APPENDIX G:

POND 30 WATER QUALITY TESTING RESULTS

Memorandum

To: Greg Knapp, Lehigh Hanson
Cc:

From: Sean Avent
avent@wra-ca.com
ext. 112

Date: August 29, 2013
Subject: Pond 30 Water Quality Testing Results

Per Condition of Approval (COA) 80, within 30 days of RPA approval, sampling and testing shall occur within 24 hours after a qualifying rain event for monitoring and determination of BMP effectiveness for the EMSA.

If no qualifying rain event occurs within 30 days of RPA approval, then testing shall begin at the first qualifying rain event. Testing shall be conducted in accordance with the Interim Stormwater Monitoring Plan developed and approved in accordance with Condition #79. The Stormwater Monitoring Plan states targets waters that are released as discharge to Permanente Creek.

There were three releases into the Permanente Creek from Pond 30 during the time period covered by this report: 11/30/2012, 12/5/2012, and 12/26/2012. A Lehigh staff member. or Golder Associates personnel, acting as their representative, sampled overflow water within 24 hours of the discharge event. The samples were tested by Alpha Analytical Laboratories for dissolved solids and general chemistry. All water quality testing revealed selenium to be lower than 5mg/liter. A full summary of the results is included below in the following reports.

Alpha Analytical Laboratories Inc.
e-mail: clientservices@alpha-labs.com
Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

17 January 2013

Lehigh Southwest Cement Company
Attn: Scott Renfrew
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
RE: Pond Discharge
Work Order: 12K1305

Enclosed are the results of analyses for samples received by the laboratory on 11/30/12 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sean Foley For Robbie C. Phillips
Project Manager

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:09
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 30 (SD)	12K1305-02	Water	11/30/12 12:15	11/30/12 21:00

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

Bruce Gove
Laboratory Director

1/17/2013

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:09
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 30 (SD) (12K1305-02)			**Sample Type: Water**			**Sampled: 11/30/12 12:15**		
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM)	EPA 1664	AL21327	12/13/12 08:30	12/17/12 08:30	1	ND mg/l	5.0	
pH	SM4500-H+ B	AL20619	11/30/12 13:10	11/30/12 17:23	"	**8.25 pH Units**	**1.68**	T-14
Specific Conductance (EC)	SM2510B	"	"	11/30/12 17:27	"	**1300 umhos/cm**	**20**	
Total Dissolved Solids	SM2540C	AL20324	12/03/12 10:30	12/06/12 13:15	"	**900 mg/l**	**10**	
Total Suspended Solids	SM2540D	AL20526	12/05/12 07:24	12/11/12 12:41	"	**82 "**	**1.0**	
Total Settleable Solids	SM2540F	AL20619	11/30/12 13:10	11/30/12 17:31	"	**0.10 ml/l/hr**	**0.10**	
Total Organic Carbon	SM5310C	AL21334	12/13/12 09:44	12/14/12 18:37	"	**3.33 mg/l**	**0.300**	

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:09
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL20324 - General Preparation										
Blank (AL20324-BLK1)				Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AL20324-DUP1)		**Source: 12K1282-04**		Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	336	10	mg/l		328			2.41	30	
Duplicate (AL20324-DUP2)		**Source: 12K1305-02**		Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	876	10	mg/l		900			2.70	30	
Batch AL20526 - General Preparation										
Blank (AL20526-BLK1)				Prepared: 12/05/12 Analyzed: 12/11/12						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AL20526-DUP1)		**Source: 12L0003-01**		Prepared: 12/05/12 Analyzed: 12/11/12						
Total Suspended Solids	18.1	1.0	mg/l		23.0			23.8	30	
Duplicate (AL20526-DUP2)		**Source: 12K1298-01**		Prepared: 12/05/12 Analyzed: 12/11/12						
Total Suspended Solids	172	1.0	mg/l		172			0.291	30	
Batch AL20619 - General Preparation										
Duplicate (AL20619-DUP1)		**Source: 12K1301-01**		Prepared & Analyzed: 11/30/12						
pH	7.19	1.68	pH Units		7.16			0.418	20	T-14
Specific Conductance (EC)	262	20	umhos/cm		262			0.00	10	

