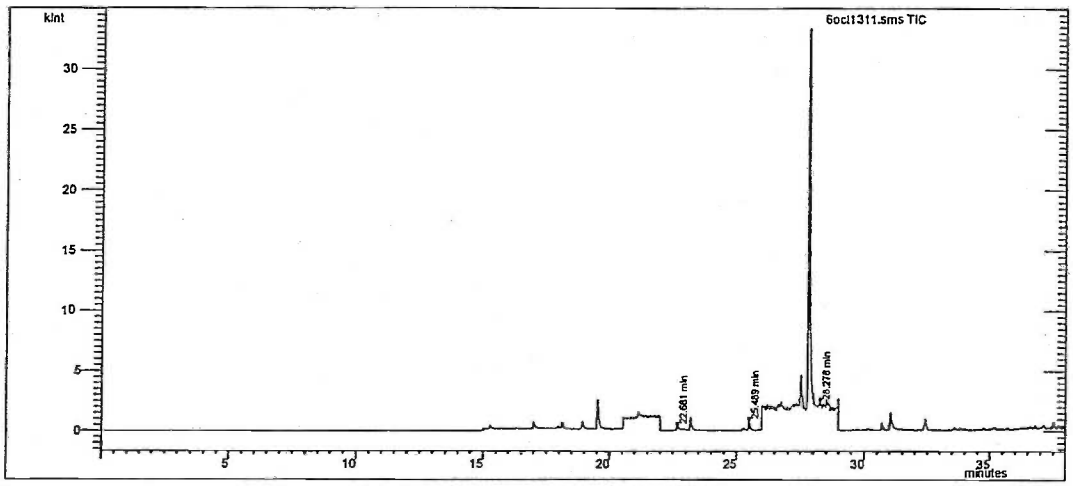
8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1311.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ccv	**Acquisition Date:**	10/26/2012 10:30:26 AM
Inj. Notes:	w#12100901	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.489	117.0+82.0	Chlorobenzene-d5(IS2)	998	2619	1.000
28.278	75.0	1,2,3 - TCP	1000	2499	0.018
22.661	98.0+70.0	Toluene-d8 (Surr 3)	970	1255	1.257

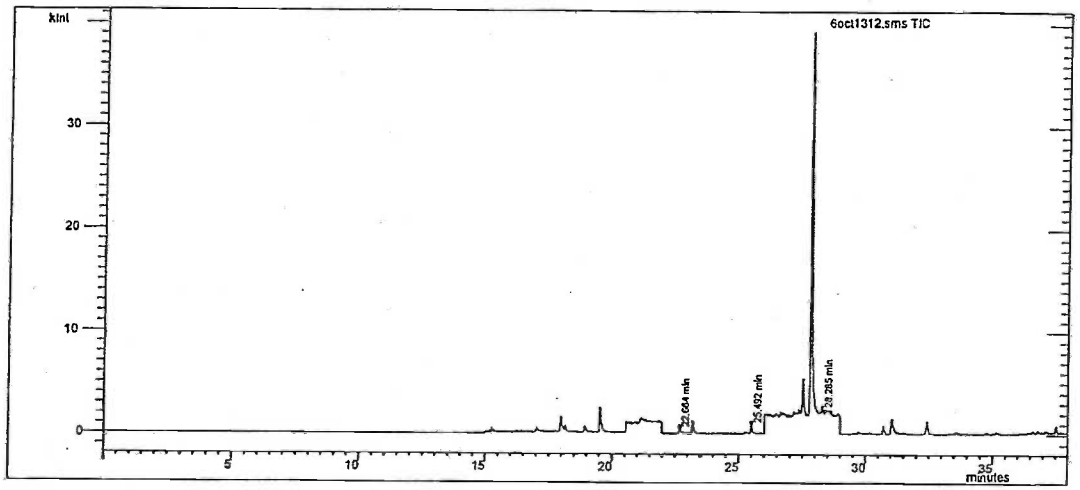
ALAB : 00387

CONFIDENTIAL LMC-PET-00000784

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1312.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp lcs	**Acquisition Date:**	10/26/2012 11:52:15 AM
Inj. Notes:	w#12100902	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.492	117.0+82.0	Chlorobenzene-d5(IS2)	999	2831	1.000
28.285	75.0	1,2,3 - TCP	1000	2478	0.016
22.664	98.0+70.0	Toluene-d8 (Surr 3)	998	1413	1.309

ALAB : 00388

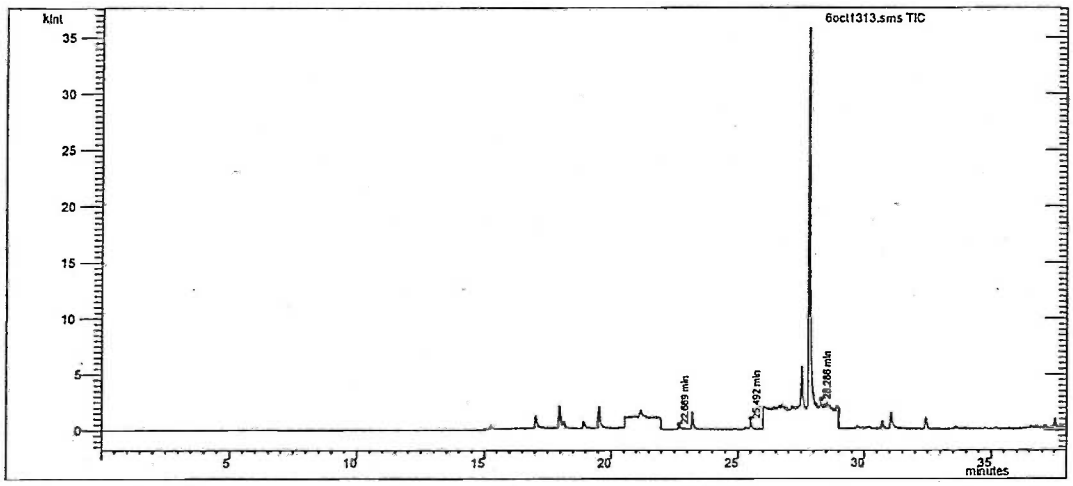
CONFIDENTIAL

LMC-PET-00000785

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1313.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp lcsd	**Acquisition Date:**	10/26/2012 12:50:15 PM
Inj. Notes:	w#12100902	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.492	117.0+82.0	Chlorobenzene-d5(IS2)	999	2496	1.000
28.286	75.0	1,2,3 - TCP	1000	2488	0.019
22.669	98.0+70.0	Toluene-d8 (Surr 3)	944	1104	1.160

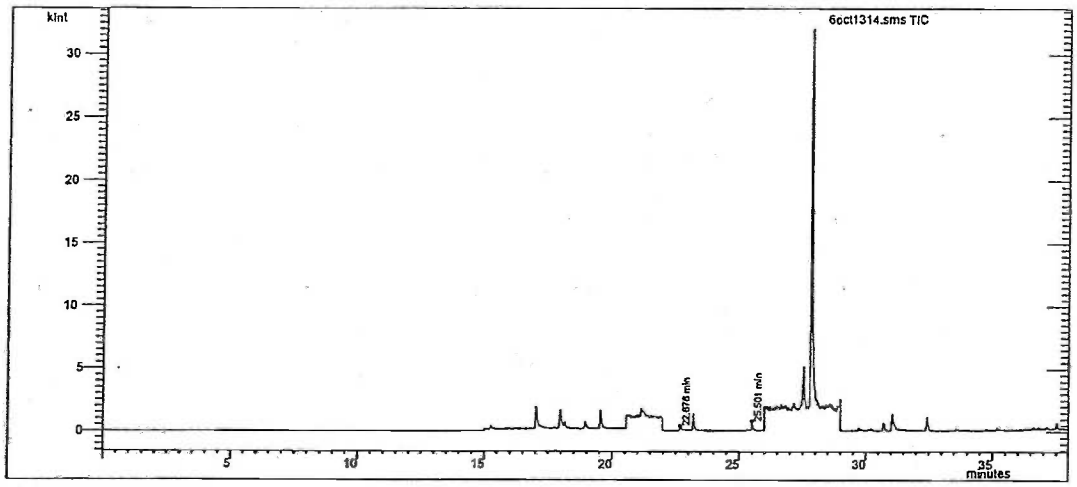
ALAB : 00389

CONFIDENTIAL LMC-PET-00000786

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1314.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	method blank	**Acquisition Date:**	10/26/2012 1:47:30 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.501	117.0+82.0	Chlorobenzene-d5(IS2)	999	2112	1.000
22.676	98.0+70.0	Toluene-d8 (Surr 3)	971	852	1.058

ALAB : 00390

CONFIDENTIAL

****

Varian Star Workstation - RecalcList Tue Oct 23 08:54:41 2012

RecalcList: C:\Documents and Settings\ragtimerye\Desktop\temp recalc.rcl

Created: Tue Sep 11 16:52:55 2012
Modified: Tue Oct 23 08:34:46 2012

****

TCP_Q_102212

Line	Sample Name	Data File	Recalc Notes
1	rinse	c:\varianws\data\6oct12\6Oct1263.SMS	none
2	0.005ppb tcp ic	c:\varianws\data\6oct12\6Oct1264.SMS	none
3	0.01ppb tcp ic	c:\varianws\data\6oct12\6Oct1265.SMS	none
4	0.02ppb tcp ic	c:\varianws\data\6oct12\6Oct1266.SMS	none
5	0.05ppb tcp ic	c:\varianws\data\6oct12\6Oct1267.SMS	none
6	0.1ppb tcp ic	c:\varianws\data\6oct12\6Oct1268.SMS	none
7	rinse	c:\varianws\data\6oct12\6Oct1269.SMS	none
8	rinse	c:\varianws\data\6oct12\6Oct1270.SMS	none
9	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1271.SMS	none

