

October 31, 2013

VIA U.S. MAIL AND ELECTRONIC MAIL

Ms. Dyan Whyte
Assistant Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Re: *Quarterly Report (2nd Qtr) for Monitoring – June 27, 2013 Amended Water Code section 13267 Order, Order No. R2-2013-1005-A1, Directive 7*

Dear Ms. Whyte:

Enclosed, pursuant to the Regional Water Quality Control Board, San Francisco Bay Region's, ("Regional Water Board") June 27, 2013 amended Water Code section 13267 Order, Order No. R2-2013-1005-A1, ("Order"), Lehigh Southwest Cement Company ("Lehigh") provides and encloses the Second Quarter Report for monitoring undertaken pursuant to Directive 7 of the Order.

If you or your staff have any questions regarding the above report or enclosed documents, please do not hesitate to contact me or Greg Knapp at Lehigh.

Very truly yours,

Nicole Granquist

Nicole E. Granquist

Cc: Brian Thompson, Regional Water Quality Control Board, San Francisco Bay Region
Greg Knapp, Director Environmental Region West, Lehigh
Scott Rickman, Regional Counsel, Lehigh Hanson

October 30, 2013

Project No. 063-7109-914

Ms. Dyan Whyte
Assistant Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

RE: Quarterly Report, Water Code Section 13267 Order No R2-2013-1005-A1, Order Item No. 7, Lehigh Southwest Cement Company, Permanente Facility, 24001 Stevens Creek Boulevard, Cupertino, CA.

Dear Ms. Whyte:

Golder Associates Inc. (Golder), on behalf of Lehigh Southwest Cement Company (Lehigh), has prepared this Second (2nd) Quarter Summary Report for the Lehigh Permanente Cement Plant and Quarry (Site) located at 24001 Stevens Creek Boulevard in Santa Clara County, California. This report was prepared pursuant to Order Item No. 7 set forth in Water Code section 13267 Order No. R2-2013-1005-A1 (Order) amended by the San Francisco Bay Regional Water Quality Control Board (RWQCB) on June 27, 2013.

1.0 MONITORING REQUIREMENTS

Order Item No. 7 requires the sampling of locations specified on Table 1 below. Table 1 is derived from the Order Item No. 7 Table A.1 sample locations (additional sampling locations are included on Order Table A.1 that pertain to Order Items 8 and 11 and therefore are excluded from Table 1 below). Per Order Item No. 7, sampling was to commence by June 24, 2013; however, given that the final Order was issued near the end of the 2nd Quarter, Lehigh is using samples taken June 11, 2013 to satisfy the quarterly monitoring requirements; the timing of this report also reflects the timing of the final Order. Consistent with the Order, monitoring locations that overlap with outfalls identified in the Sand and Gravel (S&G) permit may be appropriately referenced and are not resampled for Order Item No. 7.

Table 1: Monitoring Requirements and Details

Sample Number ¹	Sample Description	Frequency	Constituents	Sampling Details
1	Downstream Sample Location	Per S&G permit ; Quarterly for PP13 metals ²	S&G Permit Conventional Pollutants (CP) plus CTR PP13 total metals	Quarterly sampling occurred on 6/11/13
6	Pond 30	Per Industrial SW Permit	Industrial SW Permit plus CTR PP13 total metals	Not sampled - no discharge in June
10	Pond 21	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Pond 20 in June
11	Pond 20	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in June
12	Laboratory Parking Lot	Per Industrial SW Permit	Industrial SW Permit	Not sampled - no discharge in June



Sample Number ¹	Sample Description	Frequency	Constituents	Sampling Details
13	DS RW Emergency Bypass	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Emergency Bypass in June
14	Emergency Bypass	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in June
15	DS RW Pond 17	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Pond 17 in June
17	Pond 17 Outfall	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in June
18	DS RW Dinky Shed	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Dinky Shed in June
19	Dinky Shed Overflow	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in June
20	DS RW Pond 9	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit 6/24/13 - 6/30/13; metals sampled on 6/11/13.
21	DS RW Rock Plant Sump	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Rock Plant Sump in June
22	Rock Plant Overflow	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in June
23	Pond 9 Outfall	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit 6/24/13 - 6/30/13; metals sampled on 6/11/13.
24	Pond 13 DS RW	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit 6/24/13 - 6/30/13; metals sampled on 6/11/13.
27	Ponds 13 A/B	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit 6/24/13 - 6/30/13; metals sampled on 6/11/13.
28	DS Pond 4a, inflow to Pond 13	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit 6/24/13 - 6/30/13; metals sampled on 6/11/13.
29	Historic Buried Pipe	Monthly when flowing	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in June
31	Pond 4a	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit 6/24/13 - 6/30/13; metals sampled on 6/11/13.
32	Background	Quarterly	S&G CP plus CTR PP13 total metals	Not sampled - no stream flow when attempted to sample on 6/11/13.

1: 13267 Order Table A.1 Sample Location Designation; DS = downstream, RW = receiving water

2: This sampling location is not required to be sampled per the Sand & Gravel General Permit; thus, only quarterly sampling was performed.

2.0 SAMPLING SUMMARY

Monitoring and sampling was conducted in accordance to Golder's standard operating procedures. As part of S&G permit routine monitoring, 16 of the 21 sample locations listed on Table 1 and shown on Figure 1 are monitored and sampled. The five locations included in Order Item No. 7 that are not covered under the S&G permit are 1) Downstream, 6) Pond 30, 12) Laboratory Parking Lot, 29) Historic Buried Pipe, and 32) Background. The data from the S&G routine monitoring for the 2nd Quarter 2013 was summarized in Lehigh's 2nd Quarter 2013 Self-Monitoring Report (SMR) and submitted to the RWQCB on July 31, 2013 by Lehigh. These data area also included herein.

As noted on Table 1, of the 21 sample locations pertaining to Order Item No. 7, 14 were not sampled as no discharges occurred during June. Golder sampled non S&G permit locations 1 and 32 on June 11, 2013 in addition to the routine S&G sampling locations. The three other non S&G permit locations were not discharging or were dry.

The data from the June 11, 2013 sampling event and the S&G routine data from June 24, 2013 through June 30, 2013 are included on Tables 2 and 3. The laboratory analytical reports are attached. Since it is not required as part of Order Item No. 7, the upstream receiving water sample locations are not summarized on Tables 2 and 3; however, the data is included in the laboratory reports. A duplicate sample of the downstream sample location and a field blank were also collected as part of the June 11, 2013 sampling event. Priority Pollutant 13 metals (PP13 metals), except for mercury, were analyzed via EPA Method 200.8 as the sampling was collected prior to the Order was finalized. Mercury was analyzed via EPA Method 1631E. All metals will be analyzed via EPA Method 1631E/1638 going forward. Also, note that the background laboratory analytical data from June 11, 2013 was originally rejected by Golder based on our quality control review and was not included in the 2nd Quarter SMR. The analytical laboratory subsequently found an error and reissued the report in August 2013. The revised laboratory report is included in the attachments.

3.0 CLOSING

This report has been prepared and reviewed by the undersigned.

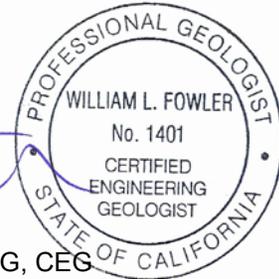
GOLDER ASSOCIATES INC.



George C. Wegmann
Senior Geologist



William L. Fowler, PG, CEG
Principal/Program Leader



cc: Greg Knapp, Lehigh Southwest Cement Company
Nicole Granquist, Downey Brand LLP

Attachments: Figure 1: Item 7 Sample Locations
Table 2: S and G Data Summary
Table 3: Metals Summary
Laboratory Analytical Reports

FIGURES

Map Document: G:\GIS\Lehigh_Quarry\Maps\SurfaceWater\OrderResponse\SamplingLocations_Item7_Overview_201310.mxd / Modified 10/18/2013 2:01:02 PM by DZeimanfahm / Exported 10/30/2013 4:34:06 PM by DZeimanfahm



LEGEND

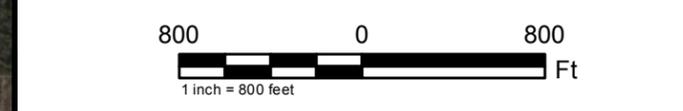
- Item 7 Sample Locations**
- Sand and Gravel Discharge Point
 - General Industrial Stormwater Discharge Point
 - Receiving Water Sample Location
 - Supplemental Monitoring Location
 - Permanente Creek
 - ▭ Pond

NOTES

RW = Receiving Water
DS = Downstream

REFERENCES

- 1) Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
- 2) On site ponds, wetlands, and stream data compiled from WRA, Lehigh, and Golder Associates. Off site hydrography from USGS NHD.
- 3) Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet



PROJECT **LEHIGH SOUTHWEST CEMENT COMPANY
PERMANENTE QUARRY
SAND AND GRAVEL PERMIT**

TITLE **ITEM 7 SAMPLE LOCATIONS**

	PROJECT No.	063-7109-913	FILE No.	SamplingLocations_Item7_Overview_201310.mxd
	DESIGN	DZF	10/18/2013	SCALE: 1:9,600
	GIS	DZF	10/18/2013	REV. 0
	CHECK	GW	10/18/2013	FIGURE 1
	REVIEW	XX	10/18/2013	

TABLES

Table 2: S and G Data Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
2nd Quarter 2013