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Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21327 - General Preparation										
Blank (AL21327-BLK1)				Prepared: 12/13/12	Analyzed: 12/17/12					
Oil & Grease (HEM)	ND	5.0	mg/l							
LCS (AL21327-BS1)				Prepared: 12/13/12	Analyzed: 12/17/12					
Oil & Grease (HEM)	36.2	5.0	mg/l	40.0		90.5	78-114			
LCS Dup (AL21327-BSD1)				Prepared: 12/13/12	Analyzed: 12/17/12					
Oil & Grease (HEM)	36.4	5.0	mg/l	40.0		91.0	78-114	0.551	18	
Matrix Spike (AL21327-MS1)	**Source: 12L0097-03**			Prepared: 12/13/12	Analyzed: 12/17/12					
Oil & Grease (HEM)	25.2	5.0	mg/l	20.0	ND	112	78-114			
Batch AL21334 - General Prep										
Blank (AL21334-BLK1)				Prepared: 12/13/12	Analyzed: 12/14/12					
Total Organic Carbon	ND	0.300	mg/l							
LCS (AL21334-BS1)				Prepared: 12/13/12	Analyzed: 12/14/12					
Total Organic Carbon	11.0	0.300	mg/l	10.0		110	85-115			
LCS Dup (AL21334-BSD1)				Prepared: 12/13/12	Analyzed: 12/14/12					
Total Organic Carbon	10.9	0.300	mg/l	10.0		109	85-115	0.288	20	
Duplicate (AL21334-DUP1)	**Source: 12L0107-01**			Prepared: 12/13/12	Analyzed: 12/14/12					
Total Organic Carbon	7.61	0.300	mg/l		7.52			1.14	20	
Matrix Spike (AL21334-MS1)	**Source: 12L0107-02**			Prepared: 12/13/12	Analyzed: 12/14/12					
Total Organic Carbon	26.6	0.600	mg/l	20.0	4.83	109	70-130			

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:09
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21334 - General Prep										
Matrix Spike Dup (AL21334-MSD1)		**Source: 12L0107-02**		Prepared: 12/13/12 Analyzed: 12/14/12						
Total Organic Carbon	26.7	0.600	mg/l	20.0	4.83	109	70-130	0.449	20	

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CHEMICAL EXAMINATION REPORT

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Report Date: 01/17/13 12:09
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12K1305	11/30/2012 21:00	SEL HANSONCUP	4500486111

Notes and Definitions

T-14	Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time. Sample was received and analyzed outside of this "window."
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

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ELAP Certificate Numbers 1551 and 2728

17 January 2013

Lehigh Southwest Cement Company
Attn: Scott Renfrew
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
RE: Pond Discharge
Work Order: 12L0337

Enclosed are the results of analyses for samples received by the laboratory on 12/05/12 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sean Foley For Robbie C. Phillips
Project Manager

Alpha Analytical Laboratories Inc.
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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 30- SE	12L0337-03	Water	12/05/12 08:30	12/05/12 21:00

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Bruce Gove
Laboratory Director

1/17/2013

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 30- SE (12L0337-03)			**Sample Type: Water**		**Sampled: 12/05/12 08:30**			
Metals by EPA 200 Series Methods								
Antimony	EPA 200.7	AL21042	12/10/12 11:32	12/12/12 17:39	1	ND mg/l	0.020	
Arsenic	EPA 200.9	"	"	12/13/12 20:47	"	ND "	0.0020	
Barium	EPA 200.7	"	"	12/12/12 17:39	"	**0.089 "**	**0.010**	
Beryllium	"	"	"	"	"	ND "	0.0010	
Cadmium	"	"	"	"	"	ND "	0.010	
Chromium	"	"	"	"	"	ND "	0.010	
Cobalt	"	"	"	"	"	ND "	0.010	
Copper	"	"	"	"	"	ND "	0.020	
Lead	"	"	"	"	"	ND "	0.050	
Mercury	EPA 245.1	AL21339	12/14/12 07:00	12/14/12 10:46	"	ND "	0.0010	
Molybdenum	EPA 200.7	AL21042	12/10/12 11:32	12/12/12 17:39	"	ND "	0.50	
Nickel	"	"	"	"	"	ND "	0.010	
Selenium	EPA 200.9	"	"	12/14/12 12:39	"	**0.0059 "**	**0.0050**	
Silver	EPA 200.7	"	"	12/12/12 17:39	"	ND "	0.010	
Thallium	"	"	"	"	"	ND "	0.20	
Vanadium	"	"	"	"	"	ND "	0.020	
Zinc	"	"	"	"	"	**0.027 "**	**0.020**	
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM)	EPA 1664	AL21763	12/18/12 09:00	12/19/12 13:00	1	ND mg/l	5.0	
pH	SM4500-H+ B	AL21147	12/06/12 12:57	12/06/12 17:27	"	**7.92 pH Units**	**1.68**	T-14
Specific Conductance (EC)	SM2510B	"	"	12/06/12 17:30	"	**1400 umhos/cm**	**20**	
Total Dissolved Solids	SM2540C	AL21025	12/10/12 09:30	12/12/12 13:00	"	**1200 mg/l**	**10**	
Total Suspended Solids	SM2540D	AL21129	12/11/12 08:03	12/13/12 11:30	"	**4.4 "**	**1.0**	
Total Settleable Solids	SM2540F	AL21147	12/06/12 12:57	12/06/12 17:27	"	ND ml/l/hr	0.10	
Total Organic Carbon	SM5310C	AL21733	12/17/12 10:45	12/18/12 20:44	"	**6.53 mg/l**	**1.00**	

