	Acceptable	EPA 6010B 1996	11/11/2011	-0.753	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	13.4	12.9	10.9 - 14.7	Acceptable	EPA 200.8 5.5 1998	11/3/2011	1.20	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	13.4	12.9	10.9 - 14.7	Acceptable	EPA 6020 1974	11/3/2011	1.20	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	13.4	12.9	10.9 - 14.7	Acceptable	SM3125B	11/3/2011	1.20	12.7	0.562	
WS Inorganic Disinfection #1 (cat# 5270)												
1570	Chlorate	µg/L	129	135	111 - 155	Acceptable	EPA 300.1 1 1997	10/20/2011	-0.5	133	8.64	
1595	Chlorite	µg/L	556	547	383 - 711	Acceptable	EPA 300.1 1 1997	10/20/2011	0.181	546	54.2	
WS Inorganic Disinfection #2 (cat# 5260)												
1535	Bromate	µg/L		21.4	15.0 - 27.8	Not Reported				21.0	3.07	
1540	Bromide	µg/L	327	327	252 - 405	Acceptable	EPA 300.0 2.1 1993	10/25/2011	-0.0753	328	21.0	
WS Inorganic Disinfection #2 (cat# 5260)												
1535	Bromate	µg/L		21.4	15.0 - 27.8	Not Reported				21.0	3.07	
1540	Bromide	µg/L	327	327	252 - 405	Acceptable	SM 4500Br ⁻ B 21st ED	10/25/2011	-0.0753	328	21.0	





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WS Inorganic Disinfection #2 (cat# 5260)

1535	Bromate	µg/L		21.4	15.0 - 27.8	Not Reported				21.0	3.07	
1540	Bromide	µg/L	334	327	252 - 405	Acceptable	EPA 300.0 2.1 1993	10/20/2011	0.259	328	21.0	

WS Inorganic Disinfection #2 (cat# 5260)

1535	Bromate	µg/L		21.4	15.0 - 27.8	Not Reported				21.0	3.07	
1540	Bromide	µg/L	334	327	252 - 405	Acceptable	SM4110B online	10/20/2011	0.259	328	21.0	

WS Inorganic Disinfection #2 (cat# 5260)

1535	Bromate	µg/L	20.0	21.4	15.0 - 27.8	Acceptable	EPA 300.1 1 1997	10/20/2011	-0.323	21.0	3.07	
1540	Bromide	µg/L	336	327	252 - 405	Acceptable	EPA 300.1 1 1997	10/20/2011	0.354	328	21.0	

WS Nitrite (cat# 594)

1840	Nitrite as N	mg/L	1.37	1.34	1.14 - 1.54	Acceptable	EPA 354.1	10/27/2011	0.606	1.33	0.0592	
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WS Nitrite (cat# 594)

1840	Nitrite as N	mg/L	1.37	1.34	1.14 - 1.54	Acceptable	SM4500NO2- B online	10/27/2011	0.606	1.33	0.0592	
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WS Nitrite (cat# 594)

1840	Nitrite as N	mg/L	1.37	1.34	1.14 - 1.54	Acceptable	EPA 300.0 2.1 1993	10/27/2011	0.606	1.33	0.0592	
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WS Nitrite (cat# 594)

1840	Nitrite as N	mg/L	1.37	1.34	1.14 - 1.54	Acceptable	SM4110B online	10/27/2011	0.606	1.33	0.0592	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	1.99	1.96	1.71 - 2.23	Acceptable	EPA 365.1 2 1993	10/24/2011	0.213	1.97	0.0884	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	2.08	1.96	1.71 - 2.23	Acceptable	EPA 365.3 1978	10/24/2011	1.23	1.97	0.0884	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	2.08	1.96	1.71 - 2.23	Acceptable	SM4500PB E online	10/24/2011	1.23	1.97	0.0884	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	2.04	1.96	1.71 - 2.23	Acceptable	EPA 300.0 2.1 1993	10/26/2011	0.779	1.97	0.0884	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	2.04	1.96	1.71 - 2.23	Acceptable	SM4110B online	10/26/2011	0.779	1.97	0.0884	
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WS Residual Chlorine (cat# 593)												
1945	Free Residual Chlorine	mg/L	2.36	2.42	2.00 - 2.84	Acceptable	SM4500CI G online	11/9/2011	0.376	2.29	0.177	
1940	Total Residual Chlorine	mg/L	2.42	2.42	2.05 - 2.78	Acceptable	SM4500CI G online	11/9/2011	0.250	2.37	0.204	
WS Residual Chlorine (cat# 593)												
1945	Free Residual Chlorine	mg/L	2.36	2.42	2.00 - 2.84	Acceptable	SM4500CI F online	11/9/2011	0.376	2.29	0.177	
1940	Total Residual Chlorine	mg/L	2.42	2.42	2.05 - 2.78	Acceptable	SM4500CI F online	11/9/2011	0.250	2.37	0.204	
WS Residual Chlorine (cat# 593)												
1945	Free Residual Chlorine	mg/L	2.36	2.42	2.00 - 2.84	Acceptable	EPA 330.4 1978	11/9/2011	0.376	2.29	0.177	
1940	Total Residual Chlorine	mg/L	2.42	2.42	2.05 - 2.78	Acceptable	EPA 330.4 1978	11/9/2011	0.250	2.37	0.204	
WS Cyanide (cat# 556)												
1635	Cyanide	mg/L	0.384	0.372	0.279 - 0.465	Acceptable	EPA 335.2 1980	10/22/2011	0.412	0.368	0.0392	
WS Cyanide (cat# 556)												
1635	Cyanide	mg/L	0.384	0.372	0.279 - 0.465	Acceptable	SM4500CN E online	10/22/2011	0.412	0.368	0.0392	
WS Organic Carbon (cat# 557)												
1710	Dissolved Organic Carbon (DOC)	mg/L	2.96	2.68	2.20 - 3.20	Acceptable	SM5310D online	11/15/2011	1.22	2.75	0.172	
2040	Total Organic Carbon (TOC)	mg/L	2.96	2.68	2.20 - 3.20	Acceptable	SM5310D online	11/15/2011	1.18	2.76	0.170	
WS Organic Carbon (cat# 557)												
1710	Dissolved Organic Carbon (DOC)	mg/L	2.96	2.68	2.20 - 3.20	Acceptable	EPA 415.1 1974	11/15/2011	1.22	2.75	0.172	
2040	Total Organic Carbon (TOC)	mg/L	2.96	2.68	2.20 - 3.20	Acceptable	EPA 415.1 1974	11/15/2011	1.18	2.76	0.170	
WS Organic Carbon (cat# 557)												
1710	Dissolved Organic Carbon (DOC)	mg/L	2.97	2.68	2.20 - 3.20	Acceptable	SM5310B online	11/15/2011	1.28	2.75	0.172	
2040	Total Organic Carbon (TOC)	mg/L	2.97	2.68	2.20 - 3.20	Acceptable	SM5310B online	11/15/2011	1.23	2.76	0.170	
WS Perchlorate (cat# 903)												
1895	Perchlorate	µg/L	12.6	12.1	9.99 - 13.3	Acceptable	EPA 331.0 1.0 1/1/2005	10/21/2011	0.652	12.0	0.978	
WS Perchlorate (cat# 903)												
1895	Perchlorate	µg/L	11.2	12.1	9.99 - 13.3	Acceptable	EPA 314.0 1 1999	10/21/2011	-0.78	12.0	0.978	





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WS Perchlorate (cat# 903)												
1895	Perchlorate	µg/L	12.6	12.1	9.99 - 13.3	Acceptable	EPA 6850 2007	10/21/2011	0.652	12.0	0.978	
WS Silica (cat# 902)												
1990	Silica as SiO2	mg/L	12.8	13.0	11.0 - 15.0	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.112	12.9	0.676	
WS Silica (cat# 902)												
1990	Silica as SiO2	mg/L	12.8	13.0	11.0 - 15.0	Acceptable	EPA 6010B 1996	11/11/2011	-0.112	12.9	0.676	
WS Silica (cat# 902)												
1990	Silica as SiO2	mg/L	12.8	13.0	11.0 - 15.0	Acceptable	SM3120B 21st ED 2005	11/11/2011	-0.112	12.9	0.676	
WS Surfactants - MBAS (cat# 901)												
2025	Surfactants - MBAS	mg/L	0.172	0.160	0.113 - 0.211	Acceptable	SM5540C online	11/7/2011	0.0746	0.169	0.0407	
WS Surfactants - MBAS (cat# 901)												
2025	Surfactants - MBAS	mg/L	0.172	0.160	0.113 - 0.211	Acceptable	EPA 425.1 1971	11/7/2011	0.0746	0.169	0.0407	
WS Corrosivity (cat# 900)												
1620	Corrosivity	S.I. @ 20°C	+1.48	1.71	1.31 - 2.11	Acceptable	SM2330B 18th ED 1992	11/1/2011	-0.795	1.56	0.0948	
WS Corrosivity (cat# 900)												
1620	Corrosivity	S.I. @ 20°C	+1.48	1.71	1.31 - 2.11	Acceptable	EPA 150.1 1982	11/1/2011	-0.795	1.56	0.0948	
WS Turbidity (cat# 592)												
2055	Turbidity	NTU	4.59	5.14	4.52 - 6.10	Acceptable	SM2130B online	10/20/2011	-1.39	5.02	0.311	
WS Turbidity (cat# 592)												
2055	Turbidity	NTU	4.59	5.14	4.52 - 6.10	Acceptable	EPA 180.1 2 1993	10/20/2011	-1.39	5.02	0.311	
WS UV 254 Absorbance (cat# 904)												
2060	UV 254 Absorbance	cm-1	0.172	0.189	0.153 - 0.253	Acceptable	SM5910B online	10/28/2011	-0.969	0.199	0.0279	



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Study: **WS-183**

ERA Customer Number: **C052701**

Laboratory Name: **Calscience
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Microbiology Results





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WS MicrobE™ (Coliforms) (cat# 080C)

2500	Total Coliforms - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			

Total Coliforms Evaluation : Acceptable

Fecal Coliforms Evaluation : Acceptable

E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli, Samples 1, 2 and 7

Total Coliform Organism - Enterobacter cloacae, Samples 3, 4 and 6

Negative (1) Coliform Organism - Proteus mirabilis, Sample 10

Negative (2) Coliform Organism - Pseudomonas aeruginosa, Sample 8

Blank - No Organism, Samples 5 and 9





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WS MicrobE™ (Coliforms) (cat# 080C) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			

Total Coliforms Evaluation : Acceptable

Fecal Coliforms Evaluation : Acceptable

E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli, Samples 1, 2 and 7

Total Coliform Organism - Enterobacter cloacae, Samples 3, 4 and 6

Negative (1) Coliform Organism - Proteus mirabilis, Sample 10

Negative (2) Coliform Organism - Pseudomonas aeruginosa, Sample 8

Blank - No Organism, Samples 5 and 9



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WS MicrobE™ (Coliforms) (cat# 080C) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			

Total Coliforms Evaluation : Acceptable

Fecal Coliforms Evaluation : Acceptable

E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli, Samples 1, 2 and 7

Total Coliform Organism - Enterobacter cloacae, Samples 3, 4 and 6

Negative (1) Coliform Organism - Proteus mirabilis, Sample 10

Negative (2) Coliform Organism - Pseudomonas aeruginosa, Sample 8

Blank - No Organism, Samples 5 and 9

WS Heterotrophic Plate Count (cat# 079)

