MOORE TWINING ASSOCIATES, INC.

California ELAP Certificate # 1371

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

August 16, 2012

Work Order #: 2F28042

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 06/28/12 . For your reference, these analyses have been assigned laboratory work order number 2F28042 .

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.

Julio Morales
Client Services Supervisor

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:
8/16/12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AWL120626-30	2F28042-01	Surface Water	06/26/12 07:59	06/28/12 15:45
AWL120626-31	2F28042-02	Surface Water	06/26/12 08:55	06/28/12 15:45
AWL120626-32	2F28042-03	Waste Water	06/26/12 09:16	06/28/12 15:45
AWL120626-33	2F28042-04	Surface Water	06/26/12 09:36	06/28/12 15:45
AWL120626-34	2F28042-05	Surface Water	06/26/12 10:19	06/28/12 15:45
AWL120626-35	2F28042-06	Surface Water	06/26/12 10:48	06/28/12 15:45
AWL120626-36	2F28042-07	Surface Water	06/26/12 15:14	06/28/12 15:45
AWL120626-40	2F28042-08	Waste Water	06/26/12 11:52	06/28/12 15:45
AWL120626-41	2F28042-09	Surface Water	06/26/12 12:12	06/28/12 15:45
AWL120626-42	2F28042-10	Surface Water	06/26/12 12:26	06/28/12 15:45
AWL120626-43	2F28042-11	Surface Water	06/26/12 14:44	06/28/12 15:45
AWL120626-44	2F28042-12	Surface Water	06/26/12 14:10	06/28/12 15:45
AWL120626-45	2F28042-13	Surface Water	06/26/12 14:25	06/28/12 15:45
AWL120626-07	2F28042-14	Waste Water	06/26/12 09:16	06/28/12 15:45
AWL120626-08	2F28042-15	Surface Water	06/26/12 05:00	06/28/12 15:45

AMENDED REPORT:

Report now includes Atrazine and Simazine. JCM 8/16/12

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

Reported:
8/16/12

AWL120626-30

2F28042-01 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**110**	4.0	0.50	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Arsenic	**0.55**	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Boron	**30**	20	7.8	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Iron	**150**	20	5.9	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Manganese	**25**	1.0	0.051	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Sodium	**4.2**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	

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:
8/16/12

AWL120626-30

2F28042-01 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*93.9 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*93.0 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	

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

Reported:
8/16/12

AWL120626-31

2F28042-02 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**350**	4.0	0.50	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Arsenic	**1.3**	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Boron	**24**	20	7.8	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Iron	**590**	20	5.9	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Manganese	**58**	1.0	0.051	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Sodium	**4.1**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-31

2F28042-02 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*95.5 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*94.0 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*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:
8/16/12

AWL120626-32

2F28042-03 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Ammonia as N	**4.9**	1.0	0.48	mg/L	1	T2G1612	07/16/12	07/18/12	EPA 350.1	
Chloride	**69**	2.0	0.018	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Fluoride	**0.043**	0.10	0.0036	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	**J**
Hardness (Total)	**260**	1.3		mg equiv. CaCO3/L	1	[CALC]	07/03/12	07/03/12	SM2340B	
Sulfate as SO4	**35**	2.0	0.0094	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Total Dissolved Solids	**510**	10	8.1	mg/L	1	T2G0314	07/03/12	07/05/12	SM 2540C	
Metals - Totals										
Aluminum	**11**	4.0	0.50	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Antimony	**0.15**	1.0	0.068	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Arsenic	**3.2**	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Barium	**82**	1.0	0.042	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Boron	**140**	20	7.8	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Cadmium	ND	0.20	0.079	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Calcium	**46**	0.20	0.015	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Chromium	**2.2**	1.0	0.17	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Copper	**2.3**	2.0	0.094	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Iron	**160**	20	5.9	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Lead	**0.39**	0.50	0.029	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Magnesium	**35**	0.20	0.018	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Manganese	**28**	1.0	0.051	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Nickel	**2.0**	1.0	0.039	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Selenium	**0.22**	1.0	0.17	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Silver	ND	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Sodium	**69**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Zinc	ND	5.0	3.0	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Semi-Volatile Organics										
4,4´-DDD	ND	0.056	0.0044	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
4,4´-DDE	ND	0.056	0.0022	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
4,4´-DDT	ND	0.056	0.0044	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Aldrin	ND	0.056	0.0033	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
alpha-BHC	ND	0.056	0.0044	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
alpha-Chlordane	ND	0.056	0.0022	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
beta-BHC	ND	0.056	0.0044	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	

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

Reported:
8/16/12

AWL120626-32

2F28042-03 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Chlordane (tech)	ND	0.11	0.0022	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
delta-BHC	ND	0.056	0.0033	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Dieldrin	ND	0.056	0.0022	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan I	ND	0.056	0.0033	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Trifluralin	ND	0.056	0.0033	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan II	ND	0.056	0.0022	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan sulfate	ND	0.056	0.0033	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin	ND	0.056	0.0033	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin aldehyde	ND	0.056	0.0044	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin ketone	ND	0.056	0.0044	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
gamma-BHC (Lindane)	ND	0.056	0.0033	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
gamma-Chlordane	ND	0.056	0.0022	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Heptachlor	ND	0.056	0.0022	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Heptachlor epoxide	ND	0.056	0.0044	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Methoxychlor	ND	0.056	0.0067	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Toxaphene	ND	0.56	0.11	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Surrogate: Decachlorobiphenyl (DCB)	*84.1 %*	*28.2-144*				*T2G0323*	*07/03/12*	*07/04/12*	*EPA 8081A*	
Surrogate: Tetrachloro-meta-xylene (TMX)	*71.4 %*	*34.4-113*				*T2G0323*	*07/03/12*	*07/04/12*	*EPA 8081A*	
PCB-1016	ND	0.56	0.17	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1221	ND	0.56	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1232	ND	0.56	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1242	ND	0.56	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1248	ND	0.56	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1254	ND	0.56	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1260	ND	0.56	0.13	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
Surrogate: Decachlorobiphenyl (DCB)	*86.0 %*	*40.7-154*				*T2G0324*	*07/03/12*	*07/04/12*	*EPA 8082*	
Surrogate: Tetrachloro-meta-xylene (TMX)	*66.0 %*	*24-140*				*T2G0324*	*07/03/12*	*07/04/12*	*EPA 8082*	
2,4,5-T	ND	0.50	0.0090	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.50	0.011	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4-D	ND	5.0	0.17	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4-DB	ND	5.0	0.15	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dalapon	ND	20	0.21	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dicamba	ND	0.50	0.0090	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dichloroprop	ND	5.0	0.36	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dinoseb	ND	2.5	0.075	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
MCPA	ND	30	8.0	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	

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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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

AWL120626-32

2F28042-03 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
MCPP	ND	30	8.0	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Surrogate: 2,4-Dichlorophenylacetic acid	*111 %*	*10-150*				*T2G0322*	*07/03/12*	*07/06/12*	*EPA 8151A*	
N-Nitrosodimethylamine	ND	5.0	0.68	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Phenol	ND	5.0	0.22	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroethyl)ether	ND	5.0	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Chlorophenol	ND	5.0	1.3	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,3-Dichlorobenzene	ND	5.0	0.26	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,4-Dichlorobenzene	ND	5.0	0.16	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2-Dichlorobenzene	ND	5.0	0.24	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	5.0	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Methylphenol	ND	5.0	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachloroethane	ND	5.0	0.48	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3-Methylphenol	ND	5.0	0.47	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Methylphenol	ND	5.0	0.56	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	5.0	0.46	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Nitrobenzene	ND	5.0	0.33	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Isophorone	ND	5.0	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Nitrophenol	ND	5.0	0.44	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dimethylphenol	ND	5.0	0.44	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	5.0	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dichlorophenol	ND	5.0	0.58	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2,4-Trichlorobenzene	ND	5.0	0.28	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Naphthalene	ND	5.0	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chloroaniline	ND	5.0	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorobutadiene	ND	5.0	0.29	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chloro-3-methylphenol	ND	5.0	0.67	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Methylnaphthalene	ND	5.0	0.36	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorocyclopentadiene	ND	5.0	0.63	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4,5-Trichlorophenol	ND	5.0	0.53	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4,6-Trichlorophenol	ND	5.0	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Chloronaphthalene	ND	5.0	0.40	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Nitroaniline	ND	5.0	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dimethyl phthalate	ND	5.0	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Acenaphthylene	ND	5.0	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,6-Dinitrotoluene	ND	5.0	0.40	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3-Nitroaniline	ND	5.0	0.40	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	

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

Reported:
8/16/12

AWL120626-32

2F28042-03 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Acenaphthene	ND	5.0	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dinitrophenol	ND	5.0	1.3	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dibenzofuran	ND	5.0	0.25	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Nitrophenol	ND	5.0	0.61	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dinitrotoluene	ND	5.0	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Fluorene	ND	5.0	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Diethyl phthalate	ND	5.0	0.29	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	5.0	0.34	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Nitroaniline	ND	5.0	0.58	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Diphenylamine	ND	5.0	0.37	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2-Diphenylhydrazine	ND	5.0	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzidine	ND	5.0	0.58	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
N-Nitrosodiphenylamine	ND	5.0	0.19	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	5.0	1.6	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Bromophenyl phenyl ether	ND	5.0	0.65	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorobenzene	ND	5.0	0.56	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Pentachlorophenol	ND	5.0	1.1	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Phenanthrene	ND	5.0	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Anthracene	ND	5.0	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Di-n-butyl phthalate	ND	5.0	0.48	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Fluoranthene	ND	5.0	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Pyrene	ND	5.0	0.47	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Butyl benzyl phthalate	ND	5.0	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (a) anthracene	ND	5.0	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Chrysene	ND	5.0	0.59	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-ethylhexyl) phthalate	**0.43**	5.0	0.43	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	**J**
Di-n-octyl phthalate	ND	5.0	0.31	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (b) fluoranthene	ND	5.0	0.30	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (k) fluoranthene	ND	5.0	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (a) pyrene	ND	5.0	0.36	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3,3'-Dichlorobenzidine	ND	5.0	1.2	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	5.0	0.44	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dibenzo(a,h)anthracene	ND	5.0	0.66	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo(ghi)perylene	ND	5.0	0.39	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Surrogate: 2-Fluorophenol	*31.0 %*	*22-92*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: Phenol-d5	*24.4 %*	*10-94*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	

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

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MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
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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:
8/16/12

AWL120626-32

2F28042-03 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Surrogate: Nitrobenzene-d5	*70.1 %*	*41-110*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: 2-Fluorobiphenyl	*72.1 %*	*40-92*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol	*90.3 %*	*49-138*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: d14-Terphenyl	*77.2 %*	*44-131*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Aldicarb	ND	2.0	0.44	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Aldicarb sulfone	ND	2.0	0.48	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Carbaryl	ND	2.0	0.27	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Carbofuran	ND	2.0	0.35	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Dioxacarb	ND	2.0	0.86	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
3-Hydroxycarbofuran	ND	2.0	0.66	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Methiocarb	ND	2.0	0.76	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Methomyl	ND	2.0	0.45	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Promecarb	ND	2.0	0.60	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Propoxur (Baygon)	ND	2.0	0.53	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-32

2F28042-03 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	

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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:
8/16/12

AWL120626-32

2F28042-03 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*97.0 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.8 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	

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

Reported:
8/16/12

AWL120626-33

2F28042-04 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**310**	4.0	0.50	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Arsenic	**1.3**	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Boron	**29**	20	7.8	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Iron	**510**	20	5.9	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Manganese	**56**	1.0	0.051	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Sodium	**6.4**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-33

2F28042-04 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*93.9 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*106 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*94.6 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*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:
8/16/12

AWL120626-34

2F28042-05 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**210**	4.0	0.50	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Arsenic	**1.0**	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Boron	**18**	20	7.8	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Iron	**610**	20	5.9	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Manganese	**30**	1.0	0.051	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Sodium	**6.6**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-34

2F28042-05 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*93.9 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*95.6 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	

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California ELAP Certificate # 1371

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

Reported:
8/16/12

AWL120626-35

2F28042-06 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**1000**	4.0	0.50	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Arsenic	**2.9**	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Boron	**32**	20	7.8	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Iron	**1400**	20	5.9	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Manganese	**100**	1.0	0.051	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Sodium	**7.2**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-35

2F28042-06 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*93.9 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*106 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*95.4 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	

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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:
8/16/12

AWL120626-36

2F28042-07 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**350**	4.0	0.50	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Arsenic	**3.7**	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Boron	**49**	20	7.8	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Iron	**670**	20	5.9	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Manganese	**69**	1.0	0.051	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Sodium	**12**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	

MOORE TWINING ASSOCIATES, INC.

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Project: MUN Evaluation
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Project Manager: Calvin Yang

Reported:
8/16/12

AWL120626-36

2F28042-07 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*94.4 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*94.3 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	

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Project: MUN Evaluation
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Reported:
8/16/12

AWL120626-40

2F28042-08 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Ammonia as N	ND	1.0	0.48	mg/L	1	T2G1612	07/16/12	07/18/12	EPA 350.1	
Chloride	**75**	2.0	0.018	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Fluoride	**0.059**	0.10	0.0036	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	**J**
Hardness (Total)	**230**	1.3		mg equiv. CaCO3/L	1	[CALC]	07/03/12	07/03/12	SM2340B	
Sulfate as SO4	**40**	2.0	0.0094	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Total Dissolved Solids	**550**	10	8.1	mg/L	1	T2G0314	07/03/12	07/05/12	SM 2540C	
Metals - Totals										
Aluminum	**22**	4.0	0.50	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Antimony	**0.41**	1.0	0.068	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	**J**
Arsenic	**33**	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Barium	**27**	1.0	0.042	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Boron	**190**	20	7.8	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Cadmium	ND	0.20	0.079	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Calcium	**36**	0.20	0.015	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Chromium	**1.7**	1.0	0.17	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Copper	**3.3**	2.0	0.094	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Iron	**120**	20	5.9	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Lead	ND	0.50	0.029	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Magnesium	**35**	0.20	0.018	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Manganese	**10**	1.0	0.051	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Nickel	**2.3**	1.0	0.039	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Selenium	**0.60**	1.0	0.17	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	**J**
Silver	ND	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Sodium	**68**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Zinc	**18**	5.0	3.0	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Semi-Volatile Organics										
4,4´-DDD	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
4,4´-DDE	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
4,4´-DDT	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Aldrin	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
alpha-BHC	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
alpha-Chlordane	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
beta-BHC	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	

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2F28042-08 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Chlordane (tech)	ND	0.10	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
delta-BHC	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Dieldrin	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Trifluralin	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan I	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan II	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan sulfate	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin aldehyde	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin ketone	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
gamma-BHC (Lindane)	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
gamma-Chlordane	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Heptachlor	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Heptachlor epoxide	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Methoxychlor	ND	0.050	0.0060	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Toxaphene	ND	0.50	0.10	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Surrogate: Decachlorobiphenyl (DCB)	*95.7 %*	*28.2-144*				*T2G0323*	*07/03/12*	*07/04/12*	*EPA 8081A*	
Surrogate: Tetrachloro-meta-xylene (TMX)	*74.9 %*	*34.4-113*				*T2G0323*	*07/03/12*	*07/04/12*	*EPA 8081A*	
PCB-1016	ND	0.50	0.15	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1221	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1232	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1242	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1248	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1254	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1260	ND	0.50	0.12	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
Surrogate: Decachlorobiphenyl (DCB)	*99.0 %*	*40.7-154*				*T2G0324*	*07/03/12*	*07/04/12*	*EPA 8082*	
Surrogate: Tetrachloro-meta-xylene (TMX)	*72.0 %*	*24-140*				*T2G0324*	*07/03/12*	*07/04/12*	*EPA 8082*	
2,4,5-T	ND	0.50	0.0090	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.50	0.011	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4-D	ND	5.0	0.17	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4-DB	ND	5.0	0.15	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dalapon	ND	20	0.21	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dicamba	ND	0.50	0.0090	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dichloroprop	ND	5.0	0.36	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dinoseb	ND	2.5	0.075	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
MCPA	ND	30	8.0	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	

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2F28042-08 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
MCPP	ND	30	8.0	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Surrogate: 2,4-Dichlorophenylacetic acid	*110 %*	*10-150*				*T2G0322*	*07/03/12*	*07/06/12*	*EPA 8151A*	
N-Nitrosodimethylamine	ND	5.3	0.72	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Phenol	ND	5.3	0.23	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroethyl)ether	ND	5.3	0.41	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Chlorophenol	ND	5.3	1.4	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,3-Dichlorobenzene	ND	5.3	0.28	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,4-Dichlorobenzene	ND	5.3	0.17	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2-Dichlorobenzene	ND	5.3	0.26	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	5.3	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Methylphenol	ND	5.3	0.53	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachloroethane	ND	5.3	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3-Methylphenol	ND	5.3	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Methylphenol	ND	5.3	0.59	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	5.3	0.49	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Nitrobenzene	ND	5.3	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Isophorone	ND	5.3	0.37	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Nitrophenol	ND	5.3	0.47	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dimethylphenol	ND	5.3	0.47	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	5.3	0.41	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dichlorophenol	ND	5.3	0.62	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2,4-Trichlorobenzene	ND	5.3	0.30	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Naphthalene	ND	5.3	0.34	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chloroaniline	ND	5.3	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorobutadiene	ND	5.3	0.31	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chloro-3-methylphenol	ND	5.3	0.71	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Methylnaphthalene	ND	5.3	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorocyclopentadiene	ND	5.3	0.67	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4,5-Trichlorophenol	ND	5.3	0.57	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4,6-Trichlorophenol	ND	5.3	0.58	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Chloronaphthalene	ND	5.3	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Nitroaniline	ND	5.3	0.53	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dimethyl phthalate	ND	5.3	0.34	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Acenaphthylene	ND	5.3	0.45	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,6-Dinitrotoluene	ND	5.3	0.43	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3-Nitroaniline	ND	5.3	0.43	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	