Sample Location	Sample Description	Units Test Method	Flow Rate		Turbidity NTU Field	pH s.u. Field	Chlorine Residual mg/L Field	Temp C Field	DO mg/L Field	Chloride mg/L EPA 300.0			TSS mg/L SM2540D			Total Set Mat mL/L/hr SM2540F			TDS mg/L SM2540C			O&G mg/L EPA 1664A			Hardness mg/L SM2340B		
			gpm	MGD						Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL
1	Site Downstream Sample	6/11/2013			2.02	8.26		18.95	8.66	24	0.03	0.3							840	5	10				555	1	5
20	Pond 9 Downstream RW	6/11/2013 6/26/2013			1.8 1.86	8.05 8.09		17.56	9.91	21 18	0.6 0.03	10 0.3							890 940	5 5	10 10				573	1	5
23	Pond 9 Discharge	6/11/2013 6/12/2013 6/24/2013 6/25/2013 6/26/2013 6/27/2013 6/28/2013 6/29/2013 6/30/2013	20 20 30 20 20 15 20 20 30	0.03 0.03 0.04 0.03 0.03 0.02 0.03 0.03 0.04	1.66 3.65 12.23 0.87 0.87 7.35 1.28 1.0 12.21	7.51 7.62 7.49 8.02 7.82 7.95 7.82 7.67 7.21	ND ND			58 49	0.75 0.03	12 0.3	0.4 J 3.2	0.3 0.3	1.0 1.0	ND ND	0.10 0.10	0.10 0.10	1000 1200	5 5	10 10	ND ND	0.8 0.8	5 5			
24	Pond 13A/B Downstream RW	6/11/2013 6/26/2013			0.7 0.75	8.21 8.26		20.07	8.6	17 15	0.6 0.03	10 0.3							860 820	5 5	10 10				548	1	5
27	Pond 13A Discharge into 13B	6/11/2013 6/12/2013 6/24/2013 6/25/2013 6/26/2013 6/27/2013 6/28/2013 6/29/2013 6/30/2013	1 1 3 1 1 1 1 1 3	0.001 0.001 0.004 0.001 0.001 0.001 0.001 0.001 0.004	36.1 6.29 4.92 5.38 5.45 6.70 4.69 5.35 3.25	8.21 8.40 8.19 8.33 8.30 8.30 7.72 7.88 6.95	ND ND			62 56	0.75 0.03	12 0.3	31 15	0.3 0.3	1.0 1.0	ND ND	0.10 0.10	0.10 0.10	1200 1300	5 5	10 10	ND ND	0.8 0.8	5 5			
28	Pond 4A Downstream RW	6/11/2013 6/26/2013			0.18 0.76	8.29 8.32		19.16	9.49	18 15	0.6 0.03	10 0.3							820 800	5 5	10 10				563	1	5
31	Pond 4A Discharge	6/11/2013 6/12/2013 6/24/2013 6/25/2013 6/26/2013 6/27/2013 6/28/2013 6/29/2013 6/30/2013	642.27 552.95 429.13 500.23 448.30 440.70 476.17 267.36 317.84	0.92 0.80 0.62 0.72 0.65 0.63 0.69 0.38 0.46	3.60 3.11 5.11 1.91 6.31 3.05 6.47 4.4 5.09	7.97 7.94 7.81 8.13 7.93 7.93 7.95 7.97 7.89	ND ND			16 15	0.6 0.03	10 0.3	1.5 1.8	0.3 0.3	1.0 1.0	ND ND	0.10 0.10	0.10 0.10	920 840	5 5	10 10	ND ND	0.8 0.8	5 5			
32	Wild Violet Creek Background	6/11/2013			1.74	8.23		12.55	10.84	14	0.6	10							300	5	10				286	1	5

Table 3: Metals Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
2nd Quarter 2013

Sample Location	Sample Number	Sample Date	Antimony (ug/L)			Arsenic (ug/L)			Beryllium (ug/L)			Cadmium (ug/L)			Chromium (ug/L)			Copper (ug/L)		
			Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL
			200.8			200.8			200.8			200.8			200.8			200.8		
Downstream Location	1	06/11/2013	2.2	0.020	0.50	0.48 J	0.070	0.50	0.027 J	0.020	0.10	0.10	0.020	0.10	1.1	0.080	0.50	2.3	0.040	0.50
Pond 9 DS RW	20	06/11/2013	2.3	0.020	0.50	0.50	0.070	0.50	ND	0.020	0.10	0.074 J	0.020	0.10	0.93	0.080	0.50	0.80	0.040	0.50
Pond 9	23	06/12/2013	2.4	0.020	0.50	0.59	0.070	0.50	ND	0.020	0.10	0.13	0.020	0.10	0.96	0.080	0.50	0.89	0.040	0.50
Pond 13A/13B DS RW	24	06/11/2013	5.4	0.020	0.50	0.98	0.070	0.50	ND	0.020	0.10	0.094 J	0.020	0.10	ND	0.080	0.50	0.57	0.040	0.50
Pond 13A/13B	27	06/12/2013	0.70	0.020	0.50	1.3	0.070	0.50	0.036 J	0.020	0.10	0.083 J	0.020	0.10	3.6	0.080	0.50	3.7	0.040	0.50
Pond 4A DS RW	28	06/11/2013	5.1	0.020	0.50	1.1	0.070	0.50	ND	0.020	0.10	0.042 J	0.020	0.10	ND	0.080	0.50	0.47 J	0.040	0.50
Pond 4A	31	06/12/2013	5.4	0.020	0.50	1.3	0.070	0.50	ND	0.020	0.10	0.35	0.020	0.10	ND	0.080	0.50	0.72	0.040	0.50
Wild Violet Creek Background	32	06/11/2013	ND	0.020	0.50	0.10 J	0.070	0.50	ND	0.020	0.10	ND	0.020	0.10	ND	0.080	0.50	0.80	0.040	0.50

Notes:

DS = downstream, RW receiving water, US = upstream receiving water

2 = data rejected based on Golder data validation review

For Sample Locations 23, 27, and 31 samples are 24-hr composites except for mercury. All other locations are grab samples.

The date listed for 24-hour composites is the date when sampling was finished.

ND = not detected at or above the laboratory MDL

J = analyte detected above MDL, but below the RL; therefore, result is an estimated concentration detected but not quantified (DNQ)

Mercury samples were collected via "clean hands/dirty hands" EPA sampling method

Table 3: Metals Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
2nd Quarter 2013

Sample Location	Sample Number	Sample Date	Lead (ug/L)			Mercury (ug/L)			Nickel (ug/L)			Selenium (ug/L)			Silver (ug/L)			Thallium (ug/L)			Zinc (ug/L)		
			Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL
			200.8			1631E			200.8			200.8			200.8			200.8			200.8		
Downstream Location	1	06/11/2013	0.44	0.020	0.25	0.00193	0.00020	0.00050	9.0	0.060	0.50	18	0.070	1.0	0.025 J	0.020	0.10	0.065 J	0.020	0.10	180	0.50	5.0
Pond 9 DS RW	20	06/11/2013	0.053 J	0.020	0.25	0.00138 J	0.00020	0.00050	13	0.060	0.50	22	0.070	1.0	ND	0.020	0.10	0.053 J	0.020	0.10	14	0.50	5.0
Pond 9	23	06/11/2013	0.092 J	0.020	0.25	0.00182	0.00020	0.00050	14	0.060	0.50	24	0.070	1.0	ND	0.020	0.10	0.050 J	0.020	0.10	27	0.50	5.0
Pond 13A/13B DS RW	24	06/11/2013	0.047 J	0.020	0.25	0.000379 J	0.00020	0.00050	33	0.060	0.50	26	0.070	1.0	ND	0.020	0.10	0.11	0.020	0.10	15	0.50	5.0
Pond 13A/13B	27	06/11/2013	0.32	0.020	0.25	0.00708	0.00020	0.00050	6.7	0.060	0.50	8.7	0.070	1.0	ND	0.020	0.10	0.041 J	0.020	0.10	51	0.50	5.0
Pond 4A DS RW	28	06/11/2013	ND	0.020	0.25	0.000334 J	0.00020	0.00050	36	0.060	0.50	27	0.070	1.0	ND	0.020	0.10	0.11	0.020	0.10	4.2 J	0.50	5.0
Pond 4A	31	06/11/2013	0.031 J	0.020	0.25	0.00132	0.00020	0.00050	40	0.060	0.50	29	0.070	1.0	ND	0.020	0.10	0.18	0.020	0.10	33	0.50	5.0
Wild Violet Creek Background	32	06/11/2013	0.082 J	0.020	0.25	ND	0.00020	0.00050	0.27 J	0.060	0.50	0.47 J	0.070	1.0	ND	0.020	0.10	ND	0.020	0.10	ND	0.50	5.0

Notes:
DS = downstream, RW receiving water, US = upstream receiving water
2 = data rejected based on Golder data validation review
For Sample Locations 23, 27, and 31 samples are 24-hr composites except for mercury. All other locations are grab samples.
The date listed for 24-hour composites is the date when sampling was finished.
ND = not detected at or above the laboratory MDL
J = analyte detected above MDL, but below the RL; therefore, result is an estimated concentration detected but not quantified (DNQ)
Mercury samples were collected via "clean hands/dirty hands" EPA sampling method

LABORATORY ANALYTICAL RESULTS



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

01 August 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13F0584

Enclosed are the results of analyses for samples received by the laboratory on 06/11/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chelsea L. Sandelin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 EFF M-001	13F0584-01	Water	06/11/13 08:30	06/11/13 21:50
Pond 4 DN R-001A	13F0584-02	Water	06/11/13 13:30	06/11/13 21:50
Pond 13B EFF M-003	13F0584-03	Water	06/11/13 09:20	06/11/13 21:50
Pond 13B DN R-002C	13F0584-04	Water	06/11/13 13:00	06/11/13 21:50
Pond 9 EFF M-002	13F0584-05	Water	06/11/13 14:00	06/11/13 21:50
Pond 9 UP R-001B	13F0584-06	Water	06/11/13 14:05	06/11/13 21:50
Pond 9 DN R-002B	13F0584-07	Water	06/11/13 14:10	06/11/13 21:50
Downstream	13F0584-08	Water	06/11/13 14:30	06/11/13 21:50
Background	13F0584-09	Water	06/11/13 12:00	06/11/13 21:50
Duplicate	13F0584-10	Water	06/11/13 15:00	06/11/13 21:50
Field Blank	13F0584-11	Water	06/11/13 14:45	06/11/13 21:50

This represents an amended copy of the original report.

Sample 13F0584-09 (Background) was re-digested and re-analyzed for the 200.8 metals based upon the client's stated concern that the original results were suspect. An investigation led us to believe the original results were indeed incorrect. JIM
08/01/13

Alpha Analytical Laboratories, Inc.