Print Date: 23 Oct 2012 09:45:38

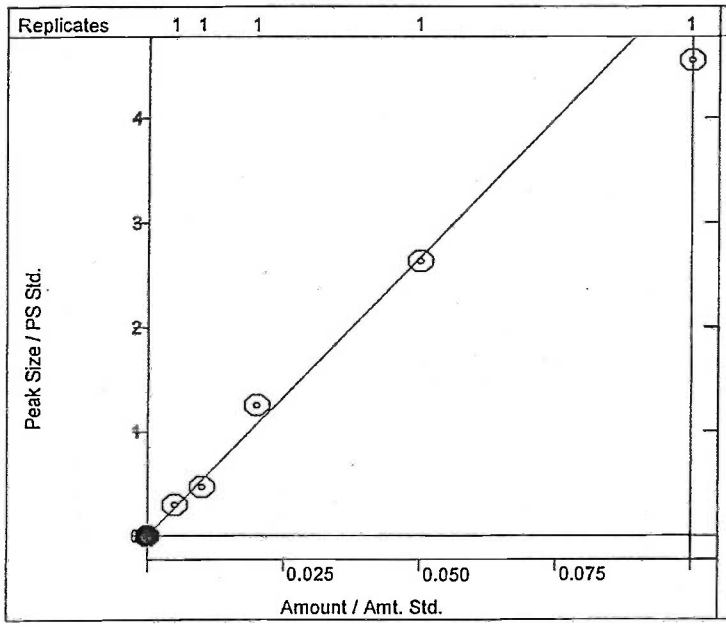
Calibration Curves Report

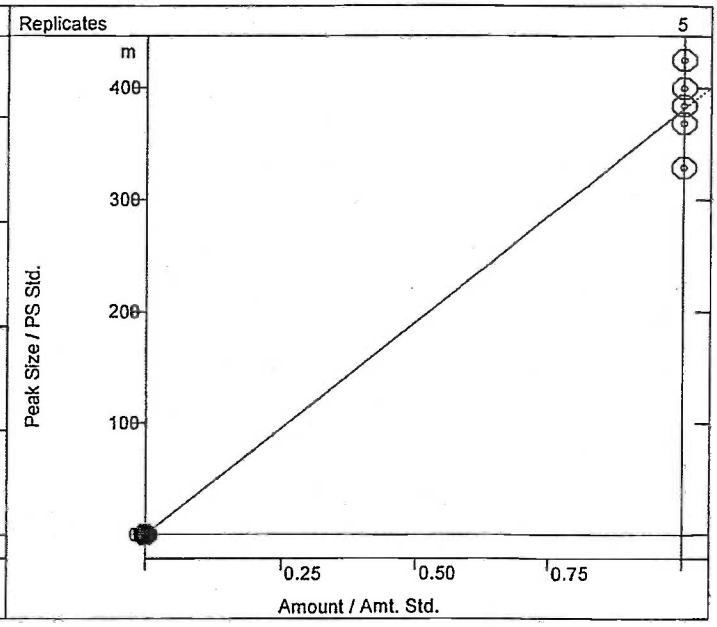
10/23/2012 9:45 AM

Method:	c:\varianws\methods\tcp-q_102212.mth		
Recalc Method:	...p-q_102212.mth	Last Calibration:	10/23/2012 9:40 AM
Sample List:	N/A	Cmpd. Table Updated:	10/23/2012 9:42 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,2,3 - TCP
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 14.10%, Coeff. Det.(r2): 0.990412
y = +53.3889x

Toluene-d8 (Surr 3)
Curve Fit: Linear, Origin: Include (Ignore), Weight: 1/nX2
Resp. Fact. RSD: 9.450%, Coeff. Det.(r2): 0.958893
y = +0.3813x +1.1102e-16



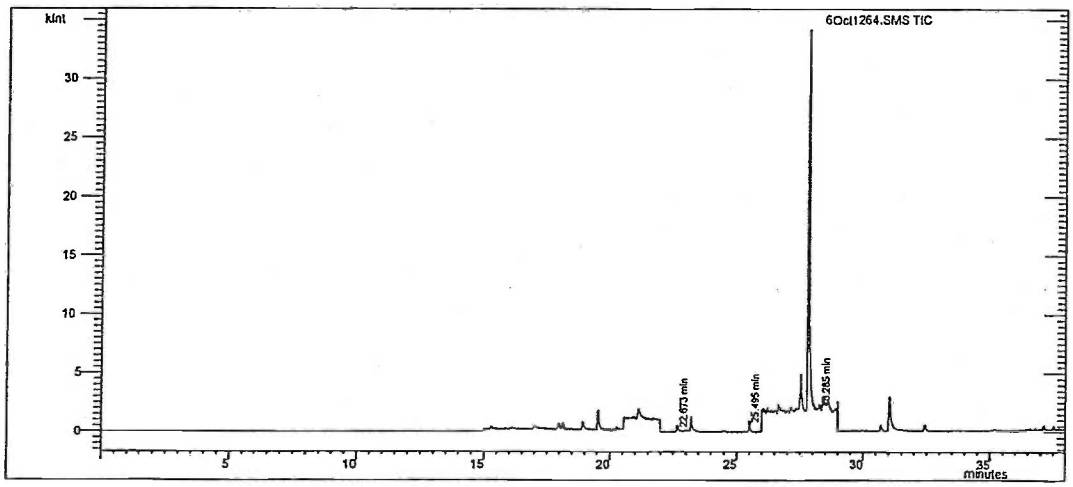


ALAB : 00392

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1264.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.005ppb tcp ic	**Acquisition Date:**	10/22/2012 2:00:44 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(IS2)	998	2092	1.000
28.285	75.0	1,2,3 - TCP	1000	621	0.006
22.673	98.0+70.0	Toluene-d8 (Surr 3)	919	688	0.862

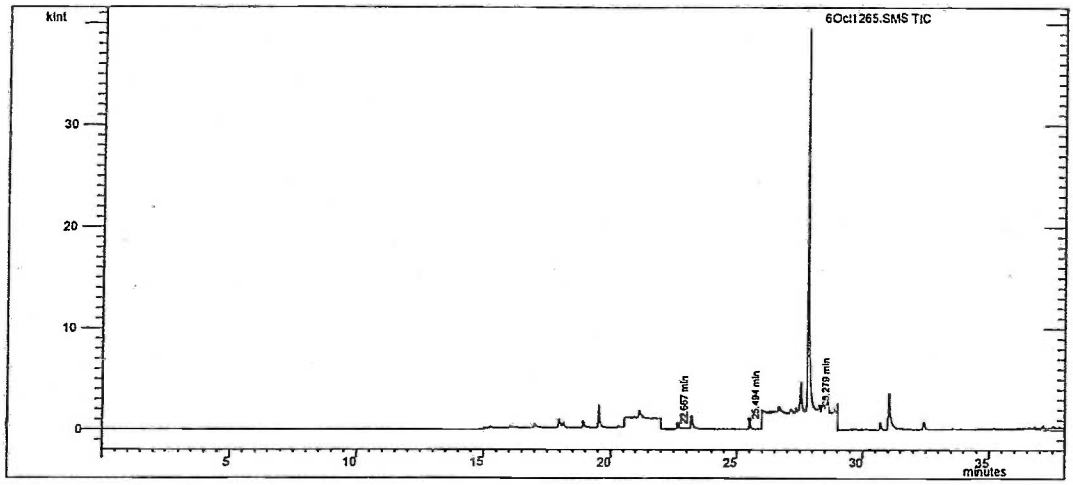
ALAB : 00393

CONFIDENTIAL

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1265.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.01ppb tcp ic	**Acquisition Date:**	10/22/2012 3:00:07 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.494	117.0+82.0	Chlorobenzene-d5(IS2)	999	2434	1.000
28.279	75.0	1,2,3 - TCP	1000	1139	0.009
22.667	98.0+70.0	Toluene-d8 (Surr 3)	944	1035	1.115

ALAB : 00394

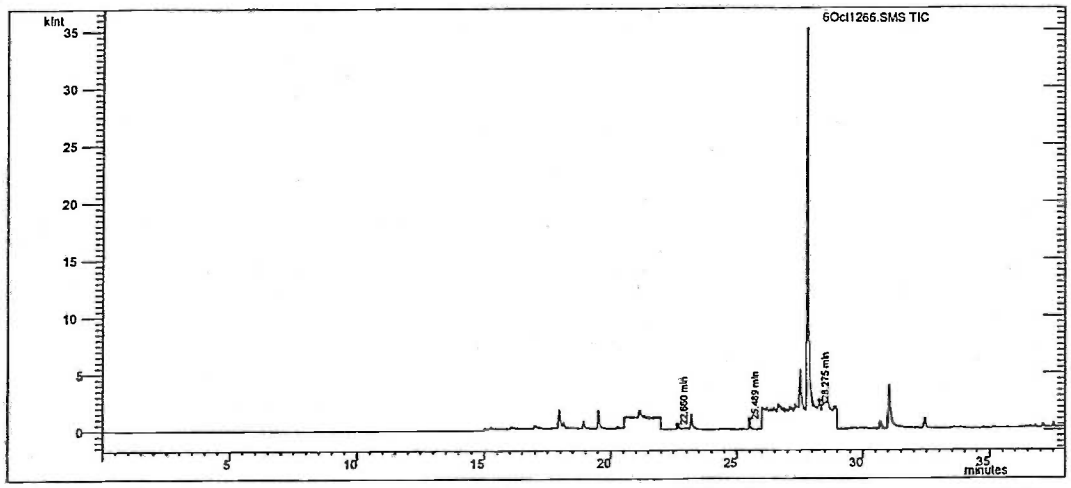
CONFIDENTIAL

LMC-PET-00000791

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1266.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ic	**Acquisition Date:**	10/22/2012 4:03:26 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.489	117.0+82.0	Chlorobenzene-d5(IS2)	998	2205	1.000
28.275	75.0	1,2,3 - TCP	1000	2760	0.023
22.660	98.0+70.0	Toluene-d8 (Surr 3)	955	812	0.966

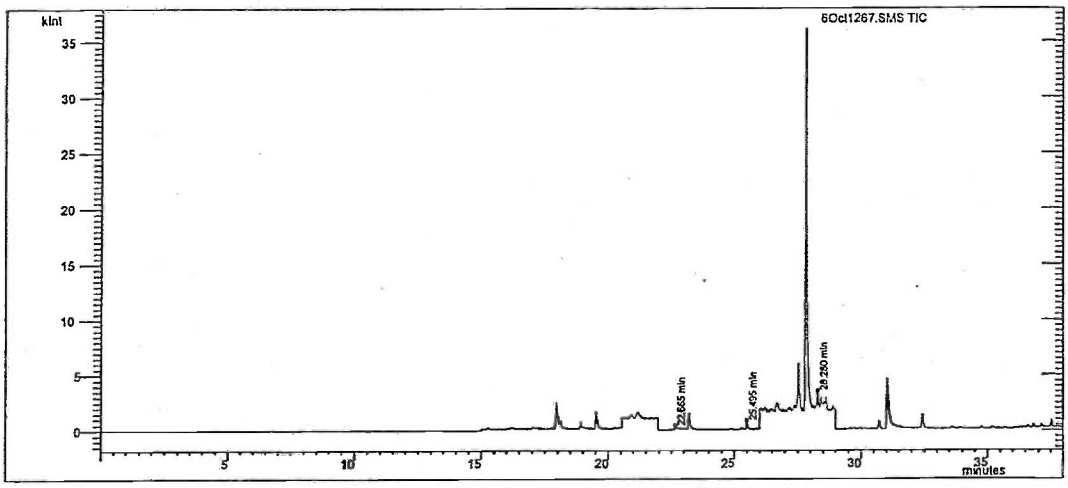
ALAB : 00395

CONFIDENTIAL LMC-PET-00000792

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1267.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.05ppb tcp ic	**Acquisition Date:**	10/22/2012 5:05:50 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(IS2)	998	2183	1.000
28.280	75.0	1,2,3 - TCP	1000	5548	0.048
22.665	98.0+70.0	Toluene-d8 (Surr 3)	892	873	1.049

