MOORE TWINING ASSOCIATES, INC.

California ELAP Certificate # 1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

October 18, 2012

Work Order #: 2I27033

Calvin Yang
RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova, CA 95670-6114

RE: MUN Evaluation

Enclosed are the analytical results for samples received by our laboratory on 09/27/12 . For your reference, these analyses have been assigned laboratory work order number 2I27033 .

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Lisa Montijo
Client Services Assistant

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
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California ELAP Certificate # 1371

RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AWL120925-20	2I27033-01	Surface Water	09/25/12 07:22	09/27/12 16:04
AWL120925-21	2I27033-02	Surface Water	09/25/12 07:39	09/27/12 16:04
AWL120925-22	2I27033-03	Waste Water	09/25/12 08:00	09/27/12 16:04
AWL120925-24	2I27033-04	Surface Water	09/25/12 08:45	09/27/12 16:04
AWL120925-25	2I27033-05	Surface Water	09/25/12 08:55	09/27/12 16:04
AWL120925-26	2I27033-06	Surface Water	09/25/12 09:15	09/27/12 16:04
AWL120925-27	2I27033-07	Surface Water	09/25/12 09:34	09/27/12 16:04
AWL120925-28	2I27033-08	Surface Water	09/25/12 10:02	09/27/12 16:04
AWL120925-05	2I27033-09	Surface Water	09/25/12 05:00	09/27/12 16:04
AWL120925-07	2I27033-10	Waste Water	09/25/12 08:00	09/27/12 16:04
AWL120925-30	2I27033-11	Surface Water	09/25/12 11:12	09/27/12 16:04
AWL120925-31	2I27033-12	Surface Water	09/25/12 11:30	09/27/12 16:04
AWL120925-32	2I27033-13	Surface Water	09/25/12 12:04	09/27/12 16:04
AWL120925-33	2I27033-14	Surface Water	09/25/12 12:35	09/27/12 16:04
AWL120925-34	2I27033-15	Surface Water	09/25/12 12:55	09/27/12 16:04
AWL120925-35	2I27033-16	Surface Water	09/25/12 13:15	09/27/12 16:04
AWL120925-36	2I27033-17	Surface Water	09/25/12 13:30	09/27/12 16:04
AWL120925-37	2I27033-18	Waste Water	09/25/12 13:57	09/27/12 16:04
AWL120925-38	2I27033-19	Waste Water	09/25/12 13:57	09/27/12 16:04
AWL120925-39	2I27033-20	Surface Water	09/25/12 05:00	09/27/12 16:04

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-20

2I27033-01 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**18**	2.0	0.018	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**15**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.29**	0.10	0.0036	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**190**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**46**	2.0	0.0094	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**300**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**2.1**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**3.2**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.11**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.19**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**34**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0077**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cobalt	**0.0017**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0052**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Iron	**3.3**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.79**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**24**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.22**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.13**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0027**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0089**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0063**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**49**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.011**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	**0.0082**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-21

2I27033-02 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**28**	2.0	0.018	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**5.7**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	**0.45**	0.10	0.0036	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**280**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**69**	2.0	0.0094	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**470**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**4.8**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**9.3**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.11**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.26**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**47**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.013**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cobalt	**0.0033**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Copper	**0.011**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Iron	**7.4**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**1.8**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Magnesium	**40**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.56**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.17**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0045**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.020**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.012**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**89**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.019**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	**0.019**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-22

2I27033-03 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**64**	2.0	0.018	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**9.7**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	**0.53**	0.10	0.0036	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**70**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**31**	2.0	0.0094	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**500**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**0.034**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**3.5**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.032**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.38**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**14**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	ND	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cobalt	ND	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Copper	**0.0038**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**0.031**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Lead	**0.094**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**8.6**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.00058**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Mercury	ND	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	
Molybdenum	**0.0043**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0019**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Selenium	ND	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**140**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	ND	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	**0.028**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-24

2I27033-04 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**69**	4.0	0.037	mg/L	2	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**7.0**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	**0.70**	0.20	0.0072	mg/L	2	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**350**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**160**	4.0	0.019	mg/L	2	T2J0322	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**910**	20	16	mg/L	2	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**2.4**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	**0.0025**	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Arsenic	**41**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.075**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.61**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**55**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0067**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cobalt	**0.0027**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Copper	**0.0083**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Iron	**3.4**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**1.2**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Magnesium	**52**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.86**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.068**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.014**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Nickel	**0.013**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0089**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**250**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.021**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	**0.0095**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-25

2I27033-05 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**66**	2.0	0.018	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**8.4**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	**0.55**	0.10	0.0036	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**78**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**40**	2.0	0.0094	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**500**	20	16	mg/L	2	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**0.52**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**4.9**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.034**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.40**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**14**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0014**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	**0.00067**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0047**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**0.69**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.25**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**10**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.035**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.16**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0048**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0034**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Selenium	**0.0072**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**150**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0030**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.027**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-26

2I27033-06 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**20**	2.0	0.018	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**4.3**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	**0.43**	0.10	0.0036	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**250**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**45**	2.0	0.0094	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**410**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**1.6**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**7.2**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.077**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.24**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**44**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0042**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	**0.0013**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0037**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**2.3**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.63**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**35**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.18**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.11**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0039**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0085**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0030**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**75**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.011**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	**0.0061**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-27

2I27033-07 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**34**	2.0	0.018	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	ND	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.46**	0.10	0.0036	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**210**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**54**	2.0	0.0094	mg/L	1	T2J0322	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**440**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**1.1**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	**0.0015**	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Arsenic	**6.9**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.063**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.29**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**36**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0026**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	**0.0012**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0039**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**1.7**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.51**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**29**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.13**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.19**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0045**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0067**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0054**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**95**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0081**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.0097**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-28

2I27033-08 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**18**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**7.0**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	**0.30**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**190**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**46**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**300**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**2.2**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	**0.0029**	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Arsenic	**3.4**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.11**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.19**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**35**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0057**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cobalt	**0.0018**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0046**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**3.3**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.70**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**25**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.18**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.095**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0028**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0090**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0078**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**53**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.011**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	**0.0086**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-05

2I27033-09 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	ND	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**9.7**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	ND	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	ND	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	ND	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	ND	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	ND	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	**0.0018**	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Arsenic	ND	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	ND	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.0098**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	ND	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	ND	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cobalt	ND	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Copper	ND	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Iron	ND	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	ND	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Magnesium	ND	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.00040**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Mercury	ND	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	
Molybdenum	ND	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Nickel	ND	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0044**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	ND	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	ND	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	ND	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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California ELAP Certificate # 1371

RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-07

2I27033-10 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**64**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**12**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.54**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**71**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**31**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**520**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**0.020**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**3.5**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.033**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.39**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**14**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	ND	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cobalt	ND	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Copper	**0.0044**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**0.028**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Lead	**0.093**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**8.6**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.00035**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Mercury	**0.062**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0050**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Nickel	**0.0014**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Selenium	**0.0040**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**140**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	ND	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	**0.029**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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California ELAP Certificate # 1371

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Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-30

2I27033-11 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**12**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Hexavalent Chromium	**11**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.17**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Hardness (Total)	**92**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**20**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/04/12	EPA 300.0	
Total Dissolved Solids	**130**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**1.3**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**1.8**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.050**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.095**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**19**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0028**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	**0.00089**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0031**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**1.8**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.37**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**11**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.12**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.16**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0019**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0045**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Selenium	**0.0050**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**26**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0088**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.0045**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-31

2I27033-12 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**5.9**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hexavalent Chromium	**16**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.21**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hardness (Total)	**110**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**18**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Total Dissolved Solids	**160**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**0.37**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	**0.0016**	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Arsenic	**2.6**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.054**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.13**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**20**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0010**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	ND	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Copper	**0.0025**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**1.2**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.24**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**15**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.11**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	ND	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	
Molybdenum	**0.0014**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0030**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Selenium	**0.0083**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**28**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0046**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.0016**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-32