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 L. Gove
Laboratory Director

8/1/2013



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

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

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109 914 ph 004

Reported:
08/01/13 14:54

Metals by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 DN R-001A (13F0584-02) Water Sampled: 06/11/13 13:30 Received: 06/11/13 21:50											
Calcium	160	0.010	1.0		mg/l	1	AF31430	06/14/13 15:33	06/17/13 18:38	EPA 200.7	
Magnesium	42	0.0080	1.0		"	"	"	"	"	"	
Pond 13B DN R-002C (13F0584-04) Water Sampled: 06/11/13 13:00 Received: 06/11/13 21:50											
Calcium	150	0.010	1.0		mg/l	1	AF31430	06/14/13 15:33	06/17/13 19:12	EPA 200.7	
Magnesium	40	0.0080	1.0		"	"	"	"	"	"	
Pond 9 UP R-001B (13F0584-06) Water Sampled: 06/11/13 14:05 Received: 06/11/13 21:50											
Calcium	160	0.010	1.0		mg/l	1	AF31430	06/14/13 15:33	06/17/13 19:34	EPA 200.7	
Magnesium	43	0.0080	1.0		"	"	"	"	"	"	
Pond 9 DN R-002B (13F0584-07) Water Sampled: 06/11/13 14:10 Received: 06/11/13 21:50											
Calcium	160	0.010	1.0		mg/l	1	AF31430	06/14/13 15:33	06/17/13 19:39	EPA 200.7	
Magnesium	44	0.0080	1.0		"	"	"	"	"	"	
Downstream (13F0584-08) Water Sampled: 06/11/13 14:30 Received: 06/11/13 21:50											
Calcium	150	0.010	1.0		mg/l	1	AF31430	06/14/13 15:33	06/17/13 19:44	EPA 200.7	
Magnesium	43	0.0080	1.0		"	"	"	"	"	"	
Background (13F0584-09) Water Sampled: 06/11/13 12:00 Received: 06/11/13 21:50											
Calcium	78	0.010	1.0		mg/l	1	AF31430	06/14/13 15:33	06/17/13 19:49	EPA 200.7	
Magnesium	22	0.0080	1.0		"	"	"	"	"	"	
Duplicate (13F0584-10) Water Sampled: 06/11/13 15:00 Received: 06/11/13 21:50											
Calcium	150	0.010	1.0		mg/l	1	AF31430	06/14/13 15:33	06/17/13 19:54	EPA 200.7	
Magnesium	43	0.0080	1.0		"	"	"	"	"	"	

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Bruce L. Gove
Laboratory Director

8/1/2013



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Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

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

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109 914 ph 004

Reported:
08/01/13 14:54

Metals by EPA Method 200.8 ICP/MS
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit							
Pond 4 DN R-001A (13F0584-02) Water Sampled: 06/11/13 13:30 Received: 06/11/13 21:50										
Antimony	5.1	0.020	0.50	ug/l	1	AF31842	06/18/13 14:09	06/19/13 17:09	EPA 200.8	
Arsenic	1.1	0.070	0.50	"	"	"	"	"	"	
Beryllium	ND	0.020	0.10	"	"	"	"	"	"	U
Cadmium	0.042	0.020	0.10	"	"	"	"	"	"	J
Chromium	ND	0.080	0.50	"	"	"	"	"	"	U
Copper	0.47	0.040	0.50	"	"	"	"	"	"	J
Lead	ND	0.020	0.25	"	"	"	"	"	"	U
Nickel	36	0.060	0.50	"	"	"	"	"	"	
Selenium	27	0.070	1.0	"	"	"	"	"	"	
Silver	ND	0.020	0.10	"	"	"	"	"	"	U
Thallium	0.11	0.020	0.10	"	"	"	"	"	"	
Zinc	4.2	0.50	5.0	"	"	"	"	"	"	J
Pond 13B DN R-002C (13F0584-04) Water Sampled: 06/11/13 13:00 Received: 06/11/13 21:50										
Antimony	5.4	0.020	0.50	ug/l	1	AF31842	06/18/13 14:09	06/20/13 21:31	EPA 200.8	
Arsenic	0.98	0.070	0.50	"	"	"	"	"	"	
Beryllium	ND	0.020	0.10	"	"	"	"	"	"	U
Cadmium	0.094	0.020	0.10	"	"	"	"	"	"	J
Chromium	ND	0.080	0.50	"	"	"	"	"	"	U
Copper	0.57	0.040	0.50	"	"	"	"	"	"	
Lead	0.047	0.020	0.25	"	"	"	"	"	"	J
Nickel	33	0.060	0.50	"	"	"	"	"	"	
Selenium	26	0.070	1.0	"	"	"	"	"	"	
Silver	ND	0.020	0.10	"	"	"	"	"	"	U
Thallium	0.11	0.020	0.10	"	"	"	"	"	"	
Zinc	15	0.50	5.0	"	"	"	"	"	"	

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

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109 914 ph 004

Reported:
08/01/13 14:54

Metals by EPA Method 200.8 ICP/MS
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit							
Pond 9 UP R-001B (13F0584-06) Water Sampled: 06/11/13 14:05 Received: 06/11/13 21:50										
Antimony	2.4	0.020	0.50	ug/l	1	AF31842	06/18/13 14:09	06/20/13 21:51	EPA 200.8	
Arsenic	0.59	0.070	0.50	"	"	"	"	"	"	
Beryllium	ND	0.020	0.10	"	"	"	"	"	"	U
Cadmium	0.13	0.020	0.10	"	"	"	"	"	"	
Chromium	0.96	0.080	0.50	"	"	"	"	"	"	
Copper	0.89	0.040	0.50	"	"	"	"	"	"	
Lead	0.092	0.020	0.25	"	"	"	"	"	"	J
Nickel	14	0.060	0.50	"	"	"	"	"	"	
Selenium	24	0.070	1.0	"	"	"	"	"	"	
Silver	ND	0.020	0.10	"	"	"	"	"	"	U
Thallium	0.050	0.020	0.10	"	"	"	"	"	"	J
Zinc	27	0.50	5.0	"	"	"	"	"	"	
Pond 9 DN R-002B (13F0584-07) Water Sampled: 06/11/13 14:10 Received: 06/11/13 21:50										
Antimony	2.3	0.020	0.50	ug/l	1	AF31842	06/18/13 14:09	06/20/13 22:11	EPA 200.8	
Arsenic	0.50	0.070	0.50	"	"	"	"	"	"	
Beryllium	ND	0.020	0.10	"	"	"	"	"	"	U
Cadmium	0.074	0.020	0.10	"	"	"	"	"	"	J
Chromium	0.93	0.080	0.50	"	"	"	"	"	"	
Copper	0.80	0.040	0.50	"	"	"	"	"	"	
Lead	0.053	0.020	0.25	"	"	"	"	"	"	J
Nickel	13	0.060	0.50	"	"	"	"	"	"	
Selenium	22	0.070	1.0	"	"	"	"	"	"	
Silver	ND	0.020	0.10	"	"	"	"	"	"	U
Thallium	0.053	0.020	0.10	"	"	"	"	"	"	J
Zinc	14	0.50	5.0	"	"	"	"	"	"	

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Metals by EPA Method 200.8 ICP/MS
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit							

Downstream (13F0584-08) Water **Sampled: 06/11/13 14:30** **Received: 06/11/13 21:50**

Antimony	2.2	0.020	0.50	ug/l	1	AF31842	06/18/13 14:09	06/24/13 15:05	EPA 200.8	
Arsenic	0.48	0.070	0.50	"	"	"	"	"	"	J
Beryllium	0.027	0.020	0.10	"	"	"	"	"	"	J
Cadmium	0.10	0.020	0.10	"	"	"	"	"	"	
Chromium	1.1	0.080	0.50	"	"	"	"	"	"	
Copper	2.3	0.040	0.50	"	"	"	"	"	"	
Lead	0.44	0.020	0.25	"	"	"	"	"	"	
Nickel	9.0	0.060	0.50	"	"	"	"	"	"	
Selenium	18	0.070	1.0	"	"	"	"	"	"	
Silver	0.025	0.020	0.10	"	"	"	"	"	"	J
Thallium	0.065	0.020	0.10	"	"	"	"	"	"	J
Zinc	180	0.50	5.0	"	"	"	"	"	"	

Background (13F0584-09) Water **Sampled: 06/11/13 12:00** **Received: 06/11/13 21:50**

Antimony	ND	0.020	0.50	ug/l	1	AF31842	07/26/13 14:09	07/30/13 16:32	EPA 200.8	U
Arsenic	0.10	0.070	0.50	"	"	"	"	"	"	J
Beryllium	ND	0.020	0.10	"	"	"	"	"	"	U
Cadmium	ND	0.020	0.10	"	"	"	"	"	"	U
Chromium	ND	0.080	0.50	"	"	"	"	"	"	U
Copper	0.80	0.040	0.50	"	"	"	"	"	"	
Lead	0.082	0.020	0.25	"	"	"	"	"	"	J
Nickel	0.27	0.060	0.50	"	"	"	"	"	"	J
Selenium	0.47	0.070	1.0	"	"	"	"	"	"	J
Silver	ND	0.020	0.10	"	"	"	"	"	"	U
Thallium	ND	0.020	0.10	"	"	"	"	"	"	U
Zinc	ND	0.50	5.0	"	"	"	"	"	"	U

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Metals by EPA Method 200.8 ICP/MS
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit							
Duplicate (13F0584-10) Water Sampled: 06/11/13 15:00 Received: 06/11/13 21:50										
Antimony	2.3	0.020	0.50	ug/l	1	AF31842	06/18/13 14:09	06/24/13 15:45	EPA 200.8	
Arsenic	0.58	0.070	0.50	"	"	"	"	"	"	
Beryllium	0.035	0.020	0.10	"	"	"	"	"	"	J
Cadmium	0.092	0.020	0.10	"	"	"	"	"	"	J
Chromium	0.83	0.080	0.50	"	"	"	"	"	"	
Copper	1.0	0.040	0.50	"	"	"	"	"	"	
Lead	0.10	0.020	0.25	"	"	"	"	"	"	J
Nickel	7.4	0.060	0.50	"	"	"	"	"	"	
Selenium	19	0.070	1.0	"	"	"	"	"	"	
Silver	ND	0.020	0.10	"	"	"	"	"	"	U
Thallium	0.056	0.020	0.10	"	"	"	"	"	"	J
Zinc	17	0.50	5.0	"	"	"	"	"	"	

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

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109 914 ph 004

Reported:
08/01/13 14:54

Metals by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit							
Pond 4 EFF M-001 (13F0584-01) Water Sampled: 06/11/13 08:30 Received: 06/11/13 21:50										
Mercury	1.32	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 14:03	EPA 1631E	
Pond 4 DN R-001A (13F0584-02) Water Sampled: 06/11/13 13:30 Received: 06/11/13 21:50										
Mercury	0.334	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 14:11	EPA 1631E	J
Pond 13B EFF M-003 (13F0584-03) Water Sampled: 06/11/13 09:20 Received: 06/11/13 21:50										
Mercury	7.08	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 14:49	EPA 1631E	
Pond 13B DN R-002C (13F0584-04) Water Sampled: 06/11/13 13:00 Received: 06/11/13 21:50										
Mercury	0.379	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 14:57	EPA 1631E	J
Pond 9 EFF M-002 (13F0584-05) Water Sampled: 06/11/13 14:00 Received: 06/11/13 21:50										
Mercury	1.82	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 15:04	EPA 1631E	
Pond 9 UP R-001B (13F0584-06) Water Sampled: 06/11/13 14:05 Received: 06/11/13 21:50										
Mercury	1.29	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 15:12	EPA 1631E	
Pond 9 DN R-002B (13F0584-07) Water Sampled: 06/11/13 14:10 Received: 06/11/13 21:50										
Mercury	1.38	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 15:20	EPA 1631E	
Downstream (13F0584-08) Water Sampled: 06/11/13 14:30 Received: 06/11/13 21:50										
Mercury	1.93	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 15:27	EPA 1631E	
Background (13F0584-09) Water Sampled: 06/11/13 12:00 Received: 06/11/13 21:50										
Mercury	ND	0.200	0.500	ng/l	1	AF31766	06/26/13 14:00	06/27/13 15:35	EPA 1631E	U

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

**Metals by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Duplicate (13F0584-10) Water Sampled: 06/11/13 15:00 Received: 06/11/13 21:50											
Mercury	2.02	0.200	0.500		ng/l	1	AF31766	06/26/13 14:00	06/27/13 15:50	EPA 1631E	
Field Blank (13F0584-11) Water Sampled: 06/11/13 14:45 Received: 06/11/13 21:50											
Mercury	ND	0.200	0.500		ng/l	1	AF31766	06/26/13 14:00	06/27/13 15:42	EPA 1631E	U

Alpha Analytical Laboratories, Inc.