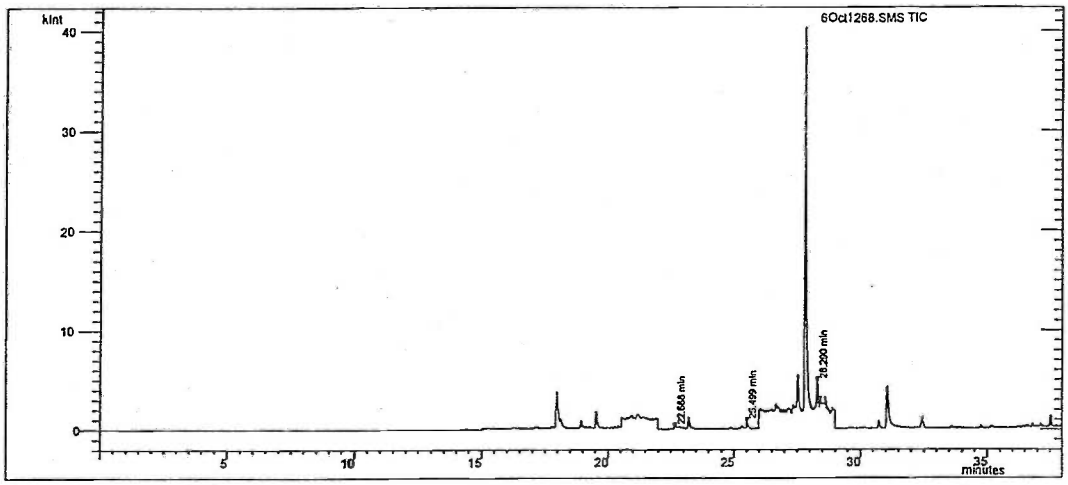
ALAB : 00396

CONFIDENTIAL

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1268.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.1ppb tcp ic	**Acquisition Date:**	10/22/2012 6:11:48 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.499	117.0+82.0	Chlorobenzene-d5(IS2)	999	2444	1.000
28.290	75.0	1,2,3 - TCP	1000	11238	0.086
22.668	98.0+70.0	Toluene-d8 (Surr 3)	873	949	1.018

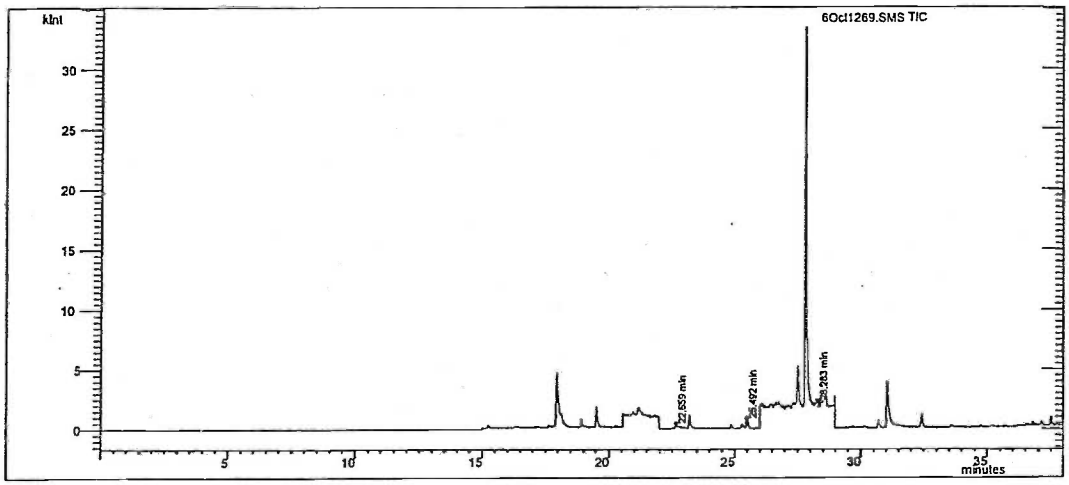
ALAB : 00397

CONFIDENTIAL LMC-PET-00000794

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1269.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	rinse	**Acquisition Date:**	10/22/2012 7:08:34 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.492	117.0+82.0	Chlorobenzene-d5(IS2)	999	2075	1.000
28.283	75.0	1,2,3 - TCP	1000	1236	0.011
22.659	98.0+70.0	Toluene-d8 (Surr 3)	949	774	0.978

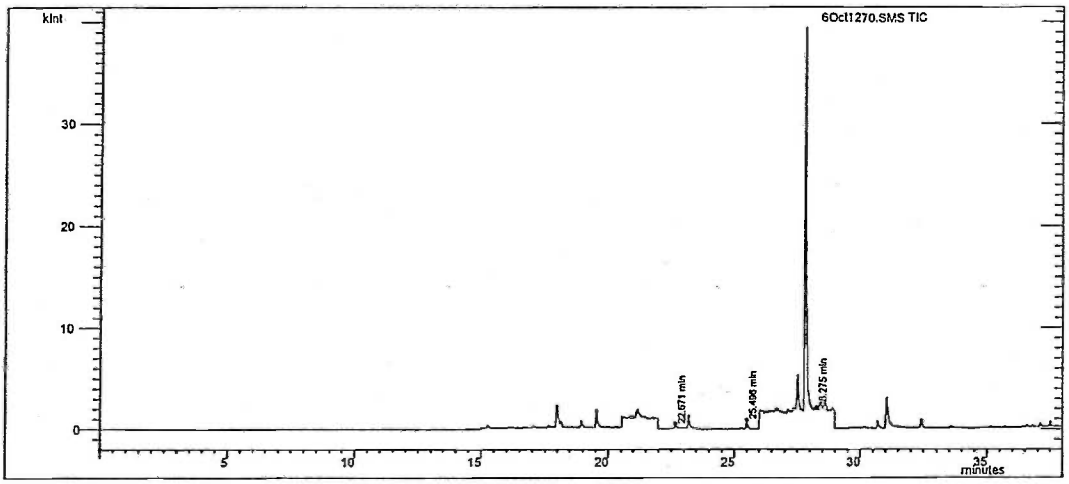
ALAB : 00398

CONFIDENTIAL LMC-PET-00000795

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1270.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	rinse	**Acquisition Date:**	10/22/2012 8:05:38 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.496	117.0+82.0	Chlorobenzene-d5(IS2)	999	2288	1.000
28.275	75.0	1,2,3 - TCP	1000	729	0.006
22.671	98.0+70.0	Toluene-d8 (Surr 3)	887	817	0.937

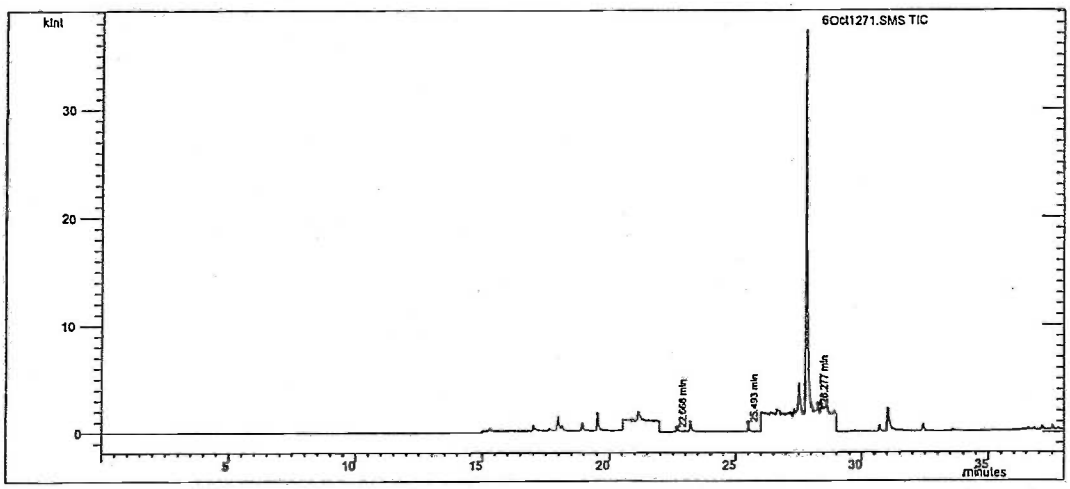
ALAB : 00399

CONFIDENTIAL

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1271.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ccv	**Acquisition Date:**	10/22/2012 9:02:30 PM
Inj. Notes:	w#12100901	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.493	117.0+82.0	Chlorobenzene-d5(IS2)	999	2394	1.000
28.277	75.0	1,2,3 - TCP	1000	2663	0.021
22.668	98.0+70.0	Toluene-d8 (Surr 3)	927	925	1.014

ALAB : 00400

CONFIDENTIAL LMC-PET-00000797

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 FAX 714 538-1209

CLIENT: ARCADIS
ATTN: Leah Levy

LAB REQUEST: 312080

PROJECT: BOU Burbank

FULL DATAPACKAGE

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ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 FAX 714 538-1209

ARCADIS
BOU Burbank Project
ALAB # 312080
Level III Data Package

ALAB Project Manger: Danielle Roberts
ALAB Laboratory Director: Ed Behare PhD
ALAB Quality Control Manager: Hongling Cao

CONFIDENTIAL

Associated Laboratories
806 N. Batavia - Orange, CA 92868
Tel (714)771-6900 Fax (714)538-1209
www.associatedlabs.com
Info@associatedlabs.com

ACCREDITED IN ACCORDANCE WITH nelac
04232CA

Client:	ARCADIS	Lab Request:	312080
Address:	3750 Schaufele Ave., Suite 225 Long Beach, CA 90808	Report Date:	10/31/2012
		Date Received:	10/12/2012
Attn:	Leah Levy	Client ID:	14099

Comments: BOU Burbank
B0038189.0000.00001

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
312080-001	B-1-CW25
312080-002	TB101212
312080-003	MW-1
312080-004	MW-2
312080-005	C-1-CW03
312080-006	C-1-CW02
312080-007	C-1-CW03 Duplicate
312080-008	Equipment Blank
312080-009	B-5-CW03
312080-010	B-5-CW03 Duplicate
312080-011	B-1-CW13
312080-012	B-1-CW13 Duplicate
312080-013	B-1-CW12
312080-014	B-1-CW12 Duplicate
312080-015	MW-3