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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:
8/16/12

AWL120626-40

2F28042-08 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Acenaphthene	ND	5.3	0.37	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dinitrophenol	ND	5.3	1.3	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dibenzofuran	ND	5.3	0.27	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Nitrophenol	ND	5.3	0.65	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dinitrotoluene	ND	5.3	0.45	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Fluorene	ND	5.3	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Diethyl phthalate	ND	5.3	0.31	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	5.3	0.37	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Nitroaniline	ND	5.3	0.61	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Diphenylamine	ND	5.3	0.39	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2-Diphenylhydrazine	ND	5.3	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzidine	ND	5.3	0.62	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
N-Nitrosodiphenylamine	ND	5.3	0.21	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	5.3	1.8	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Bromophenyl phenyl ether	ND	5.3	0.70	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorobenzene	ND	5.3	0.60	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Pentachlorophenol	ND	5.3	1.2	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Phenanthrene	ND	5.3	0.45	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Anthracene	ND	5.3	0.45	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Di-n-butyl phthalate	ND	5.3	0.52	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Fluoranthene	ND	5.3	0.54	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Pyrene	ND	5.3	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Butyl benzyl phthalate	ND	5.3	0.59	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (a) anthracene	ND	5.3	0.53	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Chrysene	ND	5.3	0.63	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-ethylhexyl) phthalate	ND	5.3	0.46	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Di-n-octyl phthalate	ND	5.3	0.33	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (b) fluoranthene	ND	5.3	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (k) fluoranthene	ND	5.3	0.53	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (a) pyrene	ND	5.3	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3,3'-Dichlorobenzidine	ND	5.3	1.3	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	5.3	0.47	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dibenzo(a,h)anthracene	ND	5.3	0.70	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo(ghi)perylene	ND	5.3	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Surrogate: 2-Fluorophenol	*42.9 %*	*22-92*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: Phenol-d5	*33.6 %*	*10-94*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	

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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

AWL120626-40

2F28042-08 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Surrogate: Nitrobenzene-d5	*78.1 %*	*41-110*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: 2-Fluorobiphenyl	*77.5 %*	*40-92*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol	*72.0 %*	*49-138*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: d14-Terphenyl	*103 %*	*44-131*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Aldicarb	ND	2.0	0.44	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Aldicarb sulfone	ND	2.0	0.48	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Carbaryl	ND	2.0	0.27	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Carbofuran	ND	2.0	0.35	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Dioxacarb	ND	2.0	0.86	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
3-Hydroxycarbofuran	ND	2.0	0.66	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Methiocarb	ND	2.0	0.76	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Methomyl	ND	2.0	0.45	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Promecarb	ND	2.0	0.60	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Propoxur (Baygon)	ND	2.0	0.53	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-40

2F28042-08 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-40

2F28042-08 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*97.6 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.2 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	

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

Reported:
8/16/12

AWL120626-41

2F28042-09 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**27**	4.0	0.50	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Arsenic	**33**	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Boron	**190**	20	7.8	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Iron	**120**	20	5.9	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Manganese	**8.5**	1.0	0.051	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Sodium	**69**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	

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:
8/16/12

AWL120626-41

2F28042-09 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*94.9 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.5 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	

MOORE TWINING ASSOCIATES, INC.

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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:
8/16/12

AWL120626-42

2F28042-10 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**76**	4.0	0.50	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Arsenic	**9.8**	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Boron	**100**	20	7.8	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Iron	**350**	20	5.9	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Manganese	**80**	1.0	0.051	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Sodium	**43**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	**7.5**	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	**3.0**	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	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.

MOORE TWINING ASSOCIATES, INC.

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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:
8/16/12

AWL120626-42

2F28042-10 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*94.9 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*107 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*94.8 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	

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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:
8/16/12

AWL120626-43

2F28042-11 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**270**	4.0	0.50	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Arsenic	**4.5**	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Boron	**47**	20	7.8	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Iron	**560**	20	5.9	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Manganese	**88**	1.0	0.051	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Sodium	**12**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	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:
8/16/12

AWL120626-43

2F28042-11 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*95.4 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*106 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*93.3 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	

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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:
8/16/12

AWL120626-44

2F28042-12 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**240**	4.0	0.50	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Arsenic	**5.6**	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Boron	**53**	20	7.8	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Iron	**490**	20	5.9	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Manganese	**150**	1.0	0.051	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Sodium	**11**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	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:
8/16/12

AWL120626-44

2F28042-12 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*93.9 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*104 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*94.2 %*	*70-130*				*T2G0209*	*07/02/12*	*07/02/12*	*EPA 8260B*	

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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

AWL120626-45

2F28042-13 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Aluminum	**270**	4.0	0.50	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Arsenic	**5.0**	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Boron	**46**	20	7.8	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Iron	**500**	20	5.9	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Manganese	**92**	1.0	0.051	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Sodium	**12**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	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:
8/16/12

AWL120626-45

2F28042-13 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*97.5 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*104 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	

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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

AWL120626-07

2F28042-14 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Ammonia as N	**5.3**	1.0	0.48	mg/L	1	T2G1612	07/16/12	07/18/12	EPA 350.1	
Chloride	**70**	2.0	0.018	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Fluoride	**0.039**	0.10	0.0036	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	**J**
Hardness (Total)	**250**	1.3		mg equiv. CaCO3/L	1	[CALC]	07/03/12	07/03/12	SM2340B	
Sulfate as SO4	**36**	2.0	0.0094	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Total Dissolved Solids	**510**	10	8.1	mg/L	1	T2G0314	07/03/12	07/05/12	SM 2540C	
Metals - Totals										
Aluminum	**11**	4.0	0.50	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Antimony	**0.097**	1.0	0.068	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	**J**
Arsenic	**3.5**	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Barium	**77**	1.0	0.042	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Boron	**130**	20	7.8	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Cadmium	ND	0.20	0.079	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Calcium	**45**	0.20	0.015	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Chromium	**2.2**	1.0	0.17	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Copper	**2.3**	2.0	0.094	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Iron	**140**	20	5.9	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Lead	ND	0.50	0.029	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Magnesium	**34**	0.20	0.018	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Manganese	**25**	1.0	0.051	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Nickel	**1.9**	1.0	0.039	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Selenium	**0.48**	1.0	0.17	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	**J**
Silver	ND	1.0	0.15	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Sodium	**67**	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	
Zinc	**3.0**	5.0	3.0	µg/L	1	T2G0503	07/05/12	07/11/12	EPA 200.8	**J**
Semi-Volatile Organics										
4,4´-DDD	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
4,4´-DDE	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
4,4´-DDT	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Aldrin	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
alpha-BHC	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
alpha-Chlordane	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
beta-BHC	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	

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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

AWL120626-07

2F28042-14 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Chlordane (tech)	ND	0.10	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
delta-BHC	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Dieldrin	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan I	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Trifluralin	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan II	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan sulfate	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin aldehyde	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin ketone	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
gamma-BHC (Lindane)	ND	0.050	0.0030	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
gamma-Chlordane	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Heptachlor	ND	0.050	0.0020	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Heptachlor epoxide	ND	0.050	0.0040	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Methoxychlor	ND	0.050	0.0060	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Toxaphene	ND	0.50	0.10	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Surrogate: Decachlorobiphenyl (DCB)	*79.6 %*	*28.2-144*				*T2G0323*	*07/03/12*	*07/04/12*	*EPA 8081A*	
Surrogate: Tetrachloro-meta-xylene (TMX)	*79.1 %*	*34.4-113*				*T2G0323*	*07/03/12*	*07/04/12*	*EPA 8081A*	
PCB-1016	ND	0.50	0.15	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1221	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1232	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1242	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1248	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1254	ND	0.50	0.10	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1260	ND	0.50	0.12	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
Surrogate: Decachlorobiphenyl (DCB)	*74.5 %*	*40.7-154*				*T2G0324*	*07/03/12*	*07/04/12*	*EPA 8082*	
Surrogate: Tetrachloro-meta-xylene (TMX)	*71.5 %*	*24-140*				*T2G0324*	*07/03/12*	*07/04/12*	*EPA 8082*	
2,4,5-T	ND	0.50	0.0090	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.50	0.011	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4-D	ND	5.0	0.17	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4-DB	ND	5.0	0.15	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dalapon	ND	20	0.21	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dicamba	ND	0.50	0.0090	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dichloroprop	ND	5.0	0.36	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dinoseb	ND	2.5	0.075	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
MCPA	ND	30	8.0	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	

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

Reported:
8/16/12

AWL120626-07

2F28042-14 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
MCPP	ND	30	8.0	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Surrogate: 2,4-Dichlorophenylacetic acid	*108 %*	*10-150*				*T2G0322*	*07/03/12*	*07/06/12*	*EPA 8151A*	
N-Nitrosodimethylamine	ND	5.4	0.73	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Phenol	ND	5.4	0.23	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroethyl)ether	ND	5.4	0.41	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Chlorophenol	ND	5.4	1.4	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,3-Dichlorobenzene	ND	5.4	0.28	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,4-Dichlorobenzene	ND	5.4	0.18	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2-Dichlorobenzene	ND	5.4	0.26	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	5.4	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Methylphenol	ND	5.4	0.54	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachloroethane	ND	5.4	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3-Methylphenol	ND	5.4	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Methylphenol	ND	5.4	0.60	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	5.4	0.49	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Nitrobenzene	ND	5.4	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Isophorone	ND	5.4	0.37	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Nitrophenol	ND	5.4	0.48	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dimethylphenol	ND	5.4	0.47	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	5.4	0.41	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dichlorophenol	ND	5.4	0.63	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2,4-Trichlorobenzene	ND	5.4	0.30	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Naphthalene	ND	5.4	0.34	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chloroaniline	ND	5.4	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorobutadiene	ND	5.4	0.31	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chloro-3-methylphenol	ND	5.4	0.72	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Methylnaphthalene	ND	5.4	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorocyclopentadiene	ND	5.4	0.68	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4,5-Trichlorophenol	ND	5.4	0.57	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4,6-Trichlorophenol	ND	5.4	0.59	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Chloronaphthalene	ND	5.4	0.43	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Nitroaniline	ND	5.4	0.54	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dimethyl phthalate	ND	5.4	0.34	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Acenaphthylene	ND	5.4	0.45	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,6-Dinitrotoluene	ND	5.4	0.43	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3-Nitroaniline	ND	5.4	0.43	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	

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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:
8/16/12

AWL120626-07

2F28042-14 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Acenaphthene	ND	5.4	0.37	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dinitrophenol	ND	5.4	1.4	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dibenzofuran	ND	5.4	0.27	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Nitrophenol	ND	5.4	0.66	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dinitrotoluene	ND	5.4	0.46	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Fluorene	ND	5.4	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Diethyl phthalate	ND	5.4	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	5.4	0.37	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Nitroaniline	ND	5.4	0.62	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Diphenylamine	ND	5.4	0.39	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2-Diphenylhydrazine	ND	5.4	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzidine	ND	5.4	0.63	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
N-Nitrosodiphenylamine	ND	5.4	0.21	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	5.4	1.8	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Bromophenyl phenyl ether	ND	5.4	0.70	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorobenzene	ND	5.4	0.60	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Pentachlorophenol	ND	5.4	1.2	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Phenanthrene	ND	5.4	0.45	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Anthracene	ND	5.4	0.45	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Di-n-butyl phthalate	ND	5.4	0.52	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Fluoranthene	ND	5.4	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Pyrene	ND	5.4	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Butyl benzyl phthalate	ND	5.4	0.59	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (a) anthracene	ND	5.4	0.53	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Chrysene	ND	5.4	0.63	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-ethylhexyl) phthalate	ND	5.4	0.46	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Di-n-octyl phthalate	ND	5.4	0.33	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (b) fluoranthene	ND	5.4	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (k) fluoranthene	ND	5.4	0.54	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (a) pyrene	ND	5.4	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3,3'-Dichlorobenzidine	ND	5.4	1.3	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	5.4	0.48	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dibenzo(a,h)anthracene	ND	5.4	0.71	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo(ghi)perylene	ND	5.4	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Surrogate: 2-Fluorophenol	*31.9 %*	*22-92*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: Phenol-d5	*25.5 %*	*10-94*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	

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

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

Reported:
8/16/12

AWL120626-07

2F28042-14 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Surrogate: Nitrobenzene-d5	*71.7 %*	*41-110*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: 2-Fluorobiphenyl	*72.9 %*	*40-92*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol	*94.2 %*	*49-138*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: d14-Terphenyl	*82.3 %*	*44-131*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Aldicarb	ND	2.0	0.44	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Aldicarb sulfone	ND	2.0	0.48	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Carbaryl	ND	2.0	0.27	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Carbofuran	ND	2.0	0.35	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Dioxacarb	ND	2.0	0.86	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
3-Hydroxycarbofuran	ND	2.0	0.66	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Methiocarb	ND	2.0	0.76	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Methomyl	ND	2.0	0.45	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Promecarb	ND	2.0	0.60	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Propoxur (Baygon)	ND	2.0	0.53	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroform	**7.5**	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-07

2F28042-14 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Toluene	**3.0**	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	

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Reported:
8/16/12

AWL120626-07

2F28042-14 (Waste Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*97.7 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*97.9 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	

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

Reported:
8/16/12

AWL120626-08

2F28042-15 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Ammonia as N	ND	1.0	0.48	mg/L	1	T2G1612	07/16/12	07/18/12	EPA 350.1	
Chloride	ND	2.0	0.018	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Fluoride	ND	0.10	0.0036	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Hardness (Total)	ND	1.3		mg equiv. CaCO3/L	1	[CALC]	07/03/12	07/03/12	SM2340B	
Sulfate as SO4	ND	2.0	0.0094	mg/L	1	T2F2920	06/30/12	06/30/12	EPA 300.0	
Total Dissolved Solids	**9.5**	10	8.1	mg/L	1	T2G0314	07/03/12	07/05/12	SM 2540C	**J**
Metals - Totals										
Aluminum	**0.89**	4.0	0.50	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	**J**
Antimony	ND	1.0	0.068	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Arsenic	ND	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Barium	**0.074**	1.0	0.042	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Boron	ND	20	7.8	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Cadmium	ND	0.20	0.079	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Calcium	ND	0.20	0.015	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Chromium	**0.59**	1.0	0.17	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Copper	**0.14**	2.0	0.094	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Iron	ND	20	5.9	µg/L	1	T2G1215	07/13/12	07/16/12	EPA 200.8	
Lead	**0.34**	0.50	0.029	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Magnesium	ND	0.20	0.018	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Manganese	**0.16**	1.0	0.051	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	**J**
Nickel	ND	1.0	0.039	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Selenium	ND	1.0	0.17	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Silver	ND	1.0	0.15	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Sodium	ND	2.0	0.51	mg/L	1	T2G0318	07/03/12	07/03/12	EPA 200.7	
Thallium	ND	1.0	0.064	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Zinc	ND	5.0	3.0	µg/L	1	T2G0309	07/03/12	07/09/12	EPA 200.8	
Semi-Volatile Organics										
4,4´-DDD	ND	0.053	0.0042	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
4,4´-DDE	ND	0.053	0.0021	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
4,4´-DDT	ND	0.053	0.0042	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Aldrin	ND	0.053	0.0032	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
alpha-BHC	ND	0.053	0.0042	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
alpha-Chlordane	ND	0.053	0.0021	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
beta-BHC	ND	0.053	0.0042	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	

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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:
8/16/12

AWL120626-08

2F28042-15 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Chlordane (tech)	ND	0.11	0.0021	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
delta-BHC	ND	0.053	0.0032	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Dieldrin	ND	0.053	0.0021	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan I	ND	0.053	0.0032	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Trifluralin	ND	0.053	0.0032	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan II	ND	0.053	0.0021	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endosulfan sulfate	ND	0.053	0.0032	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin	ND	0.053	0.0032	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin aldehyde	ND	0.053	0.0042	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Endrin ketone	ND	0.053	0.0042	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
gamma-BHC (Lindane)	ND	0.053	0.0032	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
gamma-Chlordane	ND	0.053	0.0021	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Heptachlor	ND	0.053	0.0021	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Heptachlor epoxide	ND	0.053	0.0042	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Methoxychlor	ND	0.053	0.0063	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Toxaphene	ND	0.53	0.11	µg/L	1	T2G0323	07/03/12	07/04/12	EPA 8081A	
Surrogate: Decachlorobiphenyl (DCB)	*73.9 %*	*28.2-144*				*T2G0323*	*07/03/12*	*07/04/12*	*EPA 8081A*	
Surrogate: Tetrachloro-meta-xylene (TMX)	*60.5 %*	*34.4-113*				*T2G0323*	*07/03/12*	*07/04/12*	*EPA 8081A*	
PCB-1016	ND	0.53	0.16	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1221	ND	0.53	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1232	ND	0.53	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1242	ND	0.53	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1248	ND	0.53	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1254	ND	0.53	0.11	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
PCB-1260	ND	0.53	0.12	µg/L	1	T2G0324	07/03/12	07/04/12	EPA 8082	
Surrogate: Decachlorobiphenyl (DCB)	*69.5 %*	*40.7-154*				*T2G0324*	*07/03/12*	*07/04/12*	*EPA 8082*	
Surrogate: Tetrachloro-meta-xylene (TMX)	*55.0 %*	*24-140*				*T2G0324*	*07/03/12*	*07/04/12*	*EPA 8082*	
2,4,5-T	ND	0.50	0.0090	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4,5-TP (Silvex)	ND	0.50	0.011	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4-D	ND	5.0	0.17	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
2,4-DB	ND	5.0	0.15	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dalapon	ND	20	0.21	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dicamba	ND	0.50	0.0090	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dichloroprop	ND	5.0	0.36	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Dinoseb	ND	2.5	0.075	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
MCPA	ND	30	8.0	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	

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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