2I27033-13 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**6.4**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hexavalent Chromium	**16**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.19**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hardness (Total)	**250**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**11**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Total Dissolved Solids	**280**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**1.3**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	**0.0014**	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Arsenic	**3.8**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.17**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.12**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**47**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0042**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	**0.0014**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0038**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**1.9**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.43**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**32**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.25**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	ND	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	
Molybdenum	**0.0020**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0076**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0092**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**21**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0080**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.0050**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-33

2I27033-14 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**5.4**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hexavalent Chromium	ND	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.15**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hardness (Total)	**230**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**12**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Total Dissolved Solids	**270**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**0.81**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**3.4**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.13**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.11**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**41**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0029**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	**0.00079**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0027**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**1.3**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.27**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**30**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.24**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.14**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0017**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0060**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0098**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**24**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0068**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.0034**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-34

2I27033-15 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**13**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hexavalent Chromium	**8.4**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	**0.35**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hardness (Total)	**180**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**40**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Total Dissolved Solids	**290**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**3.4**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	**0.0023**	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Arsenic	**2.4**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.094**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.20**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**30**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.010**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cobalt	**0.0026**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Copper	**0.0090**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Iron	**4.9**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**1.3**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Magnesium	**25**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.29**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.17**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0016**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.012**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Selenium	**0.0037**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**54**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.016**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Zinc	**0.016**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	

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Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-35

2I27033-16 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**13**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hexavalent Chromium	**9.7**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	**J**
Fluoride	**0.34**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hardness (Total)	**200**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**32**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Total Dissolved Solids	**300**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**0.62**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**1.9**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.089**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.18**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**38**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0025**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	**0.00071**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0027**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**0.86**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.20**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**25**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.071**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.078**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	**J**
Molybdenum	**0.0010**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0044**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Selenium	**0.0071**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**47**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0071**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.0021**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-36

2I27033-17 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**18**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hexavalent Chromium	**16**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.31**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hardness (Total)	**180**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**35**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Total Dissolved Solids	**300**	10	8.1	mg/L	1	T2J0119	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**0.65**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Antimony	ND	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Arsenic	**1.8**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.078**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.18**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**33**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0027**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	**0.00063**	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Copper	**0.0026**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**0.91**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Lead	**0.35**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**23**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.055**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Mercury	**0.21**	0.20	0.062	µg/L	1	T2J0908	10/10/12	10/10/12	EPA 7470A	
Molybdenum	**0.0024**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Nickel	**0.0041**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Selenium	**0.0073**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**48**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0073**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.0055**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-36

2I27033-17 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Chloroethane	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chloroform	**0.93**	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-36

2I27033-17 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Bromobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*95.2 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*103 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.4 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	

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MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-37

2I27033-18 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Chloride	**57**	2.0	0.018	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hexavalent Chromium	**12**	10	2.6	µg/L	1	T2J0602	10/06/12	10/11/12	EPA 7196A	
Fluoride	**0.37**	0.10	0.0036	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Hardness (Total)	**180**	0.66		mg equiv. CaCO3/L	1	[CALC]	10/08/12	10/10/12	SM2340B	
Sulfate as SO4	**58**	2.0	0.0094	mg/L	1	T2J0323	10/03/12	10/05/12	EPA 300.0	
Total Dissolved Solids	**500**	10	8.1	mg/L	1	T2J0120	10/02/12	10/04/12	SM 2540C	
Metals - Totals										
Aluminum	**0.034**	0.050	0.0072	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Antimony	**0.0037**	0.0050	0.0014	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Arsenic	**1.9**	1.0	0.15	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Barium	**0.075**	0.010	0.00013	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Beryllium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Boron	**0.25**	0.050	0.00083	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Cadmium	ND	0.0010	0.00020	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Calcium	**29**	0.10	0.0076	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Chromium	**0.0026**	0.0050	0.00091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Cobalt	ND	0.0020	0.00056	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Copper	**0.0039**	0.0050	0.00095	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Iron	**0.061**	0.10	0.017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Lead	**0.10**	1.0	0.029	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	**J**
Magnesium	**27**	0.10	0.0091	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Manganese	**0.00036**	0.0050	0.00017	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Mercury	ND	0.20	0.062	µg/L	1	T2J1016	10/11/12	10/11/12	EPA 7470A	
Molybdenum	**0.0080**	0.0050	0.00075	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Nickel	**0.0015**	0.0050	0.00058	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Selenium	**0.0032**	0.020	0.0018	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Silver	ND	0.0050	0.0011	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Sodium	**94**	1.0	0.26	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2J0802	10/08/12	10/09/12	EPA 200.8	
Vanadium	**0.0077**	0.010	0.0030	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	**J**
Zinc	**0.030**	0.0050	0.00080	mg/L	1	T2J0813	10/08/12	10/10/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

RWQCB - Sacramento
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Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-37

2I27033-18 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Chloroethane	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chloroform	**48**	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromodichloromethane	**16**	0.50	0.13	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Dibromochloromethane	**2.8**	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	

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Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-37

2I27033-18 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Bromobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*95.9 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*101 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.6 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-38

2I27033-19 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chloroform	**48**	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromodichloromethane	**16**	0.50	0.13	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Dibromochloromethane	**2.7**	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	

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California ELAP Certificate # 1371

RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-38

2I27033-19 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
o-Xylene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*97.0 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*103 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*95.6 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	

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California ELAP Certificate # 1371

RWQCB - Sacramento
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Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-39

2I27033-20 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	

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11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

AWL120925-39

2I27033-20 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
o-Xylene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2J0107	10/01/12	10/01/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*94.9 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*98.9 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.7 %*	*70-130*				*T2J0107*	*10/01/12*	*10/01/12*	*EPA 8260B*	

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California ELAP Certificate # 1371

RWQCB - Sacramento	Project: MUN Evaluation	
11020 Sun Center Drive, Suite # 200	Project Number: 10-023-150	**Reported:**
Rancho Cordova CA, 95670-6114	Project Manager: Calvin Yang	**10/18/12**

Notes and Definitions

RPD3	The RPD is out of range for this spike and its duplicate due to a low or high bias of one of the two spikes.
MS4	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration.
MS2	Recovery for this analyte was biased high; associated blank spike recoveries are within range.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
BS1	Recovery for this analyte was biased high. Results were accepted based on duplicate results.
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
RPD	Relative Percent Difference
MDL	Method Detection Limit