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

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109 914 ph 004

Reported:
08/01/13 14:54

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 EFF M-001 (13F0584-01) Water Sampled: 06/11/13 08:30 Received: 06/11/13 21:50											
Oil & Grease (HEM)	1.2	0.80	5.0		mg/l	1	AF31313	06/13/13 09:00	06/19/13 15:30	EPA 1664	J
Total Dissolved Solids	920	5.0	10		"	"	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	5.6	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	"	"	"	SM2540F	U
Pond 4 DN R-001A (13F0584-02) Water Sampled: 06/11/13 13:30 Received: 06/11/13 21:50											
Oil & Grease (HEM)	1.1	0.80	5.0		mg/l	1	AF31313	06/13/13 09:00	06/19/13 15:30	EPA 1664	J
Total Dissolved Solids	820	5.0	10		"	"	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	1.3	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Hardness, Total	563	1	5		mg/l	"	AF31430	06/14/13 15:33	06/17/13 18:38	SM2340B	
Pond 13B EFF M-003 (13F0584-03) Water Sampled: 06/11/13 09:20 Received: 06/11/13 21:50											
Oil & Grease (HEM)	1.5	0.80	5.0		mg/l	1	AF31313	06/13/13 09:00	06/19/13 15:30	EPA 1664	J
Total Dissolved Solids	1200	5.0	10		"	"	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	7.4	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	"	"	"	SM2540F	U
Pond 13B DN R-002C (13F0584-04) Water Sampled: 06/11/13 13:00 Received: 06/11/13 21:50											
Oil & Grease (HEM)	1.2	0.80	5.0		mg/l	1	AF31313	06/13/13 09:00	06/19/13 15:30	EPA 1664	J
Total Dissolved Solids	860	5.0	10		"	"	AF31817	06/18/13 09:30	06/24/13 16:30	SM2540C	
Turbidity	0.34	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Hardness, Total	548	1	5		mg/l	"	AF31430	06/14/13 15:33	06/17/13 19:12	SM2340B	
Pond 9 EFF M-002 (13F0584-05) Water Sampled: 06/11/13 14:00 Received: 06/11/13 21:50											
Oil & Grease (HEM)	1.2	0.80	5.0		mg/l	1	AF31313	06/13/13 09:00	06/19/13 15:30	EPA 1664	J
Total Dissolved Solids	1000	5.0	10		"	"	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	0.94	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	"	"	"	SM2540F	U

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Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-7109 914 ph 004

Reported:
 08/01/13 14:54

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 UP R-001B (13F0584-06) Water Sampled: 06/11/13 14:05 Received: 06/11/13 21:50											
Oil & Grease (HEM)	1.4	0.80	5.0		mg/l	1	AF31313	06/13/13 09:00	06/19/13 15:30	EPA 1664	J
Total Dissolved Solids	900	5.0	10		"	"	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	1.8	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Hardness, Total	574	1	5		mg/l	"	AF31430	06/14/13 15:33	06/17/13 19:34	SM2340B	
Pond 9 DN R-002B (13F0584-07) Water Sampled: 06/11/13 14:10 Received: 06/11/13 21:50											
Oil & Grease (HEM)	1.6	0.80	5.0		mg/l	1	AF31313	06/13/13 09:00	06/19/13 15:30	EPA 1664	J
Total Dissolved Solids	890	5.0	10		"	"	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	2.1	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Hardness, Total	573	1	5		mg/l	"	AF31430	06/14/13 15:33	06/17/13 19:39	SM2340B	
Downstream (13F0584-08) Water Sampled: 06/11/13 14:30 Received: 06/11/13 21:50											
Total Dissolved Solids	840	5.0	10		mg/l	1	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	3.8	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Hardness, Total	555	1	5		mg/l	"	AF31430	06/14/13 15:33	06/17/13 19:44	SM2340B	
Background (13F0584-09) Water Sampled: 06/11/13 12:00 Received: 06/11/13 21:50											
Total Dissolved Solids	300	5.0	10		mg/l	1	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	2.3	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Hardness, Total	286	1	5		mg/l	"	AF31430	06/14/13 15:33	06/17/13 19:49	SM2340B	
Duplicate (13F0584-10) Water Sampled: 06/11/13 15:00 Received: 06/11/13 21:50											
Total Dissolved Solids	900	5.0	10		mg/l	1	AF31817	06/18/13 09:30	06/20/13 09:00	SM2540C	
Turbidity	4.2	0.050	0.10		NTU	"	AF31233	06/12/13 13:00	06/12/13 17:00	SM2130B	
Hardness, Total	542	1	5		mg/l	"	AF31430	06/14/13 15:33	06/17/13 19:54	SM2340B	

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Bruce L. Gove
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8/1/2013



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

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109 914 ph 004

Reported:
08/01/13 14:54

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 EFF M-001 (13F0584-01) Water Sampled: 06/11/13 08:30 Received: 06/11/13 21:50											
Chloride	16	0.60	10		mg/l	20	AF31252	06/12/13 16:48	06/13/13 13:48	EPA 300.0	
Pond 4 DN R-001A (13F0584-02) Water Sampled: 06/11/13 13:30 Received: 06/11/13 21:50											
Chloride	18	0.60	10		mg/l	20	AF31252	06/12/13 16:48	06/13/13 14:03	EPA 300.0	
Pond 13B EFF M-003 (13F0584-03) Water Sampled: 06/11/13 09:20 Received: 06/11/13 21:50											
Chloride	62	0.75	12		mg/l	25	AF31252	06/12/13 16:48	06/13/13 14:18	EPA 300.0	
Pond 13B DN R-002C (13F0584-04) Water Sampled: 06/11/13 13:00 Received: 06/11/13 21:50											
Chloride	17	0.60	10		mg/l	20	AF31252	06/12/13 16:48	06/13/13 14:33	EPA 300.0	
Pond 9 EFF M-002 (13F0584-05) Water Sampled: 06/11/13 14:00 Received: 06/11/13 21:50											
Chloride	58	0.75	12		mg/l	25	AF31252	06/12/13 16:48	06/13/13 14:48	EPA 300.0	
Pond 9 UP R-001B (13F0584-06) Water Sampled: 06/11/13 14:05 Received: 06/11/13 21:50											
Chloride	19	0.60	10		mg/l	20	AF31252	06/12/13 16:48	06/13/13 15:03	EPA 300.0	
Pond 9 DN R-002B (13F0584-07) Water Sampled: 06/11/13 14:10 Received: 06/11/13 21:50											
Chloride	21	0.60	10		mg/l	20	AF31252	06/12/13 16:48	06/13/13 15:18	EPA 300.0	
Downstream (13F0584-08) Water Sampled: 06/11/13 14:30 Received: 06/11/13 21:50											
Chloride	24	0.60	10		mg/l	20	AF31252	06/12/13 16:48	06/13/13 16:02	EPA 300.0	
Background (13F0584-09) Water Sampled: 06/11/13 12:00 Received: 06/11/13 21:50											
Chloride	14	0.30	5.0		mg/l	10	AF31252	06/12/13 16:48	06/13/13 16:18	EPA 300.0	

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Duplicate (13F0584-10) Water Sampled: 06/11/13 15:00 Received: 06/11/13 21:50											
Chloride	26	0.60	10		mg/l	20	AF31252	06/12/13 16:48	06/13/13 16:49	EPA 300.0	

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 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-7109 914 ph 004

Reported:
 08/01/13 14:54

Metals by EPA 200 Series Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AF31430 - Metals Digest											
Blank (AF31430-BLK1)											
						Prepared: 06/14/13 Analyzed: 06/17/13					
Calcium	ND	0.010	1.0	mg/l							U
Magnesium	ND	0.0080	1.0	"							U
LCS (AF31430-BS1)											
						Prepared: 06/14/13 Analyzed: 06/17/13					
Calcium	5.58	0.010	1.0	mg/l	6.00		93.0	85-115			
Magnesium	7.89	0.0080	1.0	"	8.00		98.7	85-115			
Duplicate (AF31430-DUP1)											
						Source: 13F0584-02 Prepared: 06/14/13 Analyzed: 06/17/13					
Calcium	155	0.010	1.0	mg/l		156			0.857	20	
Magnesium	40.7	0.0080	1.0	"		42.2			3.39	20	
Matrix Spike (AF31430-MS1)											
						Source: 13F0584-02 Prepared: 06/14/13 Analyzed: 06/17/13					
Calcium	163	0.010	1.0	mg/l	6.00	156	126	70-130			
Magnesium	50.0	0.0080	1.0	"	8.00	42.2	97.8	70-130			
Matrix Spike (AF31430-MS2)											
						Source: 13F0643-01 Prepared: 06/14/13 Analyzed: 06/17/13					
Calcium	21.0	0.010	1.0	mg/l	6.00	15.4	93.5	70-130			
Magnesium	39.3	0.0080	1.0	"	8.00	31.5	97.5	70-130			
Matrix Spike Dup (AF31430-MSD1)											
						Source: 13F0584-02 Prepared: 06/14/13 Analyzed: 06/17/13					
Calcium	162	0.010	1.0	mg/l	6.00	156	98.4	70-130	1.01	20	
Magnesium	48.2	0.0080	1.0	"	8.00	42.2	75.4	70-130	3.66	20	

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Metals by EPA Method 200.8 ICP/MS - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AF31842 - EPA 200.8

Blank (AF31842-BLK1)