AWL120626-08

2F28042-15 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
MCPP	ND	30	8.0	µg/L	1	T2G0322	07/03/12	07/06/12	EPA 8151A	
Surrogate: 2,4-Dichlorophenylacetic acid	*94.8 %*	*10-150*				*T2G0322*	*07/03/12*	*07/06/12*	*EPA 8151A*	
N-Nitrosodimethylamine	ND	5.0	0.68	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Phenol	ND	5.0	0.22	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroethyl)ether	ND	5.0	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Chlorophenol	ND	5.0	1.3	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,3-Dichlorobenzene	ND	5.0	0.26	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,4-Dichlorobenzene	ND	5.0	0.16	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2-Dichlorobenzene	ND	5.0	0.24	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	5.0	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Methylphenol	ND	5.0	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachloroethane	ND	5.0	0.48	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3-Methylphenol	ND	5.0	0.47	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Methylphenol	ND	5.0	0.56	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	5.0	0.46	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Nitrobenzene	ND	5.0	0.33	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Isophorone	ND	5.0	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Nitrophenol	ND	5.0	0.44	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dimethylphenol	ND	5.0	0.44	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	5.0	0.38	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dichlorophenol	ND	5.0	0.58	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2,4-Trichlorobenzene	ND	5.0	0.28	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Naphthalene	ND	5.0	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chloroaniline	ND	5.0	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorobutadiene	ND	5.0	0.29	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chloro-3-methylphenol	ND	5.0	0.67	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Methylnaphthalene	ND	5.0	0.36	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorocyclopentadiene	ND	5.0	0.63	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4,5-Trichlorophenol	ND	5.0	0.53	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4,6-Trichlorophenol	ND	5.0	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Chloronaphthalene	ND	5.0	0.40	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2-Nitroaniline	ND	5.0	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dimethyl phthalate	ND	5.0	0.32	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Acenaphthylene	ND	5.0	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,6-Dinitrotoluene	ND	5.0	0.40	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3-Nitroaniline	ND	5.0	0.40	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	

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

Reported:
8/16/12

AWL120626-08

2F28042-15 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Acenaphthene	ND	5.0	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dinitrophenol	ND	5.0	1.3	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dibenzofuran	ND	5.0	0.25	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Nitrophenol	ND	5.0	0.61	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
2,4-Dinitrotoluene	ND	5.0	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Fluorene	ND	5.0	0.35	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Diethyl phthalate	ND	5.0	0.29	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	5.0	0.34	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Nitroaniline	ND	5.0	0.58	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Diphenylamine	ND	5.0	0.37	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
1,2-Diphenylhydrazine	ND	5.0	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzidine	ND	5.0	0.58	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
N-Nitrosodiphenylamine	ND	5.0	0.19	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	5.0	1.6	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
4-Bromophenyl phenyl ether	ND	5.0	0.65	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Hexachlorobenzene	ND	5.0	0.56	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Pentachlorophenol	ND	5.0	1.1	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Phenanthrene	ND	5.0	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Anthracene	ND	5.0	0.42	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Di-n-butyl phthalate	ND	5.0	0.48	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Fluoranthene	ND	5.0	0.51	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Pyrene	ND	5.0	0.47	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Butyl benzyl phthalate	ND	5.0	0.55	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (a) anthracene	ND	5.0	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Chrysene	ND	5.0	0.59	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Bis(2-ethylhexyl) phthalate	ND	5.0	0.43	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Di-n-octyl phthalate	ND	5.0	0.31	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (b) fluoranthene	ND	5.0	0.30	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (k) fluoranthene	ND	5.0	0.50	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo (a) pyrene	ND	5.0	0.36	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
3,3'-Dichlorobenzidine	ND	5.0	1.2	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	5.0	0.44	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Dibenzo(a,h)anthracene	ND	5.0	0.66	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Benzo(ghi)perylene	ND	5.0	0.39	µg/L	1	T2G0301	07/03/12	07/03/12	EPA 8270C	
Surrogate: 2-Fluorophenol	*46.4 %*	*22-92*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: Phenol-d5	*33.0 %*	*10-94*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	

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

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Project: MUN Evaluation
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Project Manager: Calvin Yang

Reported:
8/16/12

AWL120626-08

2F28042-15 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Semi-Volatile Organics										
Surrogate: Nitrobenzene-d5	*71.8 %*	*41-110*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: 2-Fluorobiphenyl	*73.4 %*	*40-92*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol	*93.5 %*	*49-138*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Surrogate: d14-Terphenyl	*105 %*	*44-131*				*T2G0301*	*07/03/12*	*07/03/12*	*EPA 8270C*	
Aldicarb	ND	2.0	0.44	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Aldicarb sulfone	ND	2.0	0.48	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Carbaryl	ND	2.0	0.27	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Carbofuran	ND	2.0	0.35	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Dioxacarb	ND	2.0	0.86	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
3-Hydroxycarbofuran	ND	2.0	0.66	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Methiocarb	ND	2.0	0.76	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Methomyl	ND	2.0	0.45	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Promecarb	ND	2.0	0.60	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Propoxur (Baygon)	ND	2.0	0.53	µg/L	1	T2G0201	07/02/12	07/09/12	EPA 8318	
Volatile Organics										
Chloromethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Vinyl chloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromomethane	ND	2.0	0.32	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroethane	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon disulfide	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrolein	ND	10	1.5	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methylene chloride	ND	1.0	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.36	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Acrylonitrile	ND	5.0	2.9	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2,2-Dichloropropane	ND	0.50	0.24	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromochloromethane	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chloroform	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Carbon tetrachloride	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.50	0.16	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1-Dichloropropene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Benzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	2.0	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	

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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

AWL120626-08

2F28042-15 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
Trichloroethene (TCE)	ND	0.50	0.17	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromomethane	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromodichloromethane	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Toluene	ND	0.50	0.27	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Dibromochloromethane	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichloropropane	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	0.22	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Ethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Chlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
m,p-Xylene	ND	0.50	0.20	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
o-Xylene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromoform	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Isopropylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Bromobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Propylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.50	0.11	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
2-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.50	0.29	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
4-Chlorotoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
tert-Butylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
sec-Butylbenzene	ND	10	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
p-Isopropyltoluene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,3-Dichlorobenzene	ND	0.50	0.040	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,4-Dichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
n-Butylbenzene	ND	0.50	0.13	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	0.12	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.39	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Hexachlorobutadiene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Naphthalene	ND	0.50	0.15	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	

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

Reported:
8/16/12

AWL120626-08

2F28042-15 (Surface Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,2,3-Trichlorobenzene	ND	0.50	0.10	µg/L	1	T2G0209	07/02/12	07/03/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	*97.8 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Dibromofluoromethane	*105 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	
Surrogate: Toluene-d8	*98.0 %*	*70-130*				*T2G0209*	*07/02/12*	*07/03/12*	*EPA 8260B*	

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.
RPD1	The RPD and/or percent recovery for QC sample cannot be accurately calculated due to the high concentration of target analyte.
RPD	The RPD result exceeded the QC control limits. However, both percent recoveries were acceptable.
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.
BS3	Recovery for this analyte was biased high. Associated samples were ND.
BS2	Recovery for this analyte was biased low. Results were accepted based on duplicate results.
BS1	Recovery for this analyte was biased high. Results were accepted based on duplicate results.
BLK02	Detected in the blank; associated samples were either ND, or >10x the amount detected.
BLK01	Detected in the blank; associated samples were ND.
B	A detectable amount of this analyte was observed in the method blank.
*	At least one of the surrogates was within laboratory control limits.
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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Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2920										
Blank (T2F2920-BLK1)				Prepared & Analyzed: 06/30/12						
Fluoride	ND	0.10	mg/L							
Chloride	ND	2.0	mg/L							
Sulfate as SO4	ND	2.0	mg/L							
LCS (T2F2920-BS1)				Prepared & Analyzed: 06/30/12						
Fluoride	2.00	0.10	mg/L	2.00		99.9	90-110		20	
Chloride	49.7	2.0	mg/L	50.0		99.4	90-110		20	
Sulfate as SO4	50.2	2.0	mg/L	50.0		100	90-110		20	
LCS Dup (T2F2920-BSD1)				Prepared & Analyzed: 06/30/12						
Fluoride	1.91	0.10	mg/L	2.00		95.4	90-110	4.64	20	
Chloride	47.5	2.0	mg/L	50.0		95.0	90-110	4.50	20	
Sulfate as SO4	48.2	2.0	mg/L	50.0		96.3	90-110	4.25	20	
Matrix Spike (T2F2920-MS1)		**Source: 2F28042-03**		Prepared & Analyzed: 06/30/12						
Fluoride	4.45	0.20	mg/L	4.00	0.0430	110	48.9-155		20	
Chloride	178	4.0	mg/L	100	68.6	109	48-147		15	
Sulfate as SO4	142	4.0	mg/L	100	34.7	107	70-130		20	
Matrix Spike (T2F2920-MS2)		**Source: 2F29030-02**		Prepared & Analyzed: 06/30/12						
Fluoride	4.41	0.20	mg/L	4.00	0.148	107	48.9-155		20	
Chloride	324	4.0	mg/L	100	203	121	48-147		15	
Sulfate as SO4	108	4.0	mg/L	100	ND	108	70-130		20	
Matrix Spike Dup (T2F2920-MSD1)		**Source: 2F28042-03**		Prepared & Analyzed: 06/30/12						
Fluoride	4.48	0.20	mg/L	4.00	0.0430	111	48.9-155	0.668	20	
Chloride	178	4.0	mg/L	100	68.6	110	48-147	0.321	15	
Sulfate as SO4	143	4.0	mg/L	100	34.7	109	70-130	0.833	20	
Matrix Spike Dup (T2F2920-MSD2)		**Source: 2F29030-02**		Prepared & Analyzed: 06/30/12						
Fluoride	4.39	0.20	mg/L	4.00	0.148	106	48.9-155	0.568	20	
Chloride	323	4.0	mg/L	100	203	121	48-147	0.253	15	
Sulfate as SO4	108	4.0	mg/L	100	ND	108	70-130	0.532	20	
Batch T2G0314										
Blank (T2G0314-BLK1)				Prepared: 07/03/12 Analyzed: 07/05/12						
Total Dissolved Solids	17.0	10	mg/L							B
LCS (T2G0314-BS1)				Prepared: 07/03/12 Analyzed: 07/05/12						
Total Dissolved Solids	254	10	mg/L	240		106	80-120		20	

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

Reported:
8/16/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0314										
LCS Dup (T2G0314-BSD1)				Prepared: 07/03/12 Analyzed: 07/05/12						
Total Dissolved Solids	254	10	mg/L	240		106	80-120	0.394	20	
Duplicate (T2G0314-DUP1)		**Source: 2F28034-01**		Prepared: 07/03/12 Analyzed: 07/05/12						
Total Dissolved Solids	166	20	mg/L		168			1.20	20	
Duplicate (T2G0314-DUP2)		**Source: 2F28034-02**		Prepared: 07/03/12 Analyzed: 07/05/12						
Total Dissolved Solids	356	20	mg/L		362			1.67	20	
Batch T2G1612										
Blank (T2G1612-BLK1)				Prepared: 07/16/12 Analyzed: 07/18/12						
Ammonia as N	0.644	1.0	mg/L							J
LCS (T2G1612-BS1)				Prepared: 07/16/12 Analyzed: 07/18/12						
Ammonia as N	17.1	1.0	mg/L	22.5		76.1	80-120		20	BS2
LCS Dup (T2G1612-BSD1)				Prepared: 07/16/12 Analyzed: 07/18/12						
Ammonia as N	18.3	1.0	mg/L	22.5		81.3	80-120	6.70	20	
Matrix Spike (T2G1612-MS1)		**Source: 2G03003-01**		Prepared: 07/16/12 Analyzed: 07/18/12						
Ammonia as N	19.8	1.0	mg/L	22.5	0.591	85.4	80-120		20	
Matrix Spike Dup (T2G1612-MSD1)		**Source: 2G03003-01**		Prepared: 07/16/12 Analyzed: 07/18/12						
Ammonia as N	21.5	1.0	mg/L	22.5	0.591	93.1	80-120	8.39	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 T2G0309										
Blank (T2G0309-BLK1)				Prepared: 07/03/12 Analyzed: 07/09/12						
Iron	33.1	20	µg/L							BLK02
Silver	2.81	1.0	µg/L							BLK01
Chromium	0.701	1.0	µg/L							J
Lead	0.583	0.50	µg/L							BLK01
Boron	ND	20	µg/L							
Manganese	0.170	1.0	µg/L							J
Cadmium	0.157	0.20	µg/L							J
Arsenic	ND	1.0	µg/L							
Thallium	ND	1.0	µg/L							
Zinc	17.9	5.0	µg/L							BLK01
Barium	2.81	1.0	µg/L							BLK02
Antimony	ND	1.0	µg/L							
Selenium	ND	1.0	µg/L							
Nickel	0.146	1.0	µg/L							J
Copper	0.203	2.0	µg/L							J
LCS (T2G0309-BS1)				Prepared: 07/03/12 Analyzed: 07/09/12						
Barium	48.2	1.0	µg/L	50.0		96.3	85-115		20	
Lead	48.8	0.50	µg/L	50.0		97.7	85-115		20	
Silver	48.7	1.0	µg/L	50.0		97.4	85-115		20	
Selenium	51.5	1.0	µg/L	50.0		103	85-115		20	
Nickel	53.1	1.0	µg/L	50.0		106	85-115		20	
Boron	261	20	µg/L	250		104	85-115		20	
Manganese	95.1	1.0	µg/L	50.0		190	85-115		20	BS1
Copper	53.3	2.0	µg/L	50.0		107	85-115		20	
Antimony	52.2	1.0	µg/L	50.0		104	85-115		20	
Cadmium	51.5	0.20	µg/L	50.0		103	85-115		20	
Chromium	53.1	1.0	µg/L	50.0		106	85-115		20	
Thallium	48	1.0	µg/L	50.0		96.1	85-115		20	
Zinc	57.2	5.0	µg/L	50.0		114	85-115		20	
Iron	2330	20	µg/L	2500		93.3	85-115		20	
Arsenic	51.9	1.0	µg/L	50.0		104	85-115		20	
LCS Dup (T2G0309-BSD1)				Prepared: 07/03/12 Analyzed: 07/09/12						
Thallium	47	1.0	µg/L	50.0		94.2	85-115	2.01	20	
Manganese	51.3	1.0	µg/L	50.0		103	85-115	59.8	20	RPD3
Iron	2310	20	µg/L	2500		92.2	85-115	1.21	20	

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Reported:
8/16/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0309										
LCS Dup (T2G0309-BSD1)				Prepared: 07/03/12 Analyzed: 07/09/12						
Chromium	51.6	1.0	µg/L	50.0		103	85-115	2.87	20	
Nickel	51.5	1.0	µg/L	50.0		103	85-115	3.01	20	
Antimony	54.4	1.0	µg/L	50.0		109	85-115	4.14	20	
Zinc	66.8	5.0	µg/L	50.0		134	85-115	15.4	20	BS1
Selenium	65.2	1.0	µg/L	50.0		130	85-115	23.4	20	BS1
Barium	50.5	1.0	µg/L	50.0		101	85-115	4.76	20	
Boron	263	20	µg/L	250		105	85-115	0.761	20	
Copper	52.2	2.0	µg/L	50.0		104	85-115	2.06	20	
Arsenic	56.5	1.0	µg/L	50.0		113	85-115	8.38	20	
Lead	48.2	0.50	µg/L	50.0		96.4	85-115	1.33	20	
Silver	51.9	1.0	µg/L	50.0		104	85-115	6.41	20	
Cadmium	57.0	0.20	µg/L	50.0		114	85-115	9.97	20	
Matrix Spike (T2G0309-MS1)		**Source: 2G02014-03**		Prepared: 07/03/12 Analyzed: 07/09/12						
Manganese	92	1.0	µg/L	50.0	4.1	176	70-130		20	MS2
Copper	87	2.0	µg/L	50.0	0.28	174	70-130		20	MS2
Cadmium	87	0.20	µg/L	50.0	ND	174	70-130		20	MS2
Chromium	89	1.0	µg/L	50.0	0.49	177	70-130		20	MS2
Lead	84	0.50	µg/L	50.0	0.34	167	70-130		20	MS2
Iron	2340	20	µg/L	2500	19.6	92.7	70-130		20	
Boron	290	20	µg/L	250	27	106	70-130		20	
Thallium	84	1.0	µg/L	50.0	ND	168	70-130		20	MS2
Silver	50.1	1.0	µg/L	50.0	ND	100	70-130		20	
Antimony	88	1.0	µg/L	50.0	ND	177	70-130		20	MS2
Barium	52	1.0	µg/L	50.0	0.23	103	70-130		20	
Arsenic	89	1.0	µg/L	50.0	1.6	174	70-130		20	MS2
Selenium	86	1.0	µg/L	50.0	ND	172	70-130		20	MS2
Nickel	88	1.0	µg/L	50.0	0.16	175	70-130		20	MS2
Zinc	92	5.0	µg/L	50.0	4.2	175	70-130		20	MS2
Matrix Spike (T2G0309-MS2)		**Source: 2G03001-01**		Prepared: 07/03/12 Analyzed: 07/09/12						
Zinc	320	5.0	µg/L	50.0	270	111	70-130		20	
Lead	59	0.50	µg/L	50.0	5.5	107	70-130		20	
Chromium	53	1.0	µg/L	50.0	0.43	105	70-130		20	
Boron	290	20	µg/L	250	20	108	70-130		20	
Arsenic	54	1.0	µg/L	50.0	2.3	103	70-130		20	
Silver	49.7	1.0	µg/L	50.0	ND	99.4	70-130		20	