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

ALAB : 00002

CONFIDENTIAL

LMC-PET-00000800

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/11/2012 16:35	Site:	Notes:
Sample #: 312080-001	Client Sample #: B-1-CW25	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC* Prep Method: EPA 5030B							QCBatchID: QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/21/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/21/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/21/12	nicollez	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/21/12	nicollez	
1,1,2-Trichlorotrifluoroethane	**0.5**	1	0.119	0.5	ug/L	10/21/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/21/12	nicollez	
1,1-Dichloroethene	**0.8**	1	0.13	0.5	ug/L	10/21/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/21/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/21/12	nicollez	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/21/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/21/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/21/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/21/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/21/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/21/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/21/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/21/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/21/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/21/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/21/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/21/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/21/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/21/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/21/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/21/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/21/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/21/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/21/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/21/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/21/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/21/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/21/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/21/12	nicollez	
Bromoform	ND	1	0.053	0.5	ug/L	10/21/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/21/12	nicollez	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/21/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/21/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/21/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/21/12	nicollez	
Chloroform	**0.9**	1	0.044	0.5	ug/L	10/21/12	nicollez	
Chloromethane	ND	1	0.055	0.5	ug/L	10/21/12	nicollez	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/21/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/21/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	nicollez	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/21/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/21/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/21/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/21/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/21/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix:	Water	Client:	ARCADIS	Collector:	Client
Sampled:	10/11/2012 16:35	Site:		Notes:	
Sample #:	312080-001	Client Sample #:	B-1-CW25		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/21/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/21/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/21/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/21/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/21/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/21/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/21/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/21/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/21/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/21/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/21/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/21/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/21/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/21/12	nicollez	
Tetrachloroethene	650	10	1.5	5	ug/L	10/21/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/21/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/21/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/21/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	nicollez	
Trichloroethene	78	1	0.078	0.5	ug/L	10/21/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/21/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/21/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*115*	*70-145*	
4-Bromofluorobenzene (SUR)	*113*	*70-145*	
Dibromodifluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/12/2012 07:10	Site:	Notes:
Sample #: 312080-002	Client Sample #: TB101212	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/20/12	liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/20/12	liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/20/12	liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/20/12	liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/20/12	liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/20/12	liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/20/12	liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/20/12	liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/12/2012 07:10	Site:		Notes:
Sample #: 312080-002	Client Sample #: TB101212		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	liaoyuanz	
Tetrachloroethene	ND	1	0.15	0.5	ug/L	10/20/12	liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/20/12	liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*113*	*70-145*	
4-Bromofluorobenzene (SUR)	*116*	*70-145*	
Dibromodifluoromethane (SUR)	*105*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/12/2012 08:30	Site:		Notes:
Sample #: 312080-003	Client Sample #: MW-1		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	**Prep Method: EPA 218.6**						**QCBatchID: QC1130697**	
Hexavalent Chromium	0.9 J	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 300.0	**Prep Method: Method**						**QCBatchID: QC1130565**	
Nitrate, as NO3	94.2	5	0.4	2.2	mg/L	10/13/12	wei	
Nitrate, as Nitrogen	21.3	5	0.3	0.5	mg/L	10/13/12	wei	
Nitrite, as NO2	ND	1	0.12	0.33	mg/L	10/13/12	wei	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	10/13/12	wei	
Method: EPA 6010 *NELAC*	**Prep Method: EPA 3010A/Filtered**						**QCBatchID: QC1130591**	
Chromium	0.005 J	1	0.002	0.01	mg/L	10/17/12	nina	
Thallium	ND	1	0.003	0.005	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	**Prep Method: EPA 5030B**						**QCBatchID: QC1130740**	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,1-Trichloroethane	1.8	1	0.063	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	4.2	1	0.119	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloroethene	31	1	0.13	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,3-Trichloropropane	6.9	1	0.073	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichloroethane	1.1	1	0.066	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/21/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/21/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/21/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/21/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/21/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/21/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/21/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/21/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/21/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/21/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/21/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/21/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/21/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/21/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/21/12	Liaoyuanz	
Carbon Tetrachloride	3.0	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/21/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/12/2012 08:30	**Site:**		**Notes:**
Sample #: 312080-003	**Client Sample #:** MW-1		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Chloroethane	ND	1	0.4	0.5	ug/L	10/21/12	Liaoyuanz	
Chloroform	3.5	1	0.044	0.5	ug/L	10/21/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/21/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/21/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/21/12	Liaoyuanz	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/21/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/21/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/21/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/21/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/21/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/21/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/21/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/21/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/21/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/21/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/21/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/21/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/21/12	Liaoyuanz	
Tetrachloroethene	110	1	0.15	0.5	ug/L	10/21/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	Liaoyuanz	
Trichloroethene	55	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/21/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*115*	*70-145*	
4-Bromofluorobenzene (SUR)	*110*	*70-145*	
Dibromodifluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*104*	*70-145*	

Method: EPA 8270M **Prep Method:** EPA 3535 **QCBatchID:** QC1130590

1,4-Dioxane	4.9	1	0.12	1	ug/L	10/16/12	qnguyen	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/12/2012 10:40	Site:	Notes:
Sample #: 312080-004	Client Sample #: MW-2	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	**Prep Method: EPA 218.6**						**QCBatchID: QC1130697**	
Hexavalent Chromium	**6.82**	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 300.0	**Prep Method: Method**						**QCBatchID: QC1130565**	
Nitrate, as NO3	**118**	5	0.4	2.2	mg/L	10/13/12	wei	
Nitrate, as Nitrogen	**26.7**	5	0.3	0.5	mg/L	10/13/12	wei	
Nitrite, as NO2	ND	1	0.12	0.33	mg/L	10/13/12	wei	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	10/13/12	wei	
Method: EPA 6010 *NELAC*	**Prep Method: EPA 3010A/Filtered**						**QCBatchID: QC1130591**	
Chromium	**0.012**	1	0.002	0.01	mg/L	10/17/12	nina	
Thallium	ND	1	0.003	0.005	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	**Prep Method: EPA 5030B**						**QCBatchID: QC1130740**	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,1-Trichloroethane	**1.9**	1	0.063	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	**2.5**	1	0.119	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloroethene	**20**	1	0.13	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,3-Trichloropropane	**0.9**	1	0.073	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichloroethane	**3.6**	1	0.066	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/21/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/21/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/21/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/21/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/21/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/21/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/21/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/21/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/21/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/21/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/21/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/21/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/21/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/21/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/21/12	Liaoyuanz	
Carbon Tetrachloride	**5.5**	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/21/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/12/2012 10:40	Site:		Notes:
Sample #: 312080-004	Client Sample #: MW-2		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Chloroethane	ND	1	0.4	0.5	ug/L	10/21/12	Liaoyuanz	
Chloroform	3.8	1	0.044	0.5	ug/L	10/21/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/21/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/21/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/21/12	Liaoyuanz	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/21/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/21/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/21/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/21/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/21/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/21/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/21/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/21/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/21/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/21/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/21/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/21/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/21/12	Liaoyuanz	
Tetrachloroethene	92	1	0.15	0.5	ug/L	10/21/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	Liaoyuanz	
Trichloroethene	78	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/21/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*111*	*70-145*	
4-Bromofluorobenzene (SUR)	*110*	*70-145*	
Dibromodifluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*103*	*70-145*	

Method: EPA 8270M Prep Method: EPA 3535 QCBatchID: QC1130590

1,4-Dioxane	ND	1	0.12	1	ug/L	10/16/12	qnguyen

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/12/2012 13:00	Site:	Notes:
Sample #: 312080-005	Client Sample #: C-1-CW03	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6						QCBatchID: QC1130697	
Hexavalent Chromium	0.4 J	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 6010 *NELAC*	Prep Method: EPA 3010A/Filtered						QCBatchID: QC1130591	
Chromium	0.003 J	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/20/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	Liaoyuanz	
Chloroform	0.6	1	0.044	0.5	ug/L	10/20/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/12/2012 13:00	**Site:**		**Notes:**
Sample #: 312080-005	**Client Sample #:** C-1-CW03		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	Liaoyuanz	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	Liaoyuanz	
Tetrachloroethene	4.9	1	0.15	0.5	ug/L	10/20/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*112*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromodifluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Method: EPA 8260M **Prep Method:** EPA 5030B **QCBatchID:** QC1130929

1,2,3-Trichloropropane	ND	1	0.005	0.005	ug/L	10/26/12	akk

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*104*	*50-150*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/12/2012 14:10	Site:		Notes:
Sample #: 312080-006	Client Sample #: C-1-CW02		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6						QCBatchID: QC1130697	
Hexavalent Chromium	ND	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 6010 *NELAC*	Prep Method: EPA 3010A/Filtered						QCBatchID: QC1130591	
Chromium	ND	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/20/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/20/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/12/2012 14:10	**Site:**		**Notes:**
Sample #: 312080-006	**Client Sample #:** C-1-CW02		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	Liaoyuanz	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	Liaoyuanz	
Tetrachloroethene	0.7	1	0.15	0.5	ug/L	10/20/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*114*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromodifluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*105*	*70-145*	

Method: EPA 8260M **Prep Method:** EPA 5030B **QCBatchID:** QC1130929

1,2,3-Trichloropropane	ND	1	0.005	0.005	ug/L	10/26/12	akk	

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*103*	*50-150*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/12/2012 13:04	Site:		Notes:
Sample #: 312080-007	Client Sample #: C-1-CW03 Duplicate		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/20/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/20/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	Liaoyuanz	
Chloroform	0.5	1	0.044	0.5	ug/L	10/20/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/12/2012 13:04	**Site:**		**Notes:**
Sample #: 312080-007	**Client Sample #:** C-1-CW03 Duplicate		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	Liaoyuanz	
Tetrachloroethene	5.6	1	0.15	0.5	ug/L	10/20/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/20/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*111*	*70-145*	
4-Bromofluorobenzene (SUR)	*106*	*70-145*	
Dibromodifluoromethane (SUR)	*99*	*70-145*	
Toluene-d8 (SUR)	*103*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS	**Collector:** Client
Sampled: 10/12/2012 15:15	**Site:**	**Notes:**
Sample #: 312080-008	**Client Sample #:** Equipment Blank	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 200.7	**Prep Method:** EPA 3010A						**QCBatchID:** QC1130599	
Calcium	0.102	1	0.038	0.1	mg/L	10/17/12	nina	
Magnesium	0.045 J	1	0.016	0.1	mg/L	10/17/12	nina	J
Method: EPA 218.6	**Prep Method:** EPA 218.6						**QCBatchID:** QC1130697	
Hexavalent Chromium	ND	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 300.0	**Prep Method:** Method						**QCBatchID:** QC1130565	
Nitrate, as NO3	ND	1	0.08	0.44	mg/L	10/13/12	wei	
Nitrate, as Nitrogen	ND	1	0.06	0.1	mg/L	10/13/12	wei	
Nitrite, as NO2	ND	1	0.12	0.33	mg/L	10/13/12	wei	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	10/13/12	wei	
Fluoride	ND	1	0.04	0.2	mg/L	10/13/12	wei	
Method: EPA 6010 *NELAC*	**Prep Method:** EPA 3010A/Filtered						**QCBatchID:** QC1130591	
Chromium	ND	1	0.002	0.01	mg/L	10/17/12	nina	
Thallium	ND	1	0.003	0.005	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/21/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/21/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/21/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/21/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/21/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/21/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/21/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/21/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/21/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/21/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/21/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/21/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/21/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/21/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/12/2012 15:15	Site:		Notes:
Sample #: 312080-008	Client Sample #: Equipment Blank		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Bromomethane	ND	1	0.13	1	ug/L	10/21/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/21/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/21/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/21/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/21/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/21/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/21/12	Liaoyuanz	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/21/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/21/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
Methylene chloride	2.6	1	0.15	0.5	ug/L	10/21/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/21/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/21/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/21/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/21/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/21/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/21/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/21/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/21/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/21/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/21/12	Liaoyuanz	
Tetrachloroethene	ND	1	0.15	0.5	ug/L	10/21/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/21/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*111*	*70-145*	
4-Bromofluorobenzene (SUR)	*115*	*70-145*	
Dibromodifluoromethane (SUR)	*107*	*70-145*	
Toluene-d8 (SUR)	*103*	*70-145*	

Method: EPA 8260M **Prep Method:** EPA 5030B **QCBatchID:** QC1130844

1,2,3-Trichloropropane	ND	1	0.005	0.005	ug/L	10/24/12	akk

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*114*	*50-150*	

Method: SM 2320-B **Prep Method:** Method **QCBatchID:** QC1130783

Bicarbonate (HCO3)	ND	1	1	5	mg/L	10/23/12	dung
Carbonate (CO3)	ND	1	0.7	5	mg/L	10/23/12	dung