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CHEMICAL EXAMINATION REPORT

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Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21042 - Metals Digest										
Blank (AL21042-BLK1)				Prepared: 12/10/12 Analyzed: 12/12/12						
Antimony	ND	0.020	mg/l							
Arsenic	ND	0.0020	"							
Barium	ND	0.010	"							
Beryllium	ND	0.0010	"							
Cadmium	ND	0.010	"							
Chromium	ND	0.010	"							
Cobalt	ND	0.010	"							
Copper	ND	0.020	"							
Lead	ND	0.050	"							
Molybdenum	ND	0.50	"							
Nickel	ND	0.010	"							
Selenium	ND	0.0050	"							
Silver	ND	0.010	"							
Thallium	ND	0.20	"							
Vanadium	ND	0.020	"							
Zinc	ND	0.020	"							
LCS (AL21042-BS1)				Prepared: 12/10/12 Analyzed: 12/12/12						
Antimony	0.188	0.020	mg/l	0.200		94.2	85-115			
Arsenic	0.0200	0.0020	"	0.0200		100	85-115			
Barium	0.188	0.010	"	0.200		94.2	85-115			
Beryllium	0.194	0.0010	"	0.200		97.1	85-115			
Cadmium	0.182	0.010	"	0.200		90.9	85-115			
Chromium	0.191	0.010	"	0.200		95.7	85-115			
Cobalt	0.185	0.010	"	0.200		92.3	85-115			
Copper	0.212	0.020	"	0.200		106	85-115			

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CHEMICAL EXAMINATION REPORT

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Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21042 - Metals Digest										
LCS (AL21042-BS1)				Prepared: 12/10/12 Analyzed: 12/12/12						
Lead	0.192	0.050	"	0.200		95.9	85-115			
Molybdenum	0.190	0.50	"	0.200		95.2	85-115			
Nickel	0.190	0.010	"	0.200		95.0	85-115			
Selenium	0.0202	0.0050	"	0.0200		101	85-115			
Silver	0.193	0.010	"	0.200		96.4	85-115			
Thallium	0.188	0.20	"	0.200		94.2	85-115			
Vanadium	0.181	0.020	"	0.200		90.7	85-115			
Zinc	0.188	0.020	"	0.200		94.2	85-115			
Duplicate (AL21042-DUP1)		**Source: 12L0227-01**		Prepared: 12/10/12 Analyzed: 12/12/12						
Antimony	ND	0.020	mg/l		ND				20	
Arsenic	0.00523	0.0020	"		0.00518			0.909	20	
Barium	0.0628	0.010	"		0.0622			0.985	20	
Beryllium	ND	0.0010	"		ND				20	
Cadmium	ND	0.010	"		ND				20	
Chromium	0.00655	0.010	"		ND				20	
Cobalt	ND	0.010	"		ND				20	
Copper	0.0496	0.020	"		0.0471			5.00	20	
Lead	ND	0.050	"		ND				20	
Molybdenum	0.00869	0.50	"		ND				20	
Nickel	0.162	0.010	"		0.160			1.18	20	
Selenium	ND	0.0050	"		ND				20	
Silver	ND	0.010	"		ND				20	
Thallium	ND	0.20	"		ND				20	
Vanadium	ND	0.020	"		ND				20	
Zinc	0.0926	0.020	"		0.0886			4.41	20	

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Bruce Gove
Laboratory Director

1/17/2013

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21042 - Metals Digest										
Matrix Spike (AL21042-MS1)		**Source: 12L0227-01**		Prepared: 12/10/12 Analyzed: 12/12/12						
Antimony	0.200	0.020	mg/l	0.200	ND	100	70-130			
Arsenic	0.0199	0.0020	"	0.0200	0.00518	73.7	70-130			
Barium	0.262	0.010	"	0.200	0.0622	99.7	70-130			
Beryllium	0.201	0.0010	"	0.200	ND	100	70-130			
Cadmium	0.192	0.010	"	0.200	ND	96.0	70-130			
Chromium	0.206	0.010	"	0.200	ND	99.7	70-130			
Cobalt	0.195	0.010	"	0.200	ND	97.7	70-130			
Copper	0.278	0.020	"	0.200	0.0471	115	70-130			
Lead	0.198	0.050	"	0.200	ND	99.2	80-120			
Molybdenum	0.205	0.50	"	0.200	ND	98.5	70-130			
Nickel	0.360	0.010	"	0.200	0.160	99.9	70-130			
Selenium	0.0161	0.0050	"	0.0200	ND	80.4	70-130			
Silver	0.203	0.010	"	0.200	ND	102	70-130			
Thallium	0.201	0.20	"	0.200	ND	101	70-130			
Vanadium	0.192	0.020	"	0.200	ND	96.0	70-130			
Zinc	0.288	0.020	"	0.200	0.0886	99.9	70-130			
Matrix Spike (AL21042-MS2)		**Source: 12L0337-04**		Prepared: 12/10/12 Analyzed: 12/12/12						
Antimony	0.193	0.020	mg/l	0.200	ND	96.4	70-130			
Arsenic	0.0179	0.0020	"	0.0200	ND	89.4	70-130			
Barium	0.289	0.010	"	0.200	0.101	93.8	70-130			
Beryllium	0.192	0.0010	"	0.200	ND	95.8	70-130			
Cadmium	0.185	0.010	"	0.200	ND	92.5	70-130			
Chromium	0.197	0.010	"	0.200	ND	96.3	70-130			
Cobalt	0.180	0.010	"	0.200	ND	90.0	70-130			
Copper	0.221	0.020	"	0.200	ND	108	70-130			
Lead	0.185	0.050	"	0.200	ND	92.6	80-120			