2555	Heterotrophic Plate Count (MF, PP)	CFU/mL		66.0	46.0 - 79.0	Not Reported				60.1	8.27	
2555	Heterotrophic Plate Count (MPN)	MPN/mL	73.8	77.0	40.6 - 100	Acceptable	Simplate 2000	11/14/2011	0.666	63.8	15.0	





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WS WS SourceWatR™ MicrobE™ (cat# 595)

2500	Total Coliforms (MF)	CFU/100mL		32.0	18.0 - 64.0	Not Reported				34.0	11.4	
2530	Fecal Coliforms (MF)	CFU/100mL		32.0	2.00 - 41.0	Not Reported				9.33	9.77	
2525	E.coli (MF)	CFU/100mL		32.0	7.00 - 59.0	Not Reported				20.5	13.1	
2500	Total Coliforms (MPN)	MPN/100mL	38.4	56.0	25.3 - 88.1	Acceptable	SM9223 COLert18 online	11/10/2011	-0.565	47.2	15.7	
2530	Fecal Coliforms (MPN)	MPN/100mL	38.4	56.0	17.9 - 90.2	Acceptable	SM9223 COLert18 online	11/10/2011	-0.102	40.2	18.1	
2525	E.coli (MPN)	MPN/100mL	38.4	56.0	26.2 - 82.6	Acceptable	SM9223 COLert18 online	11/10/2011	-0.578	46.5	14.1	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01



2009 TNI Evaluation Report

Study: **WS-183**

ERA Customer Number: **C052701**

Laboratory Name: **Calscience
Environmental
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Organic Results





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WS Halomethanes (THMs) (cat# 842)

4395	Bromodichloromethane	µg/L	25.0	21.9	17.5 - 26.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.19	22.6	2.02	
4400	Bromoform	µg/L	23.3	19.5	15.6 - 23.4	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.59	19.6	2.35	
4575	Chlorodibromomethane	µg/L	11.8	11.0	8.80 - 13.2	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.518	11.2	1.13	
4505	Chloroform	µg/L	22.1	19.1	15.3 - 22.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.44	19.6	1.71	

WS Regulated Volatiles (cat# 840)

4375	Benzene	µg/L	16.1	14.9	11.9 - 17.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.708	15.0	1.48	
4455	Carbon tetrachloride	µg/L	23.9	19.6	15.7 - 23.5	Not Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.98	19.2	2.36	
4475	Chlorobenzene	µg/L	12.8	13.6	10.9 - 16.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.67	13.7	1.32	
4610	1,2-Dichlorobenzene	µg/L	15.0	12.9	10.3 - 15.5	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.46	13.2	1.22	
4620	1,4-Dichlorobenzene	µg/L	4.69	4.42	2.65 - 6.19	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.28	4.07	0.480	
4635	1,2-Dichloroethane	µg/L	20.8	18.9	15.1 - 22.7	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.40	18.4	1.72	
4640	1,1-Dichloroethylene	µg/L	16.3	14.2	11.4 - 17.0	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.877	14.9	1.63	
4645	cis-1,2-Dichloroethylene	µg/L	8.67	7.82	4.69 - 10.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.27	7.73	0.734	
4700	trans-1,2-Dichloroethylene	µg/L	34.4	29.4	23.5 - 35.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.48	30.3	2.75	
4655	1,2-Dichloropropane	µg/L	3.93	4.20	2.52 - 5.88	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.624	4.15	0.353	
4765	Ethylbenzene	µg/L	3.34	3.84	2.30 - 5.38	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-1.11	3.75	0.371	
4975	Methylene chloride (Dichloromethane)	µg/L	17.2	16.6	13.3 - 19.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.135	17.0	1.52	
5100	Styrene	µg/L	6.92	7.11	4.27 - 9.95	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.0337	6.94	0.686	
5115	Tetrachloroethylene	µg/L	2.54	2.83	1.70 - 3.96	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.00196	2.54	0.316	
5140	Toluene	µg/L	6.50	7.24	4.34 - 10.1	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.584	6.85	0.608	
5155	1,2,4-Trichlorobenzene	µg/L	6.91	8.76	5.26 - 12.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-1.11	8.04	1.02	
5160	1,1,1-Trichloroethane	µg/L	8.19	7.48	4.49 - 10.5	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.79	6.91	0.714	
5165	1,1,2-Trichloroethane	µg/L	18.3	18.6	14.9 - 22.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.0737	18.4	1.40	
5170	Trichloroethylene	µg/L	17.6	18.3	14.6 - 22.0	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.237	17.2	1.83	
5235	Vinyl chloride	µg/L	15.6	13.7	8.22 - 19.2	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.0226	15.5	2.86	
5260	Xylenes, total	µg/L	21.2	22.0	17.6 - 26.4	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.148	21.5	1.87	





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WS Unregulated Volatiles (cat# 841)

4385	Bromobenzene	µg/L	22.2	20.7	16.6 - 24.8	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.693	21.0	1.76	
4390	Bromochloromethane	µg/L	39.3	33.6	26.9 - 40.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.40	34.2	3.65	
4950	Bromomethane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
5000	tert-Butyl methyl ether (MTBE)	µg/L	29.5	28.5	17.1 - 39.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.225	29.0	2.36	
4435	n-Butylbenzene	µg/L	31.2	31.7	25.4 - 38.0	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.0265	31.3	3.59	
4440	sec-Butylbenzene	µg/L	9.61	9.39	5.63 - 13.1	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.421	9.92	0.748	
4445	tert-Butylbenzene	µg/L	44.4	45.3	36.2 - 54.4	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.165	45.0	3.68	
4485	Chloroethane	µg/L	19.3	18.4	11.0 - 25.8	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.321	20.4	3.32	
4960	Chloromethane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4535	2-Chlorotoluene	µg/L	20.8	19.6	15.7 - 23.5	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.656	19.8	1.44	
4540	4-Chlorotoluene	µg/L	16.7	17.8	14.2 - 21.4	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.659	17.8	1.69	
4595	Dibromomethane	µg/L	16.4	16.6	13.3 - 19.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.254	16.8	1.66	
4615	1,3-Dichlorobenzene	µg/L	32.9	30.0	24.0 - 36.0	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.809	31.2	2.16	
4625	Dichlorodifluoromethane (Freon 12)	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4630	1,1-Dichloroethane	µg/L	10.2	9.82	5.89 - 13.7	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.142	10.3	0.688	
4660	1,3-Dichloropropane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4665	2,2-Dichloropropane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4670	1,1-Dichloropropene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4680	cis-1,3-Dichloropropene	µg/L	35.6	39.4	31.5 - 47.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.344	37.1	4.43	
4685	trans-1,3-Dichloropropene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		8.30	2.12	
5175	Fluorotrichloromethane	µg/L	18.4	17.3	10.4 - 24.2	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.115	18.7	2.88	



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WS Unregulated Volatiles (cat# 841) (Continued)

4835	Hexachlorobutadiene	µg/L	6.22	5.97	3.58 - 8.36	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.152	6.10	0.784	
4900	Isopropylbenzene	µg/L	8.95	9.80	5.88 - 13.7	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.529	9.65	1.32	
4910	4-Isopropyltoluene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		41.9	0.00	
5005	Naphthalene	µg/L	6.91	10.2	6.12 - 14.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-1.91	9.60	1.41	
5090	n-Propylbenzene	µg/L	35.5	34.0	27.2 - 40.8	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.303	34.5	3.23	
5105	1,1,1,2-Tetrachloroethane	µg/L	14.1	12.9	7.74 - 18.1	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.815	12.9	1.43	
5110	1,1,2,2-Tetrachloroethane	µg/L	21.5	21.0	16.8 - 25.2	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.00558	21.5	2.50	
5150	1,2,3-Trichlorobenzene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
5180	1,2,3-Trichloropropane (TCP)	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		4.52	0.410	
5210	1,2,4-Trimethylbenzene	µg/L	42.8	38.9	31.1 - 46.7	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.899	39.9	3.24	
5215	1,3,5-Trimethylbenzene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.520	0.00	





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WS Pesticides (cat# 850)

7005	Alachlor	µg/L		12.2	6.71 - 17.7	Not Reported				12.5	1.50	
7025	Aldrin	µg/L	1.40	1.61	0.682 - 2.02	Acceptable	EPA 508 3.1 1995	10/20/2011	-0.124	1.44	0.301	
7065	Atrazine	µg/L		4.44	2.44 - 6.44	Not Reported				5.02	1.23	
7120	gamma-BHC (Lindane)	µg/L	2.60	3.11	1.71 - 4.51	Acceptable	EPA 508 3.1 1995	10/20/2011	-1.32	3.07	0.359	
7130	Bromacil	µg/L		7.00	3.85 - 10.2	Not Reported				7.94	0.226	
7160	Butachlor	µg/L		27.3	14.5 - 35.0	Not Reported				30.0	6.05	
7410	Diazinon	µg/L		< 0.100	0.00 - 0.100	Not Reported				0.00	0.00	
7470	Dieldrin	µg/L	2.50	2.98	1.85 - 3.85	Acceptable	EPA 508 3.1 1995	10/20/2011	-1.04	2.88	0.362	
7540	Endrin	µg/L	2.40	2.92	2.04 - 3.80	Acceptable	EPA 508 3.1 1995	10/20/2011	-1.28	2.96	0.443	
7685	Heptachlor	µg/L	3.50	3.91	2.15 - 5.67	Acceptable	EPA 508 3.1 1995	10/20/2011	-0.184	3.60	0.517	
7690	Heptachlor epoxide (beta)	µg/L	1.50	1.66	0.913 - 2.41	Acceptable	EPA 508 3.1 1995	10/20/2011	-0.588	1.66	0.272	
6275	Hexachlorobenzene	µg/L		3.82	1.76 - 4.82	Not Reported				3.68	0.321	
6285	Hexachlorocyclopentadiene	µg/L		6.53	1.12 - 9.41	Not Reported				6.23	1.73	
7810	Methoxychlor	µg/L	27.0	27.7	15.2 - 40.2	Acceptable	EPA 508 3.1 1995	10/20/2011	-0.373	28.6	4.29	
7835	Metolachlor	µg/L		< 5.30	0.00 - 5.30	Not Reported				0.00	0.00	
7845	Metribuzin	µg/L		3.27	0.911 - 5.31	Not Reported				3.04	0.241	
7875	Molinate (Ordram)	µg/L		21.0	11.6 - 30.4	Not Reported				22.2	1.96	
8035	Prometon	µg/L		< 0.100	0.00 - 0.100	Not Reported				0.00	0.00	
8045	Propachlor	µg/L		1.73	0.954 - 2.39	Not Reported				1.80	0.183	
8125	Simazine	µg/L		9.85	2.32 - 15.0	Not Reported				11.1	2.49	
8220	Thiobencarb	µg/L		< 0.100	0.00 - 0.100	Not Reported				0.00	0.00	

WS Pesticides (cat# 850) (Continued)

8295	Trifluralin	µg/L		3.03	1.54 - 3.85	Not Reported				3.04	0.102	
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WS Chlordane (cat# 845)