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RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0119										
Blank (T2J0119-BLK1)				Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	ND	10	mg/L							
LCS (T2J0119-BS1)				Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	236	10	mg/L	240		98.1	80-120		20	
LCS Dup (T2J0119-BSD1)				Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	232	10	mg/L	240		96.9	80-120	1.28	20	
Duplicate (T2J0119-DUP1)		**Source: 2I26014-01**		Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	708	20	mg/L		623			12.8	20	
Duplicate (T2J0119-DUP2)		**Source: 2I27033-01**		Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	327	10	mg/L		300			8.61	20	
Batch T2J0120										
Blank (T2J0120-BLK1)				Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	ND	10	mg/L							
LCS (T2J0120-BS1)				Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	236	10	mg/L	240		98.1	80-120		20	
LCS Dup (T2J0120-BSD1)				Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	230	10	mg/L	240		96.0	80-120	2.15	20	
Duplicate (T2J0120-DUP1)		**Source: 2I26057-01**		Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	2280	20	mg/L		2270			0.176	20	
Duplicate (T2J0120-DUP2)		**Source: 2I26057-03**		Prepared: 10/02/12 Analyzed: 10/04/12						
Total Dissolved Solids	727	20	mg/L		718			1.25	20	
Batch T2J0322										
Blank (T2J0322-BLK1)				Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	ND	0.10	mg/L							
Chloride	ND	2.0	mg/L							
Sulfate as SO4	ND	2.0	mg/L							
LCS (T2J0322-BS1)				Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	2.01	0.10	mg/L	2.00		101	90-110		20	
Chloride	49.9	2.0	mg/L	50.0		99.8	90-110		20	
Sulfate as SO4	49.6	2.0	mg/L	50.0		99.2	90-110		20	
LCS Dup (T2J0322-BSD1)				Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	2.03	0.10	mg/L	2.00		101	90-110	0.604	20	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0322										
LCS Dup (T2J0322-BSD1)				Prepared: 10/03/12 Analyzed: 10/04/12						
Chloride	49.9	2.0	mg/L	50.0		99.9	90-110	0.0813	20	
Sulfate as SO4	49.7	2.0	mg/L	50.0		99.5	90-110	0.278	20	
Matrix Spike (T2J0322-MS1)		**Source: 2I27032-01**		Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	4.03	0.20	mg/L	4.00	0.0155	100	48.9-155		20	
Chloride	99.4	4.0	mg/L	100	1.03	98.4	48-147		15	
Sulfate as SO4	99.6	4.0	mg/L	100	1.37	98.2	70-130		20	
Matrix Spike (T2J0322-MS2)		**Source: 2I27032-13**		Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	4.11	0.20	mg/L	4.00	0.0978	100	48.9-155		20	
Chloride	108	4.0	mg/L	100	10.4	97.8	48-147		15	
Sulfate as SO4	100	4.0	mg/L	100	3.01	97.1	70-130		20	
Matrix Spike Dup (T2J0322-MSD1)		**Source: 2I27032-01**		Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	3.99	0.20	mg/L	4.00	0.0155	99.4	48.9-155	0.923	20	
Chloride	98.5	4.0	mg/L	100	1.03	97.5	48-147	0.976	15	
Sulfate as SO4	99.4	4.0	mg/L	100	1.37	98.0	70-130	0.195	20	
Matrix Spike Dup (T2J0322-MSD2)		**Source: 2I27032-13**		Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	4.14	0.20	mg/L	4.00	0.0978	101	48.9-155	0.674	20	
Chloride	110	4.0	mg/L	100	10.4	99.3	48-147	1.36	15	
Sulfate as SO4	102	4.0	mg/L	100	3.01	99.2	70-130	2.06	20	
Batch T2J0323										
Blank (T2J0323-BLK1)				Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	ND	0.10	mg/L							
Chloride	ND	2.0	mg/L							
Sulfate as SO4	ND	2.0	mg/L							
LCS (T2J0323-BS1)				Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	1.97	0.10	mg/L	2.00		98.5	90-110		20	
Chloride	49.4	2.0	mg/L	50.0		98.9	90-110		20	
Sulfate as SO4	49.6	2.0	mg/L	50.0		99.1	90-110		20	
LCS Dup (T2J0323-BSD1)				Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	1.96	0.10	mg/L	2.00		97.8	90-110	0.713	20	
Chloride	49.8	2.0	mg/L	50.0		99.5	90-110	0.639	20	
Sulfate as SO4	49.9	2.0	mg/L	50.0		99.8	90-110	0.650	20	
Matrix Spike (T2J0323-MS1)		**Source: 2I27033-08**		Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	4.33	0.20	mg/L	4.00	0.296	101	48.9-155		20	

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Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0323										
Matrix Spike (T2J0323-MS1)		**Source: 2I27033-08**		Prepared: 10/03/12 Analyzed: 10/04/12						
Chloride	116	4.0	mg/L	100	18.4	97.6	48-147		15	
Sulfate as SO4	144	4.0	mg/L	100	46.3	97.4	70-130		20	
Matrix Spike (T2J0323-MS2)		**Source: 2I27033-18**		Prepared: 10/03/12 Analyzed: 10/05/12						
Fluoride	4.34	0.20	mg/L	4.00	0.372	99.1	48.9-155		20	
Chloride	152	4.0	mg/L	100	57.4	94.5	48-147		15	
Sulfate as SO4	154	4.0	mg/L	100	57.8	95.8	70-130		20	
Matrix Spike Dup (T2J0323-MSD1)		**Source: 2I27033-08**		Prepared: 10/03/12 Analyzed: 10/04/12						
Fluoride	4.24	0.20	mg/L	4.00	0.296	98.6	48.9-155	2.15	20	
Chloride	116	4.0	mg/L	100	18.4	97.3	48-147	0.265	15	
Sulfate as SO4	143	4.0	mg/L	100	46.3	96.9	70-130	0.397	20	
Matrix Spike Dup (T2J0323-MSD2)		**Source: 2I27033-18**		Prepared: 10/03/12 Analyzed: 10/05/12						
Fluoride	4.34	0.20	mg/L	4.00	0.372	99.3	48.9-155	0.161	20	
Chloride	151	4.0	mg/L	100	57.4	93.5	48-147	0.662	15	
Sulfate as SO4	152	4.0	mg/L	100	57.8	94.5	70-130	0.819	20	
Batch T2J0602										
Blank (T2J0602-BLK1)				Prepared: 10/06/12 Analyzed: 10/11/12						
Hexavalent Chromium	ND	10	µg/L							
LCS (T2J0602-BS1)				Prepared: 10/06/12 Analyzed: 10/11/12						
Hexavalent Chromium	104	10	µg/L	100		104	80-120		20	
LCS Dup (T2J0602-BSD1)				Prepared: 10/06/12 Analyzed: 10/11/12						
Hexavalent Chromium	111	10	µg/L	100		111	80-120	6.28	20	
Matrix Spike (T2J0602-MS1)		**Source: 2I27033-01**		Prepared: 10/06/12 Analyzed: 10/11/12						
Hexavalent Chromium	106	10	µg/L	100	15.1	90.4	80-120		20	
Matrix Spike (T2J0602-MS2)		**Source: 2I27033-11**		Prepared: 10/06/12 Analyzed: 10/11/12						
Hexavalent Chromium	115	10	µg/L	100	11.1	104	80-120		20	
Matrix Spike Dup (T2J0602-MSD1)		**Source: 2I27033-01**		Prepared: 10/06/12 Analyzed: 10/11/12						
Hexavalent Chromium	110	10	µg/L	100	15.1	94.5	80-120	3.77	20	
Matrix Spike Dup (T2J0602-MSD2)		**Source: 2I27033-11**		Prepared: 10/06/12 Analyzed: 10/11/12						
Hexavalent Chromium	103	10	µg/L	100	11.1	91.8	80-120	11.2	20	

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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0802										
Blank (T2J0802-BLK1)				Prepared: 10/08/12 Analyzed: 10/09/12						
Arsenic	ND	1.0	µg/L							
Thallium	ND	1.0	µg/L							
Lead	ND	1.0	µg/L							
LCS (T2J0802-BS1)				Prepared: 10/08/12 Analyzed: 10/09/12						
Lead	50.0	1.0	µg/L	50.0		99.9	85-115		20	
Thallium	50	1.0	µg/L	50.0		99.5	85-115		20	
Arsenic	50.2	1.0	µg/L	50.0		100	85-115		20	
LCS Dup (T2J0802-BSD1)				Prepared: 10/08/12 Analyzed: 10/09/12						
Arsenic	49.7	1.0	µg/L	50.0		99.5	85-115	0.886	20	
Lead	49.0	1.0	µg/L	50.0		97.9	85-115	2.05	20	
Thallium	49	1.0	µg/L	50.0		98.0	85-115	1.60	20	
Matrix Spike (T2J0802-MS1)		**Source: 2J02001-01**		Prepared: 10/08/12 Analyzed: 10/09/12						
Arsenic	47	1.0	µg/L	50.0	ND	93.3	70-130		20	
Thallium	48	1.0	µg/L	50.0	ND	95.5	70-130		20	
Lead	48	1.0	µg/L	50.0	ND	95.2	70-130		20	
Matrix Spike (T2J0802-MS2)		**Source: 2J04023-01**		Prepared: 10/08/12 Analyzed: 10/09/12						
Lead	49	1.0	µg/L	50.0	0.71	96.5	70-130		20	
Arsenic	44	1.0	µg/L	50.0	0.58	86.8	70-130		20	
Thallium	48	1.0	µg/L	50.0	ND	96.5	70-130		20	
Matrix Spike Dup (T2J0802-MSD1)		**Source: 2J02001-01**		Prepared: 10/08/12 Analyzed: 10/09/12						
Thallium	48	1.0	µg/L	50.0	ND	95.9	70-130	0.477	20	
Lead	48	1.0	µg/L	50.0	ND	95.5	70-130	0.356	20	
Arsenic	47	1.0	µg/L	50.0	ND	93.8	70-130	0.552	20	
Matrix Spike Dup (T2J0802-MSD2)		**Source: 2J04023-01**		Prepared: 10/08/12 Analyzed: 10/09/12						
Arsenic	43	1.0	µg/L	50.0	0.58	84.3	70-130	2.86	20	
Lead	48	1.0	µg/L	50.0	0.71	94.9	70-130	1.69	20	
Thallium	47	1.0	µg/L	50.0	ND	94.2	70-130	2.46	20	
Batch T2J0813										
Blank (T2J0813-BLK1)				Prepared: 10/08/12 Analyzed: 10/10/12						
Calcium	ND	0.10	mg/L							
Vanadium	ND	0.010	mg/L							
Copper	ND	0.0050	mg/L							
Cadmium	0.000205	0.0010	mg/L							J