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Project: MUN Evaluation
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Reported:
8/16/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0309										
Matrix Spike (T2G0309-MS2)		**Source: 2G03001-01**		Prepared: 07/03/12 Analyzed: 07/09/12						
Cadmium	51	0.20	µg/L	50.0	ND	101	70-130		20	
Barium	70	1.0	µg/L	50.0	15	111	70-130		20	
Selenium	50	1.0	µg/L	50.0	1.9	97.0	70-130		20	
Manganese	54	1.0	µg/L	50.0	1.1	106	70-130		20	
Nickel	52	1.0	µg/L	50.0	2.3	100	70-130		20	
Thallium	52	1.0	µg/L	50.0	ND	103	70-130		20	
Antimony	54	1.0	µg/L	50.0	0.23	108	70-130		20	
Copper	130	2.0	µg/L	50.0	52	158	70-130		20	MS2
Matrix Spike Dup (T2G0309-MSD1)		**Source: 2G02014-03**		Prepared: 07/03/12 Analyzed: 07/09/12						
Antimony	52	1.0	µg/L	50.0	ND	105	70-130	51.0	20	RPD3
Iron	2360	20	µg/L	2500	19.6	93.8	70-130	1.18	20	
Zinc	110	5.0	µg/L	50.0	4.2	204	70-130	14.8	20	MS2
Copper	61	2.0	µg/L	50.0	0.28	121	70-130	35.5	20	RPD3
Thallium	49	1.0	µg/L	50.0	ND	98.0	70-130	52.3	20	RPD3
Cadmium	51	0.20	µg/L	50.0	ND	102	70-130	52.4	20	RPD3
Lead	50	0.50	µg/L	50.0	0.34	98.9	70-130	50.7	20	RPD3
Arsenic	53	1.0	µg/L	50.0	1.6	102	70-130	50.7	20	RPD3
Silver	50.1	1.0	µg/L	50.0	ND	100	70-130	0.0163	20	
Boron	280	20	µg/L	250	27	101	70-130	4.02	20	
Chromium	52	1.0	µg/L	50.0	0.49	103	70-130	52.0	20	RPD3
Nickel	51	1.0	µg/L	50.0	0.16	102	70-130	52.6	20	RPD3
Barium	55	1.0	µg/L	50.0	0.23	109	70-130	5.38	20	
Selenium	51	1.0	µg/L	50.0	ND	103	70-130	50.6	20	RPD3
Manganese	52	1.0	µg/L	50.0	4.1	95.5	70-130	55.8	20	RPD3
Matrix Spike Dup (T2G0309-MSD2)		**Source: 2G03001-01**		Prepared: 07/03/12 Analyzed: 07/09/12						
Boron	300	20	µg/L	250	20	110	70-130	1.81	20	
Thallium	51	1.0	µg/L	50.0	ND	103	70-130	0.450	20	
Nickel	52	1.0	µg/L	50.0	2.3	99.9	70-130	0.142	20	
Manganese	54	1.0	µg/L	50.0	1.1	106	70-130	0.132	20	
Chromium	53	1.0	µg/L	50.0	0.43	104	70-130	0.677	20	
Selenium	50	1.0	µg/L	50.0	1.9	96.3	70-130	0.685	20	
Silver	49.1	1.0	µg/L	50.0	ND	98.3	70-130	1.14	20	
Copper	130	2.0	µg/L	50.0	52	159	70-130	0.373	20	MS2
Arsenic	54	1.0	µg/L	50.0	2.3	104	70-130	0.318	20	
Zinc	320	5.0	µg/L	50.0	270	115	70-130	0.623	20	

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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0309										
Matrix Spike Dup (T2G0309-MSD2)		**Source: 2G03001-01**		Prepared: 07/03/12 Analyzed: 07/09/12						
Barium	70	1.0	µg/L	50.0	15	110	70-130	0.481	20	
Antimony	54	1.0	µg/L	50.0	0.23	107	70-130	0.562	20	
Cadmium	50	0.20	µg/L	50.0	ND	100	70-130	0.996	20	
Lead	59	0.50	µg/L	50.0	5.5	107	70-130	0.782	20	
Batch T2G0318										
Blank (T2G0318-BLK1)				Prepared & Analyzed: 07/03/12						
Calcium	ND	0.10	mg/L							
Sodium	ND	1.0	mg/L							
Magnesium	ND	0.10	mg/L							
LCS (T2G0318-BS1)				Prepared & Analyzed: 07/03/12						
Sodium	1.98	1.0	mg/L	2.00		99.2	85-115		20	
Magnesium	1.93	0.10	mg/L	2.00		96.3	85-115		20	
Calcium	2.04	0.10	mg/L	2.00		102	85-115		20	
LCS Dup (T2G0318-BSD1)				Prepared & Analyzed: 07/03/12						
Magnesium	1.89	0.10	mg/L	2.00		94.7	85-115	1.64	20	
Calcium	2.00	0.10	mg/L	2.00		100	85-115	2.12	20	
Sodium	1.99	1.0	mg/L	2.00		99.3	85-115	0.0664	20	
Batch T2G0503										
Blank (T2G0503-BLK1)				Prepared: 07/05/12 Analyzed: 07/11/12						
Aluminum	2.25	4.0	µg/L							J
Copper	0.220	2.0	µg/L							J
Chromium	0.646	1.0	µg/L							J
Zinc	ND	5.0	µg/L							
Cadmium	ND	0.20	µg/L							
Nickel	ND	1.0	µg/L							
Boron	ND	20	µg/L							
Selenium	ND	1.0	µg/L							
Manganese	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Silver	ND	1.0	µg/L							
Arsenic	ND	1.0	µg/L							
Iron	ND	20	µg/L							
Thallium	ND	1.0	µg/L							

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

Reported:
8/16/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0503										
Blank (T2G0503-BLK1)				Prepared: 07/05/12 Analyzed: 07/11/12						
Antimony	0.0760	1.0	µg/L							J
Barium	ND	1.0	µg/L							
LCS (T2G0503-BS1)				Prepared: 07/05/12 Analyzed: 07/11/12						
Aluminum	56.2	4.0	µg/L	50.0		112	85-115		20	
Arsenic	50.8	1.0	µg/L	50.0		102	85-115		20	
Antimony	49.8	1.0	µg/L	50.0		99.7	85-115		20	
Cadmium	49.4	0.20	µg/L	50.0		98.9	85-115		20	
Boron	266	20	µg/L	250		106	85-115		20	
Barium	52.3	1.0	µg/L	50.0		105	85-115		20	
Lead	47.8	0.50	µg/L	50.0		95.6	85-115		20	
Zinc	54.2	5.0	µg/L	50.0		108	85-115		20	
Iron	2340	20	µg/L	2500		93.6	85-115		20	
Silver	50.0	1.0	µg/L	50.0		100	85-115		20	
Thallium	48	1.0	µg/L	50.0		95.2	85-115		20	
Copper	51.5	2.0	µg/L	50.0		103	85-115		20	
Chromium	52.4	1.0	µg/L	50.0		105	85-115		20	
Manganese	51.6	1.0	µg/L	50.0		103	85-115		20	
Selenium	49.4	1.0	µg/L	50.0		98.7	85-115		20	
Nickel	51.3	1.0	µg/L	50.0		103	85-115		20	
LCS Dup (T2G0503-BSD1)				Prepared: 07/05/12 Analyzed: 07/11/12						
Selenium	50.0	1.0	µg/L	50.0		100	85-115	1.28	20	
Boron	265	20	µg/L	250		106	85-115	0.365	20	
Barium	47.6	1.0	µg/L	50.0		95.3	85-115	9.29	20	
Manganese	52.7	1.0	µg/L	50.0		105	85-115	2.09	20	
Cadmium	49.5	0.20	µg/L	50.0		99.0	85-115	0.115	20	
Nickel	52.1	1.0	µg/L	50.0		104	85-115	1.57	20	
Silver	45.5	1.0	µg/L	50.0		91.0	85-115	9.45	20	
Arsenic	51.4	1.0	µg/L	50.0		103	85-115	1.21	20	
Lead	48.4	0.50	µg/L	50.0		96.8	85-115	1.17	20	
Antimony	50.3	1.0	µg/L	50.0		101	85-115	0.861	20	
Aluminum	56.2	4.0	µg/L	50.0		112	85-115	0.00384	20	
Zinc	55.2	5.0	µg/L	50.0		110	85-115	1.95	20	
Thallium	48	1.0	µg/L	50.0		96.3	85-115	1.14	20	
Chromium	53.5	1.0	µg/L	50.0		107	85-115	2.07	20	
Iron	2040	20	µg/L	2500		81.6	85-115	13.7	20	BS2

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

Reported:
8/16/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0503										
LCS Dup (T2G0503-BSD1)				Prepared: 07/05/12 Analyzed: 07/11/12						
Copper	52.3	2.0	µg/L	50.0		105	85-115	1.45	20	
Matrix Spike (T2G0503-MS1)		**Source: 2G05018-01**		Prepared: 07/05/12 Analyzed: 07/11/12						
Boron	260	20	µg/L	250	12	101	70-130		20	
Barium	63	1.0	µg/L	50.0	12	103	70-130		20	
Aluminum	57	4.0	µg/L	50.0	3.3	108	70-130		20	
Selenium	49	1.0	µg/L	50.0	0.38	98.2	70-130		20	RPD
Zinc	120	5.0	µg/L	50.0	64	103	70-130		20	
Manganese	52	1.0	µg/L	50.0	0.60	102	70-130		20	RPD
Nickel	53	1.0	µg/L	50.0	3.0	99.5	70-130		20	
Lead	53	0.50	µg/L	50.0	6.2	93.5	70-130		20	
Chromium	52	1.0	µg/L	50.0	0.90	103	70-130		20	RPD
Copper	6500	4.0	µg/L	50.0	6600	NR	70-130		20	MS4
Thallium	47	1.0	µg/L	50.0	ND	94.5	70-130		20	RPD
Cadmium	50	0.20	µg/L	50.0	ND	99.0	70-130		20	RPD
Antimony	52	1.0	µg/L	50.0	0.10	103	70-130		20	RPD
Iron	1940	20	µg/L	2500	20.6	76.6	70-130		20	
Silver	49.0	1.0	µg/L	50.0	ND	98.0	70-130		20	
Arsenic	51	1.0	µg/L	50.0	0.21	102	70-130		20	RPD
Matrix Spike (T2G0503-MS2)		**Source: 2G05018-02**		Prepared: 07/05/12 Analyzed: 07/11/12						
Zinc	77	5.0	µg/L	50.0	25	103	70-130		20	RPD1
Selenium	47	1.0	µg/L	50.0	0.17	94.5	70-130		20	
Silver	47.8	1.0	µg/L	50.0	0.278	95.0	70-130		20	
Copper	4100	2.0	µg/L	50.0	4200	NR	70-130		20	MS2
Aluminum	66	4.0	µg/L	50.0	13	105	70-130		20	
Arsenic	51	1.0	µg/L	50.0	0.19	101	70-130		20	
Barium	63	1.0	µg/L	50.0	12	102	70-130		20	
Thallium	47	1.0	µg/L	50.0	ND	93.6	70-130		20	
Antimony	51	1.0	µg/L	50.0	0.080	102	70-130		20	
Iron	1870	20	µg/L	2500	21.3	73.9	70-130		20	
Lead	48	0.50	µg/L	50.0	1.6	92.7	70-130		20	
Chromium	52	1.0	µg/L	50.0	0.97	103	70-130		20	
Nickel	52	1.0	µg/L	50.0	1.4	101	70-130		20	
Manganese	52	1.0	µg/L	50.0	6.2	91.2	70-130		20	
Boron	260	20	µg/L	250	11	100	70-130		20	
Cadmium	49	0.20	µg/L	50.0	ND	97.9	70-130		20	

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

Reported:
8/16/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0503										
Matrix Spike Dup (T2G0503-MSD1)		**Source: 2G05018-01**		Prepared: 07/05/12 Analyzed: 07/11/12						
Arsenic	38	1.0	µg/L	50.0	0.21	75.7	70-130	29.9	20	RPD
Iron	1800	20	µg/L	2500	20.6	71.1	70-130	7.33	20	
Cadmium	36	0.20	µg/L	50.0	ND	72.6	70-130	30.7	20	RPD
Antimony	38	1.0	µg/L	50.0	0.10	75.6	70-130	30.9	20	RPD
Zinc	100	5.0	µg/L	50.0	64	73.5	70-130	13.6	20	
Aluminum	44	4.0	µg/L	50.0	3.3	82.0	70-130	25.8	20	RPD
Silver	48.7	1.0	µg/L	50.0	ND	97.4	70-130	0.580	20	
Copper	6400	4.0	µg/L	50.0	6600	NR	70-130	0.510	20	MS4
Chromium	39	1.0	µg/L	50.0	0.90	76.0	70-130	29.3	20	RPD
Thallium	35	1.0	µg/L	50.0	ND	70.7	70-130	28.8	20	RPD
Nickel	40	1.0	µg/L	50.0	3.0	73.9	70-130	27.6	20	RPD
Lead	41	0.50	µg/L	50.0	6.2	70.1	70-130	24.8	20	RPD
Barium	64	1.0	µg/L	50.0	12	105	70-130	1.71	20	
Selenium	37	1.0	µg/L	50.0	0.38	73.3	70-130	28.8	20	RPD
Manganese	39	1.0	µg/L	50.0	0.60	75.9	70-130	29.2	20	RPD
Boron	260	20	µg/L	250	12	98.4	70-130	2.14	20	
Matrix Spike Dup (T2G0503-MSD2)		**Source: 2G05018-02**		Prepared: 07/05/12 Analyzed: 07/11/12						
Barium	62	1.0	µg/L	50.0	12	100	70-130	1.44	20	
Chromium	50	1.0	µg/L	50.0	0.97	97.4	70-130	5.01	20	
Aluminum	54	4.0	µg/L	50.0	13	80.4	70-130	20.5	20	RPD
Selenium	46	1.0	µg/L	50.0	0.17	91.3	70-130	3.47	20	
Nickel	50	1.0	µg/L	50.0	1.4	97.0	70-130	3.44	20	
Zinc	110	5.0	µg/L	50.0	25	174	70-130	37.4	20	MS2
Antimony	48	1.0	µg/L	50.0	0.080	95.9	70-130	6.57	20	
Iron	1840	20	µg/L	2500	21.3	72.7	70-130	1.59	20	
Silver	46.6	1.0	µg/L	50.0	0.278	92.6	70-130	2.58	20	
Lead	50	0.50	µg/L	50.0	1.6	97.1	70-130	4.46	20	
Arsenic	48	1.0	µg/L	50.0	0.19	95.1	70-130	6.26	20	
Manganese	49	1.0	µg/L	50.0	6.2	85.8	70-130	5.43	20	
Cadmium	46	0.20	µg/L	50.0	ND	92.7	70-130	5.47	20	
Thallium	44	1.0	µg/L	50.0	ND	88.3	70-130	5.90	20	
Boron	270	20	µg/L	250	11	103	70-130	2.11	20	
Batch T2G1215										
Blank (T2G1215-BLK1)				Prepared: 07/13/12 Analyzed: 07/16/12						

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

Reported:
8/16/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G1215										
Blank (T2G1215-BLK1)				Prepared: 07/13/12 Analyzed: 07/16/12						
Iron	ND	20	µg/L							
Zinc	ND	5.0	µg/L							
Aluminum	ND	4.0	µg/L							
LCS (T2G1215-BS1)				Prepared: 07/13/12 Analyzed: 07/16/12						
Aluminum	52.9	4.0	µg/L	50.0		106	85-115		20	
Iron	2750	20	µg/L	2500		110	85-115		20	
Zinc	55.6	5.0	µg/L	50.0		111	85-115		20	
LCS Dup (T2G1215-BSD1)				Prepared: 07/13/12 Analyzed: 07/16/12						
Aluminum	53.5	4.0	µg/L	50.0		107	85-115	1.13	20	
Zinc	55.9	5.0	µg/L	50.0		112	85-115	0.586	20	
Iron	2740	20	µg/L	2500		109	85-115	0.331	20	
Matrix Spike (T2G1215-MS1)		**Source: 2G03001-01**		Prepared: 07/13/12 Analyzed: 07/16/12						
Zinc	390	10	µg/L	100	270	127	70-130		20	
Aluminum	140	8.0	µg/L	100	36	103	70-130		20	
Iron	5680	40	µg/L	5000	267	108	70-130		20	
Matrix Spike (T2G1215-MS2)		**Source: 2G10023-01**		Prepared: 07/13/12 Analyzed: 07/16/12						
Iron	5360	40	µg/L	5000	14.3	107	70-130		20	
Zinc	110	10	µg/L	100	ND	106	70-130		20	
Aluminum	120	8.0	µg/L	100	14	104	70-130		20	
Matrix Spike Dup (T2G1215-MSD1)		**Source: 2G03001-01**		Prepared: 07/13/12 Analyzed: 07/16/12						
Zinc	400	10	µg/L	100	270	132	70-130	1.28	20	MS2
Aluminum	140	8.0	µg/L	100	36	104	70-130	0.483	20	
Iron	5670	40	µg/L	5000	267	108	70-130	0.0584	20	
Matrix Spike Dup (T2G1215-MSD2)		**Source: 2G10023-01**		Prepared: 07/13/12 Analyzed: 07/16/12						
Aluminum	120	8.0	µg/L	100	14	106	70-130	1.97	20	
Iron	5300	40	µg/L	5000	14.3	106	70-130	1.16	20	
Zinc	110	10	µg/L	100	ND	107	70-130	1.50	20	