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS	**Collector:** Client	
Sampled: 10/12/2012 15:15	**Site:**	**Notes:**	
Sample #: 312080-008	**Client Sample #:** Equipment Blank		

Analyte		Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hydroxide (OH)		ND	1	0.3	5	mg/L	10/23/12	dung	
Total Alkalinity (as CaCO3)		ND	1	1.8	5	mg/L	10/23/12	dung	
Method: SM 2510-B	**Prep Method:** Method							**QCBatchID:**	
Specific Conductance		1.00	1	0.86	1	umhos/cm	10/23/12	ame	
Method: SM 2540-C	**Prep Method:** Method							**QCBatchID:** QC1130545	
Total Dissolved Solids		ND	1	5.7	10	mg/L	10/15/12	rvenal	
Method: SM 4500-H+B	**Prep Method:** Method							**QCBatchID:**	
pH		6.55	1			pH Units	10/15/12	robert	
Method: SM 4500-Si-C	**Prep Method:** Method							**QCBatchID:** QC1130568	
Silica		ND	1	0.1	1	mg/L	10/16/12	cathy	
Method: SM 5310B	**Prep Method:** Method							**QCBatchID:** QC1130670	
Total Organic Carbon (TOC)		ND	1	0.1	0.5	mg/L	10/19/12	quang	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/12/2012 15:05	Site:	Notes:
Sample #: 312080-009	Client Sample #: B-5-CW03	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6						QCBatchID: QC1130697	
Hexavalent Chromium	**1.41**	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 6010 *NELAC*	Prep Method: EPA 3010A/Filtered						QCBatchID: QC1130591	
Chromium	**0.007 J**	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2-Trichloroethane	**6.2**	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	**0.7**	1	0.119	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/21/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,3-Trichloropropane	**21**	1	0.073	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/21/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/21/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/21/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/21/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/21/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/21/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/21/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/21/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/21/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/21/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/21/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/21/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/21/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/21/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/21/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/21/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/21/12	Liaoyuanz	
Carbon Tetrachloride	**2.1**	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/21/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/21/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/21/12	Liaoyuanz	
Chloroform	**4.0**	1	0.044	0.5	ug/L	10/21/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/21/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/12/2012 15:05	**Site:**		**Notes:**
Sample #: 312080-009	**Client Sample #:** B-5-CW03		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Dibromomethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/21/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/21/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/21/12	Liaoyuanz	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/21/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/21/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/21/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/21/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/21/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/21/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/21/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/21/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/21/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/21/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/21/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/21/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/21/12	Liaoyuanz	
Tetrachloroethene	14	1	0.15	0.5	ug/L	10/21/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/21/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/21/12	Liaoyuanz	
Trichloroethene	11	1	0.078	0.5	ug/L	10/21/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/21/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/21/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/21/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*111*	*70-145*	
4-Bromofluorobenzene (SUR)	*119*	*70-145*	
Dibromodifluoromethane (SUR)	*106*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS			**Collector:** Client	
Sampled: 10/12/2012 15:07	**Site:**			**Notes:**	
Sample #: 312080-010	**Client Sample #:** B-5-CW03 Duplicate				

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	**Prep Method:** EPA 218.6						**QCBatchID:** QC1130697	
Hexavalent Chromium	**1.39**	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 6010 *NELAC*	**Prep Method:** EPA 3010A/Filtered						**QCBatchID:** QC1130591	
Chromium	**0.004 J**	1	0.002	0.01	mg/L	10/17/12	nina	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS	**Collector:** Client
Sampled: 10/12/2012 11:55	**Site:**	**Notes:**
Sample #: 312080-011	**Client Sample #:** B-1-CW13	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	liaoyuanz	
1,1,2-Trichloroethane	**0.8**	1	0.045	0.5	ug/L	10/20/12	liaoyuanz	
1,1,2-Trichlorotrifluoroethane	**4.0**	1	0.119	0.5	ug/L	10/20/12	liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	liaoyuanz	
1,1-Dichloroethene	**6.1**	1	0.13	0.5	ug/L	10/20/12	liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
1,2,3-Trichloropropane	**17**	1	0.073	0.5	ug/L	10/20/12	liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/20/12	liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	liaoyuanz	
Carbon Tetrachloride	**2.3**	1	0.045	0.5	ug/L	10/20/12	liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	liaoyuanz	
Chloroform	**17**	1	0.044	0.5	ug/L	10/20/12	liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/20/12	liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix:	Water	**Client:**	ARCADIS	**Collector:**	Client
Sampled:	10/12/2012 11:55	**Site:**		**Notes:**	
Sample #:	312080-011	**Client Sample #:**	B-1-CW13		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	liaoyuanz	
Tetrachloroethene	**290**	10	1.5	5	ug/L	10/20/12	liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	liaoyuanz	
Trichloroethene	**310**	10	0.78	5	ug/L	10/20/12	liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*108*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromodifluoromethane (SUR)	*100*	*70-145*	
Toluene-d8 (SUR)	*106*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/12/2012 11:57	Site:	Notes:
Sample #: 312080-012	Client Sample #: B-1-CW13 Duplicate	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	nicollez	
1,1,2-Trichloroethane	**0.8**	1	0.045	0.5	ug/L	10/20/12	nicollez	
1,1,2-Trichlorotrifluoroethane	**3.9**	1	0.119	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloroethene	**5.0**	1	0.13	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,2,3-Trichloropropane	**16**	1	0.073	0.5	ug/L	10/20/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/20/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	nicollez	
Carbon Tetrachloride	**2.3**	1	0.045	0.5	ug/L	10/20/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	nicollez	
Chloroform	**16**	1	0.044	0.5	ug/L	10/20/12	nicollez	
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	nicollez	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/20/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	nicollez	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/12/2012 11:57	**Site:**		**Notes:**
Sample #: 312080-012	**Client Sample #:** B-1-CW13 Duplicate		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	nicollez	
Tetrachloroethene	280	10	1.5	5	ug/L	10/20/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	nicollez	
Trichloroethene	280	10	0.78	5	ug/L	10/20/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*109*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromodifluoromethane (SUR)	*99*	*70-145*	
Toluene-d8 (SUR)	*104*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/12/2012 09:33	Site:	Notes:
Sample #: 312080-013	Client Sample #: B-1-CW12	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 200.7	**Prep Method: EPA 3010A**						**QCBatchID: QC1130599**	
Calcium	119	1	0.038	0.1	mg/L	10/17/12	nina	
Magnesium	36.8	1	0.016	0.1	mg/L	10/17/12	nina	
Method: EPA 218.6	**Prep Method: EPA 218.6**						**QCBatchID: QC1130697**	
Hexavalent Chromium	12.8	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 300.0	**Prep Method: Method**						**QCBatchID: QC1130565**	
Chloride	64.1	1	0.1	1	mg/L	10/13/12	wei	
Sulfate	88.0	1	0.12	1	mg/L	10/13/12	wei	
Nitrate, as NO3	56.7	2	0.16	0.88	mg/L	10/13/12	wei	
Nitrate, as Nitrogen	12.8	2	0.12	0.2	mg/L	10/13/12	wei	
Nitrite, as NO2	ND	1	0.12	0.33	mg/L	10/13/12	wei	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	10/13/12	wei	
Fluoride	0.39	1	0.04	0.2	mg/L	10/13/12	wei	
Method: EPA 6010 *NELAC*	**Prep Method: EPA 3010A/Filtered**						**QCBatchID: QC1130591**	
Chromium	0.017	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	**Prep Method: EPA 5030B**						**QCBatchID: QC1130740**	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	nicollez	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloroethene	7.8	1	0.13	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/20/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/20/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/12/2012 09:33	**Site:**		**Notes:**
Sample #: 312080-013	**Client Sample #:** B-1-CW12		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	nicollez	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	nicollez	
Chloroform	**1.8**	1	0.044	0.5	ug/L	10/20/12	nicollez	
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	nicollez	
cis-1,2-Dichloroethene	**5.3**	1	0.055	0.5	ug/L	10/20/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	nicollez	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	nicollez	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	nicollez	
Tetrachloroethene	**38**	1	0.15	0.5	ug/L	10/20/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	nicollez	
Trichloroethene	**110**	1	0.078	0.5	ug/L	10/20/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*106*	*70-145*	
4-Bromofluorobenzene (SUR)	*106*	*70-145*	
Dibromodifluoromethane (SUR)	*98*	*70-145*	
Toluene-d8 (SUR)	*105*	*70-145*	

Method: EPA 8260M **Prep Method:** EPA 5030B **QCBatchID:** QC1130967

1,2,3-Trichloropropane	ND	1	0.005	0.005	ug/L	10/29/12	akk	

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*99*	*50-150*	

Method: SM 2320-B **Prep Method:** Method **QCBatchID:** QC1130512

Bicarbonate (HCO3)	**360**	1	1	5	mg/L	10/15/12	hanhkhong	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client	
Sampled: 10/12/2012 09:33	Site:	Notes:	
Sample #: 312080-013	Client Sample #: B-1-CW12		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Carbonate (CO3)	ND	1	0.7	5	mg/L	10/15/12	hanhkhong	
Hydroxide (OH)	ND	1	0.3	5	mg/L	10/15/12	hanhkhong	
Total Alkalinity (as CaCO3)	295	1	1.8	5	mg/L	10/15/12	hanhkhong	
Method: SM 2510-B	**Prep Method: Method**						**QCBatchID:**	
Specific Conductance	959	1	0.86	1	umhos/cm	10/23/12	ame	
Method: SM 2540-C	**Prep Method: Method**						**QCBatchID: QC1130545**	
Total Dissolved Solids	508	1	5.7	10	mg/L	10/15/12	rvenal	
Method: SM 4500-H+B	**Prep Method: Method**						**QCBatchID:**	
pH	7.59	1			pH Units	10/13/12	dung	
Method: SM 4500-Si-C	**Prep Method: Method**						**QCBatchID: QC1130568**	
Silica	33.8	5	0.5	5	mg/L	10/16/12	cathy	
Method: SM 5310B	**Prep Method: Method**						**QCBatchID: QC1130670**	
Total Organic Carbon (TOC)	ND	1	0.1	0.5	mg/L	10/16/12	quang	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