Prepared: 06/18/13 Analyzed: 06/19/13

Antimony	ND	0.020	0.50	ug/l							U
Arsenic	ND	0.070	0.50	"							U
Beryllium	ND	0.020	0.10	"							U
Cadmium	ND	0.020	0.10	"							U
Chromium	ND	0.080	0.50	"							U
Copper	ND	0.040	0.50	"							U
Lead	ND	0.020	0.25	"							U
Nickel	ND	0.060	0.50	"							U
Selenium	ND	0.070	1.0	"							U
Silver	ND	0.020	0.10	"							U
Thallium	ND	0.020	0.10	"							U
Zinc	ND	0.50	5.0	"							U

LCS (AF31842-BS1)

Prepared: 06/18/13 Analyzed: 06/19/13

Antimony	19.7	0.020	0.50	ug/l	20.0		98.5	85-115			
Arsenic	19.3	0.070	0.50	"	20.0		96.4	85-115			
Beryllium	18.7	0.020	0.10	"	20.0		93.3	85-115			
Cadmium	19.1	0.020	0.10	"	20.0		95.5	85-115			
Chromium	19.2	0.080	0.50	"	20.0		96.2	85-115			
Copper	18.6	0.040	0.50	"	20.0		93.2	85-115			
Lead	19.5	0.020	0.25	"	20.0		97.3	85-115			
Nickel	18.9	0.060	0.50	"	20.0		94.7	85-115			
Selenium	19.3	0.070	1.0	"	20.0		96.3	85-115			
Silver	18.9	0.020	0.10	"	20.0		94.3	85-115			
Thallium	19.1	0.020	0.10	"	20.0		95.6	85-115			
Zinc	106	0.50	5.0	"	100		106	85-115			

Duplicate (AF31842-DUP1)

Source: 13F0584-02

Prepared: 06/18/13 Analyzed: 06/19/13

Antimony	5.10	0.020	0.50	ug/l	5.05			0.864	20		
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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Metals by EPA Method 200.8 ICP/MS - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AF31842 - EPA 200.8

Duplicate (AF31842-DUP1)

Source: 13F0584-02

Prepared: 06/18/13 Analyzed: 06/19/13

Arsenic	0.990	0.070	0.50	ug/l		1.10			10.9	20	
Beryllium	ND	0.020	0.10	"		ND				20	U
Cadmium	0.0450	0.020	0.10	"		0.0415			8.01	20	J
Chromium	ND	0.080	0.50	"		ND				20	U
Copper	0.539	0.040	0.50	"		0.470			13.7	20	
Lead	ND	0.020	0.25	"		ND				20	U
Nickel	35.6	0.060	0.50	"		36.3			1.94	20	
Selenium	27.2	0.070	1.0	"		27.1			0.166	20	
Silver	ND	0.020	0.10	"		ND				20	U
Thallium	0.119	0.020	0.10	"		0.115			3.56	20	
Zinc	4.40	0.50	5.0	"		4.20			4.49	20	J

Matrix Spike (AF31842-MS1)

Source: 13F0584-02

Prepared: 06/18/13 Analyzed: 06/19/13

Antimony	24.5	0.020	0.50	ug/l	20.0	5.05	97.2	70-130			
Arsenic	20.5	0.070	0.50	"	20.0	1.10	97.1	70-130			
Beryllium	18.3	0.020	0.10	"	20.0	ND	91.3	70-130			
Cadmium	18.3	0.020	0.10	"	20.0	0.0415	91.3	70-130			
Chromium	18.5	0.080	0.50	"	20.0	ND	92.4	70-130			
Copper	16.8	0.040	0.50	"	20.0	0.470	81.5	70-130			
Lead	18.4	0.020	0.25	"	20.0	ND	91.9	70-130			
Nickel	51.9	0.060	0.50	"	20.0	36.3	77.9	70-130			
Selenium	46.0	0.070	1.0	"	20.0	27.1	94.5	70-130			
Silver	17.6	0.020	0.10	"	20.0	ND	87.9	70-130			
Thallium	18.4	0.020	0.10	"	20.0	0.115	91.3	70-130			
Zinc	92.6	0.50	5.0	"	100	4.20	88.4	70-130			

Matrix Spike (AF31842-MS2)

Source: 13F0692-03

Prepared: 06/18/13 Analyzed: 06/20/13

Antimony	19.3	0.020	0.50	ug/l	20.0	0.0442	96.4	70-130			
Arsenic	20.5	0.070	0.50	"	20.0	1.51	95.0	70-130			
Beryllium	19.5	0.020	0.10	"	20.0	0.0263	97.4	70-130			

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

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109 914 ph 004

Reported:
08/01/13 14:54

Metals by EPA Method 200.8 ICP/MS - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AF31842 - EPA 200.8

Matrix Spike (AF31842-MS2)

Source: 13F0692-03

Prepared: 06/18/13 Analyzed: 06/20/13

Cadmium	19.1	0.020	0.10	ug/l	20.0	ND	95.5	70-130			
Chromium	19.8	0.080	0.50	"	20.0	0.904	94.4	70-130			
Copper	17.5	0.040	0.50	"	20.0	0.672	84.0	70-130			
Lead	20.4	0.020	0.25	"	20.0	0.0367	102	70-130			
Nickel	19.5	0.060	0.50	"	20.0	0.999	92.7	70-130			
Selenium	19.1	0.070	1.0	"	20.0	0.204	94.2	70-130			
Silver	18.6	0.020	0.10	"	20.0	ND	93.1	70-130			
Thallium	20.6	0.020	0.10	"	20.0	0.0513	103	70-130			
Zinc	108	0.50	5.0	"	100	1.10	106	70-130			

Matrix Spike Dup (AF31842-MSD1)

Source: 13F0584-02

Prepared: 06/18/13 Analyzed: 06/19/13

Antimony	24.9	0.020	0.50	ug/l	20.0	5.05	99.3	70-130	1.64	20	
Arsenic	20.4	0.070	0.50	"	20.0	1.10	96.4	70-130	0.646	20	
Beryllium	18.7	0.020	0.10	"	20.0	ND	93.3	70-130	2.16	20	
Cadmium	18.6	0.020	0.10	"	20.0	0.0415	92.6	70-130	1.50	20	
Chromium	18.9	0.080	0.50	"	20.0	ND	94.5	70-130	2.14	20	
Copper	17.0	0.040	0.50	"	20.0	0.470	82.5	70-130	1.17	20	
Lead	18.8	0.020	0.25	"	20.0	ND	94.0	70-130	2.23	20	
Nickel	52.6	0.060	0.50	"	20.0	36.3	81.6	70-130	1.45	20	
Selenium	46.5	0.070	1.0	"	20.0	27.1	96.6	70-130	0.939	20	
Silver	17.9	0.020	0.10	"	20.0	ND	89.7	70-130	1.96	20	
Thallium	18.6	0.020	0.10	"	20.0	0.115	92.5	70-130	1.35	20	
Zinc	92.1	0.50	5.0	"	100	4.20	87.9	70-130	0.560	20	

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Metals by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AF31766 - EPA 1631											
Blank (AF31766-BLK1)											
						Prepared: 06/26/13 Analyzed: 06/27/13					
Mercury	ND	0.200	0.500	ng/l							U
Mercury	ND	0.200	0.500	"							U
LCS (AF31766-BS1)											
						Prepared: 06/26/13 Analyzed: 06/27/13					
Mercury	4.51	0.200	0.500	ng/l	5.00		90.2	77-123			
Matrix Spike (AF31766-MS1)											
						Source: 13F0584-02 Prepared: 06/26/13 Analyzed: 06/27/13					
Mercury	24.7	0.200	0.500	ng/l	25.0	0.334	97.5	71-125			
Matrix Spike (AF31766-MS2)											
						Source: 13F0584-10 Prepared: 06/26/13 Analyzed: 06/27/13					
Mercury	26.4	0.200	0.500	ng/l	25.0	2.02	97.5	71-125			
Matrix Spike Dup (AF31766-MSD1)											
						Source: 13F0584-02 Prepared: 06/26/13 Analyzed: 06/27/13					
Mercury	24.8	0.200	0.500	ng/l	25.0	0.334	97.9	71-125	0.404	24	
Matrix Spike Dup (AF31766-MSD2)											
						Source: 13F0584-10 Prepared: 06/26/13 Analyzed: 06/27/13					
Mercury	25.6	0.200	0.500	ng/l	25.0	2.02	94.3	71-125	3.08	24	

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Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AF31233 - General Preparation

Duplicate (AF31233-DUP1)

Source: 13F0570-03

Prepared & Analyzed: 06/12/13

Turbidity	0.970	0.050	0.10	NTU		0.970			0.00	30	
Total Settleable Solids	ND	0.10	0.10	ml/l		ND				200	U

Batch AF31313 - General Preparation

Blank (AF31313-BLK1)

Prepared: 06/13/13 Analyzed: 06/19/13

Oil & Grease (HEM)	0.900	0.80	5.0	mg/l							J
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LCS (AF31313-BS1)

Prepared: 06/13/13 Analyzed: 06/19/13

Oil & Grease (HEM)	34.0	0.80	5.0	mg/l	40.0		85.0	78-114			
--------------------	------	------	-----	------	------	--	------	--------	--	--	--

LCS Dup (AF31313-BSD1)

Prepared: 06/13/13 Analyzed: 06/19/13

Oil & Grease (HEM)	33.6	0.80	5.0	mg/l	40.0		84.0	78-114	1.18	18	
--------------------	------	------	-----	------	------	--	------	--------	------	----	--

Matrix Spike (AF31313-MS1)

Source: 13F0584-02

Prepared: 06/13/13 Analyzed: 06/19/13

Oil & Grease (HEM)	18.9	0.80	5.0	mg/l	20.0	1.10	89.0	78-114			
--------------------	------	------	-----	------	------	------	------	--------	--	--	--

Batch AF31430 - Metals Digest

Blank (AF31430-BLK1)

Prepared: 06/14/13 Analyzed: 06/17/13

Hardness, Total	ND	1	5	mg/l							U
-----------------	----	---	---	------	--	--	--	--	--	--	---

Duplicate (AF31430-DUP1)

Source: 13F0584-02

Prepared: 06/14/13 Analyzed: 06/17/13

Hardness, Total	554	1	5	mg/l		563			1.63	20	
-----------------	-----	---	---	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

8/1/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AF31817 - General Preparation

Blank (AF31817-BLK1)

Prepared: 06/18/13 Analyzed: 06/20/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
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Duplicate (AF31817-DUP1)

Source: 13F0570-02

Prepared: 06/18/13 Analyzed: 06/20/13

Total Dissolved Solids	1060	5.0	10	mg/l		1100			3.69	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Duplicate (AF31817-DUP2)

Source: 13F0637-04

Prepared: 06/18/13 Analyzed: 06/20/13

Total Dissolved Solids	230	5.0	10	mg/l		217			5.82	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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8/1/2013



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Dallas TX, 75266-0140	Project Manager: Chow Yip	Reported:
Lehigh Southwest Cement Company	Project: Lehigh S & G Permit	08/01/13 14:54
PO Box 660140 / Attention SSC AP - CEMENT	Project Number: 063-7109 914 ph 004	

Anions by EPA Method 300.0 - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AF31252 - General Preparation											
Blank (AF31252-BLK1) Prepared: 06/12/13 Analyzed: 06/13/13											
Chloride	0.144	0.030	0.50	mg/l							J
LCS (AF31252-BS1) Prepared: 06/12/13 Analyzed: 06/13/13											
Chloride	11.7	0.030	0.50	mg/l	11.1		105	90-110			
Duplicate (AF31252-DUP1) Source: 13F0499-01 Prepared: 06/12/13 Analyzed: 06/13/13											
Chloride	79.4	0.30	5.0	mg/l		79.9			0.590	20	
Matrix Spike (AF31252-MS1) Source: 13F0499-01 Prepared: 06/12/13 Analyzed: 06/13/13											
Chloride	89.2	0.30	5.0	mg/l	11.1	79.9	84.3	80-120			
Matrix Spike (AF31252-MS2) Source: 13F0584-09 Prepared: 06/12/13 Analyzed: 06/13/13											
Chloride	26.7	0.30	5.0	mg/l	11.1	13.8	116	80-120			
Matrix Spike Dup (AF31252-MSD1) Source: 13F0499-01 Prepared: 06/12/13 Analyzed: 06/13/13											
Chloride	95.7	0.30	5.0	mg/l	11.1	79.9	142	80-120	6.97	20	QM-4X

Alpha Analytical Laboratories, Inc.