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

Reported:
8/16/12

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0201										
Blank (T2G0201-BLK1)				Prepared: 07/02/12 Analyzed: 07/09/12						
Aldicarb	ND	2.0	µg/L							
Aldicarb sulfone	ND	2.0	µg/L							
Carbaryl	ND	2.0	µg/L							
Carbofuran	ND	2.0	µg/L							
Dioxacarb	ND	2.0	µg/L							
3-Hydroxycarbofuran	ND	2.0	µg/L							
Methiocarb	ND	2.0	µg/L							
Methomyl	ND	2.0	µg/L							
Promecarb	ND	2.0	µg/L							
Propoxur (Baygon)	ND	2.0	µg/L							
LCS (T2G0201-BS1)				Prepared: 07/02/12 Analyzed: 07/09/12						
Aldicarb	8.08	2.0	µg/L	10.1		80.2	80-120		20	
Aldicarb sulfone	9.12	2.0	µg/L	10.0		91.2	80-120		20	
Carbaryl	8.76	2.0	µg/L	10.1		86.9	80-120		20	
Carbofuran	8.86	2.0	µg/L	10.0		88.2	80-120		20	
Dioxacarb	15.5	2.0	µg/L	10.0		155	80-120		20	
3-Hydroxycarbofuran	6.95	2.0	µg/L	10.1		68.9	80-120		20	
Methiocarb	9.37	2.0	µg/L	10.1		93.0	80-120		20	
Methomyl	9.22	2.0	µg/L	10.1		91.5	80-120		20	
Promecarb	8.63	2.0	µg/L	10.0		86.3	80-120		20	
Propoxur (Baygon)	8.80	2.0	µg/L	10.0		87.8	80-120		20	
LCS Dup (T2G0201-BSD1)				Prepared: 07/02/12 Analyzed: 07/09/12						
Aldicarb	8.14	2.0	µg/L	10.1		80.7	80-120	0.699	20	
Aldicarb sulfone	9.09	2.0	µg/L	10.0		90.9	80-120	0.307	20	
Carbaryl	8.77	2.0	µg/L	10.1		87.0	80-120	0.0673	20	
Carbofuran	8.91	2.0	µg/L	10.0		88.7	80-120	0.546	20	
Dioxacarb	16.4	2.0	µg/L	10.0		164	80-120	5.55	20	
3-Hydroxycarbofuran	6.95	2.0	µg/L	10.1		68.9	80-120	0.0216	20	
Methiocarb	9.36	2.0	µg/L	10.1		92.8	80-120	0.155	20	
Methomyl	9.17	2.0	µg/L	10.1		90.9	80-120	0.627	20	
Promecarb	8.55	2.0	µg/L	10.0		85.5	80-120	0.849	20	
Propoxur (Baygon)	8.86	2.0	µg/L	10.0		88.4	80-120	0.653	20	
Matrix Spike (T2G0201-MS1)		**Source: 2F28042-03**		Prepared: 07/02/12 Analyzed: 07/09/12						
Aldicarb	8.04	2.0	µg/L	10.1	ND	79.7	80-120		20	

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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:
8/16/12

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0201										
Matrix Spike (T2G0201-MS1)		**Source: 2F28042-03**		Prepared: 07/02/12 Analyzed: 07/09/12						
Aldicarb sulfone	9.10	2.0	µg/L	10.0	ND	91.0	80-120		20	
Carbaryl	9.02	2.0	µg/L	10.1	ND	89.5	80-120		20	
Carbofuran	9.11	2.0	µg/L	10.0	ND	90.8	80-120		20	
Dioxacarb	16.9	2.0	µg/L	10.0	ND	169	80-120		20	BS3
3-Hydroxycarbofuran	6.58	2.0	µg/L	10.1	ND	65.3	80-120		20	
Methiocarb	9.62	2.0	µg/L	10.1	ND	95.4	80-120		20	
Methomyl	9.46	2.0	µg/L	10.1	ND	93.9	80-120		20	
Promecarb	8.55	2.0	µg/L	10.0	ND	85.5	80-120		20	
Propoxur (Baygon)	8.90	2.0	µg/L	10.0	ND	88.8	80-120		20	
Matrix Spike Dup (T2G0201-MSD1)		**Source: 2F28042-03**		Prepared: 07/02/12 Analyzed: 07/09/12						
Aldicarb	8.01	2.0	µg/L	10.1	ND	79.4	80-120	0.396	20	
Aldicarb sulfone	9.01	2.0	µg/L	10.0	ND	90.1	80-120	0.895	20	
Carbaryl	8.86	2.0	µg/L	10.1	ND	87.9	80-120	1.80	20	
Carbofuran	9.06	2.0	µg/L	10.0	ND	90.2	80-120	0.574	20	
Dioxacarb	16.7	2.0	µg/L	10.0	ND	167	80-120	1.30	20	BS3
3-Hydroxycarbofuran	6.52	2.0	µg/L	10.1	ND	64.7	80-120	0.868	20	
Methiocarb	9.52	2.0	µg/L	10.1	ND	94.5	80-120	1.01	20	
Methomyl	9.22	2.0	µg/L	10.1	ND	91.4	80-120	2.63	20	
Promecarb	8.44	2.0	µg/L	10.0	ND	84.4	80-120	1.35	20	
Propoxur (Baygon)	8.88	2.0	µg/L	10.0	ND	88.6	80-120	0.238	20	
Batch T2G0301										
Blank (T2G0301-BLK1)				Prepared & Analyzed: 07/03/12						
Surrogate: 2-Fluorophenol	*54.3*		*µg/L*	*100*		*54.3*	*22-92*			
Surrogate: Phenol-d5	*42.0*		*µg/L*	*100*		*42.0*	*10-94*			
Surrogate: Nitrobenzene-d5	*38.9*		*µg/L*	*50.0*		*77.8*	*41-110*			
Surrogate: 2-Fluorobiphenyl	*38.4*		*µg/L*	*50.0*		*76.8*	*40-92*			
Surrogate: 2,4,6-Tribromophenol	*105*		*µg/L*	*100*		*105*	*49-138*			
Surrogate: d14-Terphenyl	*55.7*		*µg/L*	*50.0*		*111*	*44-131*			
N-Nitrosodimethylamine	ND	5.0	µg/L							
Phenol	ND	5.0	µg/L							
Bis(2-chloroethyl)ether	ND	5.0	µg/L							
2-Chlorophenol	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							

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

Reported:
8/16/12

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0301										
Blank (T2G0301-BLK1)				Prepared & Analyzed: 07/03/12						
Bis(2-chloroisopropyl)ether	ND	5.0	µg/L							
2-Methylphenol	ND	5.0	µg/L							
Hexachloroethane	ND	5.0	µg/L							
3-Methylphenol	ND	5.0	µg/L							
4-Methylphenol	ND	5.0	µg/L							
N-Nitrosodi-n-propylamine	ND	5.0	µg/L							
Nitrobenzene	ND	5.0	µg/L							
Isophorone	ND	5.0	µg/L							
2-Nitrophenol	ND	5.0	µg/L							
2,4-Dimethylphenol	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	5.0	µg/L							
2,4-Dichlorophenol	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
Naphthalene	ND	5.0	µg/L							
4-Chloroaniline	ND	5.0	µg/L							
Hexachlorobutadiene	ND	5.0	µg/L							
4-Chloro-3-methylphenol	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
Hexachlorocyclopentadiene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	5.0	µg/L							
2,4,6-Trichlorophenol	ND	5.0	µg/L							
2-Chloronaphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	5.0	µg/L							
Dimethyl phthalate	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
2,6-Dinitrotoluene	ND	5.0	µg/L							
3-Nitroaniline	ND	5.0	µg/L							
Acenaphthene	ND	5.0	µg/L							
2,4-Dinitrophenol	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
4-Nitrophenol	ND	5.0	µg/L							
2,4-Dinitrotoluene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Diethyl phthalate	ND	5.0	µg/L							
4-Chlorophenyl phenyl ether	ND	5.0	µg/L							

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Reported:
8/16/12

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0301										
Blank (T2G0301-BLK1)				Prepared & Analyzed: 07/03/12						
4-Nitroaniline	ND	5.0	µg/L							
Diphenylamine	ND	5.0	µg/L							
1,2-Diphenylhydrazine	ND	5.0	µg/L							
Benzidine	ND	5.0	µg/L							
N-Nitrosodiphenylamine	ND	5.0	µg/L							
4,6-Dinitro-2-methylphenol	ND	5.0	µg/L							
4-Bromophenyl phenyl ether	ND	5.0	µg/L							
Hexachlorobenzene	ND	5.0	µg/L							
Pentachlorophenol	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Di-n-butyl phthalate	ND	5.0	µg/L							
Fluoranthene	ND	5.0	µg/L							
Pyrene	ND	5.0	µg/L							
Butyl benzyl phthalate	ND	5.0	µg/L							
Benzo (a) anthracene	ND	5.0	µg/L							
Chrysene	ND	5.0	µg/L							
Bis(2-ethylhexyl) phthalate	ND	5.0	µg/L							
Di-n-octyl phthalate	ND	5.0	µg/L							
Benzo (b) fluoranthene	ND	5.0	µg/L							
Benzo (k) fluoranthene	ND	5.0	µg/L							
Benzo (a) pyrene	ND	5.0	µg/L							
3,3'-Dichlorobenzidine	ND	5.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Dibenzo(a,h)anthracene	ND	5.0	µg/L							
Benzo(ghi)perylene	ND	5.0	µg/L							
LCS (T2G0301-BS1)				Prepared & Analyzed: 07/03/12						
Surrogate: 2-Fluorophenol	*58.1*		*µg/L*	*100*		*58.1*	*22-92*			
Surrogate: Phenol-d5	*41.9*		*µg/L*	*100*		*41.9*	*10-94*			
Surrogate: Nitrobenzene-d5	*39.5*		*µg/L*	*50.0*		*79.0*	*41-110*			
Surrogate: 2-Fluorobiphenyl	*35.2*		*µg/L*	*50.0*		*70.4*	*40-92*			
Surrogate: 2,4,6-Tribromophenol	*103*		*µg/L*	*100*		*103*	*49-138*			
Surrogate: d14-Terphenyl	*54.5*		*µg/L*	*50.0*		*109*	*44-131*			
Phenol	22.7	5.0	µg/L	50.0		45.3	5-112		20	
2-Chlorophenol	42.5	5.0	µg/L	50.0		85.0	23-134		20	
1,4-Dichlorobenzene	14.6	5.0	µg/L	25.0		58.4	20-124		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.

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0301										
LCS (T2G0301-BS1)				Prepared & Analyzed: 07/03/12						
N-Nitrosodi-n-propylamine	22.0	5.0	µg/L	25.0		88.1	5-230		20	
1,2,4-Trichlorobenzene	16.1	5.0	µg/L	25.0		64.4	44-142		20	
4-Chloro-3-methylphenol	45.4	5.0	µg/L	50.0		90.7	22-147		20	
Acenaphthene	20.6	5.0	µg/L	25.0		82.4	47-145		20	
2,4-Dinitrotoluene	23.8	5.0	µg/L	25.0		95.3	39-139		20	
Pyrene	23.8	5.0	µg/L	25.0		95.4	52-115		20	
LCS Dup (T2G0301-BSD1)				Prepared & Analyzed: 07/03/12						
Surrogate: 2-Fluorophenol	*60.9*		*µg/L*	*100*		*60.9*	*22-92*			
Surrogate: Phenol-d5	*44.3*		*µg/L*	*100*		*44.3*	*10-94*			
Surrogate: Nitrobenzene-d5	*40.5*		*µg/L*	*50.0*		*81.0*	*41-110*			
Surrogate: 2-Fluorobiphenyl	*37.1*		*µg/L*	*50.0*		*74.1*	*40-92*			
Surrogate: 2,4,6-Tribromophenol	*110*		*µg/L*	*100*		*110*	*49-138*			
Surrogate: d14-Terphenyl	*56.3*		*µg/L*	*50.0*		*113*	*44-131*			
Phenol	23.7	5.0	µg/L	50.0		47.3	5-112	4.36	20	
2-Chlorophenol	43.7	5.0	µg/L	50.0		87.4	23-134	2.78	20	
1,4-Dichlorobenzene	14.2	5.0	µg/L	25.0		56.9	20-124	2.50	20	
N-Nitrosodi-n-propylamine	22.5	5.0	µg/L	25.0		90.1	5-230	2.20	20	
1,2,4-Trichlorobenzene	16.1	5.0	µg/L	25.0		64.5	44-142	0.0621	20	
4-Chloro-3-methylphenol	46.2	5.0	µg/L	50.0		92.3	22-147	1.77	20	
Acenaphthene	21.2	5.0	µg/L	25.0		84.6	47-145	2.63	20	
2,4-Dinitrotoluene	24.5	5.0	µg/L	25.0		98.0	39-139	2.73	20	
Pyrene	24.5	5.0	µg/L	25.0		97.9	52-115	2.65	20	
Batch T2G0322										
Blank (T2G0322-BLK1)				Prepared: 07/03/12 Analyzed: 07/06/12						
Surrogate: 2,4-Dichlorophenylacetic acid	*4.69*		*µg/L*	*5.00*		*93.8*	*10-150*			
2,4,5-T	ND	0.50	µg/L							
2,4,5-TP (Silvex)	ND	0.50	µg/L							
2,4-D	ND	5.0	µg/L							
2,4-DB	ND	5.0	µg/L							
Dalapon	ND	20	µg/L							
Dicamba	ND	0.50	µg/L							
Dichloroprop	ND	5.0	µg/L							
Dinoseb	ND	2.5	µg/L							
MCPA	ND	30	µg/L							
MCPP	ND	30	µg/L							

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Project: MUN Evaluation
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Project Manager: Calvin Yang

Reported:
8/16/12

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0322										
LCS (T2G0322-BS1)				Prepared: 07/03/12 Analyzed: 07/06/12						
Surrogate: 2,4-Dichlorophenylacetic acid	*6.02*		*µg/L*	*5.00*		*120*	*10-150*			
2,4,5-T	0.0600	0.50	µg/L	0.100		60.0	12-145		20	J
2,4,5-TP (Silvex)	0.0850	0.50	µg/L	0.100		85.0	11-149		20	J
2,4-D	0.905	5.0	µg/L	1.00		90.5	10-161		20	J
2,4-DB	0.995	5.0	µg/L	1.00		99.5	10-191		20	J
Dalapon	0.455	20	µg/L	2.50		18.2	10-167		20	J
Dicamba	0.0750	0.50	µg/L	0.100		75.0	10-144		20	J
Dichloroprop	0.790	5.0	µg/L	1.00		79.0	16-149		20	J
Dinoseb	0.445	2.5	µg/L	0.500		89.0	10-156		20	J
MCPA	91.0	30	µg/L	100		91.0	10-150		20	
MCPP	90.8	30	µg/L	100		90.8	10-150		20	
LCS Dup (T2G0322-BSD1)				Prepared: 07/03/12 Analyzed: 07/06/12						
Surrogate: 2,4-Dichlorophenylacetic acid	*5.80*		*µg/L*	*5.00*		*116*	*10-150*			
2,4,5-T	0.0600	0.50	µg/L	0.100		60.0	12-145	0.00	20	J
2,4,5-TP (Silvex)	0.0800	0.50	µg/L	0.100		80.0	11-149	6.06	20	J
2,4-D	0.880	5.0	µg/L	1.00		88.0	10-161	2.80	20	J
2,4-DB	0.970	5.0	µg/L	1.00		97.0	10-191	2.54	20	J
Dalapon	0.445	20	µg/L	2.50		17.8	10-167	2.22	20	J
Dicamba	0.0750	0.50	µg/L	0.100		75.0	10-144	0.00	20	J
Dichloroprop	0.770	5.0	µg/L	1.00		77.0	16-149	2.56	20	J
Dinoseb	0.440	2.5	µg/L	0.500		88.0	10-156	1.13	20	J
MCPA	88.2	30	µg/L	100		88.2	10-150	3.19	20	
MCPP	87.9	30	µg/L	100		87.9	10-150	3.26	20	
Batch T2G0323										
Blank (T2G0323-BLK1)				Prepared & Analyzed: 07/03/12						
Surrogate: Decachlorobiphenyl (DCB)	*0.614*		*µg/L*	*1.00*		*61.4*	*28.2-144*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.598*		*µg/L*	*1.00*		*59.8*	*34.4-113*			
4,4´-DDD	ND	0.050	µg/L							
4,4´-DDE	ND	0.050	µg/L							
4,4´-DDT	ND	0.050	µg/L							
Aldrin	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-Chlordane	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
Chlordane (tech)	ND	0.10	µg/L							

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8/16/12

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0323										
Blank (T2G0323-BLK1)				Prepared & Analyzed: 07/03/12						
delta-BHC	ND	0.050	µg/L							
Dieldrin	ND	0.050	µg/L							
Endosulfan I	ND	0.050	µg/L							
Trifluralin	ND	0.050	µg/L							
Endosulfan II	ND	0.050	µg/L							
Endosulfan sulfate	ND	0.050	µg/L							
Endrin	ND	0.050	µg/L							
Endrin aldehyde	ND	0.050	µg/L							
Endrin ketone	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor epoxide	ND	0.050	µg/L							
Methoxychlor	ND	0.050	µg/L							
Toxaphene	ND	0.50	µg/L							
LCS (T2G0323-BS1)				Prepared & Analyzed: 07/03/12						
Surrogate: Decachlorobiphenyl (DCB)	*0.614*		*µg/L*	*1.00*		*61.4*	*28.2-144*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.297*		*µg/L*	*1.00*		*29.7*	*34.4-113*			*
Dieldrin	1.36	0.050	µg/L	1.25		109	36-146		20	
Endrin	1.61	0.050	µg/L	1.25		129	30-147		20	
gamma-BHC (Lindane)	1.34	0.050	µg/L	1.25		107	19-140		20	
Heptachlor	0.753	0.050	µg/L	1.25		60.3	34-111		20	
LCS Dup (T2G0323-BSD1)				Prepared: 07/03/12 Analyzed: 07/04/12						
Surrogate: Decachlorobiphenyl (DCB)	*0.634*		*µg/L*	*1.00*		*63.4*	*28.2-144*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.308*		*µg/L*	*1.00*		*30.8*	*34.4-113*			*
Dieldrin	1.41	0.050	µg/L	1.25		113	36-146	3.77	20	
Endrin	1.68	0.050	µg/L	1.25		134	30-147	4.03	20	
gamma-BHC (Lindane)	1.41	0.050	µg/L	1.25		113	19-140	4.75	20	
Heptachlor	0.785	0.050	µg/L	1.25		62.8	34-111	4.09	20	
Batch T2G0324										
Blank (T2G0324-BLK1)				Prepared: 07/03/12 Analyzed: 07/04/12						
Surrogate: Decachlorobiphenyl (DCB)	*0.555*		*µg/L*	*1.00*		*55.5*	*40.7-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.495*		*µg/L*	*1.00*		*49.5*	*24-140*			
PCB-1016	ND	0.50	µg/L							

MOORE TWINING ASSOCIATES, INC.