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Bruce Gove
Laboratory Director

1/17/2013

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21042 - Metals Digest										
Matrix Spike (AL21042-MS2)		**Source: 12L0337-04**		Prepared: 12/10/12 Analyzed: 12/12/12						
Molybdenum	0.205	0.50	"	0.200	ND	97.1	70-130			
Nickel	0.186	0.010	"	0.200	ND	93.0	70-130			
Selenium	0.00582	0.0050	"	0.0200	ND	14.6	70-130			QM-01
Silver	0.200	0.010	"	0.200	ND	100	70-130			
Thallium	0.201	0.20	"	0.200	ND	91.7	70-130			
Vanadium	0.193	0.020	"	0.200	ND	93.8	70-130			
Zinc	0.185	0.020	"	0.200	ND	92.7	70-130			
Matrix Spike Dup (AL21042-MSD1)		**Source: 12L0227-01**		Prepared: 12/10/12 Analyzed: 12/12/12						
Antimony	0.197	0.020	mg/l	0.200	ND	98.7	70-130	1.31	20	
Arsenic	0.0202	0.0020	"	0.0200	0.00518	75.0	70-130	1.37	20	
Barium	0.255	0.010	"	0.200	0.0622	96.5	70-130	2.46	20	
Beryllium	0.197	0.0010	"	0.200	ND	98.7	70-130	1.72	20	
Cadmium	0.187	0.010	"	0.200	ND	93.4	70-130	2.66	20	
Chromium	0.201	0.010	"	0.200	ND	97.3	70-130	2.40	20	
Cobalt	0.190	0.010	"	0.200	ND	94.8	70-130	3.03	20	
Copper	0.272	0.020	"	0.200	0.0471	112	70-130	2.27	20	
Lead	0.196	0.050	"	0.200	ND	97.8	80-120	1.47	20	
Molybdenum	0.204	0.50	"	0.200	ND	97.8	70-130	0.658	20	
Nickel	0.351	0.010	"	0.200	0.160	95.7	70-130	2.37	20	
Selenium	0.0166	0.0050	"	0.0200	ND	83.0	70-130	3.19	20	
Silver	0.199	0.010	"	0.200	ND	99.6	70-130	1.93	20	
Thallium	0.201	0.20	"	0.200	ND	100	70-130	0.283	20	
Vanadium	0.189	0.020	"	0.200	ND	94.3	70-130	1.87	20	
Zinc	0.281	0.020	"	0.200	0.0886	96.4	70-130	2.47	20	
Batch AL21339 - EPA 245.1 Hg Water										

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21339 - EPA 245.1 Hg Water										
Blank (AL21339-BLK1)				Prepared & Analyzed: 12/14/12						
Mercury	ND	0.0010	mg/l							
LCS (AL21339-BS1)				Prepared & Analyzed: 12/14/12						
Mercury	0.00230	0.0010	mg/l	0.00250		92.0	80-120			
Duplicate (AL21339-DUP1)		**Source: 12L0732-01**		Prepared & Analyzed: 12/14/12						
Mercury	ND	0.0010	mg/l		ND				20	
Matrix Spike (AL21339-MS1)		**Source: 12L0732-01**		Prepared & Analyzed: 12/14/12						
Mercury	0.00253	0.0010	mg/l	0.00250	ND	101	60-140			
Matrix Spike Dup (AL21339-MSD1)		**Source: 12L0732-01**		Prepared & Analyzed: 12/14/12						
Mercury	0.00252	0.0010	mg/l	0.00250	ND	101	60-140	0.396	20	