7250	Chlordane, technical	µg/L	3.60	3.86	2.12 - 5.60	Acceptable	EPA 508 3.1 1995	10/24/2011	-0.196	3.67	0.374	
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WS Toxaphene (cat# 844)

8250	Toxaphene	µg/L	9.40	9.95	5.47 - 14.4	Acceptable	EPA 508 3.1 1995	10/21/2011	-0.379	10.9	3.86	
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WS EDB/DBCP/TCP (cat# 847)

4570	Dibromochloropropane (DBCP)	µg/L		0.193	0.116 - 0.270	Not Reported				0.199	0.0426	
4585	Ethylene Dibromide (EDB)	µg/L		0.716	0.430 - 1.00	Not Reported				0.701	0.125	
5180	1,2,3-Trichloropropane (TCP)	µg/L	1.16	1.02	0.612 - 1.43	Acceptable	SRL 524M-TCP	10/21/2011	1.37	1.03	0.0937	

WS EDB/DBCP/TCP (cat# 847)

4570	Dibromochloropropane (DBCP)	µg/L	0.171	0.193	0.116 - 0.270	Acceptable	EPA 504.1 1.1 1995	10/19/2011	-0.655	0.199	0.0426	
4585	Ethylene Dibromide (EDB)	µg/L	0.672	0.716	0.430 - 1.00	Acceptable	EPA 504.1 1.1 1995	10/19/2011	-0.231	0.701	0.125	
5180	1,2,3-Trichloropropane (TCP)	µg/L		1.02	0.612 - 1.43	Not Reported				1.03	0.0937	

WS PCBs as Decachlorobiphenyl (cat# 839)

8880	Aroclor 1016	µg/L		< 0.260	0.00 - 0.260	Not Reported				0.00	0.00	
8885	Aroclor 1221	µg/L		< 0.190	0.00 - 0.190	Not Reported				0.00	0.00	
8890	Aroclor 1232	µg/L		< 0.230	0.00 - 0.230	Not Reported				0.00	0.00	
8895	Aroclor 1242	µg/L		< 0.260	0.00 - 0.260	Not Reported				0.00	0.00	
8900	Aroclor 1248	µg/L		2.24	1.27 - 2.72	Not Reported				2.13	0.510	
8905	Aroclor 1254	µg/L		< 0.330	0.00 - 0.330	Not Reported				0.00	0.00	
8910	Aroclor 1260	µg/L		< 0.360	0.00 - 0.360	Not Reported				0.00	0.00	
8872	PCB Aroclor Identity	Identity		1248		Not Reported						
9105	PCB as Decachlorobiphenyl	µg/L	3.00	3.75	0.375 - 7.50	Acceptable	EPA 508A 1995	10/20/2011	0.143	2.93	0.460	





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WS Regulated Semivolatiles Ampule #1 (cat# 848)

5500	Acenaphthene	µg/L	< 1.00	< 0.500	0.00 - 0.500	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	
5505	Acenaphthylene	µg/L	3.91	4.13	2.06 - 6.20	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.244	3.85	0.242	
5555	Anthracene	µg/L	< 1.00	< 0.500	0.00 - 0.500	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	
5575	Benzo(a)anthracene	µg/L	7.92	7.90	3.95 - 11.8	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.365	7.51	1.12	
5585	Benzo(b)fluoranthene	µg/L	4.53	4.90	2.45 - 7.35	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.143	4.58	0.356	
5600	Benzo(k)fluoranthene	µg/L	7.06	7.08	3.54 - 10.6	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.343	6.84	0.654	
5590	Benzo(g,h,i)perylene	µg/L	7.68	7.97	3.98 - 12.0	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.605	7.29	0.641	
5580	Benzo(a)pyrene	µg/L	0.234	0.302	0.0304 - 0.473	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-1.0	0.323	0.0886	
5670	Butylbenzylphthalate	µg/L	32.0	31.9	12.8 - 51.0	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.205	32.7	3.59	
5855	Chrysene	µg/L	9.88	9.62	4.81 - 14.4	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.823	8.94	1.15	
5895	Dibenz(a,h)anthracene	µg/L	4.02	5.37	2.68 - 8.06	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-1.41	4.78	0.537	
6070	Diethylphthalate	µg/L	36.1	36.1	14.4 - 57.8	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.0663	36.3	3.58	
6135	Dimethylphthalate	µg/L	< 10.0	< 4.00	0.00 - 4.00	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	
5925	Di-n-butylphthalate	µg/L	33.6	32.0	12.8 - 51.2	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.205	32.6	4.83	
6200	Di-n-octylphthalate	µg/L	38.7	38.3	15.3 - 61.3	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.879	36.2	2.84	
6062	bis(2-Ethylhexyl)adipate	µg/L	27.7	26.1	10.1 - 37.9	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.552	30.2	4.63	
6065	bis(2-Ethylhexyl)phthalate	µg/L	45.8	44.8	19.4 - 69.9	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.204	47.0	5.91	
6265	Fluoranthene	µg/L	2.29	2.37	1.18 - 3.56	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.392	2.34	0.122	
6270	Fluorene	µg/L	8.91	8.83	4.42 - 13.2	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.236	8.81	0.419	
6315	Indeno(1,2,3-cd)pyrene	µg/L	7.33	8.04	4.02 - 12.1	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.467	7.74	0.889	
5005	Naphthalene	µg/L	< 2.00	< 1.20	0.00 - 1.20	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	

WS Regulated Semivolatiles Ampule #1 (cat# 848) (Continued)

6615	Phenanthrene	µg/L	< 1.00	< 0.500	0.00 - 0.500	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	
6665	Pyrene	µg/L	1.55	1.55	0.775 - 2.32	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.838	1.40	0.179	





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WS Chlorinated Acid Herbicides (cat# 851)

8505	Acifluorfen	µg/L		38.4	16.4 - 51.9	Not Reported				55.2	20.4	
8530	Bentazon	µg/L	< 2.00	< 1.50	0.00 - 1.50	Acceptable	EPA 515.1 4.1 1995	10/17/2011		0.00	0.00	
8540	Chloramben	µg/L		47.9	24.0 - 71.8	Not Reported				55.2	0.00	
8545	2,4-D	µg/L	29.2	34.6	17.3 - 51.9	Acceptable	EPA 515.1 4.1 1995	10/17/2011	-1.19	33.4	3.56	
8550	Dacthal diacid (DCPA)	µg/L		60.1	6.01 - 104	Not Reported				57.8	4.60	
8555	Dalapon	µg/L	113	145	14.5 - 195	Acceptable	EPA 515.1 4.1 1995	10/17/2011	-0.654	127	21.4	
8560	2,4-DB	µg/L		83.5	37.4 - 104	Not Reported				76.5	0.00	
8595	Dicamba	µg/L		78.2	20.5 - 108	Not Reported				76.7	6.94	
8600	3,5-Dichlorobenzoic acid	µg/L		75.3	37.6 - 113	Not Reported				68.4	0.354	
8605	Dichlorprop	µg/L		29.7	16.6 - 35.5	Not Reported				30.4	0.141	
8620	Dinoseb	µg/L	32.0	39.6	8.41 - 56.0	Acceptable	EPA 515.1 4.1 1995	10/17/2011	-1.24	37.5	4.44	
6500	4-Nitrophenol	µg/L		85.3	8.53 - 120	Not Reported				0.00	0.00	
6605	Pentachlorophenol	µg/L		84.4	42.2 - 127	Not Reported				80.6	8.26	
8645	Picloram	µg/L	37.4	35.6	8.21 - 50.2	Acceptable	EPA 515.1 4.1 1995	10/17/2011	0.653	34.3	4.79	
8655	2,4,5-T	µg/L		47.3	18.6 - 62.2	Not Reported				30.8	13.8	
8650	2,4,5-TP (Silvex)	µg/L	29.4	30.2	15.1 - 45.3	Acceptable	EPA 515.1 4.1 1995	10/17/2011	0.164	29.0	2.44	

WS Regulated Semivolatiles #2 Herbicides (cat# 849)

9390	Diquat	µg/L		17.6	3.54 - 24.9	Not Reported				14.4	3.41	
7525	Endothall	µg/L	410	411	136 - 581	Acceptable	EPA 548.1 1 1992	10/15/2011	0.533	369	77.4	
9411	Glyphosate	µg/L		383	324 - 470	Not Reported				388	18.4	
9528	Paraquat	µg/L		77.4	38.7 - 116	Not Reported				66.4	8.40	



Final Report Results For Laboratory CalScience Environmental Laboratories



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Laboratory Name: **Calscience
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Inorganic Results





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WS Hardness (cat# 555)

1035	Calcium	mg/L	72.9	73.6	65.6 - 81.3	Acceptable	EPA 200.7	11/10/2011	-0.682	74.7	2.68	
1085	Magnesium	mg/L	15.2	15.3	13.8 - 17.0	Acceptable	EPA 200.7 5 1998	11/10/2011	-0.238	15.4	0.702	
1155	Sodium	mg/L	18.9	17.9	15.8 - 19.7	Acceptable	EPA 200.7 5 1998	11/10/2011	0.935	18.1	0.879	
1550	Calcium Hardness as CaCO3	mg/L	181	184	164 - 203	Acceptable	SM3500Ca B	11/9/2011	-0.885	187	7.05	
1755	Total Hardness as CaCO3	mg/L	249	247	221 - 273	Acceptable	SM2340C online	11/9/2011	-0.174	250	7.17	

WS Hardness (cat# 555)

1035	Calcium	mg/L	72.9	73.6	65.6 - 81.3	Acceptable	SM3120B	11/10/2011	-0.682	74.7	2.68	
1085	Magnesium	mg/L	15.2	15.3	13.8 - 17.0	Acceptable	SM3120B online	11/10/2011	-0.238	15.4	0.702	
1155	Sodium	mg/L	18.9	17.9	15.8 - 19.7	Acceptable	SM3120B online	11/10/2011	0.935	18.1	0.879	
1550	Calcium Hardness as CaCO3	mg/L	181	184	164 - 203	Acceptable	EPA 215.2 1978	11/9/2011	-0.885	187	7.05	
1755	Total Hardness as CaCO3	mg/L	249	247	221 - 273	Acceptable	EPA 130.2 1978	11/9/2011	-0.174	250	7.17	

WS Hardness (cat# 555)

1035	Calcium	mg/L		73.6	65.6 - 81.3	Not Reported				74.7	2.68	
1085	Magnesium	mg/L		15.3	13.8 - 17.0	Not Reported				15.4	0.702	
1155	Sodium	mg/L		17.9	15.8 - 19.7	Not Reported				18.1	0.879	
1550	Calcium Hardness as CaCO3	mg/L	182	184	164 - 203	Acceptable	EPA 200.7 5 1998	11/10/2011	-0.743	187	7.05	
1755	Total Hardness as CaCO3	mg/L	245	247	221 - 273	Acceptable	EPA 200.7 5 1998	11/10/2011	-0.731	250	7.17	

WS Hardness (cat# 555)

1035	Calcium	mg/L		73.6	65.6 - 81.3	Not Reported				74.7	2.68	
1085	Magnesium	mg/L		15.3	13.8 - 17.0	Not Reported				15.4	0.702	
1155	Sodium	mg/L		17.9	15.8 - 19.7	Not Reported				18.1	0.879	
1550	Calcium Hardness as CaCO3	mg/L	182	184	164 - 203	Acceptable	EPA 6010B	11/10/2011	-0.743	187	7.05	
1755	Total Hardness as CaCO3	mg/L	245	247	221 - 273	Acceptable	EPA 6010B	11/10/2011	-0.731	250	7.17	