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Fresno, CA 93721
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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:
8/16/12

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0324										
Blank (T2G0324-BLK1)				Prepared: 07/03/12 Analyzed: 07/04/12						
PCB-1221	ND	0.50	µg/L							
PCB-1232	ND	0.50	µg/L							
PCB-1242	ND	0.50	µg/L							
PCB-1248	ND	0.50	µg/L							
PCB-1254	ND	0.50	µg/L							
PCB-1260	ND	0.50	µg/L							
LCS (T2G0324-BS1)				Prepared: 07/03/12 Analyzed: 07/04/12						
Surrogate: Decachlorobiphenyl (DCB)	*0.730*		*µg/L*	*1.00*		*73.0*	*40.7-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.200*		*µg/L*	*1.00*		*20.0*	*24-140*			*
PCB-1016	0.993	0.50	µg/L	1.50		66.2	50-114		20	
PCB-1260	1.28	0.50	µg/L	1.50		85.0	8-127		20	
LCS Dup (T2G0324-BSD1)				Prepared: 07/03/12 Analyzed: 07/04/12						
Surrogate: Decachlorobiphenyl (DCB)	*0.720*		*µg/L*	*1.00*		*72.0*	*40.7-154*			
Surrogate: Tetrachloro-meta-xylene (TMX)	*0.200*		*µg/L*	*1.00*		*20.0*	*24-140*			*
PCB-1016	0.999	0.50	µg/L	1.50		66.6	50-114	0.602	20	
PCB-1260	1.26	0.50	µg/L	1.50		83.9	8-127	1.26	20	

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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Rancho Cordova CA, 95670-6114

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

Reported:
8/16/12

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0209										
Blank (T2G0209-BLK1)				Prepared & Analyzed: 07/02/12						
Surrogate: 4-Bromofluorobenzene	*23.4*		*µg/L*	*25.0*		*93.7*	*70-130*			
Surrogate: Dibromofluoromethane	*26.0*		*µg/L*	*25.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*23.1*		*µg/L*	*25.0*		*92.3*	*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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Project: MUN Evaluation
Project Number: 10-023-150
Project Manager: Calvin Yang

Reported:
8/16/12

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0209										
Blank (T2G0209-BLK1)				Prepared & Analyzed: 07/02/12						
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 (T2G0209-BS1)				Prepared & Analyzed: 07/02/12						
Surrogate: 4-Bromofluorobenzene	*23.7*		*µg/L*	*25.0*		*94.8*	*70-130*			
Surrogate: Dibromofluoromethane	*25.9*		*µg/L*	*25.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*23.4*		*µg/L*	*25.0*		*93.4*	*70-130*			
1,1-Dichloroethene	24.5	0.50	µg/L	20.0		122	70-130		20	
Benzene	20.4	0.50	µg/L	20.0		102	70-130		20	
Trichloroethene (TCE)	19.6	0.50	µg/L	20.0		98.2	70-130		20	
Toluene	20.4	0.50	µg/L	20.0		102	70-130		20	
Chlorobenzene	17.6	0.50	µg/L	20.0		88.2	70-130		20	

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

Reported:
8/16/12

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2G0209										
LCS Dup (T2G0209-BSD1)				Prepared & Analyzed: 07/02/12						
Surrogate: 4-Bromofluorobenzene	*23.6*		*µg/L*	*25.0*		*94.6*	*70-130*			
Surrogate: Dibromofluoromethane	*25.7*		*µg/L*	*25.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*23.6*		*µg/L*	*25.0*		*94.4*	*70-130*			
1,1-Dichloroethene	22.8	0.50	µg/L	20.0		114	70-130	6.93	20	
Benzene	19.8	0.50	µg/L	20.0		99.1	70-130	3.08	20	
Trichloroethene (TCE)	19.1	0.50	µg/L	20.0		95.6	70-130	2.79	20	
Toluene	19.7	0.50	µg/L	20.0		98.6	70-130	3.14	20	
Chlorobenzene	17.4	0.50	µg/L	20.0		86.8	70-130	1.60	20	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: G2G030468
Client Project/Site: 2F28042
Client Project Description: Dioxins/Furans

For:
Moore Twining Associates, Inc.
2527 Fresno Street
Fresno, CA 93721

Attn: Julio Morales

Authorized for release by:
7/25/2012 5:17:38 PM

Linda C. Laver
Project Manager
linda.laver@testamericainc.com

cc: Lizz Rutherford

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Qualifiers

DIOXIN

Qualifier	Qualifier Description
J	Estimated result. Result is less than the reporting limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

TestAmerica West Sacramento Project Number G2G030468

General Comments

These samples were originally received at 6.8 degrees Celsius with gel packs used as the cooling agent. They were shipped with the chain of custody (coc) included in this report and received on July 3, 2012. Due to the need to perform a second extraction, additional containers were shipped without a coc and received on July 11, 2012. Both copies of the shipping document are included behind the coc.

There are no other anomalies associated with this project.

Detection Summary

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Client Sample ID: AWL120646-32 — Lab Sample ID: G2G030468001

No Detections

Client Sample ID: AWL120646-40 — Lab Sample ID: G2G030468002

Analyte	Result	Qualifier	ML	EDL	Unit	Dil Fac	D	Method	Prep Type
OCDF	0.52	J	28	0.20	ng/L	1.12		8280A	Total

Client Sample ID: AWL120646-07 — Lab Sample ID: G2G030468003

No Detections

Client Sample ID: AWL120646-08 — Lab Sample ID: G2G030468004

No Detections

Client Sample Results

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Client Sample ID: AWL120646-32

Lab Sample ID: G2G030468001

Date Collected: 06/26/12 09:16
Matrix: Water
Date Received: 07/03/12 09:20

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A)

Analyte	Result	Qualifier	ML	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.5	0.12	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
Total TCDD	ND		5.5	3.3	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,7,8-PeCDD	ND		14	0.16	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
Total PeCDD	ND		14	0.25	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,4,7,8-HxCDD	ND		14	0.41	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,6,7,8-HxCDD	ND		14	0.41	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,7,8,9-HxCDD	ND		14	0.41	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
Total HxCDD	ND		14	0.51	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,4,6,7,8-HpCDD	ND		14	0.48	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
Total HpCDD	ND		14	0.57	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
OCDD	ND		28	0.24	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
2,3,7,8-TCDF	ND		5.5	0.10	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
Total TCDF	ND		5.5	0.16	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,7,8-PeCDF	ND		14	0.14	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
2,3,4,7,8-PeCDF	ND		14	0.11	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
Total PeCDF	ND		14	0.24	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,4,7,8-HxCDF	ND		14	0.13	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,6,7,8-HxCDF	ND		14	0.13	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
2,3,4,6,7,8-HxCDF	ND		14	0.11	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,7,8,9-HxCDF	ND		14	0.19	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
Total HxCDF	ND		14	0.30	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,4,6,7,8-HpCDF	ND		14	0.44	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
1,2,3,4,7,8,9-HpCDF	ND		14	0.66	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
Total HpCDF	ND		14	1.0	ng/L		07/06/12 00:00	07/18/12 19:08	1.11
OCDF	ND		28	0.26	ng/L		07/06/12 00:00	07/18/12 19:08	1.11

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*94*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:08*	*1.11*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*34*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:08*	*1.11*
13C-2,3,7,8-TCDF	*39*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:08*	*1.11*
13C-1,2,3,6,7,8-HxCDD	*31*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:08*	*1.11*
13C-1,2,3,4,6,7,8-HpCDF	*32*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:08*	*1.11*
13C-OCDD	*28*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:08*	*1.11*

Client Sample ID: AWL120646-40

Lab Sample ID: G2G030468002

Date Collected: 06/26/12 11:52
Matrix: Water
Date Received: 07/03/12 09:20

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A)

Analyte	Result	Qualifier	ML	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.6	0.20	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
Total TCDD	ND		5.6	3.1	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,7,8-PeCDD	ND		14	0.53	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
Total PeCDD	ND		14	0.54	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,4,7,8-HxCDD	ND		14	0.99	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,6,7,8-HxCDD	ND		14	1.0	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,7,8,9-HxCDD	ND		14	0.98	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
Total HxCDD	ND		14	1.2	ng/L		07/06/12 00:00	07/18/12 19:53	1.12

Client Sample Results

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Client Sample ID: AWL120646-40

Lab Sample ID: G2G030468002

Date Collected: 06/26/12 11:52
Matrix: Water
Date Received: 07/03/12 09:20

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A) (Continued)

Analyte	Result	Qualifier	ML	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	ND		14	0.99	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
Total HpCDD	ND		14	0.99	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
OCDD	ND		28	0.94	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
2,3,7,8-TCDF	ND		5.6	0.18	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
Total TCDF	ND		5.6	0.76	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,7,8-PeCDF	ND		14	0.55	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
2,3,4,7,8-PeCDF	ND		14	0.31	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
Total PeCDF	ND		14	0.60	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,4,7,8-HxCDF	ND		14	0.54	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,6,7,8-HxCDF	ND		14	0.51	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
2,3,4,6,7,8-HxCDF	ND		14	0.79	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,7,8,9-HxCDF	ND		14	0.55	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
Total HxCDF	ND		14	0.82	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,4,6,7,8-HpCDF	ND		14	0.70	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
1,2,3,4,7,8,9-HpCDF	ND		14	0.80	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
Total HpCDF	ND		14	0.92	ng/L		07/06/12 00:00	07/18/12 19:53	1.12
OCDF	**0.52**	**J**	28	0.20	ng/L		07/06/12 00:00	07/18/12 19:53	1.12

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*85*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:53*	*1.12*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*50*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:53*	*1.12*
13C-2,3,7,8-TCDF	*50*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:53*	*1.12*
13C-1,2,3,6,7,8-HxCDD	*52*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:53*	*1.12*
13C-1,2,3,4,6,7,8-HpCDF	*51*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:53*	*1.12*
13C-OCDD	*47*		*25 - 150*	*07/06/12 00:00*	*07/18/12 19:53*	*1.12*

Client Sample ID: AWL120646-07

Lab Sample ID: G2G030468003

Date Collected: 06/26/12 09:16
Matrix: Water
Date Received: 07/03/12 09:20

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A)

Analyte	Result	Qualifier	ML	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.7	0.11	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
Total TCDD	ND		5.7	3.5	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,7,8-PeCDD	ND		14	0.30	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
Total PeCDD	ND		14	0.31	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,4,7,8-HxCDD	ND		14	0.43	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,6,7,8-HxCDD	ND		14	0.46	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,7,8,9-HxCDD	ND		14	0.49	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
Total HxCDD	ND		14	0.62	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,4,6,7,8-HpCDD	ND		14	0.41	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
Total HpCDD	ND		14	0.70	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
OCDD	ND		28	0.37	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
2,3,7,8-TCDF	ND		5.7	0.11	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
Total TCDF	ND		5.7	0.82	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,7,8-PeCDF	ND		14	0.12	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
2,3,4,7,8-PeCDF	ND		14	0.19	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
Total PeCDF	ND		14	0.24	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,4,7,8-HxCDF	ND		14	0.19	ng/L		07/06/12 00:00	07/18/12 20:38	1.13

Client Sample Results

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Client Sample ID: AWL120646-07

Lab Sample ID: G2G030468003

Date Collected: 06/26/12 09:16

Matrix: Water

Date Received: 07/03/12 09:20

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A) (Continued)

Analyte	Result	Qualifier	ML	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDF	ND		14	0.19	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
2,3,4,6,7,8-HxCDF	ND		14	0.30	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,7,8,9-HxCDF	ND		14	0.23	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
Total HxCDF	ND		14	0.32	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,4,6,7,8-HpCDF	ND		14	0.30	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
1,2,3,4,7,8,9-HpCDF	ND		14	0.67	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
Total HpCDF	ND		14	0.84	ng/L		07/06/12 00:00	07/18/12 20:38	1.13
OCDF	ND		28	0.52	ng/L		07/06/12 00:00	07/18/12 20:38	1.13

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*83*		*25 - 150*	*07/06/12 00:00*	*07/18/12 20:38*	*1.13*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*42*		*25 - 150*	*07/06/12 00:00*	*07/18/12 20:38*	*1.13*
13C-2,3,7,8-TCDF	*47*		*25 - 150*	*07/06/12 00:00*	*07/18/12 20:38*	*1.13*
13C-1,2,3,6,7,8-HxCDD	*42*		*25 - 150*	*07/06/12 00:00*	*07/18/12 20:38*	*1.13*
13C-1,2,3,4,6,7,8-HpCDF	*42*		*25 - 150*	*07/06/12 00:00*	*07/18/12 20:38*	*1.13*
13C-OCDD	*38*		*25 - 150*	*07/06/12 00:00*	*07/18/12 20:38*	*1.13*

Client Sample ID: AWL120646-08

Lab Sample ID: G2G030468004

Date Collected: 06/26/12 05:00

Matrix: Water

Date Received: 07/03/12 09:20

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A)

Analyte	Result	Qualifier	ML	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.7	0.084	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
Total TCDD	ND		5.7	3.1	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,7,8-PeCDD	ND		14	0.097	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
Total PeCDD	ND		14	0.16	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,4,7,8-HxCDD	ND		14	0.14	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,6,7,8-HxCDD	ND		14	0.13	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,7,8,9-HxCDD	ND		14	0.11	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
Total HxCDD	ND		14	0.22	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,4,6,7,8-HpCDD	ND		14	0.37	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
Total HpCDD	ND		14	0.42	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
OCDD	ND		28	0.14	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
2,3,7,8-TCDF	ND		5.7	0.072	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
Total TCDF	ND		5.7	0.57	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,7,8-PeCDF	ND		14	0.12	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
2,3,4,7,8-PeCDF	ND		14	0.069	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
Total PeCDF	ND		14	0.16	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,4,7,8-HxCDF	ND		14	0.074	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,6,7,8-HxCDF	ND		14	0.063	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
2,3,4,6,7,8-HxCDF	ND		14	0.089	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,7,8,9-HxCDF	ND		14	0.065	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
Total HxCDF	ND		14	0.11	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,4,6,7,8-HpCDF	ND		14	0.16	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
1,2,3,4,7,8,9-HpCDF	ND		14	0.34	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
Total HpCDF	ND		14	0.48	ng/L		07/06/12 00:00	07/18/12 21:23	1.13
OCDF	ND		28	0.21	ng/L		07/06/12 00:00	07/18/12 21:23	1.13

Client Sample Results

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Client Sample ID: AWL120646-08

Lab Sample ID: G2G030468004

Date Collected: 06/26/12 05:00

Matrix: Water

Date Received: 07/03/12 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	78		25 - 150	07/06/12 00:00	07/18/12 21:23	1.13

Internal Standard	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	56		25 - 150	07/06/12 00:00	07/18/12 21:23	1.13
13C-2,3,7,8-TCDF	57		25 - 150	07/06/12 00:00	07/18/12 21:23	1.13
13C-1,2,3,6,7,8-HxCDD	61		25 - 150	07/06/12 00:00	07/18/12 21:23	1.13
13C-1,2,3,4,6,7,8-HpCDF	62		25 - 150	07/06/12 00:00	07/18/12 21:23	1.13
13C-OCDD	59		25 - 150	07/06/12 00:00	07/18/12 21:23	1.13

Surrogate Summary

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A)

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**37TCDD (25-150)**							
G2G030468001	AWL120646-32	94							
G2G030468002	AWL120646-40	85							
G2G030468003	AWL120646-07	83							
G2G030468004	AWL120646-08	78							
G2G060000036B	Method Blank	88							
G2G060000036C	Lab Control Sample	89							

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Internal Standards Summary

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A)

Matrix: Water **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)				
		TCDD	TCDF	,2,3,6,7,8-H	2,3,4,6,7,8-I	13C-OCDD
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
G2G030468001	AWL120646-32	34	39	31	32	28
G2G030468002	AWL120646-40	50	50	52	51	47
G2G030468003	AWL120646-07	42	47	42	42	38
G2G030468004	AWL120646-08	56	57	61	62	59
G2G060000036B	Method Blank	74	73	78	77	67
G2G060000036C	Lab Control Sample	67	64	71	72	72

Internal Standard Legend

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

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

13C-1,2,3,6,7,8-HxCDD = 13C-1,2,3,6,7,8-HxCDD

13C-1,2,3,4,6,7,8-HpCDF = 13C-1,2,3,4,6,7,8-HpCDF

13C-OCDD = 13C-OCDD

QC Sample Results

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A)

Lab Sample ID: G2G060000036B
Matrix: Water
Analysis Batch: 2188036

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2188036_P

Analyte	MB Result	MB Qualifier	ML	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	0.064	ng/L		07/06/12 00:00	07/18/12 16:08	1
Total TCDD	ND		5.0	2.5	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,7,8-PeCDD	ND		12	0.055	ng/L		07/06/12 00:00	07/18/12 16:08	1
Total PeCDD	ND		12	0.067	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,4,7,8-HxCDD	ND		12	0.084	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,6,7,8-HxCDD	ND		12	0.090	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,7,8,9-HxCDD	ND		12	0.084	ng/L		07/06/12 00:00	07/18/12 16:08	1
Total HxCDD	ND		12	0.11	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,4,6,7,8-HpCDD	ND		12	0.13	ng/L		07/06/12 00:00	07/18/12 16:08	1
Total HpCDD	ND		12	0.34	ng/L		07/06/12 00:00	07/18/12 16:08	1
OCDD	ND		25	0.062	ng/L		07/06/12 00:00	07/18/12 16:08	1
2,3,7,8-TCDF	ND		5.0	0.037	ng/L		07/06/12 00:00	07/18/12 16:08	1
Total TCDF	ND		5.0	0.054	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,7,8-PeCDF	ND		12	0.044	ng/L		07/06/12 00:00	07/18/12 16:08	1
2,3,4,7,8-PeCDF	ND		12	0.034	ng/L		07/06/12 00:00	07/18/12 16:08	1
Total PeCDF	ND		12	0.055	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,4,7,8-HxCDF	ND		12	0.051	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,6,7,8-HxCDF	ND		12	0.046	ng/L		07/06/12 00:00	07/18/12 16:08	1
2,3,4,6,7,8-HxCDF	ND		12	0.042	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,7,8,9-HxCDF	ND		12	0.046	ng/L		07/06/12 00:00	07/18/12 16:08	1
Total HxCDF	ND		12	0.063	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,4,6,7,8-HpCDF	ND		12	0.063	ng/L		07/06/12 00:00	07/18/12 16:08	1
1,2,3,4,7,8,9-HpCDF	ND		12	0.15	ng/L		07/06/12 00:00	07/18/12 16:08	1
Total HpCDF	ND		12	0.20	ng/L		07/06/12 00:00	07/18/12 16:08	1
OCDF	ND		25	0.12	ng/L		07/06/12 00:00	07/18/12 16:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*88*		*25 - 150*	*07/06/12 00:00*	*07/18/12 16:08*	*1*