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CHEMICAL EXAMINATION REPORT

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Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21025 - General Preparation										
Blank (AL21025-BLK1)				Prepared: 12/10/12 Analyzed: 12/12/12						
Total Dissolved Solids	ND	10	mg/l							
Duplicate (AL21025-DUP1)		**Source: 12L0293-01**		Prepared: 12/10/12 Analyzed: 12/12/12						
Total Dissolved Solids	299	10	mg/l		287			4.10	30	
Duplicate (AL21025-DUP2)		**Source: 12L0337-03**		Prepared: 12/10/12 Analyzed: 12/12/12						
Total Dissolved Solids	1220	10	mg/l		1240			1.62	30	
Batch AL21129 - General Preparation										
Blank (AL21129-BLK1)				Prepared: 12/11/12 Analyzed: 12/13/12						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AL21129-DUP1)		**Source: 12L0291-01**		Prepared: 12/11/12 Analyzed: 12/13/12						
Total Suspended Solids	17.6	1.0	mg/l		18.8			6.59	30	
Duplicate (AL21129-DUP2)		**Source: 12L0323-01**		Prepared: 12/11/12 Analyzed: 12/13/12						
Total Suspended Solids	90.0	1.0	mg/l		90.0			0.00	30	
Batch AL21147 - General Preparation										
Duplicate (AL21147-DUP1)		**Source: 12L0334-05**		Prepared & Analyzed: 12/06/12						
pH	7.73	1.68	pH Units		7.73			0.00	20	
Specific Conductance (EC)	877	20	umhos/cm		877			0.00	10	

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Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21733 - General Prep										
Blank (AL21733-BLK1)				Prepared: 12/17/12	Analyzed: 12/18/12					
Total Organic Carbon	ND	1.00	mg/l							
LCS (AL21733-BS1)				Prepared: 12/17/12	Analyzed: 12/18/12					
Total Organic Carbon	11.1	1.00	mg/l	10.0		111	85-115			
LCS Dup (AL21733-BSD1)				Prepared: 12/17/12	Analyzed: 12/18/12					
Total Organic Carbon	11.2	1.00	mg/l	10.0		112	85-115	1.05	20	
Duplicate (AL21733-DUP1)		**Source: 12L0323-01**		Prepared: 12/17/12	Analyzed: 12/18/12					
Total Organic Carbon	13.4	1.00	mg/l		13.5			0.851	20	
Matrix Spike (AL21733-MS1)		**Source: 12L0323-02**		Prepared: 12/17/12	Analyzed: 12/18/12					
Total Organic Carbon	35.0	2.00	mg/l	20.0	13.1	109	70-130			
Matrix Spike Dup (AL21733-MSD1)		**Source: 12L0323-02**		Prepared: 12/17/12	Analyzed: 12/18/12					
Total Organic Carbon	37.8	2.00	mg/l	20.0	13.1	124	70-130	7.85	20	
Batch AL21763 - General Preparation										
Blank (AL21763-BLK1)				Prepared: 12/18/12	Analyzed: 12/19/12					
Oil & Grease (HEM)	ND	5.0	mg/l							
LCS (AL21763-BS1)				Prepared: 12/18/12	Analyzed: 12/19/12					
Oil & Grease (HEM)	38.4	5.0	mg/l	40.0		96.0	78-114			
LCS Dup (AL21763-BSD1)				Prepared: 12/18/12	Analyzed: 12/19/12					
Oil & Grease (HEM)	36.7	5.0	mg/l	40.0		91.8	78-114	4.53	18	

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Laboratory Director

1/17/2013

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL21763 - General Preparation										
Matrix Spike (AL21763-MS1)		**Source: 12L0479-02**		Prepared: 12/18/12 Analyzed: 12/19/12						
Oil & Grease (HEM)	23.2	5.0	mg/l	20.0	ND	110	78-114			

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Bruce Gove
Laboratory Director

1/17/2013

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:11
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L0337	12/05/2012 21:00	SEL HANSONCUP	4500486111

Notes and Definitions

QM-01	The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
T-14	Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time. Sample was received and analyzed outside of this "window."
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

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Laboratory Director

1/17/2013

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ELAP Certificate Numbers 1551 and 2728

17 January 2013

Lehigh Southwest Cement Company
Attn: Scott Renfrew
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
RE: Pond Discharge
Work Order: 12L1208

Enclosed are the results of analyses for samples received by the laboratory on 12/26/12 20:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sean Foley For Robbie C. Phillips
Project Manager

Alpha Analytical Laboratories Inc.
e-mail: clientservices@alpha-labs.com
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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:14
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 30	12L1208-07	Water	12/26/12 10:00	12/26/12 20:15

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Bruce Gove
Laboratory Director