CONFIDENTIAL LMC-PET-00000827

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/12/2012 09:36	Site:	Notes:
Sample #: 312080-014	Client Sample #: B-1-CW12 Duplicate	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 200.7	**Prep Method: EPA 3010A**						**QCBatchID: QC1130599**	
Calcium	123	1	0.038	0.1	mg/L	10/17/12	nina	
Magnesium	37.4	1	0.016	0.1	mg/L	10/17/12	nina	
Method: EPA 300.0	**Prep Method: Method**						**QCBatchID: QC1130565**	
Chloride	62.0	1	0.1	1	mg/L	10/13/12	wei	
Sulfate	88.2	1	0.12	1	mg/L	10/13/12	wei	
Nitrate, as Nitrogen	13.1	2	0.12	0.2	mg/L	10/13/12	wei	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	10/13/12	wei	
Fluoride	0.36	1	0.04	0.2	mg/L	10/13/12	wei	
Method: EPA 8260 *NELAC*	**Prep Method: EPA 5030B**						**QCBatchID: QC1130740**	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	nicollez	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloroethene	7.2	1	0.13	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/20/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/20/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	nicollez	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client	
Sampled: 10/12/2012 09:36	Site:	Notes:	
Sample #: 312080-014	Client Sample #: B-1-CW12 Duplicate		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Chloroform	1.8	1	0.044	0.5	ug/L	10/20/12	nicollez	
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	nicollez	
cis-1,2-Dichloroethene	5.1	1	0.055	0.5	ug/L	10/20/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	nicollez	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	nicollez	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	nicollez	
Tetrachloroethene	34	1	0.15	0.5	ug/L	10/20/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	nicollez	
Trichloroethene	100	1	0.078	0.5	ug/L	10/20/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*114*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromodifluoromethane (SUR)	*100*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Method: SM 2320-B	Prep Method: Method						QCBatchID: QC1130512	
Bicarbonate (HCO3)	360	1	1	5	mg/L	10/15/12	hanhkhong	
Carbonate (CO3)	ND	1	0.7	5	mg/L	10/15/12	hanhkhong	
Hydroxide (OH)	ND	1	0.3	5	mg/L	10/15/12	hanhkhong	
Total Alkalinity (as CaCO3)	295	1	1.8	5	mg/L	10/15/12	hanhkhong	
Method: SM 2510-B	**Prep Method: Method**						**QCBatchID:**	
Specific Conductance	971	1	0.86	1	umhos/cm	10/23/12	ame	
Method: SM 2540-C	**Prep Method: Method**						**QCBatchID: QC1130545**	
Total Dissolved Solids	508	1	5.7	10	mg/L	10/15/12	rvenal	
Method: SM 4500-H+B	**Prep Method: Method**						**QCBatchID:**	
pH	7.62	1			pH Units	10/13/12	dung	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS	**Collector:** Client
Sampled: 10/12/2012 09:36	**Site:**	**Notes:**
Sample #: 312080-014	**Client Sample #:** B-1-CW12 Duplicate	

Analyte		Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: SM 4500-Si-C	Prep Method: Method							QCBatchID: QC1130568	
Silica		31.3	5	0.5	5	mg/L	10/16/12	cathy	
Method: SM 5310B	Prep Method: Method							QCBatchID: QC1130670	
Total Organic Carbon (TOC)		ND	1	0.1	0.5	mg/L	10/16/12	quang	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/12/2012 08:10	Site:	Notes:
Sample #: 312080-015	Client Sample #: MW-3	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6						QCBatchID: QC1130697	
Hexavalent Chromium	0.6 J	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 300.0	Prep Method: Method						QCBatchID: QC1130565	
Nitrate, as Nitrogen	16.5	1	0.06	0.1	mg/L	10/13/12	wei	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	10/13/12	wei	
Method: EPA 6010 *NELAC*	Prep Method: EPA 3010A/Filtered						QCBatchID: QC1130591	
Chromium	0.003 J	1	0.002	0.01	mg/L	10/17/12	nina	
Thallium	ND	1	0.003	0.005	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1130740	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/20/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/20/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/20/12	nicollez	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
1,1,2-Trichlorotrifluoroethane	3.2	1	0.119	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloroethene	1.3	1	0.13	0.5	ug/L	10/20/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,2,3-Trichloropropane	6.2	1	0.073	0.5	ug/L	10/20/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/20/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/20/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/20/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/20/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/20/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/20/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/20/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/20/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/20/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/20/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/20/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/20/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/20/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/20/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/20/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/20/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/20/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Bromoform	ND	1	0.053	0.5	ug/L	10/20/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/20/12	nicollez	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/20/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/20/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/20/12	nicollez	
Chloroform	2.0	1	0.044	0.5	ug/L	10/20/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/12/2012 08:10	Site:		Notes:
Sample #: 312080-015	Client Sample #: MW-3		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Chloromethane	ND	1	0.055	0.5	ug/L	10/20/12	nicollez	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/20/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/20/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	nicollez	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/20/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/20/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/20/12	nicollez	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/20/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/20/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/20/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/20/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/20/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/20/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/20/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/20/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/20/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/20/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/20/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/20/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/20/12	nicollez	
Tetrachloroethene	95	1	0.15	0.5	ug/L	10/20/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/20/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/20/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/20/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/20/12	nicollez	
Trichloroethene	23	1	0.078	0.5	ug/L	10/20/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/20/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/20/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/20/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*112*	*70-145*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromodifluoromethane (SUR)	*103*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Method: EPA 8270M Prep Method: EPA 3535 QCBatchID: QC1130645

1,4-Dioxane	1.9	1	0.12	1	ug/L	10/17/12	qnguyen	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130512	Analyst: hanhkhong	Method: SM 2320-B
Matrix: Water	Analyzed: 10/15/2012	Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1130512DUP1						Source: 311995-010
Bicarbonate (HCO3)	336	332	mg/L	1.2	20	
Carbonate (CO3)	ND	ND	mg/L	0.0	20	
Hydroxide (OH)	ND	ND	mg/L	0.0	20	
Total Alkalinity (as CaCO3)	275	273	mg/L	0.7	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130545	Analyst: rvenal	Method: SM 2540-C
Matrix: Water	Analyzed: 10/15/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130545MB1					
Total Dissolved Solids	ND	mg/L	5.7	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130545LCS1											
Total Dissolved Solids	293		275		mg/L	94			90-110		

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1130545DUP1						**Source: 312149-001**
Total Dissolved Solids	8340	8320	mg/L	0.2	5	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130565	Analyst: wei	Method: EPA 300.0
Matrix: Water	Analyzed: 10/13/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130565MB1					
Chloride	ND	mg/L	0.1	1	
Fluoride	ND	mg/L	0.04	0.2	
Nitrate + Nitrite, as Nitrogen	ND	mg./L	0.06	0.1	
Nitrate, as Nitrogen	ND	mg/L	0.06	0.1	
Nitrate, as NO3	ND	mg/L	0.08	0.44	
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Nitrite, as NO2	ND	mg/L	0.12	0.33	
Sulfate	ND	mg/L	0.12	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130565LCS1											
Chloride	40		40.0		mg/L	100			90-110		
Fluoride	8		7.84		mg/L	98			90-110		
Nitrate, as Nitrogen	4.5		4.60		mg/L	102			90-110		
Nitrate, as NO3	20		20.3		mg/L	102			90-110		
Nitrite, as Nitrogen	3.1		2.90		mg/L	94			90-110		
Nitrite, as NO2	10		9.67		mg/L	97			90-110		
Sulfate	40		38.9		mg/L	97			90-110		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130565MS1												**Source: 312080-013**
Chloride	64.1	200		247		mg/L	91			75-125		
Fluoride	0.39	40		36.3		mg/L	90			75-125		
Nitrate, as Nitrogen	12.8	22.6		35.9		mg/L	102			75-125		
Nitrate, as NO3	56.7	100		159		mg/L	102			75-125		
Nitrite, as Nitrogen	ND	30.5		30.2		mg/L	99			75-125		
Nitrite, as NO2	ND	100		99.0		mg/L	99			75-125		
Sulfate	88.0	200		262		mg/L	87			75-125		
QC1130565MS2												**Source: 312080-014**
Chloride	62.0	200		242		mg/L	90			75-125		
Fluoride	0.36	40		36.1		mg/L	89			75-125		
Nitrate, as Nitrogen	13.1	22.6		35.2		mg/L	98			75-125		
Nitrite, as Nitrogen	ND	30.5		29.8		mg/L	98			75-125		
Sulfate	88.2	200		260		mg/L	86			75-125		