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8/1/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914 ph 004

Reported:

08/01/13 14:54

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- U Analyte included in analysis, but not detected at or above MDL.
- 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

Alpha Analytical Laboratories, Inc.

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Laboratory Director

8/1/2013



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. 13F0584

PROJECT NO.: 063 7109 914 Ph 004		SITE NAME: Lehigh		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Wilster, Michael Pierce (primed)		SAMPLER(S) SIGNATURE: 		ANALYSES: TDS, Chloride Hardidity Oil + grease hot set mat Handress Safety CTR P13 (cont) 1631 Hg			
CONTRACT LABORATORY: Alpha		CONTAINER INFO: Standard					
TURN-AROUND TIME:		COLLECTION:					
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth	Type/Vol.	Filter Preserv.
Pond 4 EFF M-001		6/11/13	0830	W		1	
Pond 4 Dm R-001A			1330			1	
Pond 13B EFF M-003			0920			1	
Pond 13B Dm R-002			1300			1	
Pond 9 EFF M-002			1400			1	
Pond 9 Up R-001B			1405			1	
Pond 9 Dm R-002B			1410			1	
Downstream			1430			1	
Back-ground			1200			1	
Duplicate			1500			1	
Field Blank			1445			1	
						Cont. Qty. 5 6 5 6 5 6 6 4 4 4	Remarks No metals (B) O+G hold discard O+G hold discard O+G hold discard

SEND RESULTS TO:
 Attn: George Wegmann, Gray Knapp,
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

DATE/TIME:
 6/11/13 16:20h
 6-11-13 18:45
 6-11-13 21:50

RECEIVED BY (SIGNATURE):

RECEIVED BY (SIGNATURE):

RECEIVED BY (SIGNATURE):

RECEIVED BY (SIGNATURE):

RECEIVED BY (SIGNATURE):

RECEIVED BY (SIGNATURE):

Sean Foley@Alpha Labs

From: "Wegmann, George" <George.Wegmann@golder.com>
To: "Sean Foley@Alpha Labs" <sfoley@alpha-labs.com>
Sent: Friday, May 31, 2013 8:23 AM
Subject: RE: 13E0728/Lehigh S&G Permit

CTR PP1-13

Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury - 1631
Nickel
Selenium
Silver
Thallium
Zinc

From: Sean Foley@Alpha Labs [mailto:sfoley@alpha-labs.com]
Sent: Thursday, May 30, 2013 12:18 PM
To: Yip, Chow (Cupertino) USA; Wegmann, George; Maguire, Melanie; Greg Knapp
Subject: 13E0728/Lehigh S&G Permit

Sean Foley
Alpha Analytical Laboratories, Inc
Sample Control
208 Mason St
Ukiah, CA 95482
707-468-0401



Alpha

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ELAP Certificate Numbers 1551 and 2728

27 June 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13F0672

Enclosed are the results of analyses for samples received by the laboratory on 06/12/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Comp	13F0672-01	Water	06/12/13 11:00	06/12/13 21:50
Pond 9 Comp	13F0672-02	Water	06/12/13 12:00	06/12/13 21:50
Pond 13B Comp	13F0672-03	Water	06/12/13 11:30	06/12/13 21:50

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

6/27/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

Metals by EPA Method 200.8 ICP/MS Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A Comp (13F0672-01) Water Sampled: 06/12/13 11:00 Received: 06/12/13 21:50											
Antimony	5.4	0.020	0.50		ug/l	1	AF31425	06/17/13 11:07	06/20/13 19:51	EPA 200.8	
Arsenic	1.3	0.070	0.50		"	"	"	"	"	"	
Beryllium	ND	0.020	0.10		"	"	"	"	"	"	U
Cadmium	0.35	0.020	0.10		"	"	"	"	"	"	
Chromium	ND	0.080	0.50		"	"	"	"	"	"	U
Copper	0.72	0.040	0.50		"	"	"	"	"	"	
Lead	0.031	0.020	0.25		"	"	"	"	"	"	J
Nickel	40	0.060	0.50		"	"	"	"	"	"	
Selenium	29	0.070	1.0		"	"	"	"	"	"	
Silver	ND	0.020	0.10		"	"	"	"	"	"	U
Thallium	0.18	0.020	0.10		"	"	"	"	"	"	
Zinc	33	0.50	5.0		"	"	"	"	"	"	
Pond 9 Comp (13F0672-02) Water Sampled: 06/12/13 12:00 Received: 06/12/13 21:50											
Antimony	0.20	0.020	0.50		ug/l	1	AF31425	06/17/13 11:07	06/20/13 20:11	EPA 200.8	J
Arsenic	0.81	0.070	0.50		"	"	"	"	"	"	
Beryllium	ND	0.020	0.10		"	"	"	"	"	"	U
Cadmium	0.070	0.020	0.10		"	"	"	"	"	"	J
Chromium	ND	0.080	0.50		"	"	"	"	"	"	U
Copper	1.5	0.040	0.50		"	"	"	"	"	"	
Lead	ND	0.020	0.25		"	"	"	"	"	"	U
Nickel	1.4	0.060	0.50		"	"	"	"	"	"	
Selenium	5.4	0.070	1.0		"	"	"	"	"	"	
Silver	ND	0.020	0.10		"	"	"	"	"	"	U
Thallium	0.091	0.020	0.10		"	"	"	"	"	"	J
Zinc	2.3	0.50	5.0		"	"	"	"	"	"	J

Alpha Analytical Laboratories, Inc.

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6/27/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

Metals by EPA Method 200.8 ICP/MS Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 13B Comp (13F0672-03) Water Sampled: 06/12/13 11:30 Received: 06/12/13 21:50											
Antimony	0.70	0.020	0.50		ug/l	1	AF31425	06/17/13 11:07	06/20/13 20:31	EPA 200.8	
Arsenic	1.3	0.070	0.50		"	"	"	"	"	"	
Beryllium	0.036	0.020	0.10		"	"	"	"	"	"	J
Cadmium	0.083	0.020	0.10		"	"	"	"	"	"	J
Chromium	3.6	0.080	0.50		"	"	"	"	"	"	
Copper	3.7	0.040	0.50		"	"	"	"	"	"	
Lead	0.32	0.020	0.25		"	"	"	"	"	"	
Nickel	6.7	0.060	0.50		"	"	"	"	"	"	
Selenium	8.7	0.070	1.0		"	"	"	"	"	"	
Silver	ND	0.020	0.10		"	"	"	"	"	"	U
Thallium	0.041	0.020	0.10		"	"	"	"	"	"	J
Zinc	51	0.50	5.0		"	"	"	"	"	"	

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A Comp (13F0672-01) Water Sampled: 06/12/13 11:00 Received: 06/12/13 21:50											
Total Suspended Solids	1.5	0.30	1.0		mg/l	1	AF31732	06/17/13 09:56	06/18/13 12:27	SM2540D	
Pond 9 Comp (13F0672-02) Water Sampled: 06/12/13 12:00 Received: 06/12/13 21:50											
Total Suspended Solids	0.40	0.30	1.0		mg/l	1	AF31732	06/17/13 09:56	06/18/13 12:27	SM2540D	J
Pond 13B Comp (13F0672-03) Water Sampled: 06/12/13 11:30 Received: 06/12/13 21:50											
Total Suspended Solids	31	0.30	1.0		mg/l	1	AF31732	06/17/13 09:56	06/18/13 12:27	SM2540D	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

6/27/2013

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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

Metals by EPA Method 200.8 ICP/MS - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AF31425 - EPA 200.8

Blank (AF31425-BLK1)

Prepared: 06/14/13 Analyzed: 06/17/13

Antimony	ND	0.020	0.50	ug/l							U
Arsenic	ND	0.070	0.50	"							U
Beryllium	ND	0.020	0.10	"							U
Cadmium	0.0303	0.020	0.10	"							J
Chromium	ND	0.080	0.50	"							U
Copper	ND	0.040	0.50	"							U
Lead	0.0573	0.020	0.25	"							J
Nickel	ND	0.060	0.50	"							U
Selenium	ND	0.070	1.0	"							U
Silver	ND	0.020	0.10	"							U
Thallium	ND	0.020	0.10	"							U
Zinc	ND	0.50	5.0	"							U

LCS (AF31425-BS1)

Prepared: 06/14/13 Analyzed: 06/17/13

Antimony	21.5	0.020	0.50	ug/l	20.0		108	85-115			
Arsenic	21.4	0.070	0.50	"	20.0		107	85-115			
Beryllium	21.2	0.020	0.10	"	20.0		106	85-115			
Cadmium	20.9	0.020	0.10	"	20.0		105	85-115			
Chromium	20.1	0.080	0.50	"	20.0		101	85-115			
Copper	20.4	0.040	0.50	"	20.0		102	85-115			
Lead	20.5	0.020	0.25	"	20.0		103	85-115			
Nickel	20.3	0.060	0.50	"	20.0		101	85-115			
Selenium	21.1	0.070	1.0	"	20.0		105	85-115			
Silver	20.4	0.020	0.10	"	20.0		102	85-115			
Thallium	20.1	0.020	0.10	"	20.0		100	85-115			
Zinc	104	0.50	5.0	"	100		104	85-115			