1/17/2013

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:14
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 30 (12L1208-07)			**Sample Type: Water**		**Sampled: 12/26/12 10:00**			
Metals by EPA 200 Series Methods								
Antimony	EPA 200.7	AA30751	01/08/13 09:57	01/09/13 15:44	1	ND mg/l	0.020	
Arsenic	EPA 200.9	"	"	01/09/13 18:17	"	ND "	0.0020	
Barium	EPA 200.7	"	"	01/09/13 15:44	"	**0.11 "**	**0.010**	
Beryllium	"	"	"	"	"	ND "	0.0010	
Cadmium	"	"	"	"	"	ND "	0.010	
Chromium	"	"	"	"	"	**0.018 "**	**0.010**	
Cobalt	"	"	"	"	"	ND "	0.010	
Copper	"	"	"	"	"	ND "	0.020	
Lead	"	"	"	"	"	ND "	0.050	
Mercury	EPA 245.1	AA31045	01/11/13 07:15	01/11/13 17:02	"	ND "	0.0010	
Molybdenum	EPA 200.7	AA30751	01/08/13 09:57	01/09/13 15:44	"	ND "	0.50	
Nickel	"	"	"	"	"	**0.021 "**	**0.010**	
Selenium	EPA 200.9	"	"	01/10/13 15:26	"	ND "	0.0050	
Silver	EPA 200.7	"	"	01/09/13 15:44	"	ND "	0.010	
Thallium	"	"	"	"	"	ND "	0.20	
Vanadium	"	"	"	"	"	ND "	0.020	
Zinc	"	"	"	"	"	ND "	0.020	
Conventional Chemistry Parameters by APHA/EPA Methods								
Oil & Grease (HEM)	EPA 1664	AA30222	01/02/13 09:00	01/03/13 09:15	1	ND mg/l	5.0	
pH	SM4500-H+ B	AL22812	12/27/12 13:25	12/27/12 17:00	"	**7.99 pH Units**	**1.68**	T-14
Specific Conductance (EC)	SM2510B	"	"	"	"	**2400 umhos/cm**	**20**	
Total Suspended Solids	SM2540D	AL22809	12/28/12 08:10	01/02/13 14:42	"	**63 mg/l**	**1.0**	
Total Organic Carbon	SM5310C	AA30412	01/04/13 09:00	01/04/13 17:28	"	**1.93 "**	**0.300**	

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1/17/2013

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CHEMICAL EXAMINATION REPORT

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PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:14
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AA30751 - Metals Digest										
Blank (AA30751-BLK1)				Prepared: 01/07/13 Analyzed: 01/08/13						
Antimony	ND	0.020	mg/l							
Arsenic	ND	0.0020	"							
Barium	ND	0.010	"							
Beryllium	ND	0.0010	"							
Cadmium	ND	0.010	"							
Chromium	ND	0.010	"							
Cobalt	ND	0.010	"							
Copper	ND	0.020	"							
Lead	ND	0.050	"							
Molybdenum	ND	0.50	"							
Nickel	ND	0.010	"							
Selenium	ND	0.0050	"							
Silver	ND	0.010	"							
Thallium	ND	0.20	"							
Vanadium	ND	0.020	"							
Zinc	ND	0.020	"							
LCS (AA30751-BS1)				Prepared: 01/07/13 Analyzed: 01/08/13						
Antimony	0.198	0.020	mg/l	0.200		99.0	85-115			
Arsenic	0.0190	0.0020	"	0.0200		95.0	85-115			
Barium	0.188	0.010	"	0.200		94.0	85-115			
Beryllium	0.187	0.0010	"	0.200		93.5	85-115			
Cadmium	0.181	0.010	"	0.200		90.5	85-115			
Chromium	0.192	0.010	"	0.200		95.9	85-115			
Cobalt	0.182	0.010	"	0.200		91.2	85-115			
Copper	0.216	0.020	"	0.200		108	85-115			

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Bruce Gove
Laboratory Director

1/17/2013

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Scott Renfrew

Report Date: 01/17/13 12:14
Project No: -
Project ID: Pond Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
12L1208	12/26/2012 20:15	SEL HANSONCUP	4500486111

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AA30751 - Metals Digest										
LCS (AA30751-BS1)				Prepared: 01/07/13 Analyzed: 01/08/13						
Lead	0.188	0.050	"	0.200		94.0	85-115			
Molybdenum	0.191	0.50	"	0.200		95.6	85-115			
Nickel	0.187	0.010	"	0.200		93.4	85-115			
Selenium	0.0209	0.0050	"	0.0200		105	85-115			
Silver	0.199	0.010	"	0.200		99.7	85-115			
Thallium	0.187	0.20	"	0.200		93.4	85-115			
Vanadium	0.178	0.020	"	0.200		88.8	85-115			
Zinc	0.187	0.020	"	0.200		93.7	85-115			
Duplicate (AA30751-DUP1)		**Source: 13A0092-04**		Prepared: 01/07/13 Analyzed: 01/08/13						
Antimony	ND	0.020	mg/l		ND				20	
Arsenic	ND	0.0020	"		ND				20	
Barium	0.0768	0.010	"		0.0703			8.78	20	
Beryllium	ND	0.0010	"		ND				20	
Cadmium	ND	0.010	"		ND				20	
Chromium	0.00152	0.010	"		ND				20	
Cobalt	ND	0.010	"		ND				20	
Copper	0.00935	0.020	"		ND				20	
Lead	ND	0.050	"		ND				20	
Molybdenum	0.00914	0.50	"		ND				20	
Nickel	0.00303	0.010	"		ND				20	
Selenium	ND	0.0050	"		ND				20	
Silver	ND	0.010	"		ND				20	
Thallium	0.0183	0.20	"		ND				20	
Vanadium	ND	0.020	"		ND				20	
Zinc	0.0302	0.020	"		0.0268			11.8	20	