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130568	Analyst: cathy	Method: SM 4500-Si-C
Matrix: Water	Analyzed: 10/16/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130568MB1					
Silica	ND	mg/L	0.1	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130568LCS1											
Silica	2		2.05		mg/L	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130568MS1, QC1130568MSD1												Source: 312080-013
Silica	33.8	10	10	44.8	43.8	mg/L	110	100	2.3	75-125	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130590	Analyst: qnguyen	Method: EPA 8270M
Matrix: Water	Analyzed: 10/15/2012	Instrument: SVOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130590MB1					
1,4-Dioxane	ND	ug/L	0.12	1	
N-nitrosodiethylamine (NDEA)	ND	ug/L	0.68	2	
N-Nitrosodimethylamine (NDMA)	ND	ug/L	0.29	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130590LCS1, QC1130590LCSD1											
1,4-Dioxane	20	20	13	14	ug/L	65	70	7	65-135	35	
N-nitrosodiethylamine (NDEA)	20	20	14	15	ug/L	70	75	7	65-135	35	
N-Nitrosodimethylamine (NDMA)	20	20	14	15	ug/L	70	75	7	65-135	35	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130591	Analyst: metha	Method: EPA 6010B
Matrix: Water	Analyzed: 10/17/2012	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130591MB1					
Chromium	ND	mg/L	0.002	0.01	
Thallium	ND	mg/L	0.003	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130591LCS1											
Chromium	2		2.24		mg/L	112			80-120		
Thallium	2		2.20		mg/L	110			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130591MS1, QC1130591MSD1												**Source: 311877-003**
Chromium	0.015	1	1	1.09	1.05	mg/L	108	104	3.7	75-125	20	
Thallium	ND	1	1	0.991	0.976	mg/L	99	98	1.5	75-125	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130599	Analyst: nina	Method: EPA 200.7
Matrix: Water	Analyzed: 10/17/2012	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130599MB1					
Calcium	ND	mg/L	0.038	0.1	
Magnesium	0.031 J	mg/L	0.016	0.1	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130645	Analyst: qnguyen	Method: EPA 8270M
Matrix: Water	Analyzed: 10/16/2012	Instrument: SVOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130645MB1					
1,4-Dioxane	ND	ug/L	0.12	1	
N-nitrosodiethylamine (NDEA)	ND	ug/L	0.68	2	
N-Nitrosodimethylamine (NDMA)	ND	ug/L	0.29	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130645LCS1, QC1130645LCSD1											
1,4-Dioxane	20	20	14	14	ug/L	70	70	0	65-135	35	
N-nitrosodiethylamine (NDEA)	20	20	14	15	ug/L	70	75	7	65-135	35	
N-Nitrosodimethylamine (NDMA)	20	20	14	15	ug/L	70	75	7	65-135	35	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130670	Analyst: quang	Method: SM 5310B
Matrix: Water	Analyzed: 10/16/2012	Instrument: TOC-BIO (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130670MB1					
Total Organic Carbon (TOC)	ND	mg/L	0.1	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130670LCS1											
Total Organic Carbon (TOC)	10		9.9		mg/L	99			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130670MS1, QC1130670MSD1												**Source: 312080-013**
Total Organic Carbon (TOC)	ND	10	10	10.5	10.6	mg/L	105	106	0.9	80-120	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130697	Analyst: rybechay	Method: EPA 218.6
Matrix: Water	Analyzed: 10/22/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130697MB1					
Hexavalent Chromium	ND	ug/L	0.1	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130697LCS1											
Hexavalent Chromium	5		4.77		ug/L	95			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130697MS1, QC1130697MSD1												**Source: 312080-015**
Hexavalent Chromium	0.6	2	2	2.43	2.57	ug/L	92	99	5.6	75-125	20	
QC1130697MS2, QC1130697MSD2												**Source: 312094-004**
Hexavalent Chromium	ND	2	2	1.79	1.81	ug/L	90	91	1.1	75-125	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130740	Analyst: nicollez	Method: EPA 8260B
Matrix: Water	Analyzed: 10/20/2012	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130740MB1					
1,1,1,2-Tetrachloroethane	ND	ug/L	0.122	0.5	
1,1,1-Trichloroethane	ND	ug/L	0.063	0.5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.063	0.5	
1,1,2-Trichloroethane	ND	ug/L	0.045	0.5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.119	0.5	
1,1-Dichloroethane	ND	ug/L	0.078	0.5	
1,1-Dichloroethene	ND	ug/L	0.13	0.5	
1,1-Dichloropropene	ND	ug/L	0.06	0.5	
1,2,3-Trichlorobenzene	ND	ug/L	0.06	0.5	
1,2,3-Trichloropropane	ND	ug/L	0.073	0.5	
1,2,4-Trichlorobenzene	ND	ug/L	0.068	0.5	
1,2,4-Trimethylbenzene	ND	ug/L	0.078	0.5	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.08	0.5	
1,2-Dibromoethane	ND	ug/L	0.043	0.5	
1,2-Dichlorobenzene	ND	ug/L	0.051	0.5	
1,2-Dichloroethane	ND	ug/L	0.066	0.5	
1,2-Dichloropropane	ND	ug/L	0.06	0.5	
1,3,5-Trimethylbenzene	ND	ug/L	0.097	0.5	
1,3-Dichlorobenzene	ND	ug/L	0.052	0.5	
1,3-Dichloropropane	ND	ug/L	0.68	0.5	
1,4-Dichlorobenzene	ND	ug/L	0.12	0.5	
2,2-Dichloropropane	ND	ug/L	0.11	0.5	
2-Butanone (MEK)	ND	ug/L	0.3	5	
2-Chloroethyl Vinyl Ether	ND	ug/L	0.23	0.5	
2-Chlorotoluene	ND	ug/L	0.079	0.5	
4-Chlorotoluene	ND	ug/L	0.08	0.5	
4-Isopropyltoluene	ND	ug/L	0.091	0.5	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	0.16	5	
Acetone	ND	ug/L	0.2	10	
Allyl Chloride	ND	ug/L	0.08	0.5	
Benzene	ND	ug/L	0.071	0.5	
Bromobenzene	ND	ug/L	0.073	1	
Bromochloromethane	ND	ug/L	0.06	0.5	
Bromodichloromethane	ND	ug/L	0.06	0.5	
Bromoform	ND	ug/L	0.053	0.5	
Bromomethane	ND	ug/L	0.13	1	
Carbon Tetrachloride	ND	ug/L	0.045	0.5	
Chlorobenzene	ND	ug/L	0.075	0.5	
Chlorodibromomethane	ND	ug/L	0.045	0.5	
Chloroethane	ND	ug/L	0.4	0.5	
Chloroform	ND	ug/L	0.044	0.5	
Chloromethane	ND	ug/L	0.055	0.5	
cis-1,2-Dichloroethene	ND	ug/L	0.055	0.5	
cis-1,3-dichloropropene	ND	ug/L	0.061	0.5	
cis-1,4-dichloro-2-butene	ND	ug/L	0.075	5	
Dibromomethane	ND	ug/L	0.06	0.5	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130740	Analyst: nicollez	Method: EPA 8260B
Matrix: Water	Analyzed: 10/20/2012	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130740MB1					
Dichlorodifluoromethane	ND	ug/L	0.062	0.5	
Di-isopropyl ether (DIPE)	ND	ug/L	0.17	0.5	
Ethylbenzene	ND	ug/L	0.091	0.5	
Ethyl-tertbutylether (ETBE)	ND	ug/L	0.25	0.5	
Hexachlorobutadiene	ND	ug/L	0.073	1	
Isopropylbenzene	ND	ug/L	0.089	0.5	
m and p-Xylene	ND	ug/L	0.17	0.5	
Methylene chloride	ND	ug/L	0.15	0.5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L	0.068	0.5	
Naphthalene	ND	ug/L	0.061	0.5	
N-butylbenzene	ND	ug/L	0.094	0.5	
N-propylbenzene	ND	ug/L	0.09	0.5	
o-Xylene	ND	ug/L	0.075	0.5	
Sec-butylbenzene	ND	ug/L	0.077	0.5	
Styrene	ND	ug/L	0.088	0.5	
t-Butyl alcohol (TBA)	ND	ug/L	5	5	
Tert-amylmethylether (TAME)	ND	ug/L	0.13	0.5	
Tert-butylbenzene	ND	ug/L	0.092	0.5	
Tetrachloroethene	ND	ug/L	0.15	0.5	
Toluene	ND	ug/L	0.078	0.5	
trans-1,2-dichloroethene	ND	ug/L	0.17	0.5	
trans-1,3-dichloropropene	ND	ug/L	0.056	0.5	
trans-1,4-dichloro-2-butene	ND	ug/L	0.075	5	
Trichloroethene	ND	ug/L	0.078	0.5	
Trichlorofluoromethane	ND	ug/L	0.06	0.5	
Vinyl Chloride	ND	ug/L	0.08	0.5	
Xylenes (Total)	ND	ug/L	0.25	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130740LCS1											
1,1-Dichloroethene	25		26		ug/L	104			59-172		
Benzene	25		26		ug/L	104			62-137		
Chlorobenzene	25		26		ug/L	104			60-133		
Methyl-t-butyl Ether (MTBE)	25		24		ug/L	96			62-137		
Toluene	25		26		ug/L	104			59-139		
Trichloroethene	25		25		ug/L	100			66-142		

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130740	Analyst: nicollez	Method: EPA 8260B
Matrix: Water	Analyzed: 10/20/2012	Instrument: VOA-MS (group)

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130740MS1, QC1130740MSD1												**Source: 312080-006**
1,1-Dichloroethene	ND	25	25	25	24	ug/L	100	96	4.1	59-172	22	
Benzene	ND	25	25	27	26	ug/L	108	104	3.8	62-137	24	
Chlorobenzene	ND	25	25	26	26	ug/L	104	104	0.0	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	25	25	26	25	ug/L	104	100	3.9	62-137	21	
Toluene	ND	25	25	26	26	ug/L	104	104	0.0	59-139	21	
Trichloroethene	ND	25	25	26	26	ug/L	104	104	0.0	66-142	21	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130783	Analyst: dung	Method: SM 2320-B
Matrix: Water	Analyzed: 10/23/2012	Instrument: CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1130783DUP1						Source: 312080-008
Bicarbonate (HCO3)	ND	ND	mg/L	0.0	20	
Carbonate (CO3)	ND	ND	mg/L	0.0	20	
Hydroxide (OH)	ND	ND	mg/L	0.0	20	
Total Alkalinity (as CaCO3)	ND	ND	mg/L	0.0	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130844	Analyst: akk	Method: EPA 8260M
Matrix: Water	Analyzed: 10/25/2012	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130844MB1					
1,2,3-Trichloropropane	ND	ug/L	0.005	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130844LCS1, QC1130844LCSD1											
1,2,3-Trichloropropane	0.02	0.02	0.022	0.019	ug/L	110	95	15	50-150	30	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130929	Analyst: akk	Method: EPA 8260M
Matrix: Water	Analyzed: 10/29/2012	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130929MB1					
1,2,3-Trichloropropane	ND	ug/L	0.005	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130929LCS1, QC1130929LCSD1											
1,2,3-Trichloropropane	0.02	0.02	0.016	0.019	ug/L	80	95	17	50-150	30	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312080

QCBatchID: QC1130967	Analyst: akk	Method: EPA 8260M
Matrix: Water	Analyzed: 10/30/2012	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130967MB1					
1,2,3-Trichloropropane	ND	ug/L	0.005	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1130967LCS1, QC1130967LCSD1											
1,2,3-Trichloropropane	0.02	0.02	0.017	0.019	ug/L	85	95	11	50-150	30	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Notes and Definitions

B	Analyte was present in an associated method blank. Associated sample data was reported with qualifier.
C	Laboratory Contamination.
D	The sample duplicate RPD was not within control limits, the sample data was reported without further clarification.
DF	Dilution Factor
DW	Sample result is calculated on a dry weigh basis
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
MDL	Method Detection Limit
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
ND	Analyte was not detected or was less than the detection limit.
P	Sample was received without proper preservation according to EPA guidelines.
RDL	Reporting Detection Limit
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
T	Sample was extracted/analyzed past the holding time.

ASSOCIATED LABORATORIES

NARRATIVE

Date: November 8, 2012

Narrative for Lab Request LR: 312080

Client Project Identification:

Client Name: ARCADIS
Project: BOU Burbank

This narrative includes all samples as shown on the attached Lab Request final report.

Data Validation:

Holding Times
Samples were received on October 12th, 2012 intact and at a temperature of 3.0°C. All EPA recommended holding times were met for this project.

Calibration
Initial calibration criteria were met. Initial and Continuing Calibration Check samples were run at the required frequency. All results were within required limits.

Quality Control Samples
All QC results were within control limits.

Other Anomalies or Comments

1,2,3 – TCP for the Samples (ID# MW-1, MW-2, B-5-CW03, B-1-CW13 and MW-3) was analyzed and reported by regular EPA 8260B.

Estimated concentrations ("J" Flags) were reported on all samples and method blanks. The following samples have reported "J" flags:

Metals: MW-1, C-1-CW03, Equipment Blank, B-5-CW03, B-5-CW03 Duplicate, MW-3

Hex Chromium: MW-1, C-1-CW03, MW-3

ASSOCIATED LABORATORIES
806 North Batavia • Orange, CA 92868
Phone: (714) 771-6900 • Fax: (714) 538-1209

Chain of Custody Record

Lab Job No. 312080
Page 1 of 1

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: ____ 48 Hours: ____ 24 Hours: ____

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY	ARCADIS	PROJECT NAME:	BOU Burbank
SEND REPORT TO:	Erik Gaiser	NUMBER:	
EMAIL:		ADDRESS:	N Hollywood Way Burbank, CA
ADDRESS:	On file	P.O. #:	B0038189.0000.00001
PHONE:		SAMPLED BY:	H. Tauscher, H. Armstrong

