



*Alpha*

Alpha Analytical Laboratories Inc.

e-mail: [clientservices@alpha-labs.com](mailto: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**

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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

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

**ANALYTICAL REPORT FOR SAMPLES**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
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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### Alpha Analytical Laboratories, Inc.

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

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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
<b>Batch AL20324 - General Preparation</b>										
<b>Blank (AL20324-BLK1)</b>				Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	ND	10	mg/l							
<b>Duplicate (AL20324-DUP1)</b>				Source: 12K1282-04 Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	336	10	mg/l		328			2.41	30	
<b>Duplicate (AL20324-DUP2)</b>				Source: 12K1305-02 Prepared: 12/03/12 Analyzed: 12/06/12						
Total Dissolved Solids	876	10	mg/l		900			2.70	30	
<b>Batch AL20526 - General Preparation</b>										
<b>Blank (AL20526-BLK1)</b>				Prepared: 12/05/12 Analyzed: 12/11/12						
Total Suspended Solids	ND	1.0	mg/l							
<b>Duplicate (AL20526-DUP1)</b>				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	
<b>Duplicate (AL20526-DUP2)</b>				Source: 12K1298-01 Prepared: 12/05/12 Analyzed: 12/11/12						
Total Suspended Solids	172	1.0	mg/l		172			0.291	30	
<b>Batch AL20619 - General Preparation</b>										
<b>Duplicate (AL20619-DUP1)</b>				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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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
<b>Batch AL21327 - General Preparation</b>										
<b>Blank (AL21327-BLK1)</b>				Prepared: 12/13/12 Analyzed: 12/17/12						
Oil & Grease (HEM)	ND	5.0	mg/l							
<b>LCS (AL21327-BS1)</b>				Prepared: 12/13/12 Analyzed: 12/17/12						
Oil & Grease (HEM)	36.2	5.0	mg/l	40.0		90.5	78-114			
<b>LCS Dup (AL21327-BSD1)</b>				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	
<b>Matrix Spike (AL21327-MS1)</b>				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			
<b>Batch AL21334 - General Prep</b>										
<b>Blank (AL21334-BLK1)</b>				Prepared: 12/13/12 Analyzed: 12/14/12						
Total Organic Carbon	ND	0.300	mg/l							
<b>LCS (AL21334-BS1)</b>				Prepared: 12/13/12 Analyzed: 12/14/12						
Total Organic Carbon	11.0	0.300	mg/l	10.0		110	85-115			
<b>LCS Dup (AL21334-BSD1)</b>				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	
<b>Duplicate (AL21334-DUP1)</b>				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	
<b>Matrix Spike (AL21334-MS1)</b>				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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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AL21334 - General Prep</b>										
<b>Matrix Spike Dup (AL21334-MSD1)</b> <b>Source: 12L0107-02</b> 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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**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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