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NELAC Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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WS Inorganics (cat# 591)

1505	Alkalinity as CaCO3	mg/L	72.0	71.2	64.1 - 78.3	Acceptable	SM2320B online	11/1/2011	-0.307	72.8	2.67	
1575	Chloride	mg/L	51.2	52.0	46.8 - 57.2	Acceptable	SM4500Cl- C TIT online	10/28/2011	-0.2	51.7	2.36	
1610	Conductivity at 25°C	µmhos/cm	395	385	346 - 424	Acceptable	SM2510B online	10/22/2011	0.209	394	7.14	
1730	Fluoride	mg/L	7.39	7.26	6.53 - 7.99	Acceptable	SM4500F- C online	11/5/2011	0.627	7.17	0.346	
1820	Nitrate + Nitrite as N	mg/L	3.40	3.53	3.11 - 3.88	Acceptable	SM4500NO3- E online	10/25/2011	-0.331	3.45	0.143	
1810	Nitrate as N	mg/L	3.40	3.53	3.18 - 3.88	Acceptable	SM4500NO3- E online	10/25/2011	-0.278	3.44	0.153	
1125	Potassium	mg/L	28.0	24.8	21.4 - 28.4	Acceptable	EPA 200.7 5 1998	11/10/2011	2.67	24.4	1.36	
2000	Sulfate	mg/L	8.33	8.24	6.00 - 9.98	Acceptable	ASTM D516-02 2002	10/31/2011	0.945	7.92	0.430	
1955	Total Dissolved Solids at 180°C	mg/L	302	289	189 - 389	Acceptable	SM2540C online	11/1/2011	0.793	289	16.4	

WS Inorganics (cat# 591)

1505	Alkalinity as CaCO3	mg/L	72.0	71.2	64.1 - 78.3	Acceptable	EPA 310.1 1978	11/1/2011	-0.307	72.8	2.67	
1575	Chloride	mg/L	51.4	52.0	46.8 - 57.2	Acceptable	EPA 300.0 2.1 1993	10/25/2011	-0.115	51.7	2.36	
1610	Conductivity at 25°C	µmhos/cm	395	385	346 - 424	Acceptable	EPA 120.1 1982	10/22/2011	0.209	394	7.14	
1730	Fluoride	mg/L	7.19	7.26	6.53 - 7.99	Acceptable	EPA 300.0 2.1 1993	10/25/2011	0.0484	7.17	0.346	
1820	Nitrate + Nitrite as N	mg/L	3.48	3.53	3.11 - 3.88	Acceptable	EPA 300.0 2.1 1993	10/25/2011	0.228	3.45	0.143	
1810	Nitrate as N	mg/L	3.48	3.53	3.18 - 3.88	Acceptable	EPA 300.0 2.1 1993	10/25/2011	0.243	3.44	0.153	
1125	Potassium	mg/L	28.0	24.8	21.4 - 28.4	Acceptable	EPA 6010B 1996	11/10/2011	2.67	24.4	1.36	
2000	Sulfate	mg/L	8.06	8.24	6.00 - 9.98	Acceptable	EPA 300.0 2.1 1993	10/25/2011	0.317	7.92	0.430	
1955	Total Dissolved Solids at 180°C	mg/L		289	189 - 389	Not Reported				289	16.4	





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WS Inorganics (cat# 591)

1505	Alkalinity as CaCO3	mg/L		71.2	64.1 - 78.3	Not Reported				72.8	2.67	
1575	Chloride	mg/L	51.2	52.0	46.8 - 57.2	Acceptable	EPA 325.3 1982	10/28/2011	-0.2	51.7	2.36	
1610	Conductivity at 25°C	µmhos/cm		385	346 - 424	Not Reported				394	7.14	
1730	Fluoride	mg/L	7.39	7.26	6.53 - 7.99	Acceptable	EPA 340.2 1974	10/25/2011	0.627	7.17	0.346	
1820	Nitrate + Nitrite as N	mg/L	3.40	3.53	3.11 - 3.88	Acceptable	EPA 353.3	10/25/2011	-0.331	3.45	0.143	
1810	Nitrate as N	mg/L	3.40	3.53	3.18 - 3.88	Acceptable	EPA 353.3 1974	10/25/2011	-0.278	3.44	0.153	
1125	Potassium	mg/L	28.0	24.8	21.4 - 28.4	Acceptable	SM3120B online	11/10/2011	2.67	24.4	1.36	
2000	Sulfate	mg/L	8.33	8.24	6.00 - 9.98	Acceptable	EPA 375.4 1978	10/31/2011	0.945	7.92	0.430	
1955	Total Dissolved Solids at 180°C	mg/L	302	289	189 - 389	Acceptable	EPA 160.1 1979	11/1/2011	0.793	289	16.4	

WS Inorganics (cat# 591)

1505	Alkalinity as CaCO3	mg/L		71.2	64.1 - 78.3	Not Reported				72.8	2.67	
1575	Chloride	mg/L	51.4	52.0	46.8 - 57.2	Acceptable	SM4110B online	10/25/2011	-0.115	51.7	2.36	
1610	Conductivity at 25°C	µmhos/cm		385	346 - 424	Not Reported				394	7.14	
1730	Fluoride	mg/L	7.19	7.26	6.53 - 7.99	Acceptable	SM4110B online	10/25/2011	0.0484	7.17	0.346	
1820	Nitrate + Nitrite as N	mg/L	3.48	3.53	3.11 - 3.88	Acceptable	SM4110B online	10/25/2011	0.228	3.45	0.143	
1810	Nitrate as N	mg/L	3.48	3.53	3.18 - 3.88	Acceptable	SM4110B online	10/25/2011	0.243	3.44	0.153	
1125	Potassium	mg/L		24.8	21.4 - 28.4	Not Reported				24.4	1.36	
2000	Sulfate	mg/L	8.06	8.24	6.00 - 9.98	Acceptable	SM4110B online	10/25/2011	0.317	7.92	0.430	
1955	Total Dissolved Solids at 180°C	mg/L		289	189 - 389	Not Reported				289	16.4	

WS pH (cat# 552)

1900	pH	S.U.	7.53	7.36	7.16 - 7.56	Acceptable	EPA 150.1 1982	10/20/2011	3.52	7.35	0.0515	
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WS pH (cat# 552)

1900	pH	S.U.	7.53	7.36	7.16 - 7.56	Acceptable	SM4500H+ B online	10/20/2011	3.52	7.35	0.0515	
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1140	1170	1000 - 1300	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.284	1160	62.8	
1005	Antimony	µg/L	31.6	38.3	26.8 - 49.8	Acceptable	EPA 200.7 5 1998	11/11/2011	-2.75	38.3	2.44	
1010	Arsenic	µg/L	43.2	43.3	30.3 - 56.3	Acceptable	EPA 200.7 5 1998	11/11/2011	0.0349	43.1	2.70	
1015	Barium	µg/L	958	918	780 - 1060	Acceptable	EPA 200.7 5 1998	11/11/2011	1.02	918	38.7	
1020	Beryllium	µg/L	9.91	9.60	8.16 - 11.0	Acceptable	EPA 200.7 5 1998	11/11/2011	0.824	9.54	0.447	
1025	Boron	µg/L	1610	1610	1410 - 1780	Acceptable	EPA 200.7 5 1998	11/11/2011	0.00480	1610	70.1	
1030	Cadmium	µg/L	35.5	35.6	28.5 - 42.7	Acceptable	EPA 200.7 5 1998	11/11/2011	0.560	34.8	1.28	
1040	Chromium	µg/L	56.5	56.3	47.8 - 64.7	Acceptable	EPA 200.7 5 1998	11/11/2011	0.0813	56.3	1.99	
1055	Copper	µg/L	1670	1650	1480 - 1820	Acceptable	EPA 200.7 5 1998	11/11/2011	0.496	1640	63.7	
1070	Iron	µg/L	267	263	221 - 300	Acceptable	EPA 200.7 5 1998	11/11/2011	0.0230	267	14.0	
1075	Lead	µg/L	83.4	81.3	56.9 - 106	Acceptable	EPA 200.7 5 1998	11/11/2011	0.597	80.9	4.16	
1090	Manganese	µg/L	609	582	524 - 640	Acceptable	EPA 200.7 5 1998	11/11/2011	1.50	578	20.4	
1100	Molybdenum	µg/L	22.7	22.8	18.8 - 26.4	Acceptable	EPA 200.7 5 1998	11/11/2011	0.225	22.5	0.881	
1105	Nickel	µg/L	469	453	385 - 521	Acceptable	EPA 200.7 5 1998	11/11/2011	1.14	449	17.7	
1140	Selenium	µg/L	90.9	93.4	74.7 - 112	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.147	91.5	4.40	
1150	Silver	µg/L	205	206	182 - 228	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.169	207	10.0	
1165	Thallium	µg/L	6.5	6.62	4.63 - 8.61	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.0712	6.54	0.503	
1185	Vanadium	µg/L	473	480	432 - 528	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.139	475	14.6	
1190	Zinc	µg/L	780	764	688 - 840	Acceptable	EPA 200.7 5 1998	11/11/2011	0.405	768	29.6	





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1140	1170	1000 - 1300	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.284	1160	62.8	
1005	Antimony	µg/L	31.6	38.3	26.8 - 49.8	Acceptable	EPA 6010B 2 1996	11/11/2011	-2.75	38.3	2.44	
1010	Arsenic	µg/L	43.2	43.3	30.3 - 56.3	Acceptable	EPA 6010B 2 1996	11/11/2011	0.0349	43.1	2.70	
1015	Barium	µg/L	958	918	780 - 1060	Acceptable	EPA 6010B 2 1996	11/11/2011	1.02	918	38.7	
1020	Beryllium	µg/L	9.91	9.60	8.16 - 11.0	Acceptable	EPA 6010B 2 1996	11/11/2011	0.824	9.54	0.447	
1025	Boron	µg/L	1610	1610	1410 - 1780	Acceptable	EPA 6010B 2 1996	11/11/2011	0.00480	1610	70.1	
1030	Cadmium	µg/L	35.5	35.6	28.5 - 42.7	Acceptable	EPA 6010B 2 1996	11/11/2011	0.560	34.8	1.28	
1040	Chromium	µg/L	56.5	56.3	47.8 - 64.7	Acceptable	EPA 6010B 2 1996	11/11/2011	0.0813	56.3	1.99	
1055	Copper	µg/L	1670	1650	1480 - 1820	Acceptable	EPA 6010B 2 1996	11/11/2011	0.496	1640	63.7	
1070	Iron	µg/L	267	263	221 - 300	Acceptable	EPA 6010B 2 1996	11/11/2011	0.0230	267	14.0	
1075	Lead	µg/L	83.4	81.3	56.9 - 106	Acceptable	EPA 6010B 2 1996	11/11/2011	0.597	80.9	4.16	
1090	Manganese	µg/L	609	582	524 - 640	Acceptable	EPA 6010B 2 1996	11/11/2011	1.50	578	20.4	
1100	Molybdenum	µg/L	22.7	22.8	18.8 - 26.4	Acceptable	EPA 6010B 2 1996	11/11/2011	0.225	22.5	0.881	
1105	Nickel	µg/L	469	453	385 - 521	Acceptable	EPA 6010B 2 1996	11/11/2011	1.14	449	17.7	
1140	Selenium	µg/L	90.9	93.4	74.7 - 112	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.147	91.5	4.40	
1150	Silver	µg/L	205	206	182 - 228	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.169	207	10.0	
1165	Thallium	µg/L	6.5	6.62	4.63 - 8.61	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.0712	6.54	0.503	
1185	Vanadium	µg/L	473	480	432 - 528	Acceptable	EPA 6010B 2 1996	11/11/2011	-0.139	475	14.6	
1190	Zinc	µg/L	780	764	688 - 840	Acceptable	EPA 6010B 2 1996	11/11/2011	0.405	768	29.6	





