Lehigh Southwest Cement Company
Permanente Plant
24001 Stevens Creek Boulevard
Phone (408) 996-4000
Fax (408) 725-1019
www.lehighcement.com

August 10, 2012

Mr. Danny Pham (dapham@waterboards.ca.gov)
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Re: **2011 – 12 Annual Report – General Industrial Storm Water Permit**
WDID No.: 2 431006267; PID 0126
Lehigh Southwest Cement Company, Cupertino, California

Dear Mr. Pham:

Please find the 2011 – 12 Annual Report – General Industrial Storm Water Permit, WDID No.: 2 431006267; PID 0126, for Lehigh Southwest Cement Company – Permanente Plant.

I would like to apologize for the delay in this report. The delay was due to my confusion with the facility's newly issued Sand & Gravel NPDES Permit. I would like to thank the Board in sending a courtesy reminder to the facility's attention.

Please do not hesitate to contact me with any questions or comments.

Very truly yours,

Scott Renfrew
Environmental Manager
Lehigh Southwest Cement Company - Permanente Plant

Cc: Greg Knapp – Lehigh Hanson
Nicole Granquist – Downey Brand, LLC
Alan Sabawi - LSCC

State of California
STATE WATER RESOURCES CONTROL BOARD

2011-2012

ANNUAL REPORT

FOR
STORM WATER DISCHARGES ASSOCIATED
WITH INDUSTRIAL ACTIVITIES

Reporting Period July 1, 2011 through June 30, 2012

An annual report is required to be submitted to your local Regional Water Quality Control Board (Regional Board) by July 1 of each year. This document must be certified and signed, under penalty of perjury, by the appropriate official of your company. Many of the Annual Report questions require an explanation. Please provide explanations on a separate sheet as an attachment. **Retain a copy of the completed Annual Report for your records.**

Please circle or highlight any information contained in Items A, B, and C below that is new or revised so we can update our records. Please remember that a Notice of Termination and new Notice of Intent are required whenever a facility operation is relocated or changes ownership.

If you have any questions, please contact your Regional Board Industrial Storm Water Permit Contact. The names, telephone numbers and e-mail addresses of the Regional Board contacts, as well as the Regional Board office addresses can be found at http://www.swrcb.ca.gov/stormwtr/contact.html. To find your Regional Board information, match the first digit of your WDID number with the corresponding number that appears in parenthesis on the first line of each Regional Board office.

GENERAL INFORMATION:

A. Facility Information:

Facility WDID No: 2435006267

Facility Business Name: Lehigh Southwest Cement Company
Contact Person: Scott Renfrew
Physical Address: 24001 Stevens Creek Blvd
e-mail: Scott.renfrew@lehighhanson.com
City: Cupertino
CA Zip: 95014 Phone: (408) 996-4262
Standard Industrial Classification (SIC) Code(s): 3241

B. Facility Operator Information:

Operator Name: Lehigh Southwest Cement Company
Contact Person: Alan Sabawi
Mailing Address: 24001 Stevens Creek Blvd
e-mail: Alan.sabawi@lehighhanson.com
City: Cupertino
State: CA Zip: 95014 Phone: (408) 996-4271

C. Facility Billing Information:

Operator Name: Lehigh Southwest Cement Company
Contact Person: Alan Sabawi
Mailing Address: 24001 Stevens Creek Blvd
e-mail: Alan.sabawi@lehighhanson.com
City: Cupertino
State: CA Zip: 95014 Phone: (408) 996-4271

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ANNUAL REPORT

SPECIFIC INFORMATION

MONITORING AND REPORTING PROGRAM

D. SAMPLING AND ANALYSIS EXEMPTIONS AND REDUCTIONS

1. For the reporting period, was your facility exempt from collecting and analyzing samples from **two** storm events in accordance with sections B.12 or 15 of the General Permit?

   ☐ **YES** Go to Item D.2 ☒ **NO** Go to Section E

2. Indicate the reason your facility is exempt from collecting and analyzing samples from **two** storm events. Attach a copy of the first page of the appropriate certification if you check boxes ii, iii, iv, or v.

   i. ☐ Participating in an Approved Group Monitoring Plan **Group Name:** _____

   ii. ☐ Submitted **No Exposure Certification (NEC)** Date Submitted: _____

   Re-evaluation Date: _____

   Does facility continue to satisfy NEC conditions? ☐ YES ☐ NO

   iii. ☐ Submitted **Sampling Reduction Certification (SRC)** Date Submitted: _____

   Re-evaluation Date: _____

   Does facility continue to satisfy SRC conditions? ☐ YES ☐ NO

   iv. ☐ Received Regional Board Certification Certification Date: _____

   v. ☐ Received Local Agency Certification Cetification Date: _____

3. If you checked boxes i or iii above, were you scheduled to sample **one** storm event during the reporting year?

   ☐ **YES** Go to Section E ☐ **NO** Go to Section F

4. If you checked boxes ii, iv, or v, go to Section F.

E. SAMPLING AND ANALYSIS RESULTS

1. How many storm events did you sample? 0 If less than 2, **attach explanation** (if you checked item D.2.i or iii. above, only attach explanation if you answer "0").