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Project: MUN Evaluation
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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0813										
Blank (T2J0813-BLK1)				Prepared: 10/08/12 Analyzed: 10/10/12						
Antimony	ND	0.0050	mg/L							
Boron	0.00824	0.050	mg/L							J
Aluminum	0.0257	0.050	mg/L							J
Nickel	ND	0.0050	mg/L							
Sodium	ND	1.0	mg/L							
Zinc	ND	0.0050	mg/L							
Chromium	ND	0.0050	mg/L							
Molybdenum	ND	0.0050	mg/L							
Selenium	ND	0.020	mg/L							
Magnesium	ND	0.10	mg/L							
Manganese	ND	0.0050	mg/L							
Iron	ND	0.10	mg/L							
Barium	ND	0.010	mg/L							
Beryllium	ND	0.0010	mg/L							
Cobalt	ND	0.0020	mg/L							
Silver	ND	0.0050	mg/L							
LCS (T2J0813-BS1)				Prepared: 10/08/12 Analyzed: 10/10/12						
Zinc	0.111	0.0050	mg/L	0.100		111	85-115		20	
Silver	0.105	0.0050	mg/L	0.100		105	85-115		20	
Vanadium	0.208	0.010	mg/L	0.200		104	85-115		20	
Nickel	0.116	0.0050	mg/L	0.100		116	85-115		20	BS1
Molybdenum	0.105	0.0050	mg/L	0.100		105	85-115		20	
Beryllium	0.0194	0.0010	mg/L	0.0200		96.9	85-115		20	
Aluminum	1.02	0.050	mg/L	1.00		102	85-115		20	
Selenium	0.408	0.020	mg/L	0.400		102	85-115		20	
Barium	0.199	0.010	mg/L	0.200		99.3	85-115		20	
Antimony	0.107	0.0050	mg/L	0.100		107	85-115		20	
Sodium	2.13	1.0	mg/L	2.00		106	85-115		20	
Magnesium	2.08	0.10	mg/L	2.00		104	85-115		20	
Cadmium	0.0222	0.0010	mg/L	0.0200		111	85-115		20	
Calcium	2.19	0.10	mg/L	2.00		110	85-115		20	
Iron	2.92	0.10	mg/L	2.00		146	85-115		20	BS1
Chromium	0.237	0.0050	mg/L	0.100		237	85-115		20	BS1
Manganese	0.118	0.0050	mg/L	0.100		118	85-115		20	BS1
Copper	0.108	0.0050	mg/L	0.100		108	85-115		20	

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0813										
LCS (T2J0813-BS1)				Prepared: 10/08/12 Analyzed: 10/10/12						
Boron	1.02	0.050	mg/L	1.00		102	85-115		20	
Cobalt	0.0419	0.0020	mg/L	0.0400		105	85-115		20	
LCS Dup (T2J0813-BSD1)				Prepared: 10/08/12 Analyzed: 10/10/12						
Selenium	0.400	0.020	mg/L	0.400		99.9	85-115	2.02	20	
Silver	0.105	0.0050	mg/L	0.100		105	85-115	0.0465	20	
Zinc	0.107	0.0050	mg/L	0.100		107	85-115	3.08	20	
Cobalt	0.0411	0.0020	mg/L	0.0400		103	85-115	1.94	20	
Copper	0.107	0.0050	mg/L	0.100		107	85-115	0.786	20	
Molybdenum	0.105	0.0050	mg/L	0.100		105	85-115	0.0148	20	
Chromium	0.106	0.0050	mg/L	0.100		106	85-115	76.0	20	RPD3
Barium	0.196	0.010	mg/L	0.200		98.2	85-115	1.09	20	
Antimony	0.106	0.0050	mg/L	0.100		106	85-115	0.181	20	
Aluminum	1.02	0.050	mg/L	1.00		102	85-115	0.620	20	
Nickel	0.109	0.0050	mg/L	0.100		109	85-115	5.94	20	
Sodium	2.12	1.0	mg/L	2.00		106	85-115	0.0937	20	
Calcium	2.14	0.10	mg/L	2.00		107	85-115	2.63	20	
Magnesium	2.06	0.10	mg/L	2.00		103	85-115	1.07	20	
Beryllium	0.0186	0.0010	mg/L	0.0200		93.1	85-115	3.94	20	
Iron	2.08	0.10	mg/L	2.00		104	85-115	33.5	20	RPD3
Cadmium	0.0218	0.0010	mg/L	0.0200		109	85-115	1.57	20	
Manganese	0.104	0.0050	mg/L	0.100		104	85-115	12.2	20	
Vanadium	0.203	0.010	mg/L	0.200		102	85-115	2.08	20	
Boron	1.00	0.050	mg/L	1.00		100	85-115	1.82	20	
Matrix Spike (T2J0813-MS1)		**Source: 2J01039-01**		Prepared: 10/08/12 Analyzed: 10/10/12						
Zinc	1.73	0.025	mg/L	0.500	1.21	103	70-130		20	
Manganese	1.16	0.025	mg/L	0.500	0.626	106	70-130		20	
Cadmium	0.111	0.0050	mg/L	0.100	0.00301	108	70-130		20	
Antimony	0.497	0.025	mg/L	0.500	0.0113	97.2	70-130		20	
Selenium	2.08	0.10	mg/L	2.00	0.0340	102	70-130		20	
Vanadium	1.07	0.050	mg/L	1.00	0.0393	103	70-130		20	
Barium	1.18	0.050	mg/L	1.00	0.214	96.2	70-130		20	
Copper	0.962	0.025	mg/L	0.500	0.426	107	70-130		20	
Nickel	0.598	0.025	mg/L	0.500	0.0498	110	70-130		20	
Molybdenum	0.509	0.025	mg/L	0.500	0.0100	99.7	70-130		20	
Cobalt	0.221	0.010	mg/L	0.200	0.0146	103	70-130		20	