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1140	1170	1000 - 1300	Acceptable	SM3120B	10/11/2011	-0.284	1160	62.8	
1005	Antimony	µg/L	31.6	38.3	26.8 - 49.8	Acceptable	SM3120B	10/11/2011	-2.75	38.3	2.44	
1010	Arsenic	µg/L	43.2	43.3	30.3 - 56.3	Acceptable	SM3120B	10/11/2011	0.0349	43.1	2.70	
1015	Barium	µg/L	958	918	780 - 1060	Acceptable	SM3120B	10/11/2011	1.02	918	38.7	
1020	Beryllium	µg/L	9.91	9.60	8.16 - 11.0	Acceptable	SM3120B	10/11/2011	0.824	9.54	0.447	
1025	Boron	µg/L	1610	1610	1410 - 1780	Acceptable	SM3120B	10/11/2011	0.00480	1610	70.1	
1030	Cadmium	µg/L	35.5	35.6	28.5 - 42.7	Acceptable	SM3120B	10/11/2011	0.560	34.8	1.28	
1040	Chromium	µg/L	56.5	56.3	47.8 - 64.7	Acceptable	SM3120B	10/11/2011	0.0813	56.3	1.99	
1055	Copper	µg/L	1670	1650	1480 - 1820	Acceptable	SM3120B	10/11/2011	0.496	1640	63.7	
1070	Iron	µg/L	267	263	221 - 300	Acceptable	SM3120B	10/11/2011	0.0230	267	14.0	
1075	Lead	µg/L	83.4	81.3	56.9 - 106	Acceptable	SM3120B	10/11/2011	0.597	80.9	4.16	
1090	Manganese	µg/L	609	582	524 - 640	Acceptable	SM3120B	10/11/2011	1.50	578	20.4	
1100	Molybdenum	µg/L	22.7	22.8	18.8 - 26.4	Acceptable	SM3120B	10/11/2011	0.225	22.5	0.881	
1105	Nickel	µg/L	469	453	385 - 521	Acceptable	SM3120B	10/11/2011	1.14	449	17.7	
1140	Selenium	µg/L	90.9	93.4	74.7 - 112	Acceptable	SM3120B	10/11/2011	-0.147	91.5	4.40	
1150	Silver	µg/L	205	206	182 - 228	Acceptable	SM3120B	10/11/2011	-0.169	207	10.0	
1165	Thallium	µg/L	6.5	6.62	4.63 - 8.61	Acceptable	SM3120B	10/11/2011	-0.0712	6.54	0.503	
1185	Vanadium	µg/L	473	480	432 - 528	Acceptable	SM3120B	10/11/2011	-0.139	475	14.6	
1190	Zinc	µg/L	780	764	688 - 840	Acceptable	SM3120B	10/11/2011	0.405	768	29.6	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1160	1170	1000 - 1300	Acceptable	EPA 200.8	11/3/2011	0.0348	1160	62.8	
1005	Antimony	µg/L	36.5	38.3	26.8 - 49.8	Acceptable	EPA 200.8	11/3/2011	-0.748	38.3	2.44	
1010	Arsenic	µg/L	41.9	43.3	30.3 - 56.3	Acceptable	EPA 200.8	11/3/2011	-0.447	43.1	2.70	
1015	Barium	µg/L	906	918	780 - 1060	Acceptable	EPA 200.8	11/3/2011	-0.322	918	38.7	
1020	Beryllium	µg/L	9.51	9.60	8.16 - 11.0	Acceptable	EPA 200.8	11/3/2011	-0.0695	9.54	0.447	
1025	Boron	µg/L	1660	1610	1410 - 1780	Acceptable	EPA 200.8	11/3/2011	0.718	1610	70.1	
1030	Cadmium	µg/L	33.6	35.6	28.5 - 42.7	Acceptable	EPA 200.8	11/3/2011	-0.919	34.8	1.28	
1040	Chromium	µg/L	54.8	56.3	47.8 - 64.7	Acceptable	EPA 200.8	11/3/2011	-0.771	56.3	1.99	
1055	Copper	µg/L	1630	1650	1480 - 1820	Acceptable	EPA 200.8	11/3/2011	-0.133	1640	63.7	
1070	Iron	µg/L	269	263	221 - 300	Acceptable	EPA 200.8	11/3/2011	0.166	267	14.0	
1075	Lead	µg/L	77.6	81.3	56.9 - 106	Acceptable	EPA 200.8	11/3/2011	-0.796	80.9	4.16	
1090	Manganese	µg/L	561	582	524 - 640	Acceptable	EPA 200.8	11/3/2011	-0.857	578	20.4	
1100	Molybdenum	µg/L	21.8	22.8	18.8 - 26.4	Acceptable	EPA 200.8	11/3/2011	-0.796	22.5	0.881	
1105	Nickel	µg/L	441	453	385 - 521	Acceptable	EPA 200.8	11/3/2011	-0.44	449	17.7	
1140	Selenium	µg/L	88.8	93.4	74.7 - 112	Acceptable	EPA 200.8	11/3/2011	-0.624	91.5	4.40	
1150	Silver	µg/L	194	206	182 - 228	Acceptable	EPA 200.8	11/3/2011	-1.27	207	10.0	
1165	Thallium	µg/L	6.19	6.62	4.63 - 8.61	Acceptable	EPA 200.8	11/3/2011	-0.687	6.54	0.503	
1185	Vanadium	µg/L	450	480	432 - 528	Acceptable	EPA 200.8	11/3/2011	-1.71	475	14.6	
1190	Zinc	µg/L	770	764	688 - 840	Acceptable	EPA 200.8	11/3/2011	0.0673	768	29.6	





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1160	1170	1000 - 1300	Acceptable	EPA 6020A	11/3/2011	0.0348	1160	62.8	
1005	Antimony	µg/L	36.5	38.3	26.8 - 49.8	Acceptable	EPA 6020A	11/3/2011	-0.748	38.3	2.44	
1010	Arsenic	µg/L	41.9	43.3	30.3 - 56.3	Acceptable	EPA 6020A	11/3/2011	-0.447	43.1	2.70	
1015	Barium	µg/L	906	918	780 - 1060	Acceptable	EPA 6020A	11/3/2011	-0.322	918	38.7	
1020	Beryllium	µg/L	9.51	9.60	8.16 - 11.0	Acceptable	EPA 6020A	11/3/2011	-0.0695	9.54	0.447	
1025	Boron	µg/L	1660	1610	1410 - 1780	Acceptable	EPA 6020A	11/3/2011	0.718	1610	70.1	
1030	Cadmium	µg/L	33.6	35.6	28.5 - 42.7	Acceptable	EPA 6020A	11/3/2011	-0.919	34.8	1.28	
1040	Chromium	µg/L	54.8	56.3	47.8 - 64.7	Acceptable	EPA 6020A	11/3/2011	-0.771	56.3	1.99	
1055	Copper	µg/L	1630	1650	1480 - 1820	Acceptable	EPA 6020A	11/3/2011	-0.133	1640	63.7	
1070	Iron	µg/L	269	263	221 - 300	Acceptable	EPA 6020A	11/3/2011	0.166	267	14.0	
1075	Lead	µg/L	77.6	81.3	56.9 - 106	Acceptable	EPA 6020A	11/3/2011	-0.796	80.9	4.16	
1090	Manganese	µg/L	561	582	524 - 640	Acceptable	EPA 6020A	11/3/2011	-0.857	578	20.4	
1100	Molybdenum	µg/L	21.8	22.8	18.8 - 26.4	Acceptable	EPA 6020A	11/3/2011	-0.796	22.5	0.881	
1105	Nickel	µg/L	441	453	385 - 521	Acceptable	EPA 6020A	11/3/2011	-0.44	449	17.7	
1140	Selenium	µg/L	88.8	93.4	74.7 - 112	Acceptable	EPA 6020A	11/3/2011	-0.624	91.5	4.40	
1150	Silver	µg/L	194	206	182 - 228	Acceptable	EPA 6020A	11/3/2011	-1.27	207	10.0	
1165	Thallium	µg/L	6.19	6.62	4.63 - 8.61	Acceptable	EPA 6020A	11/3/2011	-0.687	6.54	0.503	
1185	Vanadium	µg/L	450	480	432 - 528	Acceptable	EPA 6020A	11/3/2011	-1.71	475	14.6	
1190	Zinc	µg/L	770	764	688 - 840	Acceptable	EPA 6020A	11/3/2011	0.0673	768	29.6	





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WS Metals (cat# 590)

1000	Aluminum	µg/L	1160	1170	1000 - 1300	Acceptable	SM3125B	11/3/2011	0.0348	1160	62.8	
1005	Antimony	µg/L	36.5	38.3	26.8 - 49.8	Acceptable	SM3125B	11/3/2011	-0.748	38.3	2.44	
1010	Arsenic	µg/L	41.9	43.3	30.3 - 56.3	Acceptable	SM3125B	11/3/2011	-0.447	43.1	2.70	
1015	Barium	µg/L	906	918	780 - 1060	Acceptable	SM3125B	11/3/2011	-0.322	918	38.7	
1020	Beryllium	µg/L	9.51	9.60	8.16 - 11.0	Acceptable	SM3125B	11/3/2011	-0.0695	9.54	0.447	
1025	Boron	µg/L	1660	1610	1410 - 1780	Acceptable	SM3125B	11/3/2011	0.718	1610	70.1	
1030	Cadmium	µg/L	33.6	35.6	28.5 - 42.7	Acceptable	SM3125B	11/3/2011	-0.919	34.8	1.28	
1040	Chromium	µg/L	54.8	56.3	47.8 - 64.7	Acceptable	SM3125B	11/3/2011	-0.771	56.3	1.99	
1055	Copper	µg/L	1630	1650	1480 - 1820	Acceptable	SM3125B	11/3/2011	-0.133	1640	63.7	
1070	Iron	µg/L	269	263	221 - 300	Acceptable	SM3125B	11/3/2011	0.166	267	14.0	
1075	Lead	µg/L	77.6	81.3	56.9 - 106	Acceptable	SM3125B	11/3/2011	-0.796	80.9	4.16	
1090	Manganese	µg/L	561	582	524 - 640	Acceptable	SM3125B	11/3/2011	-0.857	578	20.4	
1100	Molybdenum	µg/L	21.8	22.8	18.8 - 26.4	Acceptable	SM3125B	11/3/2011	-0.796	22.5	0.881	
1105	Nickel	µg/L	441	453	385 - 521	Acceptable	SM3125B	11/3/2011	-0.44	449	17.7	
1140	Selenium	µg/L	88.8	93.4	74.7 - 112	Acceptable	SM3125B	11/3/2011	-0.624	91.5	4.40	
1150	Silver	µg/L	194	206	182 - 228	Acceptable	SM3125B	11/3/2011	-1.27	207	10.0	
1165	Thallium	µg/L	6.19	6.62	4.63 - 8.61	Acceptable	SM3125B	11/3/2011	-0.687	6.54	0.503	
1185	Vanadium	µg/L	450	480	432 - 528	Acceptable	SM3125B	11/3/2011	-1.71	475	14.6	
1190	Zinc	µg/L	770	764	688 - 840	Acceptable	SM3125B	11/3/2011	0.0673	768	29.6	