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Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AA30751 - Metals Digest										
Matrix Spike (AA30751-MS1)	**Source: 13A0092-04**		Prepared: 01/07/13 Analyzed: 01/08/13							
Antimony	0.191	0.020	mg/l	0.200	ND	95.7	70-130			
Arsenic	0.0176	0.0020	"	0.0200	ND	88.0	70-130			
Barium	0.244	0.010	"	0.200	0.0703	86.8	70-130			
Beryllium	0.177	0.0010	"	0.200	ND	88.7	70-130			
Cadmium	0.172	0.010	"	0.200	ND	85.9	70-130			
Chromium	0.181	0.010	"	0.200	ND	90.0	70-130			
Cobalt	0.171	0.010	"	0.200	ND	85.2	70-130			
Copper	0.213	0.020	"	0.200	ND	103	70-130			
Lead	0.171	0.050	"	0.200	ND	85.5	80-120			
Molybdenum	0.188	0.50	"	0.200	ND	89.8	70-130			
Nickel	0.173	0.010	"	0.200	ND	84.8	70-130			
Selenium	0.00501	0.0050	"	0.0200	ND	25.1	70-130			QM-01
Silver	0.192	0.010	"	0.200	ND	95.8	70-130			
Thallium	0.187	0.20	"	0.200	ND	85.4	70-130			
Vanadium	0.170	0.020	"	0.200	ND	84.8	70-130			
Zinc	0.206	0.020	"	0.200	0.0268	89.4	70-130			
Matrix Spike (AA30751-MS2)	**Source: 12L1208-06**		Prepared: 01/08/13 Analyzed: 01/09/13							
Antimony	0.193	0.020	mg/l	0.200	ND	96.6	70-130			
Arsenic	0.0183	0.0020	"	0.0200	ND	86.9	70-130			
Barium	0.294	0.010	"	0.200	0.0979	98.0	70-130			
Beryllium	0.197	0.0010	"	0.200	ND	98.4	70-130			
Cadmium	0.184	0.010	"	0.200	ND	92.2	70-130			
Chromium	0.222	0.010	"	0.200	0.0254	98.2	70-130			
Cobalt	0.183	0.010	"	0.200	ND	90.8	70-130			
Copper	0.226	0.020	"	0.200	ND	107	70-130			
Lead	0.186	0.050	"	0.200	ND	93.0	80-120			

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Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AA30751 - Metals Digest										
Matrix Spike (AA30751-MS2)		**Source: 12L1208-06**		Prepared: 01/08/13 Analyzed: 01/09/13						
Molybdenum	0.238	0.50	"	0.200	ND	97.6	70-130			
Nickel	0.197	0.010	"	0.200	ND	93.9	70-130			
Selenium	0.00380	0.0050	"	0.0200	ND	5.89	70-130			QM-01
Silver	0.196	0.010	"	0.200	ND	98.0	70-130			
Thallium	0.203	0.20	"	0.200	ND	93.0	70-130			
Vanadium	0.211	0.020	"	0.200	ND	98.8	70-130			
Zinc	0.195	0.020	"	0.200	ND	97.6	70-130			
Matrix Spike Dup (AA30751-MSD1)		**Source: 13A0092-04**		Prepared: 01/07/13 Analyzed: 01/08/13						
Antimony	0.200	0.020	mg/l	0.200	ND	100	70-130	4.59	20	
Arsenic	0.0176	0.0020	"	0.0200	ND	88.2	70-130	0.167	20	
Barium	0.259	0.010	"	0.200	0.0703	94.5	70-130	6.08	20	
Beryllium	0.189	0.0010	"	0.200	ND	94.4	70-130	6.22	20	
Cadmium	0.182	0.010	"	0.200	ND	91.1	70-130	5.84	20	
Chromium	0.191	0.010	"	0.200	ND	95.0	70-130	5.32	20	
Cobalt	0.180	0.010	"	0.200	ND	89.5	70-130	4.89	20	
Copper	0.226	0.020	"	0.200	ND	109	70-130	5.82	20	
Lead	0.185	0.050	"	0.200	ND	92.5	80-120	7.87	20	
Molybdenum	0.201	0.50	"	0.200	ND	96.4	70-130	6.72	20	
Nickel	0.187	0.010	"	0.200	ND	91.4	70-130	7.33	20	
Selenium	0.00471	0.0050	"	0.0200	ND	23.6	70-130	6.23	20	QM-01
Silver	0.202	0.010	"	0.200	ND	101	70-130	5.18	20	
Thallium	0.198	0.20	"	0.200	ND	90.9	70-130	5.73	20	
Vanadium	0.180	0.020	"	0.200	ND	90.2	70-130	6.18	20	
Zinc	0.215	0.020	"	0.200	0.0268	94.2	70-130	4.59	20	
Batch AA31045 - EPA 245.1 Hg Water										