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Reported:
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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0813										
Matrix Spike (T2J0813-MS1)		**Source: 2J01039-01**		Prepared: 10/08/12 Analyzed: 10/10/12						
Beryllium	0.0990	0.0050	mg/L	0.100	ND	99.0	70-130		20	
Silver	0.484	0.025	mg/L	0.500	ND	96.7	70-130		20	
Boron	5.24	0.25	mg/L	5.00	0.294	98.9	70-130		20	
Chromium	0.602	0.025	mg/L	0.500	0.0642	108	70-130		20	
Iron	44.2	0.50	mg/L	10.0	32.7	115	70-130		20	
Aluminum	15.6	0.25	mg/L	5.00	7.36	165	70-130		20	MS2, MS4
Matrix Spike (T2J0813-MS2)		**Source: 2J02024-02**		Prepared: 10/08/12 Analyzed: 10/10/12						
Barium	0.416	0.020	mg/L	0.400	0.0316	96.0	70-130		20	
Boron	2.12	0.10	mg/L	2.00	0.124	99.7	70-130		20	
Beryllium	0.0388	0.0020	mg/L	0.0400	ND	97.0	70-130		20	
Chromium	0.214	0.010	mg/L	0.200	ND	107	70-130		20	
Cobalt	0.0823	0.0040	mg/L	0.0800	ND	103	70-130		20	
Iron	4.17	0.20	mg/L	4.00	0.0404	103	70-130		20	
Zinc	0.257	0.010	mg/L	0.200	0.0370	110	70-130		20	
Aluminum	2.05	0.10	mg/L	2.00	0.0456	100	70-130		20	
Silver	0.198	0.010	mg/L	0.200	ND	99.2	70-130		20	
Copper	0.252	0.010	mg/L	0.200	0.0452	103	70-130		20	
Vanadium	0.425	0.020	mg/L	0.400	0.0165	102	70-130		20	
Nickel	0.219	0.010	mg/L	0.200	ND	109	70-130		20	
Manganese	0.220	0.010	mg/L	0.200	0.0126	104	70-130		20	
Antimony	0.201	0.010	mg/L	0.200	ND	101	70-130		20	
Molybdenum	0.215	0.010	mg/L	0.200	0.00397	105	70-130		20	
Selenium	0.820	0.040	mg/L	0.800	0.0170	100	70-130		20	
Cadmium	0.0435	0.0020	mg/L	0.0400	ND	109	70-130		20	
Matrix Spike Dup (T2J0813-MSD1)		**Source: 2J01039-01**		Prepared: 10/08/12 Analyzed: 10/10/12						
Iron	43.9	0.50	mg/L	10.0	32.7	112	70-130	0.619	20	
Cobalt	0.217	0.010	mg/L	0.200	0.0146	101	70-130	1.82	20	
Copper	0.973	0.025	mg/L	0.500	0.426	109	70-130	1.15	20	
Manganese	1.15	0.025	mg/L	0.500	0.626	104	70-130	1.00	20	
Antimony	0.475	0.025	mg/L	0.500	0.0113	92.8	70-130	4.55	20	
Zinc	1.77	0.025	mg/L	0.500	1.21	112	70-130	2.43	20	
Aluminum	15.1	0.25	mg/L	5.00	7.36	155	70-130	3.40	20	MS2, MS4
Silver	0.486	0.025	mg/L	0.500	ND	97.2	70-130	0.534	20	
Selenium	2.09	0.10	mg/L	2.00	0.0340	103	70-130	0.210	20	
Chromium	0.595	0.025	mg/L	0.500	0.0642	106	70-130	1.22	20	

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0813										
Matrix Spike Dup (T2J0813-MSD1)		**Source: 2J01039-01**		Prepared: 10/08/12 Analyzed: 10/10/12						
Vanadium	1.09	0.050	mg/L	1.00	0.0393	105	70-130	1.93	20	
Cadmium	0.110	0.0050	mg/L	0.100	0.00301	107	70-130	1.24	20	
Nickel	0.588	0.025	mg/L	0.500	0.0498	108	70-130	1.66	20	
Barium	1.19	0.050	mg/L	1.00	0.214	97.2	70-130	0.808	20	
Molybdenum	0.500	0.025	mg/L	0.500	0.0100	98.0	70-130	1.74	20	
Beryllium	0.0971	0.0050	mg/L	0.100	ND	97.1	70-130	1.96	20	
Boron	5.41	0.25	mg/L	5.00	0.294	102	70-130	3.24	20	
Matrix Spike Dup (T2J0813-MSD2)		**Source: 2J02024-02**		Prepared: 10/08/12 Analyzed: 10/10/12						
Selenium	0.799	0.040	mg/L	0.800	0.0170	97.8	70-130	2.57	20	
Barium	0.415	0.020	mg/L	0.400	0.0316	95.8	70-130	0.251	20	
Chromium	0.214	0.010	mg/L	0.200	ND	107	70-130	0.00206	20	
Manganese	0.218	0.010	mg/L	0.200	0.0126	103	70-130	0.691	20	
Aluminum	2.00	0.10	mg/L	2.00	0.0456	97.7	70-130	2.36	20	
Vanadium	0.413	0.020	mg/L	0.400	0.0165	99.2	70-130	2.80	20	
Antimony	0.198	0.010	mg/L	0.200	ND	99.0	70-130	1.66	20	
Silver	0.197	0.010	mg/L	0.200	ND	98.7	70-130	0.545	20	
Nickel	0.219	0.010	mg/L	0.200	ND	110	70-130	0.214	20	
Molybdenum	0.215	0.010	mg/L	0.200	0.00397	105	70-130	0.0892	20	
Cobalt	0.0824	0.0040	mg/L	0.0800	ND	103	70-130	0.144	20	
Beryllium	0.0381	0.0020	mg/L	0.0400	ND	95.4	70-130	1.72	20	
Zinc	0.233	0.010	mg/L	0.200	0.0370	98.1	70-130	9.63	20	
Boron	2.07	0.10	mg/L	2.00	0.124	97.4	70-130	2.19	20	
Cadmium	0.0433	0.0020	mg/L	0.0400	ND	108	70-130	0.456	20	
Copper	0.251	0.010	mg/L	0.200	0.0452	103	70-130	0.497	20	
Iron	4.14	0.20	mg/L	4.00	0.0404	102	70-130	0.776	20	
Batch T2J0908										
Blank (T2J0908-BLK1)				Prepared & Analyzed: 10/10/12						
Mercury	0.0794	0.20	µg/L							J
LCS (T2J0908-BS1)				Prepared & Analyzed: 10/10/12						
Mercury	5.14	0.20	µg/L	5.00		103	80-120		20	
LCS Dup (T2J0908-BSD1)				Prepared & Analyzed: 10/10/12						
Mercury	5.07	0.20	µg/L	5.00		101	80-120	1.41	20	
Matrix Spike (T2J0908-MS1)		**Source: 2J04033-01**		Prepared & Analyzed: 10/10/12						
Mercury	80.2	3.0	µg/L	75.0	2.33	104	70-130		20	

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate # 1371

RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0908										
Matrix Spike (T2J0908-MS2)		**Source: 2J09008-01**		Prepared & Analyzed: 10/10/12						
Mercury	5.19	0.20	µg/L	5.00	0.182	100	70-130		20	
Matrix Spike Dup (T2J0908-MSD1)		**Source: 2J04033-01**		Prepared & Analyzed: 10/10/12						
Mercury	82.8	3.0	µg/L	75.0	2.33	107	70-130	3.15	20	
Matrix Spike Dup (T2J0908-MSD2)		**Source: 2J09008-01**		Prepared & Analyzed: 10/10/12						
Mercury	5.46	0.20	µg/L	5.00	0.182	106	70-130	5.07	20	
Batch T2J1016										
Blank (T2J1016-BLK1)				Prepared & Analyzed: 10/11/12						
Mercury	ND	0.20	µg/L							
LCS (T2J1016-BS1)				Prepared & Analyzed: 10/11/12						
Mercury	5.33	0.20	µg/L	5.00		107	80-120		20	
LCS Dup (T2J1016-BSD1)				Prepared & Analyzed: 10/11/12						
Mercury	5.49	0.20	µg/L	5.00		110	80-120	2.96	20	
Matrix Spike (T2J1016-MS1)		**Source: 2I26046-01**		Prepared & Analyzed: 10/11/12						
Mercury	5.29	0.20	µg/L	5.00	ND	106	70-130		20	
Matrix Spike (T2J1016-MS2)		**Source: 2J04025-04**		Prepared & Analyzed: 10/11/12						
Mercury	53.4	2.0	µg/L	50.0	ND	107	70-130		20	
Matrix Spike Dup (T2J1016-MSD1)		**Source: 2I26046-01**		Prepared & Analyzed: 10/11/12						
Mercury	5.46	0.20	µg/L	5.00	ND	109	70-130	3.12	20	
Matrix Spike Dup (T2J1016-MSD2)		**Source: 2J04025-04**		Prepared & Analyzed: 10/11/12						
Mercury	54.7	2.0	µg/L	50.0	ND	109	70-130	2.41	20	