Duplicate (AF31425-DUP1)

Source: 13F0419-01

Prepared: 06/14/13 Analyzed: 06/17/13

Antimony	ND	0.020	0.50	ug/l		ND			20		U
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Bruce L. Gove
Laboratory Director

6/27/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

Metals by EPA Method 200.8 ICP/MS - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AF31425 - EPA 200.8

Duplicate (AF31425-DUP1)		Source: 13F0419-01			Prepared: 06/14/13 Analyzed: 06/17/13						
Arsenic	ND	0.070	0.50	ug/l	ND					20	U
Beryllium	ND	0.020	0.10	"	ND					20	U
Cadmium	0.0259	0.020	0.10	"	0.0531				69.0	20	J
Chromium	ND	0.080	0.50	"	ND					20	U
Copper	0.233	0.040	0.50	"	0.233				0.0306	20	J
Lead	0.0875	0.020	0.25	"	0.0885				1.15	20	J
Nickel	ND	0.060	0.50	"	ND					20	U
Selenium	ND	0.070	1.0	"	ND					20	U
Silver	0.0299	0.020	0.10	"	ND					20	J
Thallium	ND	0.020	0.10	"	ND					20	U
Zinc	1.42	0.50	5.0	"	0.825				53.1	20	J

Matrix Spike (AF31425-MS1)		Source: 13F0419-01			Prepared: 06/14/13 Analyzed: 06/17/13						
Antimony	21.1	0.020	0.50	ug/l	20.0	ND	105	70-130			
Arsenic	20.9	0.070	0.50	"	20.0	ND	104	70-130			
Beryllium	20.5	0.020	0.10	"	20.0	ND	103	70-130			
Cadmium	19.9	0.020	0.10	"	20.0	0.0531	99.3	70-130			
Chromium	20.0	0.080	0.50	"	20.0	ND	99.8	70-130			
Copper	20.5	0.040	0.50	"	20.0	0.233	101	70-130			
Lead	20.9	0.020	0.25	"	20.0	0.0885	104	70-130			
Nickel	20.1	0.060	0.50	"	20.0	ND	100	70-130			
Selenium	21.0	0.070	1.0	"	20.0	ND	105	70-130			
Silver	19.5	0.020	0.10	"	20.0	ND	97.3	70-130			
Thallium	20.0	0.020	0.10	"	20.0	ND	100	70-130			
Zinc	102	0.50	5.0	"	100	0.825	101	70-130			

Matrix Spike (AF31425-MS2)		Source: 13F0423-01			Prepared: 06/14/13 Analyzed: 06/19/13						
Antimony	21.5	0.020	0.50	ug/l	20.0	1.68	98.8	70-130			
Arsenic	21.1	0.070	0.50	"	20.0	1.30	98.9	70-130			
Beryllium	19.6	0.020	0.10	"	20.0	ND	97.8	70-130			

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

6/27/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

Metals by EPA Method 200.8 ICP/MS - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AF31425 - EPA 200.8

Matrix Spike (AF31425-MS2)

Source: 13F0423-01

Prepared: 06/14/13 Analyzed: 06/19/13

Cadmium	19.2	0.020	0.10	ug/l	20.0	0.0445	95.9	70-130			
Chromium	19.6	0.080	0.50	"	20.0	0.537	95.5	70-130			
Copper	30.2	0.040	0.50	"	20.0	11.9	91.6	70-130			
Lead	20.6	0.020	0.25	"	20.0	0.913	98.3	70-130			
Nickel	21.1	0.060	0.50	"	20.0	2.75	91.7	70-130			
Selenium	19.4	0.070	1.0	"	20.0	0.117	96.5	70-130			
Silver	18.6	0.020	0.10	"	20.0	ND	93.1	70-130			
Thallium	19.2	0.020	0.10	"	20.0	ND	95.9	70-130			
Zinc	122	0.50	5.0	"	100	28.9	93.0	70-130			

Matrix Spike Dup (AF31425-MSD1)

Source: 13F0419-01

Prepared: 06/14/13 Analyzed: 06/17/13

Antimony	21.1	0.020	0.50	ug/l	20.0	ND	106	70-130	0.194	20	
Arsenic	20.7	0.070	0.50	"	20.0	ND	103	70-130	0.979	20	
Beryllium	20.8	0.020	0.10	"	20.0	ND	104	70-130	1.38	20	
Cadmium	20.2	0.020	0.10	"	20.0	0.0531	101	70-130	1.53	20	
Chromium	19.9	0.080	0.50	"	20.0	ND	99.7	70-130	0.128	20	
Copper	20.7	0.040	0.50	"	20.0	0.233	102	70-130	0.864	20	
Lead	20.5	0.020	0.25	"	20.0	0.0885	102	70-130	1.98	20	
Nickel	20.1	0.060	0.50	"	20.0	ND	100	70-130	0.0987	20	
Selenium	20.8	0.070	1.0	"	20.0	ND	104	70-130	1.18	20	
Silver	20.0	0.020	0.10	"	20.0	ND	100	70-130	2.71	20	
Thallium	20.0	0.020	0.10	"	20.0	ND	100	70-130	0.129	20	
Zinc	104	0.50	5.0	"	100	0.825	103	70-130	1.71	20	

Alpha Analytical Laboratories, Inc.

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AF31732 - General Preparation

Blank (AF31732-BLK1)

Prepared: 06/17/13 Analyzed: 06/18/13

Total Suspended Solids	ND	0.30	1.0	mg/l							U
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Duplicate (AF31732-DUP1)

Source: 13F0673-02

Prepared: 06/17/13 Analyzed: 06/18/13

Total Suspended Solids	2.60	0.30	1.0	mg/l	1.80			36.4	30		QD-02
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Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

6/27/2013



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PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

06/27/13 13:21

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QD-02 High duplicate RPD due to sample non-homogeneity.
- U Analyte included in analysis, but not detected at or above MDL.
- 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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

6/27/2013

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Golder Associates CHAIN OF CUSTODY

13F0672

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.: 063-7109-914		SITE NAME: Lehigh STG Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SAMPLER(S): David Walter (contact)		David C. White (signature)		TSS (200.8)		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
CONTRACT LABORATORY: Alpha		Container Info						
TURN-AROUND TIME: Standard								
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol. Filter Preserv.	Cont. Qty	Remarks
		Date	Time					
Pond 4A Comp		6/12/13	1100	W		1 L 50ml	3	See Attached 1st for metals. NO Hy needed per George 6-13-13
Pond 9 Comp			1200			N N	3	
Pond 13B Comp			1130			- H Nbs	3	
Relinquished by (signature): David C. White		Received by (signature): [Signature]		Date/Time: 6/12/13 1445		SEND RESULTS TO:		
Relinquished by (signature): [Signature]		Received by (signature): [Signature]		Date/Time: 6-12-13 1910		Attn: George Wegmann, Greg Knapp, Chow Yip		
Relinquished by (signature): [Signature]		Received by (signature): [Signature]		Date/Time: 6-12-13 2150		Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224		

Sean Foley@Alpha Labs

From: "Wegmann, George" <George_Wegmann@golder.com>
To: "Sean Foley@Alpha Labs" <sfoley@alpha-labs.com>
Sent: Friday, May 31, 2013 8:23 AM
Subject: RE: 13E0728/Lehigh S&G Permit

CTR PP1-13

Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury ~~1631~~
Nickel
Selenium
Silver
Thallium
Zinc

From: Sean Foley@Alpha Labs [mailto:sfoley@alpha-labs.com]
Sent: Thursday, May 30, 2013 12:18 PM
To: Yip, Chow (Cupertino) USA; Wegmann, George; Maguire, Melanie; Greg Knapp
Subject: 13E0728/Lehigh S&G Permit

Sean Foley
Alpha Analytical Laboratories, Inc
Sample Control
208 Mason St
Ukiah, CA 95482
707-468-0401



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ELAP Certificate Numbers 1551 and 2728

18 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13F1336

Enclosed are the results of analyses for samples received by the laboratory on 06/26/13 21:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sean Foley For Robbie C. Phillips
Project Manager



Alpha

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

10/18/13 08:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13F1336-01	Water	06/26/13 11:15	06/26/13 21:55
Pond 4A DN R-001A	13F1336-02	Water	06/26/13 12:30	06/26/13 21:55
Pond 9 EFF M-002	13F1336-03	Water	06/26/13 13:15	06/26/13 21:55
Pond 9 UP R-001B	13F1336-04	Water	06/26/13 13:20	06/26/13 21:55
Pond 9 DN R-002B	13F1336-05	Water	06/26/13 13:25	06/26/13 21:55
Pond 13B M-003	13F1336-06	Water	06/26/13 12:00	06/26/13 21:55
Pond 13B DN R-002C	13F1336-07	Water	06/26/13 12:45	06/26/13 21:55

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/18/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

10/18/13 08:39

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13F1336-01) Water Sampled: 06/26/13 11:15 Received: 06/26/13 21:55											
Total Dissolved Solids	840	5.0	10		mg/l	1	AF32824	06/28/13 14:30	07/03/13 08:45	SM2540C	
Turbidity	3.9	0.050	0.10		NTU	"	AF32719	06/27/13 13:00	06/27/13 17:00	SM2130B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	"	"	"	SM2540F	U
Pond 4A DN R-001A (13F1336-02) Water Sampled: 06/26/13 12:30 Received: 06/26/13 21:55											
Total Dissolved Solids	800	5.0	10		mg/l	1	AF32824	06/28/13 14:30	07/03/13 08:45	SM2540C	
Pond 9 EFF M-002 (13F1336-03) Water Sampled: 06/26/13 13:15 Received: 06/26/13 21:55											
Total Dissolved Solids	1200	5.0	10		mg/l	1	AF32824	06/28/13 14:30	07/03/13 08:45	SM2540C	
Turbidity	1.1	0.050	0.10		NTU	"	AF32719	06/27/13 13:00	06/27/13 17:00	SM2130B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	"	"	"	SM2540F	U
Pond 9 UP R-001B (13F1336-04) Water Sampled: 06/26/13 13:20 Received: 06/26/13 21:55											
Total Dissolved Solids	860	5.0	10		mg/l	1	AF32824	06/28/13 14:30	07/03/13 08:45	SM2540C	
Pond 9 DN R-002B (13F1336-05) Water Sampled: 06/26/13 13:25 Received: 06/26/13 21:55											
Total Dissolved Solids	940	5.0	10		mg/l	1	AF32824	06/28/13 14:30	07/03/13 08:45	SM2540C	
Pond 13B M-003 (13F1336-06) Water Sampled: 06/26/13 12:00 Received: 06/26/13 21:55											
Total Dissolved Solids	1300	5.0	10		mg/l	1	AF32824	06/28/13 14:30	07/03/13 08:45	SM2540C	
Turbidity	15	0.050	0.10		NTU	"	AF32719	06/27/13 13:00	06/27/13 17:00	SM2130B	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	"	"	"	SM2540F	U
Pond 13B DN R-002C (13F1336-07) Water Sampled: 06/26/13 12:45 Received: 06/26/13 21:55											
Total Dissolved Solids	820	5.0	10		mg/l	1	AF32824	06/28/13 14:30	07/03/13 08:45	SM2540C	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