Internal Standard	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*74*		*25 - 150*	*07/06/12 00:00*	*07/18/12 16:08*	*1*
13C-2,3,7,8-TCDF	*73*		*25 - 150*	*07/06/12 00:00*	*07/18/12 16:08*	*1*
13C-1,2,3,6,7,8-HxCDD	*78*		*25 - 150*	*07/06/12 00:00*	*07/18/12 16:08*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*77*		*25 - 150*	*07/06/12 00:00*	*07/18/12 16:08*	*1*
13C-OCDD	*67*		*25 - 150*	*07/06/12 00:00*	*07/18/12 16:08*	*1*

Lab Sample ID: G2G060000036C
Matrix: Water
Analysis Batch: 2188036

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2188036_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	25.0	24.6		ng/L		98	66 - 126
1,2,3,7,8-PeCDD	62.5	64.5		ng/L		103	67 - 127
1,2,3,4,7,8-HxCDD	62.5	64.2		ng/L		103	60 - 120
1,2,3,6,7,8-HxCDD	62.5	61.5		ng/L		98	64 - 125
1,2,3,7,8,9-HxCDD	62.5	60.9		ng/L		98	64 - 126
1,2,3,4,6,7,8-HpCDD	62.5	65.7		ng/L		105	63 - 124
OCDD	125	125		ng/L		100	64 - 124
2,3,7,8-TCDF	25.0	24.9		ng/L		100	65 - 125

Method: 8280A - Dioxins/Furans, HRGC/LRMS (8280A) (Continued)

Lab Sample ID: G2G060000036C
Matrix: Water
Analysis Batch: 2188036

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2188036_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,7,8-PeCDF	62.5	65.5		ng/L		105	66 - 126
2,3,4,7,8-PeCDF	62.5	65.7		ng/L		105	51 - 133
1,2,3,4,7,8-HxCDF	62.5	62.2		ng/L		99	51 - 137
1,2,3,6,7,8-HxCDF	62.5	59.8		ng/L		96	53 - 144
2,3,4,6,7,8-HxCDF	62.5	63.1		ng/L		101	50 - 148
1,2,3,7,8,9-HxCDF	62.5	60.3		ng/L		97	47 - 153
1,2,3,4,6,7,8-HpCDF	62.5	62.4		ng/L		100	65 - 127
1,2,3,4,7,8,9-HpCDF	62.5	65.5		ng/L		105	51 - 148
OCDF	125	126		ng/L		101	64 - 124

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*89*		*25 - 150*

Internal Standard	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*67*		*25 - 150*
13C-2,3,7,8-TCDF	*64*		*25 - 150*
13C-1,2,3,6,7,8-HxCDD	*71*		*25 - 150*
13C-1,2,3,4,6,7,8-HpCDF	*72*		*25 - 150*
13C-OCDD	*72*		*25 - 150*

QC Association Summary

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Specialty Organics

Analysis Batch: 2188036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2G030468001	AWL120646-32	Total	Water	8280A	
G2G030468002	AWL120646-40	Total	Water	8280A	
G2G030468003	AWL120646-07	Total	Water	8280A	
G2G030468004	AWL120646-08	Total	Water	8280A	
G2G060000036B	Method Blank	Total	Water	8280A	
G2G060000036C	Lab Control Sample	Total	Water	8280A	

Prep Batch: 2188036_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2G030468001	AWL120646-32	Total	Water	8280A	
G2G030468002	AWL120646-40	Total	Water	8280A	
G2G030468003	AWL120646-07	Total	Water	8280A	
G2G030468004	AWL120646-08	Total	Water	8280A	
G2G060000036B	Method Blank	Total	Water	8280A	
G2G060000036C	Lab Control Sample	Total	Water	8280A	

Lab Chronicle

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Client Sample ID: AWL120646-32 — Lab Sample ID: G2G030468001

Date Collected: 06/26/12 09:16 — **Matrix: Water**
Date Received: 07/03/12 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	8280A			2188036_P	07/06/12 00:00		TAL WSC
Total	Analysis	8280A		1.11	2188036	07/18/12 19:08	MO	TAL WSC

Client Sample ID: AWL120646-40 — Lab Sample ID: G2G030468002

Date Collected: 06/26/12 11:52 — **Matrix: Water**
Date Received: 07/03/12 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	8280A			2188036_P	07/06/12 00:00		TAL WSC
Total	Analysis	8280A		1.12	2188036	07/18/12 19:53	MO	TAL WSC

Client Sample ID: AWL120646-07 — Lab Sample ID: G2G030468003

Date Collected: 06/26/12 09:16 — **Matrix: Water**
Date Received: 07/03/12 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	8280A			2188036_P	07/06/12 00:00		TAL WSC
Total	Analysis	8280A		1.13	2188036	07/18/12 20:38	MO	TAL WSC

Client Sample ID: AWL120646-08 — Lab Sample ID: G2G030468004

Date Collected: 06/26/12 05:00 — **Matrix: Water**
Date Received: 07/03/12 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	8280A			2188036_P	07/06/12 00:00		TAL WSC
Total	Analysis	8280A		1.13	2188036	07/18/12 21:23	MO	TAL WSC

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Laboratory: TestAmerica West Sacramento

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-12
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAC	9	1119CA	01-31-13
Colorado	State Program	8	N/A	08-31-12
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAC	4	E87570	06-30-13
Georgia	State Program	4	960	06-30-12
Guam	State Program	9	N/A	08-31-12
Hawaii	State Program	9	N/A	01-31-13
Illinois	NELAC	5	200060	03-17-13
Kansas	NELAC	7	E-10375	10-31-12
Louisiana	NELAC	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-13
Nevada	State Program	9	CA44	07-30-12
New Jersey	NELAC	2	CA005	06-30-13
New Mexico	State Program	6	N/A	06-30-12
New York	NELAC	2	11666	04-01-13
Northern Mariana Islands	State Program	9	MP0007	01-31-13
Oregon	NELAC	10	CA200005	03-28-13
Pennsylvania	NELAC	3	68-01272	03-31-13
South Carolina	State Program	4	87014	06-30-13
Texas	NELAC	6	T104704399-08-TX	05-31-13
US Fish & Wildlife	Federal		LE148388-0	02-28-13
USDA	Federal		P330-11-00436	12-30-14
Utah	NELAC	8	QUAN1	01-31-13
Washington	State Program	10	C581	05-05-13
West Virginia	State Program	3	9930C	12-31-12
West Virginia DEP	State Program	3	334	07-31-12
Wisconsin	State Program	5	998204680	08-31-12
Wyoming	State Program	8	8TMS-Q	01-31-13

Method Summary

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Method	Method Description	Protocol	Laboratory
8280A	Dioxins/Furans, HRGC/LRMS (8280A)	SW846	TAL WSC

Protocol References:

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

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Moore Twining Associates, Inc.
Project/Site: 2F28042

TestAmerica Job ID: G2G030468

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
G2G030468001	AWL120646-32	Water	06/26/12 09:16	07/03/12 09:20
G2G030468002	AWL120646-40	Water	06/26/12 11:52	07/03/12 09:20
G2G030468003	AWL120646-07	Water	06/26/12 09:16	07/03/12 09:20
G2G030468004	AWL120646-08	Water	06/26/12 05:00	07/03/12 09:20

626030468

MOORE TWINING **SUBCONTRACT ORDER - Purchase Order # 15144**

California ELAP Certification # 1371

MTA Project # 2F28042

Please reference these numbers on all reports and invoices:

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:

TestAmerica - West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone :(916) 373-5600
Fax: (916) 921-0100

Sample Comments

Client Sample ID#: AWL120626-32

MTA Sample ID: 2F28042-03 Matrix: Water **Sampled: 06/26/12 09:16** **Report Due to Client: 07/13/12**

Requested Analysis: Dioxin (WW-Low Res) by 8280 (Sub) Holding time expires: 07/26/12 09:16

Containers Supplied.

1L Amber Glass
Unpreserved (J)

Client Sample ID#: AWL120626-40

MTA Sample ID: 2F28042-08 Matrix: Water **Sampled: 06/26/12 11:52** **Report Due to Client: 07/13/12**

Requested Analysis: Dioxin (WW-Low Res) by 8280 (Sub) Holding time expires: 07/26/12 11:52

Containers Supplied:

1L Amber Glass
Unpreserved (J)

Client Sample ID#: AWL120626-07

MTA Sample ID: 2F28042-14 Matrix: Water **Sampled: 06/26/12 09:16** **Report Due to Client: 07/13/12**

Requested Analysis: Dioxin (WW-Low Res) by 8280 (Sub) Holding time expires: 07/26/12 09:16

Containers Supplied

1L Amber Glass
Unpreserved (J)

Client Sample ID#: AWL120626-08

MTA Sample ID: 2F28042-15 Matrix: Water **Sampled: 06/26/12 05:00** **Report Due to Client: 07/13/12**

Requested Analysis. Dioxin (WW-Low Res) by 8280 (Sub) Holding time expires: 07/26/12 05:00

Containers Supplied:

1L Amber Glass
Unpreserved (J)

Released By	Date	Received By	Date
[signature]	07/02/12	RYAN HRABAK	7/3/12 1155 6.8°C

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT MOORE TWINING PM LL

LOT# (QUANTIMS ID) G2G030468 QUOTE# 33921 LOCATION W6B

Checked (✓)

DATE RECEIVED 7/3/12 TIME RECEIVED 920 ☑

DELIVERED BY ☐ FEDEX ☐ ON TRAC ☐ OTHER

☑ GOLDENSTATE ☐ UPS ☐ EZ PARCEL

☐ TAL COURIER ☐ TAL SF ☐ CLIENT ☑

SHIPPPING CONTAINER(S) ☐ TAL ☐ CLIENT ☑ N/A

MULIT-COOLER(S) (If checked see multi-cooler form) ☐

SINGLE COOLER INFORMATION N/A

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☑ N/A ☐ ☑

CUSTODY SEAL #(S) NA

COC #(S) 2F28042 ☐ ☑

TEMPERATURE BLANK Observed: NA Corrected: NA

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 8.4, 9.8, 8.1 Average 8.8 Corrected Average 6.8

LABORATORY THERMOMETER ID:

IR UNIT: #4 ☐ #5 ☑ ☐ OTHER ☐ ☑

	Initials	Date
	JS	7/3/12

==========

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑

LABELED BY..... JS ☑

LOGGED IN BY..... JS ☑

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING ☑

WETCHEM ☑ N/A ☑

VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☑

☑ CLOUSEAU ☑ TEMPERATURE EXCEEDED (0 °C – 6 °C)*1 ☑ N/A

☐ WET ICE ☐ BLUE ICE ☑ GEL PACK ☐ NO COOLING AGENTS USED

	Initials	Date
	JS	7/3/12

Notes Received back up 1L AGB for each sample 7/11/12 at 5.3'C without coc. CH 7/11/12

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G2G030468

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
VOAmeoh																				
AGB	1	1	1	1																
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
125AGJmeoh																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 10/09 RKE, Page 2

GSO GOLDEN STATE OVERNIGHT

WebShip

800-322-5555 www.gso.com

Ship From:
MARIA CRUZ
MOORE TWINING ASSOCIATES,INC
2527 FRESNO STREET
FRESNO, CA 93721

Ship To:
SAMPLE RECIEVING
TEST AMERICA
880 RIVERSIDE PARKWAY
WEST SACRAMENTO, CA 95605

COD:
$0.00

Reference:
61-745

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 519458793

PDS

SMF **C**

WEST SACRAMENTO

D95691A

2627632

Print Date : 07/02/12 13:49 PM

Package 1 of 2

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

7-11-12
5:3

GSO

< WebShip > > > > >

800-322-5555 www.gso.com

Ship From:
MARIA CRUZ
MOORE TWINING ASSOCIATES,INC
2527 FRESNO STREET
FRESNO, CA 93721

Ship To:
SAMPLE RECIEVING
TEST AMERICA
880 RIVERSIDE PARKWAY
WEST SACRAMENTO, CA 95605

COD:
$0.00

Reference:

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 519512809

PDS

SMF

C

WEST SACRAMENTO

D95691A

2832611

Print Date : 07/10/12 16:06 PM

Package 1 of 1

Send Label To Printer | ☑ Print All | Edit Shipment | Finish

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
STEP 2 - Fold this page in half.
STEP 3 - Securely attach this label to your package, do not cover the barcode.
STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section.
Our liability for loss or damage to any package is limited to your actual damages or $100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is $500. For other shipments the highest declared value is $10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is $500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

Additional container shipped and were received on 07-11-12
(Back up)

Date of Report: 08/10/2012

Julio Morales

Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Project: Water Samples
BC Work Order: 1212022
Invoice ID: B125933

Enclosed are the results of analyses for samples received by the laboratory on 7/3/2012. 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 # 15143**

California ELAP Certification # 1371 #12-12022 **MTA Project # 2F28042**

Please reference these numbers on all reports and invoices:
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#: AWL120626-32 -1
MTA Sample ID: 2F28042-03 Matrix: Water Sampled: 06/26/12 09:16 **Report Due to Client: 07/13/12**
Requested Analysis: 8141A (Sub) Holding time expires: 07/03/12 09:16
Containers Supplied:
1L Amber Glass
Unpreserved (K)

Client Sample ID#: AWL120626-40 -2
MTA Sample ID: 2F28042-08 Matrix: Water Sampled: 06/26/12 11:52 **Report Due to Client: 07/13/12**
Requested Analysis: 8141A (Sub) Holding time expires: 07/03/12 11:52
Containers Supplied:
1L Amber Glass
Unpreserved (K)

Client Sample ID#: AWL120626-40 -3
MTA Sample ID: 2F28042-14 Matrix: Water Sampled: 06/26/12 09:16 **Report Due to Client: 07/13/12**
Requested Analysis: 8141A (Sub) Holding time expires: 07/03/12 09:16
Containers Supplied:
1L Amber Glass
Unpreserved (K)

Client Sample ID#: AWL120626-08 -4
MTA Sample ID: 2F28042-15 Matrix: Water Sampled: 06/26/12 05:00 **Report Due to Client: 07/13/12**
Requested Analysis: 8141A (Sub) Holding time expires: 07/03/12 05:00
Containers Supplied:
1L Amber Glass
Unpreserved (K)

CHK BY DISTRIBUTION
SUB-OUT

Released By	Date	Received By	Date
[signature]	07/02/12	[signature]	7/3/12 10:15
Released By	Date	Received By	Date

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

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Chain of Custody and Cooler Receipt Form for 1212022 Page 2 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 2

Submission #: 12-12022

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: Amber Thermometer ID: 177
Temperature: (A) 11.3 °C / (C) 11.1 °C 7/3/12
Date/Time 7/3/12
Analyst Init MAM 10:15

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
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~~ 8141	A	A	~~A~~	A BLT 7/3						
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										

Comments: -3 description read 'AWL120626-07'.
Sample Numbering Completed By: BLT Date/Time: 7/3/12 @ 1035
A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1212022 Page 3 of 3

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 12 12/30/10 Page 2 Of 2

Submission #: 12-12022

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

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: Amber Thermometer ID: 177 Date/Time 7/3/12

Temperature: (A) 5.2 °C / (C) 5.0 °C Analyst Init MAM 10:15

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
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 8141			A	A						
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										

omments:
ample Numbering Completed By: BLT Date/Time: 7/3/12@
= Actual / C = Corrected

[C:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC2]

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 08/10/2012 16:11
Project: Water Samples
Project Number: 2F28042
Project Manager: Julio Morales

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1212022-01	**COC Number:**	---	**Receive Date:**	07/03/2012 10:15
	Project Number:	---	**Sampling Date:**	06/26/2012 09:16
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120626-32 2F28042-03	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1212022-02	**COC Number:**	---	**Receive Date:**	07/03/2012 10:15
	Project Number:	---	**Sampling Date:**	06/26/2012 11:52
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120626-40 2F28042-08	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1212022-03	**COC Number:**	---	**Receive Date:**	07/03/2012 10:15
	Project Number:	---	**Sampling Date:**	06/26/2012 09:16
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120626-40 2F28042-14	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1212022-04	**COC Number:**	---	**Receive Date:**	07/03/2012 10:15
	Project Number:	---	**Sampling Date:**	06/26/2012 05:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	AWL120626-08 2F28042-15	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 08/10/2012 16:11
Project: Water Samples
Project Number: 2F28042
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