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11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0107										
Blank (T2J0107-BLK1)				Prepared & Analyzed: 10/01/12						
Surrogate: 4-Bromofluorobenzene	*24.1*		*µg/L*	*25.0*		*96.3*	*70-130*			
Surrogate: Dibromofluoromethane	*24.5*		*µg/L*	*25.0*		*97.9*	*70-130*			
Surrogate: Toluene-d8	*24.0*		*µg/L*	*25.0*		*96.2*	*70-130*			
Chloromethane	ND	0.50	µg/L							
Vinyl chloride	ND	0.50	µg/L							
Bromomethane	ND	2.0	µg/L							
Chloroethane	ND	0.50	µg/L							
1,1-Dichloroethene	ND	0.50	µg/L							
Carbon disulfide	ND	0.50	µg/L							
Acrolein	ND	10	µg/L							
Methylene chloride	ND	1.0	µg/L							
trans-1,2-Dichloroethene	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
cis-1,2-Dichloroethene	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Carbon tetrachloride	ND	0.50	µg/L							
1,1,1-Trichloroethane (TCA)	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
Benzene	ND	0.50	µg/L							
1,2-Dichloroethane (1,2-DCA)	ND	2.0	µg/L							
Trichloroethene (TCE)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Tetrachloroethene (PCE)	ND	0.50	µg/L							
Dibromochloromethane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	5.0	µg/L							

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Fresno, CA 93721
(559) 268-7021 Phone
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RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0107										
Blank (T2J0107-BLK1)				Prepared & Analyzed: 10/01/12						
Ethylbenzene	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
m,p-Xylene	ND	0.50	µg/L							
o-Xylene	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Isopropylbenzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
n-Propylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
1,2,3-Trichloropropane (123TCP)	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
tert-Butylbenzene	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
sec-Butylbenzene	ND	10	µg/L							
p-Isopropyltoluene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
n-Butylbenzene	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
Naphthalene	ND	0.50	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
LCS (T2J0107-BS1)				Prepared & Analyzed: 10/01/12						
Surrogate: 4-Bromofluorobenzene	*24.2*		*µg/L*	*25.0*		*97.0*	*70-130*			
Surrogate: Dibromofluoromethane	*24.5*		*µg/L*	*25.0*		*98.2*	*70-130*			
Surrogate: Toluene-d8	*24.1*		*µg/L*	*25.0*		*96.4*	*70-130*			
1,1-Dichloroethene	20.7	0.50	µg/L	20.0		104	70-130		20	
Benzene	19.5	0.50	µg/L	20.0		97.7	70-130		20	
Trichloroethene (TCE)	19.3	0.50	µg/L	20.0		96.3	70-130		20	
Toluene	19.9	0.50	µg/L	20.0		99.4	70-130		20	
Chlorobenzene	17.8	0.50	µg/L	20.0		89.0	70-130		20	

MOORE TWINING ASSOCIATES, INC.

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Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate # 1371

RWQCB - Sacramento
11020 Sun Center Drive, Suite # 200
Rancho Cordova CA, 95670-6114

Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
10/18/12

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2J0107										
LCS Dup (T2J0107-BSD1)				Prepared & Analyzed: 10/01/12						
Surrogate: 4-Bromofluorobenzene	*24.2*		*µg/L*	*25.0*		*96.6*	*70-130*			
Surrogate: Dibromofluoromethane	*24.4*		*µg/L*	*25.0*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*24.0*		*µg/L*	*25.0*		*95.8*	*70-130*			
1,1-Dichloroethene	20.2	0.50	µg/L	20.0		101	70-130	2.44	20	
Benzene	18.5	0.50	µg/L	20.0		92.3	70-130	5.68	20	
Trichloroethene (TCE)	18.0	0.50	µg/L	20.0		89.8	70-130	6.93	20	
Toluene	18.8	0.50	µg/L	20.0		94.0	70-130	5.63	20	
Chlorobenzene	17.6	0.50	µg/L	20.0		87.8	70-130	1.36	20	

Date of Report: 10/17/2012

Julio Morales

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Project: Water Samples
BC Work Order: 1219192
Invoice ID: B132135

Enclosed are the results of analyses for samples received by the laboratory on 10/3/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Kerrie Vaughan
Client Services

Authorized Signature

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MOORE TWINING **SUBCONTRACT ORDER - Purchase Order # 15805**

California ELAP Certification # 1371

MTA Project # 2I27033

Please reference these numbers on all reports and invoices:

12-19192 **We also request QC data be provided with final report.**

SENDING LABORATORY:

Moore Twining Associates, Inc.
2527 Fresno Street
Fresno, CA 93721
Phone: (559) 268-7021
Fax: (559) 268-0740
Project Manager: Julio Morales

RECEIVING LABORATORY:

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
Phone :(800) 878-4911
Fax: (661) 327-1918

Sample Comments

Client Sample ID#: AWL120925-20 -1

MTA Sample ID: 2I27033-01 Matrix: Water Sampled: 09/25/12 00:00 Report Due to Client: 10/11/12

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-21 -2

MTA Sample ID: 2I27033-02 Matrix: Water Sampled: 09/25/12 00:00 Report Due to Client: 10/11/12

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-22 -3

MTA Sample ID: 2I27033-03 Matrix: Water Sampled: 09/25/12 00:00 Report Due to Client: 10/11/12

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-24 -4

MTA Sample ID: 2I27033-04 Matrix: Water Sampled: 09/25/12 00:00 ~~Report Due to Client: 10/11/12~~

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Released By	Date	Received By	Date
[signature]	10/1/12	Maria Mayorga	10/3/12 8:40

Please fax copy of receipt with your assigned sample ID number to (559) 268-0740 Page 1 of 4

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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MOORE TWINING **SUBCONTRACT ORDER - Purchase Order #** 15805

MTA Project # 2I27033

California ELAP Certification # 1371

Please reference these numbers on all reports and invoices:

We also request QC data be provided with final report.

12-19192

Sample Comments

Client Sample ID#: AWL120925-25 -5

MTA Sample ID: 2I27033-05 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-26 -6

MTA Sample ID: 2I27033-06 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-27 -7

MTA Sample ID: 2I27033-07 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-28 -8

MTA Sample ID: 2I27033-08 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-05 -9

MTA Sample ID: 2I27033-09 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Released By	Date	Received By	Date
[signature]	10/1/12	Maria Mayorga	10/5/12 8:40

Please fax copy of receipt with your assigned sample ID number to (559) 268-0740 Page 2 of 4

MOORE TWINING **SUBCONTRACT ORDER - Purchase Order #** 15805

California ELAP Certification # 1371

MTA Project # 2I27033

Please reference these numbers on all reports and invoices:

12-19192 **We also request QC data be provided with final report.**

Sample Comments

Client Sample ID#: AWL120925-07 -10

MTA Sample ID: 2I27033-10 Matrix: Water **Sampled: 09/25/12 00:00** **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-30 -11

MTA Sample ID: 2I27033-11 Matrix: Water **Sampled: 09/25/12 00:00** **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-31 -12

MTA Sample ID: 2I27033-12 Matrix: Water **Sampled: 09/25/12 00:00** **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-32 -13

MTA Sample ID: 2I27033-13 Matrix: Water **Sampled: 09/25/12 00:00** **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-33 -14

MTA Sample ID: 2I27033-14 Matrix: Water **Sampled: 09/25/12 00:00** **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Released By	Date	Received By	Date
[signature]	10/1/12	Maria Mapp	10/3/12 8:40

Please fax copy of receipt with your assigned sample ID number to (559) 268-0740 Page 3 of 4

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MOORE TWINING **SUBCONTRACT ORDER - Purchase Order # 15805**

California ELAP Certification # 1371

MTA Project # 2I27033

Please reference these numbers on all reports and invoices:

We also request QC data be provided with final report.