WS Mercury (cat# 551)

1095	Mercury	µg/L	7.08	6.32	4.42 - 8.22	Acceptable	EPA 1631E 2004	11/5/2011	0.893	6.52	0.628	
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WS Mercury (cat# 551)

1095	Mercury	µg/L	6.50	6.32	4.42 - 8.22	Acceptable	EPA 245.1 3 1994	11/2/2011	-0.0312	6.52	0.628	
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WS Hexavalent Chromium (cat# 854)

1045	Hexavalent Chromium	µg/L	35.0	33.5	30.1 - 36.8	Acceptable	SM3500Cr B online	10/20/2011	1.45	33.8	0.810	
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WS Hexavalent Chromium (cat# 854)												
1045	Hexavalent Chromium	µg/L	34.9	33.5	30.1 - 36.8	Acceptable	EPA 7196A 1 1992	10/20/2011	1.33	33.8	0.810	
WS Hexavalent Chromium (cat# 854)												
1045	Hexavalent Chromium	µg/L	33.7	33.5	30.1 - 36.8	Acceptable	EPA 218.6 3.3 1994	10/20/2011	-0.15	33.8	0.810	
WS Hexavalent Chromium (cat# 854)												
1045	Hexavalent Chromium	µg/L	33.7	33.5	30.1 - 36.8	Acceptable	EPA 7199 1996	10/20/2011	-0.15	33.8	0.810	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	12.3	12.9	10.9 - 14.7	Acceptable	SM3120B	11/11/2011	-0.753	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	12.3	12.9	10.9 - 14.7	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.753	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	12.3	12.9	10.9 - 14.7	Acceptable	EPA 6010B 1996	11/11/2011	-0.753	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	13.4	12.9	10.9 - 14.7	Acceptable	EPA 200.8 5.5 1998	11/3/2011	1.20	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	13.4	12.9	10.9 - 14.7	Acceptable	EPA 6020 1974	11/3/2011	1.20	12.7	0.562	
WS Vanadium (cat# 856)												
1185	Vanadium	µg/L	13.4	12.9	10.9 - 14.7	Acceptable	SM3125B	11/3/2011	1.20	12.7	0.562	
WS Inorganic Disinfection #1 (cat# 5270)												
1570	Chlorate	µg/L	129	135	111 - 155	Acceptable	EPA 300.1 1 1997	10/20/2011	-0.5	133	8.64	
1595	Chlorite	µg/L	556	547	383 - 711	Acceptable	EPA 300.1 1 1997	10/20/2011	0.181	546	54.2	
WS Inorganic Disinfection #2 (cat# 5260)												
1535	Bromate	µg/L		21.4	15.0 - 27.8	Not Reported				21.0	3.07	
1540	Bromide	µg/L	327	327	252 - 405	Acceptable	EPA 300.0 2.1 1993	10/25/2011	-0.0753	328	21.0	
WS Inorganic Disinfection #2 (cat# 5260)												
1535	Bromate	µg/L		21.4	15.0 - 27.8	Not Reported				21.0	3.07	
1540	Bromide	µg/L	327	327	252 - 405	Acceptable	SM 4500Br ⁻ B 21st ED	10/25/2011	-0.0753	328	21.0	





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WS Inorganic Disinfection #2 (cat# 5260)

1535	Bromate	µg/L		21.4	15.0 - 27.8	Not Reported				21.0	3.07	
1540	Bromide	µg/L	334	327	252 - 405	Acceptable	EPA 300.0 2.1 1993	10/20/2011	0.259	328	21.0	

WS Inorganic Disinfection #2 (cat# 5260)

1535	Bromate	µg/L		21.4	15.0 - 27.8	Not Reported				21.0	3.07	
1540	Bromide	µg/L	334	327	252 - 405	Acceptable	SM4110B online	10/20/2011	0.259	328	21.0	

WS Inorganic Disinfection #2 (cat# 5260)

1535	Bromate	µg/L	20.0	21.4	15.0 - 27.8	Acceptable	EPA 300.1 1 1997	10/20/2011	-0.323	21.0	3.07	
1540	Bromide	µg/L	336	327	252 - 405	Acceptable	EPA 300.1 1 1997	10/20/2011	0.354	328	21.0	

WS Nitrite (cat# 594)

1840	Nitrite as N	mg/L	1.37	1.34	1.14 - 1.54	Acceptable	EPA 354.1	10/27/2011	0.606	1.33	0.0592	
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WS Nitrite (cat# 594)

1840	Nitrite as N	mg/L	1.37	1.34	1.14 - 1.54	Acceptable	SM4500NO2- B online	10/27/2011	0.606	1.33	0.0592	
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WS Nitrite (cat# 594)

1840	Nitrite as N	mg/L	1.37	1.34	1.14 - 1.54	Acceptable	EPA 300.0 2.1 1993	10/27/2011	0.606	1.33	0.0592	
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WS Nitrite (cat# 594)

1840	Nitrite as N	mg/L	1.37	1.34	1.14 - 1.54	Acceptable	SM4110B online	10/27/2011	0.606	1.33	0.0592	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	1.99	1.96	1.71 - 2.23	Acceptable	EPA 365.1 2 1993	10/24/2011	0.213	1.97	0.0884	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	2.08	1.96	1.71 - 2.23	Acceptable	EPA 365.3 1978	10/24/2011	1.23	1.97	0.0884	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	2.08	1.96	1.71 - 2.23	Acceptable	SM4500PB E online	10/24/2011	1.23	1.97	0.0884	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	2.04	1.96	1.71 - 2.23	Acceptable	EPA 300.0 2.1 1993	10/26/2011	0.779	1.97	0.0884	
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WS o-Phosphate Nutrients (cat# 558)

1870	ortho-Phosphate as P	mg/L	2.04	1.96	1.71 - 2.23	Acceptable	SM4110B online	10/26/2011	0.779	1.97	0.0884	
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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WS Residual Chlorine (cat# 593)												
1945	Free Residual Chlorine	mg/L	2.36	2.42	2.00 - 2.84	Acceptable	SM4500CI G online	11/9/2011	0.376	2.29	0.177	
1940	Total Residual Chlorine	mg/L	2.42	2.42	2.05 - 2.78	Acceptable	SM4500CI G online	11/9/2011	0.250	2.37	0.204	
WS Residual Chlorine (cat# 593)												
1945	Free Residual Chlorine	mg/L	2.36	2.42	2.00 - 2.84	Acceptable	SM4500CI F online	11/9/2011	0.376	2.29	0.177	
1940	Total Residual Chlorine	mg/L	2.42	2.42	2.05 - 2.78	Acceptable	SM4500CI F online	11/9/2011	0.250	2.37	0.204	
WS Residual Chlorine (cat# 593)												
1945	Free Residual Chlorine	mg/L	2.36	2.42	2.00 - 2.84	Acceptable	EPA 330.4 1978	11/9/2011	0.376	2.29	0.177	
1940	Total Residual Chlorine	mg/L	2.42	2.42	2.05 - 2.78	Acceptable	EPA 330.4 1978	11/9/2011	0.250	2.37	0.204	
WS Cyanide (cat# 556)												
1635	Cyanide	mg/L	0.384	0.372	0.279 - 0.465	Acceptable	EPA 335.2 1980	10/22/2011	0.412	0.368	0.0392	
WS Cyanide (cat# 556)												
1635	Cyanide	mg/L	0.384	0.372	0.279 - 0.465	Acceptable	SM4500CN E online	10/22/2011	0.412	0.368	0.0392	
WS Organic Carbon (cat# 557)												
1710	Dissolved Organic Carbon (DOC)	mg/L	2.96	2.68	2.20 - 3.20	Acceptable	SM5310D online	11/15/2011	1.22	2.75	0.172	
2040	Total Organic Carbon (TOC)	mg/L	2.96	2.68	2.20 - 3.20	Acceptable	SM5310D online	11/15/2011	1.18	2.76	0.170	
WS Organic Carbon (cat# 557)												
1710	Dissolved Organic Carbon (DOC)	mg/L	2.96	2.68	2.20 - 3.20	Acceptable	EPA 415.1 1974	11/15/2011	1.22	2.75	0.172	
2040	Total Organic Carbon (TOC)	mg/L	2.96	2.68	2.20 - 3.20	Acceptable	EPA 415.1 1974	11/15/2011	1.18	2.76	0.170	
WS Organic Carbon (cat# 557)												
1710	Dissolved Organic Carbon (DOC)	mg/L	2.97	2.68	2.20 - 3.20	Acceptable	SM5310B online	11/15/2011	1.28	2.75	0.172	
2040	Total Organic Carbon (TOC)	mg/L	2.97	2.68	2.20 - 3.20	Acceptable	SM5310B online	11/15/2011	1.23	2.76	0.170	
WS Perchlorate (cat# 903)												
1895	Perchlorate	µg/L	12.6	12.1	9.99 - 13.3	Acceptable	EPA 331.0 1.0 1/1/2005	10/21/2011	0.652	12.0	0.978	
WS Perchlorate (cat# 903)												
1895	Perchlorate	µg/L	11.2	12.1	9.99 - 13.3	Acceptable	EPA 314.0 1 1999	10/21/2011	-0.78	12.0	0.978	





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WS Perchlorate (cat# 903)												
1895	Perchlorate	µg/L	12.6	12.1	9.99 - 13.3	Acceptable	EPA 6850 2007	10/21/2011	0.652	12.0	0.978	
WS Silica (cat# 902)												
1990	Silica as SiO2	mg/L	12.8	13.0	11.0 - 15.0	Acceptable	EPA 200.7 5 1998	11/11/2011	-0.112	12.9	0.676	
WS Silica (cat# 902)												
1990	Silica as SiO2	mg/L	12.8	13.0	11.0 - 15.0	Acceptable	EPA 6010B 1996	11/11/2011	-0.112	12.9	0.676	
WS Silica (cat# 902)												
1990	Silica as SiO2	mg/L	12.8	13.0	11.0 - 15.0	Acceptable	SM3120B 21st ED 2005	11/11/2011	-0.112	12.9	0.676	
WS Surfactants - MBAS (cat# 901)												
2025	Surfactants - MBAS	mg/L	0.172	0.160	0.113 - 0.211	Acceptable	SM5540C online	11/7/2011	0.0746	0.169	0.0407	
WS Surfactants - MBAS (cat# 901)												
2025	Surfactants - MBAS	mg/L	0.172	0.160	0.113 - 0.211	Acceptable	EPA 425.1 1971	11/7/2011	0.0746	0.169	0.0407	
WS Corrosivity (cat# 900)												
1620	Corrosivity	S.I. @ 20°C	+1.48	1.71	1.31 - 2.11	Acceptable	SM2330B 18th ED 1992	11/1/2011	-0.795	1.56	0.0948	
WS Corrosivity (cat# 900)												
1620	Corrosivity	S.I. @ 20°C	+1.48	1.71	1.31 - 2.11	Acceptable	EPA 150.1 1982	11/1/2011	-0.795	1.56	0.0948	
WS Turbidity (cat# 592)												
2055	Turbidity	NTU	4.59	5.14	4.52 - 6.10	Acceptable	SM2130B online	10/20/2011	-1.39	5.02	0.311	
WS Turbidity (cat# 592)												
2055	Turbidity	NTU	4.59	5.14	4.52 - 6.10	Acceptable	EPA 180.1 2 1993	10/20/2011	-1.39	5.02	0.311	
WS UV 254 Absorbance (cat# 904)												
2060	UV 254 Absorbance	cm-1	0.172	0.189	0.153 - 0.253	Acceptable	SM5910B online	10/28/2011	-0.969	0.199	0.0279	