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Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AA31045 - EPA 245.1 Hg Water										
Blank (AA31045-BLK1)				Prepared & Analyzed: 01/11/13						
Mercury	ND	0.0010	mg/l							
LCS (AA31045-BS1)				Prepared & Analyzed: 01/11/13						
Mercury	0.00237	0.0010	mg/l	0.00250		94.8	80-120			
Duplicate (AA31045-DUP1)		**Source: 12L1208-01**		Prepared & Analyzed: 01/11/13						
Mercury	ND	0.0010	mg/l		ND				20	
Matrix Spike (AA31045-MS1)		**Source: 12L1208-01**		Prepared & Analyzed: 01/11/13						
Mercury	0.00258	0.0010	mg/l	0.00250	ND	103	60-140			
Matrix Spike Dup (AA31045-MSD1)		**Source: 12L1208-01**		Prepared & Analyzed: 01/11/13						
Mercury	0.00254	0.0010	mg/l	0.00250	ND	102	60-140	1.56	20	

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AA30222 - General Preparation										
Blank (AA30222-BLK1)				Prepared: 01/02/13 Analyzed: 01/03/13						
Oil & Grease (HEM)	ND	5.0	mg/l							
LCS (AA30222-BS1)				Prepared: 01/02/13 Analyzed: 01/03/13						
Oil & Grease (HEM)	38.2	5.0	mg/l	40.0		95.5	78-114			
LCS Dup (AA30222-BSD1)				Prepared: 01/02/13 Analyzed: 01/03/13						
Oil & Grease (HEM)	35.5	5.0	mg/l	40.0		88.8	78-114	7.33	18	
Matrix Spike (AA30222-MS1)		**Source: 12L1208-04**		Prepared: 01/02/13 Analyzed: 01/03/13						
Oil & Grease (HEM)	20.4	5.0	mg/l	20.0	ND	95.5	78-114			
Batch AA30412 - General Prep										
Blank (AA30412-BLK1)				Prepared & Analyzed: 01/04/13						
Total Organic Carbon	ND	0.300	mg/l							
LCS (AA30412-BS1)				Prepared & Analyzed: 01/04/13						
Total Organic Carbon	9.60	0.300	mg/l	10.0		96.0	85-115			
LCS Dup (AA30412-BSD1)				Prepared & Analyzed: 01/04/13						
Total Organic Carbon	9.53	0.300	mg/l	10.0		95.3	85-115	0.703	20	
Duplicate (AA30412-DUP1)		**Source: 12L0977-01**		Prepared & Analyzed: 01/04/13						
Total Organic Carbon	3.50	0.300	mg/l		3.52			0.753	20	
Matrix Spike (AA30412-MS1)		**Source: 12L0977-02**		Prepared & Analyzed: 01/04/13						
Total Organic Carbon	20.5	0.600	mg/l	20.0	1.91	92.9	70-130			

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AA30412 - General Prep										
Matrix Spike Dup (AA30412-MSD1)		**Source: 12L0977-02**		Prepared & Analyzed: 01/04/13						
Total Organic Carbon	20.3	0.600	mg/l	20.0	1.91	92.2	70-130	0.670	20	
Batch AL22809 - General Preparation										
Blank (AL22809-BLK1)				Prepared: 12/28/12 Analyzed: 01/02/13						
Total Suspended Solids	ND	1.0	mg/l							
Duplicate (AL22809-DUP1)		**Source: 12L1184-01**		Prepared: 12/28/12 Analyzed: 01/02/13						
Total Suspended Solids	750	1.0	mg/l		820			8.92	30	
Duplicate (AL22809-DUP2)		**Source: 12L1174-01**		Prepared: 12/28/12 Analyzed: 01/02/13						
Total Suspended Solids	94.0	1.0	mg/l		94.0			0.00	30	
Batch AL22812 - General Preparation										
Duplicate (AL22812-DUP1)		**Source: 12L1222-01**		Prepared & Analyzed: 12/27/12						
Specific Conductance (EC)	155	20	umhos/cm		156			0.643	10	
pH	5.94	1.68	pH Units		5.96			0.336	20	

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Notes and Definitions

QM-01	The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
T-14	Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time. Sample was received and analyzed outside of this "window."
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

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