ANALYSIS REQUEST

	Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	VOC's 8260B + 1,2,3 TCP	1,2,3 TCP	1,4 Dioxane	Total Chrome (Filter)	Hexavalent Chrome	Thallium (Filter)	Nitrate/Nitrite	TDS	General Minerals	Test Instructions & Comments
1	B-1-CW25	10/11/12	1635	W	3 voas	HCL	X									
2	TB101212	10/12/12	0710	W	2 voas	HCL	X									
3	MW-1	10/12/12	0830	W	11 various	HCL HNO3	X	X	X	X	X	X	X	~~X~~	(H)	
4	MW-2	10/12/12	1040	W	11 various	HCL HNO3	X	X	X	X	X	X	X			
5	C-1-CW03	10/12/12	1300	W	8 various	HCL HNO3	X	X		X	X					
6	C-1-CW02	10/12/12	1410	W	8 various	HCL HNO3	X	X		X	X					
7	C-1-CW03 Dupl.	10/12/12	1304	W	3 voas	HCL	X									
8	Equipment Blank	10/12/12	1515	W	8 various	HCL	X	X			X		X			
9	B-5-CW03	10/12/12	1505	W	8 various	HCL HNO3	X	X		X	X					
10	B-5-CW03 Duplicate	10/12/12	1507	W	2 polys					X	X					
11	B-1-CW13	10/12/12	1155	W	6 voas	HCL	X	X								
12	B-1-CW13 Duplicate	10/12/12	1157	W	3 voas	HCL	X									
13	B-1-CW12	10/12/12	0933	W		HCL HNO3	X	X		X	X		X	X	X	
14	B-1-CW12 Duplicate	10/12/12	0936	W		HCL HNO3	X							X	X	
15	MW-3	10/12/12	0810													

Total No. of Samples: Method of Shipment:

Preservative: 1= Ice 2 =HCl 3 =HNO_3 4 =H_2SO_4 5 =NaOH 6 =Other

Relinquished by: 1.	Received By: 1.	Relinquished by 2.	Received By: 2.	Relinquished by 3.	Received By: 3.
ARCADIS	LAVORI JON	LAVORI JON			
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:	Signature:
Printed Name: Heather Tauscher	Printed Name: LAVORI JON	Printed Name: LAVORI JON	Printed Name: [signature]	Printed Name:	Printed Name:
Date: 10/12/12 Time: 1548	Date: 10/12/12 Time: 350	Date: 10/12/12 Time: 650	Date: 10/12/12 Time: 1903	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ALAB : 00053

LMC-PET-00000852

CONFIDENTIAL

Danielle Roberts

From: Levy, Leah [Leah.Levy@arcadis-us.com]
Sent: Tuesday, October 16, 2012 2:51 PM
To: Danielle Roberts
Subject: RE: BOU picked up 10-12-12

Daniel:

For the 10/12/12 COC, please add these analyses:

- MW-3 samples should be analyzed for VOCs, TCP, 1,4-dioxane, total and hexavalent chromium, nitrite/nitrate, and thallium.

- The equipment blank should be analyzed for 1,4- dioxane, TDS, general minerals, total chromium, and thallium in addition to the analyses indicated on the COCs.

Thanks

From: Danielle Roberts [mailto:droberts@associatedlabs.com]
Sent: Tuesday, October 16, 2012 2:40 PM
To: Levy, Leah
Subject: BOU picked up 10-12-12

Hi Leah,
Just want to follow up on MW-3. There are no analysis marked, just want to make sure you want the sample on hold or add analysis. Let me know.
Thanks

Danielle Roberts
Project Manager
Associated Laboratories
806 N. Batavia
Orange, CA 92868
droberts@associatedlabs.com
Tel 714-771-6900
Cell 714-920-5157

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ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 *FAX 714-538-1209*

SAMPLE ACCEPTANCE CHECKLIST

Section 1
Client: Arcadis
Project: _____
Date Received: 10 - 12 - 12
Sampler's Name: (Yes) No
Sample(s) received in cooler: (Yes) No (Skip Section 2)
Shipping Information: _____

Section 2
Was the cooler packed with: X Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam
___ Paper ___ None ___ Other _____
Cooler or box temperature: 3°C

(Acceptance range is 0 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	X		
Is it properly completed? (IDs, sampling date and time, signature, test)	X		
Were custody seals present?			X
If Yes – were they intact?			X
Were all samples sealed in plastic bags?	X		
Did all samples arrive intact? If no, indicate below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were correct containers used for the tests required?	X		
Was a sufficient amount of sample sent for tests indicated?	X		
Was there headspace in VOA vials?		X	X
Were the containers labeled with correct preservatives?	X		
Was total residual chlorine measured (Fish Bioassay samples only)? *			X

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
Explanations/Comments

Section 5
Was Project Manager notified of discrepancies: Y / N N/A

Completed By: [signature] Date: 10-12-12

Created on 7/6/2012 1:29:00 PM

ALAB : 00054

SM 2320B

Alkalinity
EPA 310.1 / SM 2320B

Analyst H. K

Date 10 15 2012

H2SO4 (0.020 N) ID # 04 04 2012

Phenolphthalein ID # 01 17 2011

Methyl Orange ID # 05 30 2012

Lab Request #	Init. Vol.	Ml of H2SO4	PH	Tot. Alk.	Bicarb.	Carb.	OH	Comments
blank	50	0.10		ND	ND	ND	ND	9:45 AM
311995-010 #9	20	5.50		275	336	ND	ND	
dup		5.45		273	332	ND	ND	
312088-013 #5		5.90		295	360	ND	ND	
014 #1		5.90		295	360	ND	ND	
312094-02 #10		4.30		215	262	ND	ND	

ALAB : 00056

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LMC-PET-00000856

Alkalinity
EPA 310.1 / SM 2320B

Analyst DC

Date 10/23/2012

H2SO4 (0.020 N) ID # 04 04 2012

Phenolphthalein ID # 0117 2011

Methyl Orange ID # 05 30 2012

Lab Request #	Init. Vol.	Ml of H2SO4	PH	Tot. Alk.	Bicarb.	Carb.	OH	Comments
Blank	50	0.05		ND	ND	ND	ND	
3120080/08-1	50	0.05		ND	ND	ND	ND	15:30
dup	50	0.05		ND	ND	ND	ND	
								QC130703

ALAB : 00057

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LMC-PET-00000857

SM 2510B

Electrical Conductivity
EPA 120.1 / SM 2510

Date	Lab ID #	Reading	EC	Temp.	Sigh.	Comments
10/28/12	std 100	99.4	99	21.5	AB	EC041712-3
	std 1413	1419	1419	21.6	AB	SS020112EC-3
	std 19000	18.71	18710	21.7	AB	Cond 081712
	DI water	0.50	0.50	20.5	AB	
	312183/001/2	972 us	972	20.8	AB	water express
Dup!	312183/001/2	971 us	971	20.8	AB	
12:25 pm	312080/013 5	959 us	959	21.6	AB	Arcadis
12:30 pm	312080/014/1	971 us	971	21.3	AB	Arcadis
	312080/008/1	1.04 us	1	25.0	AB	↓

ALAB : 00059

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LMC-PET-00000859

SM 2540C

CONFIDENTIAL

QC1130545 J

ASSOCIATED LABORATORIES

Date 10.15.12

Chem. Dept. Total Dissolved Solids T.D.S. EPA 160-1

Initials RV

SAMPLE # MB1 Company

90.2960 1:16pm Electroconductivity _____ µmhos/cm

D. Solids + container 90.2865 g. 10:11am Sample amount 100 ml

Cont. wt. # _____ - 90.2892 g. 6:03pm

Dissolved solids g. T.D.S. ND mg/L

SAMPLE # LCS1 Company

94.7715 1:15pm Electroconductivity _____ µmhos/cm

D. Solids + container 94.7723 g. 10:19am Sample amount 100 ml

Cont. wt. # _____ - 94.7440 g. 6:10pm

Dissolved solids g. T.D.S. 275 mg/L

SAMPLE # 311995-002/3 Company Equipment Blank

118.3780 ~~118.3780~~ RV 1:17pm Electroconductivity 0.96 µmhos/cm

D. Solids + container 118.3781 g. 10:29am Sample amount 200 ml

Cont. wt. # _____ - 118.3830 g. 6:21pm

Dissolved solids g. T.D.S. ND mg/L

SAMPLE # 312080-008/1 Company Equipment Blank

111.0275 1:19pm Electroconductivity 0.93 µmhos/cm

D. Solids + container 111.0279 g. 10:30am Sample amount 200 ml

Cont. wt. # _____ - 111.0325 g. 6:24pm

Dissolved solids g. T.D.S. ND mg/L

$$T.D.S = \frac{\text{Dissolved Solids g}}{\text{Sample Amount ml}} \quad \frac{1000\text{ mg}}{1\text{g}} \quad \frac{1000\text{ ml}}{1\text{L}}$$

ALAB : 00061

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ASSOCIATED LABORATORIES

Chem. Dept. Total Dissolved Solids T.D.S. EPA 160-1

Date RV 10.15.12

Initials RV

SAMPLE # 312080-013/4 Company B-1 CW12

80.6375 1:10pm Electroconductivity 987 µmhos/cm

D. Solids + container 80.6380 g. 10:31am Sample amount 50 ml

Cont. wt. # _____ - 80.6121 g. 6:29pm

Dissolved solids g. T.D.S. 508 mg/L

SAMPLE # 312080-014/5 Company B-1 CW12 Dup

81.5580 1:20pm Electroconductivity 980 µmhos/cm

D. Solids + container 81.5583 g. 10:32am Sample amount 50 ml

Cont. wt. # _____ - 81.5326 g. 6:33pm

Dissolved solids g. T.D.S. 508 mg/L

SAMPLE # 312080-015/1 Company

83.4927 1:21pm Electroconductivity 929 µmhos/cm

D. Solids + container 83.4930 g. 10:33am Sample amount 50 ml

Cont. wt. # _____ - 83.4683 g. 6:35pm

Dissolved solids g. T.D.S. 488 mg/L

SAMPLE # 312094-002/1 Company B-1 CW20

80.9523 1:23pm Electroconductivity 857 µmhos/cm

D. Solids + container 80.9529 g. 10:35am Sample amount 50 ml

Cont. wt. # _____ - 80.9309 g. 6:40pm

Dissolved solids g. T.D.S. 428 mg/L

$$T.D.S = \frac{\text{Dissolved Solids g}}{\text{Sample Amount ml}} \quad \frac{1000\text{ mg}}{1\text{g}} \quad \frac{1000\text{ ml}}{1\text{L}}$$

ASSOCIATED LABORATORIES

Date 10.15.12

Chem. Dept. Total Dissolved Solids T.D.S. EPA 160-1

Initials RV

SAMPLE # 312149-001/1 dup

Company

93.2301

~~93.2301~~ RV 1:35pm

Electroconductivity 8960 µmhos/cm

D. Solids + container 93.2313 g. 11:00am

Sample amount 25 ml

Cont. wt. # _____ - 93.0220 g. 7:05pm

Dissolved solids g.

T.D.S. 8324 mg/L

SAMPLE #

Company

Electroconductivity µmhos/cm

D. Solids + container g.

Sample amount ml

Cont. wt. # _____ - g.

Dissolved solids g.

T.D.S. mg/L

SAMPLE #

Company

Electroconductivity µmhos/cm

D. Solids + container g.

Sample amount ml

Cont. wt. # _____ - g.

Dissolved solids g.

T.D.S. mg/L

SAMPLE #

Company

Electroconductivity µmhos/cm

D. Solids + container g.

Sample amount ml

Cont. wt. # _____ - g.

Dissolved solids g.

T.D.S. mg/L

$$T.D.S = \frac{\text{Dissolved Solids g}}{\text{Sample Amount ml}} \quad \frac{1000\text{ mg}}{1\text{g}} \quad \frac{1000\text{ ml}}{1\text{L}}$$

ALAB: 00063

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LMC-PET-00000863