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ERA Customer Number: **C052701**

Laboratory Name: **Calscience
Environmental
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Microbiology Results





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WS MicrobE™ (Coliforms) (cat# 080C)

2500	Total Coliforms - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2500	Total Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			

Total Coliforms Evaluation : Acceptable

Fecal Coliforms Evaluation : Acceptable

E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli, Samples 1, 2 and 7

Total Coliform Organism - Enterobacter cloacae, Samples 3, 4 and 6

Negative (1) Coliform Organism - Proteus mirabilis, Sample 10

Negative (2) Coliform Organism - Pseudomonas aeruginosa, Sample 8

Blank - No Organism, Samples 5 and 9





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WS MicrobE™ (Coliforms) (cat# 080C) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2530	Fecal Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			

Total Coliforms Evaluation : Acceptable

Fecal Coliforms Evaluation : Acceptable

E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli, Samples 1, 2 and 7

Total Coliform Organism - Enterobacter cloacae, Samples 3, 4 and 6

Negative (1) Coliform Organism - Proteus mirabilis, Sample 10

Negative (2) Coliform Organism - Pseudomonas aeruginosa, Sample 8

Blank - No Organism, Samples 5 and 9





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WS MicrobE™ (Coliforms) (cat# 080C) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			
2525	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 online	11/10/2011	0			

Total Coliforms Evaluation : Acceptable

Fecal Coliforms Evaluation : Acceptable

E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli, Samples 1, 2 and 7

Total Coliform Organism - Enterobacter cloacae, Samples 3, 4 and 6

Negative (1) Coliform Organism - Proteus mirabilis, Sample 10

Negative (2) Coliform Organism - Pseudomonas aeruginosa, Sample 8

Blank - No Organism, Samples 5 and 9

WS Heterotrophic Plate Count (cat# 079)

2555	Heterotrophic Plate Count (MF, PP)	CFU/mL		66.0	46.0 - 79.0	Not Reported				60.1	8.27	
2555	Heterotrophic Plate Count (MPN)	MPN/mL	73.8	77.0	40.6 - 100	Acceptable	Simplate 2000	11/14/2011	0.666	63.8	15.0	



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WS WS SourceWatR™ MicrobE™ (cat# 595)

2500	Total Coliforms (MF)	CFU/100mL		32.0	18.0 - 64.0	Not Reported				34.0	11.4	
2530	Fecal Coliforms (MF)	CFU/100mL		32.0	2.00 - 41.0	Not Reported				9.33	9.77	
2525	E.coli (MF)	CFU/100mL		32.0	7.00 - 59.0	Not Reported				20.5	13.1	
2500	Total Coliforms (MPN)	MPN/100mL	38.4	56.0	25.3 - 88.1	Acceptable	SM9223 COLert18 online	11/10/2011	-0.565	47.2	15.7	
2530	Fecal Coliforms (MPN)	MPN/100mL	38.4	56.0	17.9 - 90.2	Acceptable	SM9223 COLert18 online	11/10/2011	-0.102	40.2	18.1	
2525	E.coli (MPN)	MPN/100mL	38.4	56.0	26.2 - 82.6	Acceptable	SM9223 COLert18 online	11/10/2011	-0.578	46.5	14.1	



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Laboratory Name: **Calscience
Environmental
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Organic Results





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WS Halomethanes (THMs) (cat# 842)

4395	Bromodichloromethane	µg/L	25.0	21.9	17.5 - 26.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.19	22.6	2.02	
4400	Bromoform	µg/L	23.3	19.5	15.6 - 23.4	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.59	19.6	2.35	
4575	Chlorodibromomethane	µg/L	11.8	11.0	8.80 - 13.2	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.518	11.2	1.13	
4505	Chloroform	µg/L	22.1	19.1	15.3 - 22.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.44	19.6	1.71	

WS Regulated Volatiles (cat# 840)

4375	Benzene	µg/L	16.1	14.9	11.9 - 17.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.708	15.0	1.48	
4455	Carbon tetrachloride	µg/L	23.9	19.6	15.7 - 23.5	Not Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.98	19.2	2.36	
4475	Chlorobenzene	µg/L	12.8	13.6	10.9 - 16.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.67	13.7	1.32	
4610	1,2-Dichlorobenzene	µg/L	15.0	12.9	10.3 - 15.5	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.46	13.2	1.22	
4620	1,4-Dichlorobenzene	µg/L	4.69	4.42	2.65 - 6.19	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.28	4.07	0.480	
4635	1,2-Dichloroethane	µg/L	20.8	18.9	15.1 - 22.7	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.40	18.4	1.72	
4640	1,1-Dichloroethylene	µg/L	16.3	14.2	11.4 - 17.0	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.877	14.9	1.63	
4645	cis-1,2-Dichloroethylene	µg/L	8.67	7.82	4.69 - 10.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.27	7.73	0.734	
4700	trans-1,2-Dichloroethylene	µg/L	34.4	29.4	23.5 - 35.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.48	30.3	2.75	
4655	1,2-Dichloropropane	µg/L	3.93	4.20	2.52 - 5.88	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.624	4.15	0.353	
4765	Ethylbenzene	µg/L	3.34	3.84	2.30 - 5.38	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-1.11	3.75	0.371	
4975	Methylene chloride (Dichloromethane)	µg/L	17.2	16.6	13.3 - 19.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.135	17.0	1.52	
5100	Styrene	µg/L	6.92	7.11	4.27 - 9.95	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.0337	6.94	0.686	
5115	Tetrachloroethylene	µg/L	2.54	2.83	1.70 - 3.96	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.00196	2.54	0.316	
5140	Toluene	µg/L	6.50	7.24	4.34 - 10.1	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.584	6.85	0.608	
5155	1,2,4-Trichlorobenzene	µg/L	6.91	8.76	5.26 - 12.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-1.11	8.04	1.02	
5160	1,1,1-Trichloroethane	µg/L	8.19	7.48	4.49 - 10.5	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.79	6.91	0.714	
5165	1,1,2-Trichloroethane	µg/L	18.3	18.6	14.9 - 22.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.0737	18.4	1.40	
5170	Trichloroethylene	µg/L	17.6	18.3	14.6 - 22.0	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.237	17.2	1.83	
5235	Vinyl chloride	µg/L	15.6	13.7	8.22 - 19.2	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.0226	15.5	2.86	
5260	Xylenes, total	µg/L	21.2	22.0	17.6 - 26.4	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.148	21.5	1.87	





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WS Unregulated Volatiles (cat# 841)

4385	Bromobenzene	µg/L	22.2	20.7	16.6 - 24.8	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.693	21.0	1.76	
4390	Bromochloromethane	µg/L	39.3	33.6	26.9 - 40.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	1.40	34.2	3.65	
4950	Bromomethane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
5000	tert-Butyl methyl ether (MTBE)	µg/L	29.5	28.5	17.1 - 39.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.225	29.0	2.36	
4435	n-Butylbenzene	µg/L	31.2	31.7	25.4 - 38.0	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.0265	31.3	3.59	
4440	sec-Butylbenzene	µg/L	9.61	9.39	5.63 - 13.1	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.421	9.92	0.748	
4445	tert-Butylbenzene	µg/L	44.4	45.3	36.2 - 54.4	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.165	45.0	3.68	
4485	Chloroethane	µg/L	19.3	18.4	11.0 - 25.8	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.321	20.4	3.32	
4960	Chloromethane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4535	2-Chlorotoluene	µg/L	20.8	19.6	15.7 - 23.5	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.656	19.8	1.44	
4540	4-Chlorotoluene	µg/L	16.7	17.8	14.2 - 21.4	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.659	17.8	1.69	
4595	Dibromomethane	µg/L	16.4	16.6	13.3 - 19.9	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.254	16.8	1.66	
4615	1,3-Dichlorobenzene	µg/L	32.9	30.0	24.0 - 36.0	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.809	31.2	2.16	
4625	Dichlorodifluoromethane (Freon 12)	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4630	1,1-Dichloroethane	µg/L	10.2	9.82	5.89 - 13.7	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.142	10.3	0.688	
4660	1,3-Dichloropropane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4665	2,2-Dichloropropane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4670	1,1-Dichloropropene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
4680	cis-1,3-Dichloropropene	µg/L	35.6	39.4	31.5 - 47.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.344	37.1	4.43	
4685	trans-1,3-Dichloropropene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		8.30	2.12	
5175	Fluorotrichloromethane	µg/L	18.4	17.3	10.4 - 24.2	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.115	18.7	2.88	



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WS Unregulated Volatiles (cat# 841) (Continued)

4835	Hexachlorobutadiene	µg/L	6.22	5.97	3.58 - 8.36	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.152	6.10	0.784	
4900	Isopropylbenzene	µg/L	8.95	9.80	5.88 - 13.7	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.529	9.65	1.32	
4910	4-Isopropyltoluene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		41.9	0.00	
5005	Naphthalene	µg/L	6.91	10.2	6.12 - 14.3	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-1.91	9.60	1.41	
5090	n-Propylbenzene	µg/L	35.5	34.0	27.2 - 40.8	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.303	34.5	3.23	
5105	1,1,1,2-Tetrachloroethane	µg/L	14.1	12.9	7.74 - 18.1	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.815	12.9	1.43	
5110	1,1,2,2-Tetrachloroethane	µg/L	21.5	21.0	16.8 - 25.2	Acceptable	EPA 524.2 4.1 1995	10/18/2011	-0.00558	21.5	2.50	
5150	1,2,3-Trichlorobenzene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.00	0.00	
5180	1,2,3-Trichloropropane (TCP)	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		4.52	0.410	
5210	1,2,4-Trimethylbenzene	µg/L	42.8	38.9	31.1 - 46.7	Acceptable	EPA 524.2 4.1 1995	10/18/2011	0.899	39.9	3.24	
5215	1,3,5-Trimethylbenzene	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	10/18/2011		0.520	0.00	





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WS Pesticides (cat# 850)