BCL Sample ID: 1212022-01 | **Client Sample Name:** AWL120626-32 2F28042-03, 6/26/2012 9:16:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Atrazine	ND	ug/L	0.50	0.38	EPA-8141	ND		1
Azinphos methyl	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Bolstar	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Chlorpyrifos	ND	ug/L	0.20	0.024	EPA-8141	ND		1
Coumaphos	ND	ug/L	0.20	0.054	EPA-8141	ND		1
Demeton O/S	ND	ug/L	0.20	0.026	EPA-8141	ND		1
Diazinon	ND	ug/L	0.20	0.044	EPA-8141	ND		1
Dichlorvos	ND	ug/L	0.20	0.070	EPA-8141	ND		1
Disulfoton	ND	ug/L	0.50	0.039	EPA-8141	ND		1
Ethoprop	ND	ug/L	0.20	0.025	EPA-8141	ND		1
Fensulfothion	ND	ug/L	0.20	0.088	EPA-8141	ND		1
Fenthion	ND	ug/L	0.20	0.033	EPA-8141	ND		1
Merphos	ND	ug/L	0.20	0.058	EPA-8141	ND		1
Methyl parathion	ND	ug/L	0.20	0.074	EPA-8141	ND		1
Mevinphos	ND	ug/L	0.20	0.053	EPA-8141	ND		1
Naled	ND	ug/L	0.20	0.072	EPA-8141	ND		1
Phorate	ND	ug/L	0.20	0.041	EPA-8141	ND		1
Ronnel (Fenchlorphos)	ND	ug/L	0.20	0.067	EPA-8141	ND		1
Simazine	ND	ug/L	0.50	0.10	EPA-8141	ND		1
Stirophos (Tetrachlorvinphos)	ND	ug/L	0.20	0.046	EPA-8141	ND		1
Tokuthion (Prothiofos)	ND	ug/L	0.20	0.032	EPA-8141	ND		1
Trichloronate	ND	ug/L	0.20	0.038	EPA-8141	ND		1
Triphenylphosphate (Surrogate)	36.3	%	50 - 140 (LCL - UCL)		EPA-8141		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8141	07/03/12	08/09/12 09:52	VH1	GC-7	1	BVG0863

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 08/10/2012 16:11
Project: Water Samples
Project Number: 2F28042
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

BCL Sample ID: 1212022-02 | **Client Sample Name:** AWL120626-40 2F28042-08, 6/26/2012 11:52:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Atrazine	ND	ug/L	0.50	0.38	EPA-8141	ND		1
Azinphos methyl	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Bolstar	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Chlorpyrifos	ND	ug/L	0.20	0.024	EPA-8141	ND		1
Coumaphos	ND	ug/L	0.20	0.054	EPA-8141	ND		1
Demeton O/S	ND	ug/L	0.20	0.026	EPA-8141	ND		1
Diazinon	ND	ug/L	0.20	0.044	EPA-8141	ND		1
Dichlorvos	ND	ug/L	0.20	0.070	EPA-8141	ND		1
Disulfoton	ND	ug/L	0.50	0.039	EPA-8141	ND		1
Ethoprop	ND	ug/L	0.20	0.025	EPA-8141	ND		1
Fensulfothion	ND	ug/L	0.20	0.088	EPA-8141	ND		1
Fenthion	ND	ug/L	0.20	0.033	EPA-8141	ND		1
Merphos	ND	ug/L	0.20	0.058	EPA-8141	ND		1
Methyl parathion	ND	ug/L	0.20	0.074	EPA-8141	ND		1
Mevinphos	ND	ug/L	0.20	0.053	EPA-8141	ND		1
Naled	ND	ug/L	0.20	0.072	EPA-8141	ND		1
Phorate	ND	ug/L	0.20	0.041	EPA-8141	ND		1
Ronnel (Fenchlorphos)	ND	ug/L	0.20	0.067	EPA-8141	ND		1
Simazine	ND	ug/L	0.50	0.10	EPA-8141	ND		1
Stirophos (Tetrachlorvinphos)	ND	ug/L	0.20	0.046	EPA-8141	ND		1
Tokuthion (Prothiofos)	ND	ug/L	0.20	0.032	EPA-8141	ND		1
Trichloronate	ND	ug/L	0.20	0.038	EPA-8141	ND		1
Triphenylphosphate (Surrogate)	84.0	%	50 - 140 (LCL - UCL)		EPA-8141			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8141	07/03/12	08/09/12 10:14	VH1	GC-7	1	BVG0863

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 08/10/2012 16:11
Project: Water Samples
Project Number: 2F28042
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

BCL Sample ID: 1212022-03 | **Client Sample Name:** AWL120626-40 2F28042-14, 6/26/2012 9:16:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Atrazine	ND	ug/L	0.50	0.38	EPA-8141	ND		1
Azinphos methyl	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Bolstar	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Chlorpyrifos	ND	ug/L	0.20	0.024	EPA-8141	ND		1
Coumaphos	ND	ug/L	0.20	0.054	EPA-8141	ND		1
Demeton O/S	ND	ug/L	0.20	0.026	EPA-8141	ND		1
Diazinon	ND	ug/L	0.20	0.044	EPA-8141	ND		1
Dichlorvos	ND	ug/L	0.20	0.070	EPA-8141	ND		1
Disulfoton	ND	ug/L	0.50	0.039	EPA-8141	ND		1
Ethoprop	ND	ug/L	0.20	0.025	EPA-8141	ND		1
Fensulfothion	ND	ug/L	0.20	0.088	EPA-8141	ND		1
Fenthion	ND	ug/L	0.20	0.033	EPA-8141	ND		1
Merphos	ND	ug/L	0.20	0.058	EPA-8141	ND		1
Methyl parathion	ND	ug/L	0.20	0.074	EPA-8141	ND		1
Mevinphos	ND	ug/L	0.20	0.053	EPA-8141	ND		1
Naled	ND	ug/L	0.20	0.072	EPA-8141	ND		1
Phorate	ND	ug/L	0.20	0.041	EPA-8141	ND		1
Ronnel (Fenchlorphos)	ND	ug/L	0.20	0.067	EPA-8141	ND		1
Simazine	ND	ug/L	0.50	0.10	EPA-8141	ND		1
Stirophos (Tetrachlorvinphos)	ND	ug/L	0.20	0.046	EPA-8141	ND		1
Tokuthion (Prothiofos)	ND	ug/L	0.20	0.032	EPA-8141	ND		1
Trichloronate	ND	ug/L	0.20	0.038	EPA-8141	ND		1
Triphenylphosphate (Surrogate)	45.5	%	50 - 140 (LCL - UCL)		EPA-8141		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8141	07/03/12	08/09/12 10:37	VH1	GC-7	1	BVG0863

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 08/10/2012 16:11
Project: Water Samples
Project Number: 2F28042
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

BCL Sample ID: 1212022-04 | **Client Sample Name:** AWL120626-08 2F28042-15, 6/26/2012 5:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Atrazine	ND	ug/L	0.50	0.38	EPA-8141	ND		1
Azinphos methyl	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Bolstar	ND	ug/L	0.20	0.055	EPA-8141	ND		1
Chlorpyrifos	ND	ug/L	0.20	0.024	EPA-8141	ND		1
Coumaphos	ND	ug/L	0.20	0.054	EPA-8141	ND		1
Demeton O/S	ND	ug/L	0.20	0.026	EPA-8141	ND		1
Diazinon	ND	ug/L	0.20	0.044	EPA-8141	ND		1
Dichlorvos	ND	ug/L	0.20	0.070	EPA-8141	ND		1
Disulfoton	ND	ug/L	0.50	0.039	EPA-8141	ND		1
Ethoprop	ND	ug/L	0.20	0.025	EPA-8141	ND		1
Fensulfothion	ND	ug/L	0.20	0.088	EPA-8141	ND		1
Fenthion	ND	ug/L	0.20	0.033	EPA-8141	ND		1
Merphos	ND	ug/L	0.20	0.058	EPA-8141	ND		1
Methyl parathion	ND	ug/L	0.20	0.074	EPA-8141	ND		1
Mevinphos	ND	ug/L	0.20	0.053	EPA-8141	ND		1
Naled	ND	ug/L	0.20	0.072	EPA-8141	ND		1
Phorate	ND	ug/L	0.20	0.041	EPA-8141	ND		1
Ronnel (Fenchlorphos)	ND	ug/L	0.20	0.067	EPA-8141	ND		1
Simazine	ND	ug/L	0.50	0.10	EPA-8141	ND		1
Stirophos (Tetrachlorvinphos)	ND	ug/L	0.20	0.046	EPA-8141	ND		1
Tokuthion (Prothiofos)	ND	ug/L	0.20	0.032	EPA-8141	ND		1
Trichloronate	ND	ug/L	0.20	0.038	EPA-8141	ND		1
Triphenylphosphate (Surrogate)	77.3	%	50 - 140 (LCL - UCL)		EPA-8141			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8141	07/03/12	08/09/12 10:59	VH1	GC-7	1	BVG0863

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 08/10/2012 16:11
Project: Water Samples
Project Number: 2F28042
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVG0863						
Atrazine	BVG0863-BLK1	ND	ug/L	0.50	0.38	
Azinphos methyl	BVG0863-BLK1	ND	ug/L	0.20	0.055	
Bolstar	BVG0863-BLK1	ND	ug/L	0.20	0.055	
Chlorpyrifos	BVG0863-BLK1	ND	ug/L	0.20	0.024	
Coumaphos	BVG0863-BLK1	ND	ug/L	0.20	0.054	
Demeton O/S	BVG0863-BLK1	ND	ug/L	0.20	0.026	
Diazinon	BVG0863-BLK1	ND	ug/L	0.20	0.044	
Dichlorvos	BVG0863-BLK1	ND	ug/L	0.20	0.070	
Disulfoton	BVG0863-BLK1	ND	ug/L	0.50	0.039	
Ethoprop	BVG0863-BLK1	ND	ug/L	0.20	0.025	
Fensulfothion	BVG0863-BLK1	ND	ug/L	0.20	0.088	
Fenthion	BVG0863-BLK1	ND	ug/L	0.20	0.033	
Merphos	BVG0863-BLK1	ND	ug/L	0.20	0.058	
Methyl parathion	BVG0863-BLK1	ND	ug/L	0.20	0.074	
Mevinphos	BVG0863-BLK1	ND	ug/L	0.20	0.053	
Naled	BVG0863-BLK1	ND	ug/L	0.20	0.072	
Phorate	BVG0863-BLK1	ND	ug/L	0.20	0.041	
Ronnel (Fenchlorphos)	BVG0863-BLK1	ND	ug/L	0.20	0.067	
Simazine	BVG0863-BLK1	ND	ug/L	0.50	0.10	
Stirophos (Tetrachlorvinphos)	BVG0863-BLK1	ND	ug/L	0.20	0.046	
Tokuthion (Prothiofos)	BVG0863-BLK1	ND	ug/L	0.20	0.032	
Trichloronate	BVG0863-BLK1	ND	ug/L	0.20	0.038	
Triphenylphosphate (Surrogate)	BVG0863-BLK1	92.3	%	50 - 140 (LCL - UCL)		

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 08/10/2012 16:11
Project: Water Samples
Project Number: 2F28042
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

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: BVG0863										
Bolstar	BVG0863-BS1	LCS	1.4250	1.6000	ug/L	89.1		50 - 130		
Chlorpyrifos	BVG0863-BS1	LCS	1.6500	1.6000	ug/L	103		60 - 120		
Diazinon	BVG0863-BS1	LCS	2.0550	1.6000	ug/L	128		60 - 130		
Methyl parathion	BVG0863-BS1	LCS	1.6450	1.6000	ug/L	103		60 - 120		
Mevinphos	BVG0863-BS1	LCS	1.5150	1.6000	ug/L	94.7		50 - 150		
Ronnel (Fenchlorphos)	BVG0863-BS1	LCS	1.4200	1.6000	ug/L	88.8		60 - 120		
Stirophos (Tetrachlorvinphos)	BVG0863-BS1	LCS	2.4350	1.6000	ug/L	152		50 - 120		
Triphenylphosphate (Surrogate)	BVG0863-BS1	LCS	5.2350	5.0000	ug/L	105		50 - 140		

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Moore-Twining Associates
2527 Fresno Street
Fresno, CA 93716

Reported: 08/10/2012 16:11
Project: Water Samples
Project Number: 2F28042
Project Manager: Julio Morales

Organo-Phosphorus Pesticide Analysis (EPA Method 8141)

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: BVG0863	Used client sample: N										
Bolstar	MS	1204254-97	ND	1.4200	1.6000	ug/L		88.8		60 - 120	
	MSD	1204254-97	ND	1.4650	1.6000	ug/L	3.1	91.6	30	60 - 120	
Chlorpyrifos	MS	1204254-97	ND	1.6300	1.6000	ug/L		102		60 - 120	
	MSD	1204254-97	ND	1.6850	1.6000	ug/L	3.3	105	30	60 - 120	
Diazinon	MS	1204254-97	ND	1.9800	1.6000	ug/L		124		60 - 130	
	MSD	1204254-97	ND	2.0350	1.6000	ug/L	2.7	127	30	60 - 130	
Methyl parathion	MS	1204254-97	ND	1.6250	1.6000	ug/L		102		60 - 120	
	MSD	1204254-97	ND	1.7150	1.6000	ug/L	5.4	107	30	60 - 120	
Mevinphos	MS	1204254-97	ND	1.4350	1.6000	ug/L		89.7		50 - 150	
	MSD	1204254-97	ND	1.5350	1.6000	ug/L	6.7	95.9	30	50 - 150	
Ronnel (Fenchlorphos)	MS	1204254-97	ND	1.3650	1.6000	ug/L		85.3		60 - 120	
	MSD	1204254-97	ND	1.4050	1.6000	ug/L	2.9	87.8	30	60 - 120	
Stirophos (Tetrachlorvinphos)	MS	1204254-97	ND	2.4200	1.6000	ug/L		151		50 - 120	
	MSD	1204254-97	ND	2.5600	1.6000	ug/L	5.6	160	30	50 - 120	
Triphenylphosphate (Surrogate)	MS	1204254-97	ND	5.1900	5.0000	ug/L		104		50 - 140	
	MSD	1204254-97	ND	5.3250	5.0000	ug/L	2.6	106		50 - 140	

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Moore-Twining Associates 2527 Fresno Street Fresno, CA 93716	**Reported:** 08/10/2012 16:11 Project: Water Samples Project Number: 2F28042 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
S09	The surrogate recovery on the sample for this compound was not within the control limits.

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MOORE TWINING ASSOCIATES, INC.

ESTD. 1929

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 #: 2F280 42
PAGE 21 **OF** 42

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 X SPREADSHEET
☐ County DHS :
☐ Environmental Health Ager
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT):

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

	CLIENT SAMPLE ID	DATE	TIME	TYPE	8260B	Na, B, total: Al, Fe, Mn, As	total: Ba, Pb, Be, Sb, Cd, Cr, Ni, Tl, Cu, Ag	Total: Zn, Se, Hardness	Ammonia as Nitrogen	TDS, Sulfate, Chloride, total Fluoride	8270C	8081A, 8082A	8318	8290	8141A	8151A
1	AWL120626-30	06/26/12	7:59	SF	X	X										
2	AWL120626-31	06/26/12	8:55	SF	X	X										
3	AWL120626-32	06/26/12	9:16	WW	X	X	X	X	X	X	X	X	X	X	X	X
4	AWL120626-33	06/26/12	9:36	SF	X	X										
5	AWL120626-34	06/26/12	10:19	SF	X	X										
6	AWL120626-35	06/26/12	10:48	SF	X	X										
7	AWL120626-36	06/26/12	11:14	SF	X	X										
8	AWL120626-40	06/26/12	11:52	WW	X	X	X	X	X	X	X	X	X	X	X	X
9	AWL120626-41	06/26/12	12:12	SF	X	X										

REPORTING:

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
Chi [illegible]	CVRWB	6/27/12	8:55	[illegible]	MTA
G. Clayton	MTA	6.28.12	1545	[illegible]	MTA

MOORE TWINING ASSOCIATES, INC.

EST. 1898

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 #: 2F28042

PAGE 2 **OF** 2

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

ATTENTION:	ATTENTION:
Calvin Yang	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 X SPREADSHEET
☐ County DHS :
☐ Environmental Health Ager
☐ OTHER:

SAMPLE INFORMATION

SAMPLED BY (PRINT):

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

	CLIENT SAMPLE ID	DATE	TIME	TYPE	8260B	Na, B, total: Al, Fe, Mn, As	total: Ba, Pb, Be, Sb, Cd, Cr, Ni, Tl, Cu, Ag	Total: Zn, Se, Hardness	Ammonia as Nitrogen	TDS, Sulfate, Chloride, total Fluoride	8270C	8081A, 8082A	8318	8290	8141A	8151A
10	AWL120626-42	06/26/12	1226	SF	X	X										
11	AWL120626-43	06/26/12	1444	SF	X	X										
12	AWL120626-44	06/26/12	1410	SF	X	X										
13	AWL120626-45	06/26/12	1425	SF	X	X										
14	AWL120626-07	06/26/12	9:16	WW	X	X	X	X	X	X	X	X	X	X	X	X
15	AWL120626-08	06/26/12	0500	SF	X	X	X	X	X	X	X	X	X	X	X	X

REPORTING:

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
Cai Yang	CVWB	6/27/12	8:55	[illegible]	MTA
G. Clayton	MTA	6:28.12	1545	[illegible]	MTA

Sample Integrity

Page 3 of 4 WO# 2F28042 Date Received: 6/28/12

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: CAO 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		Info From Container	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:_____

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

Explanations/Comments:

Labeled by:_____ Checked by:_____

Sample Integrity Page 4 of 4 WO# 2F28042 MTA Bottles Yes or No

Plastic 125mL (A) Plastic 250mL (B) Plastic 1L (C) Amber Glass (AG)

Sample(s) Received	1-2	3	4-7	8	9-13	14-15					
Bacti 100mL Thiosulfate											
None Preserved Plastic		1C		1C		1C					
HNO3 Plastic	1A	1A	1A	1A	1A	1A					
H2SO4 Plastic		1B		1B		1B					
NaOH Plastic											
300mL DO Bottle											
Other											
Client Own											
1L Plastic NaOH/ZnAc											
250mL (AG) None											
250mL (AG) H2SO4											
250mL (AG) Thio 515, 547, 548											
250mL (AG) Other											
500mL Clear Glass None											
1L (AG) None		6		6		6					
1L (AG) HCl											
1L (AG) Thio											
40mL (AG VOA) Thio + K Citrate 532											
40mL VOA Vial - HCl		3		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											