12-19192

Sample Comments

Client Sample ID#: AWL120925-34 -15

MTA Sample ID: 2I27033-15 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-35 -16

MTA Sample ID: 2I27033-16 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-36 -17

MTA Sample ID: 2I27033-17 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Client Sample ID#: AWL120925-37 -18

MTA Sample ID: 2I27033-18 Matrix: Water Sampled: 09/25/12 00:00 **Report Due to Client: 10/11/12**

Requested Analysis: Perchlorate by EPA 314.0 (Sub) Holding time expires: 10/23/12 00:00

Containers Supplied:

250mL Plastic
Unpreserved (B)

Released By	Date	Received By	Date
[signature]	10/1/12	Maria Mayor	10/5/12 8:40
Released By	Date	Received By	Date

Please fax copy of receipt with your assigned sample ID number to (559) 268-0740 Page 4 of 4

Chain of Custody and Cooler Receipt Form for 1219192 Page 5 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 2

Submission #: 12-19192

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)

Refrigerant: Ice ☐ Blue Ice ☒ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 8oz. PL Thermometer ID: 207 Date/Time 10/3/12
Temperature: (A) 7.4 °C / (C) 7.6 °C Analyst Init Mani 8:40

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
~~PT~~ PE UNPRESERVED 8oz PL	A	A	A	A	A	A	A	A	A	A
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

CHK BY KHQ DISTRIBUTION MK SALE-OUT

Comments:
Sample Numbering Completed By: JDW Date/Time: 10/3/12 0700
A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1219192 Page 6 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 2 Of 2

Submission #: 1219192

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)

Refrigerant: Ice ☐ Blue Ice ☒ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: 8oz-pl Thermometer ID: 207 Date/Time 10/3/12
Temperature: (A) 7.4 °C / (C) 7.6 °C Analyst Ini Mani 8:40

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED 8oz pl	A	A	A	A	A	A	A	A		
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments:
Sample Numbering Completed By: JDW Date/Time: 10/5/12 1700
A = Actual / C = Corrected

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1219192-01	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-20	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-02	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-21	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-03	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-22	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-04	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-24	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-05	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-25	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-06	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-26	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-07	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-27	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1219192-08	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-28	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-09	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-05	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-10	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-07	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-11	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-30	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-12	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-31	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-13	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-32	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-14	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-33	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1219192-15	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-34	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-16	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-35	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-17	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-36	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water
1219192-18	**COC Number:**	---	**Receive Date:**	10/03/2012 08:40
	Project Number:	---	**Sampling Date:**	09/25/2012 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120925-37	**Lab Matrix:**	Water
	Sampled By:	Client	**Sample Type:**	Water

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-01 | **Client Sample Name:** AWL120925-20, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 17:38	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-02 | **Client Sample Name:** AWL120925-21, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 17:51	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-03 | **Client Sample Name:** AWL120925-22, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 18:04	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
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Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-04 | **Client Sample Name:** AWL120925-24, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 18:44	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
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Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-05 | **Client Sample Name:** AWL120925-25, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 18:57	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
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Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-06 | **Client Sample Name:** AWL120925-26, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 19:11	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-07 | **Client Sample Name:** AWL120925-27, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 19:24	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-08 | **Client Sample Name:** AWL120925-28, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 19:37	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-09 | **Client Sample Name:** AWL120925-05, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 19:51	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-10 | **Client Sample Name:** AWL120925-07, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/11/12	10/11/12 20:04	LS1	IC6	1	BVJ1063

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-11 | **Client Sample Name:** AWL120925-30, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/15/12	10/15/12 12:05	LD1	IC6	1	BVJ1289

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-12 | **Client Sample Name:** AWL120925-31, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/15/12	10/15/12 12:19	LD1	IC6	1	BVJ1289

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-13 | **Client Sample Name:** AWL120925-32, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/15/12	10/15/12 12:32	LD1	IC6	1	BVJ1289

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-14 | **Client Sample Name:** AWL120925-33, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/15/12	10/15/12 12:45	LD1	IC6	1	BVJ1289

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Moore-Twining Associates
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Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-15 | **Client Sample Name:** AWL120925-34, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/15/12	10/15/12 12:59	LD1	IC6	1	BVJ1289

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Moore-Twining Associates
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Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-16 | **Client Sample Name:** AWL120925-35, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/15/12	10/15/12 13:12	LD1	IC6	1	BVJ1289

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Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-17 | **Client Sample Name:** AWL120925-36, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/15/12	10/15/12 13:25	LD1	IC6	1	BVJ1289

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

BCL Sample ID: 1219192-18 | **Client Sample Name:** AWL120925-37, 9/25/2012 12:00:00AM, Client

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/15/12	10/15/12 13:38	LD1	IC6	1	BVJ1289

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVJ1063						
Perchlorate	BVJ1063-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVJ1289						
Perchlorate	BVJ1289-BLK1	ND	ug/L	4.0	0.81	

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVJ1063										
Perchlorate	BVJ1063-BS1	LCS	10.709	10.000	ug/L	107		85 - 115		
QC Batch ID: BVJ1289										
Perchlorate	BVJ1289-BS1	LCS	10.368	10.000	ug/L	104		85 - 115		

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93720

Reported: 10/17/2012 16:18
Project: Water Samples
Project Number: 2I27033
Project Manager: Julio Morales

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVJ1063	Used client sample: Y - Description: AWL120925-28, 09/25/2012 00:00										
Perchlorate	DUP	1219192-08	ND	ND		ug/L			15		
	MS	1219192-08	ND	7.4848	10.101	ug/L		74.1		80 - 120	Q03
	MSD	1219192-08	ND	7.9759	10.101	ug/L	6.4	79.0	15	80 - 120	Q03
QC Batch ID: BVJ1289	Used client sample: Y - Description: AWL120925-30, 09/25/2012 00:00										
Perchlorate	DUP	1219192-11	ND	ND		ug/L			15		
	MS	1219192-11	ND	8.6912	10.101	ug/L		86.0		80 - 120	
	MSD	1219192-11	ND	8.6185	10.101	ug/L	0.8	85.3	15	80 - 120	

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Moore-Twining Associates 2527 Fresno Street Fresno, CA 93720	**Reported:** 10/17/2012 16:18 Project: Water Samples Project Number: 2I27033 Project Manager: Julio Morales

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
Q03	Matrix spike recovery(s) is(are) not within the control limits.

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MOORE TWINING ASSOCIATES, INC.

ESTD 1998

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 2127033 ~~2127034~~ jcm
PAGE 1 **OF** 5

REPORT TO: Calvin Yang & Anthony Toto; ccyang@waterboards.ca.gov, atoto@waterboards.ca.gov ☐ INVOICE TO: Anthony Toto ☐ REPORT COPY TO:

ATTENTION: Calvin Yang	ATTENTION: Anthony Toto
NAME: Regional Water Board	NAME: Regional Water Board
ADDRESS: 11020 Sun Center Drive #200	ADDRESS: 1685 E Street
Rancho Cordova, CA 95670	Fresno, CA 93706
PHONE: 916-464-4730	PHONE: 559-445-6278
e-mail: ccyang@waterboards.ca.gov	FAX: 559-445-5910

☐ STANDARD FORMAT
☐ WRITE-ON (STATE FORM
☐ GEOTRACKER/COELT (LI
X PDF ☐ SPREADSHEET
☐ County DHS :
☐ Environmental Health Ager
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT): Calvin Yang
SIGNATURE: [signature]

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☐ RUSH, DUE ON:
X STANDARD

SAMPLE TYPES:

SOLID:
BS – BIOSOLID
CR – CERAMIC
SL – SOIL/SOLID

LIQUID:
DW - DRINKING WATER
GW - GROUND WATER
OL - OIL
SF - SURFACE WATER
ST - STORM WATER
WW – WASTE WATER

PROJECT INFORMATION

CONTRACT/P.O. NO.: 10-023-150
PROJECT: MUN Evaluation
PROJECT NUMBER:
PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

LAB USE	CLIENT SAMPLE ID	DATE	TIME	TYPE	Total Fluoride, Chloride, Sulfate, TDS	Perchlorate	Title 22 Haz. Total Recoverable Metals 1	Total: Al, Fe, Mn	Boron, Sodium, Hardness	8260B
1	AWL120925-20	09/25/12		SF	X	X	X	X	X	
2	AWL120925-21	09/25/12		SF	X	X	X	X	X	
3	AWL120925-22	09/25/12		WW	X	X	X	X	X	
	~~AWL120925-23~~	~~09/25/12~~		~~SF~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
4	AWL120925-24	09/25/12		SF	X	X	X	X	X	
5	AWL120925-25	09/25/12		SF	X	X	X	X	X	
6	AWL120925-26	09/25/12		SF	X	X	X	X	X	
7	AWL120925-27	09/25/12		SF	X	X	X	X	X	
8	AWL120925-28	09/25/12		SF	X	X	X	X	X	

REPORTING:

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
[signature]	CVRWQCB	9/25	1800	Ag Lab	CVRWQCB → [illegible]
[signature]	CVRWQCB	9/27/12	908	[signature]	MTA
[signature]		09/27/12	1604		

CHAIN OF CUSTODY/ANALYSIS REQUEST

MOORE TWINING ASSOCIATES, INC. EST. 1898

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 27 27033 ~~27 27035~~ JCW
PAGE 2 OF 3

REPORT TO: Calvin Yang & Anthony Toto; ccyang@waterboards.ca.gov, atoto@waterboards.ca.gov ☐ INVOICE TO: Anthony Toto ☐ REPORT COPY TO:

ATTENTION: Calvin Yang	ATTENTION: Anthony Toto
NAME: Regional Water Board	NAME: Regional Water Board
ADDRESS: 11020 Sun Center Drive #200	ADDRESS: 1685 E Street
Rancho Cordova, CA 95670	Fresno, CA 93706
PHONE: 916-464-4730	PHONE: 559-445-6278
e-mail: ccyang@waterboards.ca.gov	FAX: 559-445-5910

☐ STANDARD FORMAT
☐ WRITE-ON (STATE FORM
☐ GEOTRACKER/COELT (LI
X PDF ☐ SPREADSHEET
☐ County DHS :
☐ Environmental Health Ager
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT): Calvin Yang

SIGNATURE: [signature]

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
☐ OTHER ☐ REPLACEMENT

TURN AROUND TIME: ☐ RUSH, DUE ON:
X STANDARD

SAMPLE TYPES:
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PROJECT INFORMATION

CONTRACT/P.O. NO.: 10-023-150
PROJECT: MUN Evaluation
PROJECT NUMBER:
PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

LAB USE	CLIENT SAMPLE ID	DATE	TIME	TYPE	Total Fluoride, Chloride, Sulfate, TDS	Perchlorate	Title 22 Haz. Total Recoverable Metals.1	Total: Al, Fe, Mn	Boron, Sodium, Hardness	8260B
9	AWL120925-05	09/25/12		SF	X	X	X	X	X	
10	AWL120925-07	09/25/12		WW	X	X	X	X	X	
11	AWL120925-30	09/25/12		SF	X	X	X	X	X	
12	AWL120925-31	09/25/12		SF	X	X	X	X	X	
13	AWL120925-32	09/25/12		SF	X	X	X	X	X	
14	AWL120925-33	09/25/12		SF	X	X	X	X	X	
15	AWL120925-34	09/25/12		SF	X	X	X	X	X	
16	AWL120925-35	09/25/12		SF	X	X	X	X	X	
17	AWL120925-36	09/25/12		SF	X	X	X	X	X	X

REPORTING:

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
[signature]	CVRWQCB	9/25/12	1800	Q, Ag Lab	CVRWQCB
[signature]	CVRWQCB	9/27/12	0908	[signature]	MTA

Pg 2 of 3

MOORE TWINING ASSOCIATES, INC.

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ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORK ORDER #: 12-27033 12-27036 JCW

PAGE 3 OF 3

REPORT TO: Calvin Yang & Anthony Toto; ccyang@waterboards.ca.gov, atoto@waterboards.ca.gov ☐ INVOICE TO: Anthony Toto ☐ REPORT COPY TO:

ATTENTION: Calvin Yang	ATTENTION: Anthony Toto
NAME: Regional Water Board	NAME: Regional Water Board
ADDRESS: 11020 Sun Center Drive #200	ADDRESS: 1685 E Street
Rancho Cordova, CA 95670	Fresno, CA 93706
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☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT): Calvin Yang

SIGNATURE: Calvin Yang

☐ PUBLIC SYSTEM ☐ ROUTINE
☐ PRIVATE WELL ☐ REPEAT
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PROJECT INFORMATION

CONTRACT/P.O. NO.: 10-023-150
PROJECT: MUN Evaluation
PROJECT NUMBER:
PROJECT MANAGER:

ANALYSIS REQUESTED

LAB USE

NOTES ON RECEIVED CONDITION:
☐ CUSTODY SEAL(S) BROKEN ☐ SAMPLE(S) DAMAGED
☐ ON ICE ☐ AMBIENT TEMP. ☐ INCORRECT PRESERVATION

	CLIENT SAMPLE ID	DATE	TIME	TYPE	Total Fluoride, Chloride, Sulfate, TDS	Perchlorate	Title 22 Haz. Total Recoverable Metals 1	Total: Al, Fe, Mn	Boron, Sodium, Hardness	8260B
18	AWL120925-37	09/25/12		WW	X	X	X	X	X	X
19	AWL120925-38	09/25/12		WW						X
20	AWL120925-39	09/25/12		SF						X

REPORTING:

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
Calvin Yang	CVRWQCB	9/25/12	1800	Ag Lab	CVRWQCB
Calvin Yang	CVRWQCB	9/27/12	0908	Lloyd	MTA

Pg 3 of 3

Moore Twining Associates, Inc.

Sample Integrity Page 4 of 5 WO# 2127033 Date Received: 9/27/12

Section 1-Sampled Same Day

Sample Transport: Walk In MTA Courier Transported In Ice Chest Box Hand

Has Chilling Begun? Yes No

Section 2-Sampled Previously

Sample Transport: Walk-in UPS GSO Fed Ex MTA Courier Other:_____

No. Coolers/Ice Chests:_____ Temperature(s):_____

Was Temperature In Range: Y or N Received On Ice: Wet Blue

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other:_____

Were ice chest custody seals present? Y or N Intact? Y or N

Section 3-COC Info.

	Completed			Completed	
	Yes	No		Yes	No
Was COC Received	X		Analysis Requested	X	
Date Sampled	X		Any hold times less than 72hr	X	
Time Sampled	X		Client Name	X	
Sample ID	X		Address	X	
Special Storage/Handling Ins.		X	Telephone #	X	

Section 4-Bottles/Analysis

	Yes	No	N/A	Comment
Did all bottles arrive unbroken and intact?	X			
Were bottle custody seals present?		X		
Were bottle custody seals intact?		X		
Did all bottle labels agree with COC?	X			
Were correct containers used for the tests requested?	X			
Was sufficient amount of sample sent for tests indicated?	X			
Were bubbles present in VOA Vials? (Volatiles Methods Only)		X		
Were Ascorbic Acid Bottles Received with VOAs?		X		

Section 5-Comment/Discrepancies

Sample(s) Split/Preserve: Yes or No Container:_____ Preservation:_____ Initials:_____

Filtered: Yes No Container:_____ Preservation:_____ Initials: _____

Was Client Service Supervisor notified of discrepancies: Yes or No N/A Notified by:_____

Explanations/Comments:

Labeled by:_____ Checked by:_____

Moore Twining Associates, Inc.

Sample Integrity Page 5 of 5 WO# 2127033 MTA Bottles: Yes or No

Plastic 125mL (A) Plastic 250mL (B)	Plastic 1L (C)		Amber Glass (AG)							
Sample(s) Received	1-16	17-18	19-20							
Bacti 100mL Thiosulfate										
None Preserved Plastic	1B1C	1B1C								
HNO3 Plastic	1A	1A								
H2SO4 Plastic										
NaOH Plastic										
300mL DO Bottle										
Other										
Client Own										
1L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Thio 547, 548										
250mL (AG) Other										
500mL Clear Glass None										
1L (AG) None										
1L (AG) HCl										
1L (AG) Thio 525, 515										
40mL (AG VOA) Thio + K Citrate 531.2										
40mL VOA Vial - HCl		3	3							
40mL VOA Vial - None										
40mL VOA Vial - H3PO4										
40mL VOA Vial (AG) - thio (THM)										
40mL VOA Vial - Na2SO3 (thio)										
Soil Jar Clear Glass 125mL 250mL 500mL										
THM 40mL VOA None										
Plastic Bag										
Soil Tube										
Tedlar Bags										
Asbestos 1L Plastic										
Gross Alpha/Beta 1L HNO3 each										
Radiological 226/228 1L HNO3 each										
Radon										
Low Level Hg/Metals Double Bag										

FL-SC-0003-02 b