7005	Alachlor	µg/L		12.2	6.71 - 17.7	Not Reported				12.5	1.50	
7025	Aldrin	µg/L	1.40	1.61	0.682 - 2.02	Acceptable	EPA 508 3.1 1995	10/20/2011	-0.124	1.44	0.301	
7065	Atrazine	µg/L		4.44	2.44 - 6.44	Not Reported				5.02	1.23	
7120	gamma-BHC (Lindane)	µg/L	2.60	3.11	1.71 - 4.51	Acceptable	EPA 508 3.1 1995	10/20/2011	-1.32	3.07	0.359	
7130	Bromacil	µg/L		7.00	3.85 - 10.2	Not Reported				7.94	0.226	
7160	Butachlor	µg/L		27.3	14.5 - 35.0	Not Reported				30.0	6.05	
7410	Diazinon	µg/L		< 0.100	0.00 - 0.100	Not Reported				0.00	0.00	
7470	Dieldrin	µg/L	2.50	2.98	1.85 - 3.85	Acceptable	EPA 508 3.1 1995	10/20/2011	-1.04	2.88	0.362	
7540	Endrin	µg/L	2.40	2.92	2.04 - 3.80	Acceptable	EPA 508 3.1 1995	10/20/2011	-1.28	2.96	0.443	
7685	Heptachlor	µg/L	3.50	3.91	2.15 - 5.67	Acceptable	EPA 508 3.1 1995	10/20/2011	-0.184	3.60	0.517	
7690	Heptachlor epoxide (beta)	µg/L	1.50	1.66	0.913 - 2.41	Acceptable	EPA 508 3.1 1995	10/20/2011	-0.588	1.66	0.272	
6275	Hexachlorobenzene	µg/L		3.82	1.76 - 4.82	Not Reported				3.68	0.321	
6285	Hexachlorocyclopentadiene	µg/L		6.53	1.12 - 9.41	Not Reported				6.23	1.73	
7810	Methoxychlor	µg/L	27.0	27.7	15.2 - 40.2	Acceptable	EPA 508 3.1 1995	10/20/2011	-0.373	28.6	4.29	
7835	Metolachlor	µg/L		< 5.30	0.00 - 5.30	Not Reported				0.00	0.00	
7845	Metribuzin	µg/L		3.27	0.911 - 5.31	Not Reported				3.04	0.241	
7875	Molinate (Ordram)	µg/L		21.0	11.6 - 30.4	Not Reported				22.2	1.96	
8035	Prometon	µg/L		< 0.100	0.00 - 0.100	Not Reported				0.00	0.00	
8045	Propachlor	µg/L		1.73	0.954 - 2.39	Not Reported				1.80	0.183	
8125	Simazine	µg/L		9.85	2.32 - 15.0	Not Reported				11.1	2.49	
8220	Thiobencarb	µg/L		< 0.100	0.00 - 0.100	Not Reported				0.00	0.00	

WS Pesticides (cat# 850) (Continued)

8295	Trifluralin	µg/L		3.03	1.54 - 3.85	Not Reported				3.04	0.102	
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WS Chlordane (cat# 845)

7250	Chlordane, technical	µg/L	3.60	3.86	2.12 - 5.60	Acceptable	EPA 508 3.1 1995	10/24/2011	-0.196	3.67	0.374	
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WS Toxaphene (cat# 844)

8250	Toxaphene	µg/L	9.40	9.95	5.47 - 14.4	Acceptable	EPA 508 3.1 1995	10/21/2011	-0.379	10.9	3.86	
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WS EDB/DBCP/TCP (cat# 847)

4570	Dibromochloropropane (DBCP)	µg/L		0.193	0.116 - 0.270	Not Reported				0.199	0.0426	
4585	Ethylene Dibromide (EDB)	µg/L		0.716	0.430 - 1.00	Not Reported				0.701	0.125	
5180	1,2,3-Trichloropropane (TCP)	µg/L	1.16	1.02	0.612 - 1.43	Acceptable	SRL 524M-TCP	10/21/2011	1.37	1.03	0.0937	

WS EDB/DBCP/TCP (cat# 847)

4570	Dibromochloropropane (DBCP)	µg/L	0.171	0.193	0.116 - 0.270	Acceptable	EPA 504.1 1.1 1995	10/19/2011	-0.655	0.199	0.0426	
4585	Ethylene Dibromide (EDB)	µg/L	0.672	0.716	0.430 - 1.00	Acceptable	EPA 504.1 1.1 1995	10/19/2011	-0.231	0.701	0.125	
5180	1,2,3-Trichloropropane (TCP)	µg/L		1.02	0.612 - 1.43	Not Reported				1.03	0.0937	

WS PCBs as Decachlorobiphenyl (cat# 839)

8880	Aroclor 1016	µg/L		< 0.260	0.00 - 0.260	Not Reported				0.00	0.00	
8885	Aroclor 1221	µg/L		< 0.190	0.00 - 0.190	Not Reported				0.00	0.00	
8890	Aroclor 1232	µg/L		< 0.230	0.00 - 0.230	Not Reported				0.00	0.00	
8895	Aroclor 1242	µg/L		< 0.260	0.00 - 0.260	Not Reported				0.00	0.00	
8900	Aroclor 1248	µg/L		2.24	1.27 - 2.72	Not Reported				2.13	0.510	
8905	Aroclor 1254	µg/L		< 0.330	0.00 - 0.330	Not Reported				0.00	0.00	
8910	Aroclor 1260	µg/L		< 0.360	0.00 - 0.360	Not Reported				0.00	0.00	
8872	PCB Aroclor Identity	Identity		1248		Not Reported						
9105	PCB as Decachlorobiphenyl	µg/L	3.00	3.75	0.375 - 7.50	Acceptable	EPA 508A 1995	10/20/2011	0.143	2.93	0.460	





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CA00111
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NELAC Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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WS Regulated Semivolatiles Ampule #1 (cat# 848)

5500	Acenaphthene	µg/L	< 1.00	< 0.500	0.00 - 0.500	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	
5505	Acenaphthylene	µg/L	3.91	4.13	2.06 - 6.20	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.244	3.85	0.242	
5555	Anthracene	µg/L	< 1.00	< 0.500	0.00 - 0.500	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	
5575	Benzo(a)anthracene	µg/L	7.92	7.90	3.95 - 11.8	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.365	7.51	1.12	
5585	Benzo(b)fluoranthene	µg/L	4.53	4.90	2.45 - 7.35	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.143	4.58	0.356	
5600	Benzo(k)fluoranthene	µg/L	7.06	7.08	3.54 - 10.6	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.343	6.84	0.654	
5590	Benzo(g,h,i)perylene	µg/L	7.68	7.97	3.98 - 12.0	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.605	7.29	0.641	
5580	Benzo(a)pyrene	µg/L	0.234	0.302	0.0304 - 0.473	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-1.0	0.323	0.0886	
5670	Butylbenzylphthalate	µg/L	32.0	31.9	12.8 - 51.0	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.205	32.7	3.59	
5855	Chrysene	µg/L	9.88	9.62	4.81 - 14.4	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.823	8.94	1.15	
5895	Dibenz(a,h)anthracene	µg/L	4.02	5.37	2.68 - 8.06	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-1.41	4.78	0.537	
6070	Diethylphthalate	µg/L	36.1	36.1	14.4 - 57.8	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.0663	36.3	3.58	
6135	Dimethylphthalate	µg/L	< 10.0	< 4.00	0.00 - 4.00	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	
5925	Di-n-butylphthalate	µg/L	33.6	32.0	12.8 - 51.2	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.205	32.6	4.83	
6200	Di-n-octylphthalate	µg/L	38.7	38.3	15.3 - 61.3	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.879	36.2	2.84	
6062	bis(2-Ethylhexyl)adipate	µg/L	27.7	26.1	10.1 - 37.9	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.552	30.2	4.63	
6065	bis(2-Ethylhexyl)phthalate	µg/L	45.8	44.8	19.4 - 69.9	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.204	47.0	5.91	
6265	Fluoranthene	µg/L	2.29	2.37	1.18 - 3.56	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.392	2.34	0.122	
6270	Fluorene	µg/L	8.91	8.83	4.42 - 13.2	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.236	8.81	0.419	
6315	Indeno(1,2,3-cd)pyrene	µg/L	7.33	8.04	4.02 - 12.1	Acceptable	EPA 525.1 2.2 1991	10/21/2011	-0.467	7.74	0.889	
5005	Naphthalene	µg/L	< 2.00	< 1.20	0.00 - 1.20	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	

WS Regulated Semivolatiles Ampule #1 (cat# 848) (Continued)

6615	Phenanthrene	µg/L	< 1.00	< 0.500	0.00 - 0.500	Acceptable	EPA 525.1 2.2 1991	10/21/2011		0.00	0.00	
6665	Pyrene	µg/L	1.55	1.55	0.775 - 2.32	Acceptable	EPA 525.1 2.2 1991	10/21/2011	0.838	1.40	0.179	





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WS Chlorinated Acid Herbicides (cat# 851)

8505	Acifluorfen	µg/L		38.4	16.4 - 51.9	Not Reported				55.2	20.4	
8530	Bentazon	µg/L	< 2.00	< 1.50	0.00 - 1.50	Acceptable	EPA 515.1 4.1 1995	10/17/2011		0.00	0.00	
8540	Chloramben	µg/L		47.9	24.0 - 71.8	Not Reported				55.2	0.00	
8545	2,4-D	µg/L	29.2	34.6	17.3 - 51.9	Acceptable	EPA 515.1 4.1 1995	10/17/2011	-1.19	33.4	3.56	
8550	Dacthal diacid (DCPA)	µg/L		60.1	6.01 - 104	Not Reported				57.8	4.60	
8555	Dalapon	µg/L	113	145	14.5 - 195	Acceptable	EPA 515.1 4.1 1995	10/17/2011	-0.654	127	21.4	
8560	2,4-DB	µg/L		83.5	37.4 - 104	Not Reported				76.5	0.00	
8595	Dicamba	µg/L		78.2	20.5 - 108	Not Reported				76.7	6.94	
8600	3,5-Dichlorobenzoic acid	µg/L		75.3	37.6 - 113	Not Reported				68.4	0.354	
8605	Dichlorprop	µg/L		29.7	16.6 - 35.5	Not Reported				30.4	0.141	
8620	Dinoseb	µg/L	32.0	39.6	8.41 - 56.0	Acceptable	EPA 515.1 4.1 1995	10/17/2011	-1.24	37.5	4.44	
6500	4-Nitrophenol	µg/L		85.3	8.53 - 120	Not Reported				0.00	0.00	
6605	Pentachlorophenol	µg/L		84.4	42.2 - 127	Not Reported				80.6	8.26	
8645	Picloram	µg/L	37.4	35.6	8.21 - 50.2	Acceptable	EPA 515.1 4.1 1995	10/17/2011	0.653	34.3	4.79	
8655	2,4,5-T	µg/L		47.3	18.6 - 62.2	Not Reported				30.8	13.8	
8650	2,4,5-TP (Silvex)	µg/L	29.4	30.2	15.1 - 45.3	Acceptable	EPA 515.1 4.1 1995	10/17/2011	0.164	29.0	2.44	

WS Regulated Semivolatiles #2 Herbicides (cat# 849)

9390	Diquat	µg/L		17.6	3.54 - 24.9	Not Reported				14.4	3.41	
7525	Endothall	µg/L	410	411	136 - 581	Acceptable	EPA 548.1 1 1992	10/15/2011	0.533	369	77.4	
9411	Glyphosate	µg/L		383	324 - 470	Not Reported				388	18.4	
9528	Paraquat	µg/L		77.4	38.7 - 116	Not Reported				66.4	8.40	