10/18/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

10/18/13 08:39

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13F1336-01) Water Sampled: 06/26/13 11:15 Received: 06/26/13 21:55											
Chloride	15	0.30	5.0		mg/l	10	AF32742	06/27/13 11:30	06/27/13 20:04	EPA 300.0	
Pond 4A DN R-001A (13F1336-02) Water Sampled: 06/26/13 12:30 Received: 06/26/13 21:55											
Chloride	15	0.30	5.0		mg/l	10	AF32742	06/27/13 11:30	06/27/13 20:19	EPA 300.0	
Pond 9 EFF M-002 (13F1336-03) Water Sampled: 06/26/13 13:15 Received: 06/26/13 21:55											
Chloride	49	0.30	5.0		mg/l	10	AF32742	06/27/13 11:30	06/27/13 20:34	EPA 300.0	
Pond 9 UP R-001B (13F1336-04) Water Sampled: 06/26/13 13:20 Received: 06/26/13 21:55											
Chloride	17	0.30	5.0		mg/l	10	AF32742	06/27/13 11:30	06/27/13 21:19	EPA 300.0	
Pond 9 DN R-002B (13F1336-05) Water Sampled: 06/26/13 13:25 Received: 06/26/13 21:55											
Chloride	18	0.30	5.0		mg/l	10	AF32742	06/27/13 11:30	06/27/13 21:34	EPA 300.0	
Pond 13B M-003 (13F1336-06) Water Sampled: 06/26/13 12:00 Received: 06/26/13 21:55											
Chloride	56	0.30	5.0		mg/l	10	AF32742	06/27/13 11:30	06/27/13 21:49	EPA 300.0	
Pond 13B DN R-002C (13F1336-07) Water Sampled: 06/26/13 12:45 Received: 06/26/13 21:55											
Chloride	15	0.30	5.0		mg/l	10	AF32742	06/27/13 11:30	06/27/13 22:04	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/18/2013

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

10/18/13 08:39

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AF32824 - General Preparation

Blank (AF32824-BLK1)

Prepared: 06/28/13 Analyzed: 07/03/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
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Duplicate (AF32824-DUP1)

Source: 13F1408-19

Prepared: 06/28/13 Analyzed: 07/03/13

Total Dissolved Solids	628	5.0	10	mg/l		620			1.28	30	
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Duplicate (AF32824-DUP2)

Source: 13F1422-01

Prepared: 06/28/13 Analyzed: 07/03/13

Total Dissolved Solids	680	5.0	10	mg/l		696			2.33	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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10/18/2013



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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

10/18/13 08:39

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AF32742 - General Preparation											
Blank (AF32742-BLK1)											
					Prepared & Analyzed: 06/27/13						
Chloride	ND	0.030	0.50	mg/l							U
LCS (AF32742-BS1)											
					Prepared & Analyzed: 06/27/13						
Chloride	11.0	0.030	0.50	mg/l	11.1		99.4	90-110			
Duplicate (AF32742-DUP1)											
					Source: 13F1321-03		Prepared & Analyzed: 06/27/13				
Chloride	27.5	0.15	2.5	mg/l		27.5			0.0364	20	
Matrix Spike (AF32742-MS1)											
					Source: 13F1321-03		Prepared & Analyzed: 06/27/13				
Chloride	38.1	0.15	2.5	mg/l	11.1	27.5	95.6	80-120			
Matrix Spike (AF32742-MS2)											
					Source: 13F1384-01		Prepared & Analyzed: 06/27/13				
Chloride	17.5	0.15	2.5	mg/l	11.1	6.52	98.7	80-120			
Matrix Spike Dup (AF32742-MSD1)											
					Source: 13F1321-03		Prepared & Analyzed: 06/27/13				
Chloride	38.4	0.15	2.5	mg/l	11.1	27.5	97.8	80-120	0.639	20	

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove

Bruce L. Gove
Laboratory Director

10/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109 914

Reported:

10/18/13 08:39

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/18/2013

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Golder Associates CHAIN OF CUSTODY

Quote No. **13F1336** Page **1** of **1**
7/26/13

PROJECT NO.:		SITE NAME:		ANALYSES				EDD required?	
063-7109-914		Lehigh Stg		Turbidity TDS, Chloride SS, TDS, Chloride				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Walter (printed)		David C. Kalt (signature)						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY:		Alpha Standard							
TURN-AROUND TIME:									
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.	Remarks
		Date	Time						
Pond 4A Eff M-001		6-26-13	1115	W		1L	500mL/L		2
Pond 4A DN R-001A			1230						1
Pond 9 Eff M-002			1315						1
Pond 9 UP R-001B			1300						1
Pond 9 DN R-002B			1325						1
Pond 13B M-003			1200						1
Pond 13DN R-003C			1245						1
Relinquished by: (signature) David C. Kalt		Received by: (signature) Kalt		Date/Time: 6-26-13 1445				SEND RESULTS TO: Attn: George Wegmann, Greg Knapp, Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by: (signature) A. Walter		Received by: (signature) A. Walter		Date/Time: 6-26-13 1550					
Relinquished by: (signature) A. Walter		Received by: (signature) A. Walter		Date/Time: 6-26-13 2155					

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Turbidity-2130B	(Water)	J-Flags used VERSION 6.07:2012
	Chloride 300.0	(Water)	Result calculations based on MDL
	Handling & Disposal	(Water)	Result calculations based on MDL
	Solids, Sttbl-SM2540	(Water)	Result calculations based on MDL
	Solids, TDS-SM2540C	(Water)	Result calculations based on MDL
	Turbidity-2130B	(Water)	Result calculations based on MDL
	Chloride 300.0	(Water)	J-Flags used
	Handling & Disposal	(Water)	J-Flags used Default Report (not modified)
	Solids, TDS-SM2540C	(Water)	J-Flags used
	Turbidity-2130B	(Water)	Special Units: (NTU)
	Chloride 300.0	(Water)	U-Flags used
	Handling & Disposal	(Water)	U-Flags used
	Solids, Sttbl-SM2540	(Water)	U-Flags used
	Solids, TDS-SM2540C	(Water)	U-Flags used
	Turbidity-2130B	(Water)	U-Flags used
	Chloride 300.0	(Water)	Special Units: (mg/l)
	Handling & Disposal	(Water)	Special Units: (%)
	Solids, Sttbl-SM2540	(Water)	Special Units: (ml/l)
	Solids, TDS-SM2540C	(Water)	Special Units: (mg/l)
	Solids, Sttbl-SM2540	(Water)	J-Flags used



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ELAP Certificate Numbers 1551 and 2728

18 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Pond Discharge

Work Order: 13F1419

Enclosed are the results of analyses for samples received by the laboratory on 06/27/13 21:05. 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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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Pond Discharge

Project Number: Lehigh

Reported:

10/18/13 08:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Comp	13F1419-01	Water	06/27/13 00:00	06/27/13 21:05
Pond 9 Comp	13F1419-02	Water	06/27/13 00:00	06/27/13 21:05
Pond 13B Comp	13F1419-03	Water	06/27/13 00:00	06/27/13 21:05

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

10/18/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Pond Discharge

Project Number: Lehigh

Reported:

10/18/13 08:40

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A Comp (13F1419-01) Water Sampled: 06/27/13 00:00 Received: 06/27/13 21:05											
Total Suspended Solids	1.8	0.30	1.0		mg/l	1	AF32729	06/27/13 14:30	07/01/13 14:26	SM2540D	
Pond 9 Comp (13F1419-02) Water Sampled: 06/27/13 00:00 Received: 06/27/13 21:05											
Total Suspended Solids	3.2	0.30	1.0		mg/l	1	AF32729	06/27/13 14:30	07/01/13 14:26	SM2540D	
Pond 13B Comp (13F1419-03) Water Sampled: 06/27/13 00:00 Received: 06/27/13 21:05											
Total Suspended Solids	15	0.30	1.0		mg/l	1	AF32729	06/27/13 14:30	07/01/13 14:26	SM2540D	

Alpha Analytical Laboratories, Inc.

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Laboratory Director

10/18/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Pond Discharge

Project Number: Lehigh

Reported:

10/18/13 08:40

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AF32729 - General Preparation

Blank (AF32729-BLK1)

Prepared: 06/27/13 Analyzed: 07/01/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AF32729-DUP1)

Source: 13F1313-01

Prepared: 06/27/13 Analyzed: 07/01/13

Total Suspended Solids	338	0.30	0.50	mg/l		338			0.00	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AF32729-DUP2)

Source: 13F1385-01

Prepared: 06/27/13 Analyzed: 07/01/13

Total Suspended Solids	108	0.30	0.50	mg/l		106			2.61	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

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Bruce L. Gove
Laboratory Director

10/18/2013



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Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Pond Discharge

Project Number: Lehigh

Reported:

10/18/13 08:40

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

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

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/18/2013

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Golder Associates CHAIN OF CUSTODY

13F1419

Page 1 of 1

Quotation No.

PROJECT NO:		SITE NAME:		ANALYSES		EDD required?	
behigh		0637109913		[Grid]		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S):		CONTRACT LABORATORY:		CONTAINER INFO		EDF required?	
Michael Pieve <small>(printed)</small>		Alpha Standards		Type/Vol. Filter Preserv.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
TURN-AROUND TIME:		Collection		Type/Vol.		Remarks	
		Date Time		Filter Preserv.			
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth	Cont. Qty.	Remarks
Pod 4 Comp		06/27/13		gr		1	
Road 9 Comp						1	
Road 13B Comp						1	

SEND RESULTS TO:
 Attn: George Wyman, City of Knappton
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Date/Time: 06/27/13 15:15
 Date/Time: 6-27-13 1800
 Date/Time: 6-27-13 2101

Relinquished by: (signature)
 Relinquished by: (signature)
 Relinquished by: (signature)

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	Handling & Disposal	(Water)	Special Units: (%)
	Solids, TSS-SM2540D	(Water)	U-Flags used
	Solids, TSS-SM2540D	(Water)	J-Flags used
	Solids, TSS-SM2540D	(Water)	Result calculations based on MDL
			VERSION 6.07:2012
			This is a modified report