2. Did you collect storm water samples from the first storm of the wet season that produced a discharge during scheduled facility operating hours? (Section B.5 of the General Permit)

   ☐ **YES** ☒ **NO, attach explanation** **(Please note that if you do not sample the first storm event, you are still required to sample 2 storm events)**

3. How many storm water discharge locations are at your facility? 2

4. For each storm event sampled, did you collect and analyze a sample from each of the facilitys' storm water discharge locations? ☐ YES, go to Item E.6 ☐ NO

5. Was sample collection or analysis reduced in accordance with Section B.7.d of the General Permit? ☐ YES ☐ NO, **attach explanation**

   If "YES", **attach documentation** supporting your determination that two or more drainage areas are substantially identical.

   Date facility's drainage areas were last evaluated _____

6. Were all samples collected during the first hour of discharge? ☐ YES ☐ NO, **attach explanation**

7. Was all storm water sampling preceded by three (3) working days without a storm water discharge? ☐ YES ☐ NO, **attach explanation**

8. Were there any discharges of stormwater that had been temporarily stored or contained? (such as from a pond) ☐ YES ☐ NO, go to Item E.10

9. Did you collect and analyze samples of temporarily stored or contained storm water discharges from two storm events? (or one storm event if you checked item D.2.i or iii. above) ☐ YES ☐ NO, **attach explanation**

10. Section B.5. of the General Permit requires you to analyze storm water samples for pH, Total Suspended Solids (TSS), Specific Conductance (SC), Total Organic Carbon (TOC) or Oil and Grease (O&G), other pollutants likely to be present in storm water discharges in significant quantities, and analytical parameters listed in Table D of the General Permit.

    a. Does Table D contain any additional parameters related to your facility's SIC code(s)? ☐ YES ☐ NO, Go to Item E.11

    b. Did you analyze all storm water samples for the applicable parameters listed in Table D? ☐ YES ☐ NO

    c. If you did not analyze all storm water samples for the applicable Table D parameters, check one of the following reasons:

    _____ In prior sampling years, the parameter(s) have not been detected in significant quantities from two consecutive sampling events. **Attach explanation**

    _____ The parameter(s) is not likely to be present in storm water discharges and authorized non-storm water discharges in significant quantities based upon the facility operator's evaluation. **Attach explanation**

    _____ Other. **Attach explanation**

11. For each storm event sampled, attach a copy of the laboratory analytical reports and report the sampling and analysis results using **Form 1** or its equivalent. The following must be provided for each sample collected:

- Date and time of sample collection
- Name and title of sampler.
- Parameters tested.
- Name of analytical testing laboratory.
- Discharge location identification.
- Testing results.
- Test methods used.
- Test detection limits.
- Date of testing.
- Copies of the laboratory analytical results.

F. QUARTERLY VISUAL OBSERVATIONS

1. **Authorized Non-Storm Water Discharges**
Section B.3.b of the General Permit requires quarterly visual observations of all authorized non-storm water discharges and their sources.

a. Do authorized non-storm water discharges occur at your facility?

☒ **YES** ☐ **NO** Go to Item F.2

b. Indicate whether you visually observed all authorized non-storm water discharges and their sources during the quarters when they were discharged. **Attach an explanation for any "NO" answers**. Indicate "N/A" for quarters without any authorized non-storm water discharges.

July -September	☒ **YES**	☐ **NO**	☐ **N/A**	October-December	☒ **YES**	☐ **NO**	☐ **N/A**
January-March	☐ **YES**	☒ **NO**	☐ **N/A**	April-June	☐ **YES**	☒ **NO**	☐ **N/A**

c. Use **Form 2** to report quarterly visual observations of authorized non-storm water discharges or provide the following information.

i. name of each authorized non-storm water discharge
ii. date and time of observation
iii. source and location of each authorized non-storm water discharge
iv. characteristics of the discharge at its source and impacted drainage area/discharge location
v. name, title, and signature of observer
vi. **any** new or revised BMPs necessary to reduce or prevent pollutants in authorized non-storm water discharges. Provide new or revised BMP implementation date.

2. **Unauthorized Non-Storm Water Discharges**
Section B.3.a of the General Permit requires quarterly visual observations of all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources.

a. Indicate whether you visually observed all drainage areas to detect the presence of unauthorized non-storm water discharges and their sources. **Attach an explanation for any "NO" answers**.

July -September	☒ **YES**	☐ **NO**	October-December	☒ **YES**	☐ **NO**
January-March	☒ **YES**	☐ **NO**	April-June	☒ **YES**	☐ **NO**

b. Based upon the quarterly visual observations, were any unauthorized non-storm water discharges detected?

☐ **YES** ☒ **NO** Go to item F.2.d

c. Have each of the unauthorized non-storm water discharges been eliminated or permitted?

☒ **YES** ☐ **NO** **Attach explanation**

d. Use **Form 3** to report quarterly unauthorized non-storm water discharge visual observations or provide the following information.

i. name of each unauthorized non-storm water discharge.
ii. date and time of observation.
iii. source and location of each unauthorized non-storm water discharge.
iv. characteristics of the discharge at its source and impacted drainage area/discharge location.
v. name, title, and signature of observer.
vi. **any** corrective actions necessary to eliminate the source of each unauthorized non-storm water discharge and to clean impacted drainage areas. Provide date unauthorized non-storm water discharge(s) was eliminated or scheduled to be eliminated.

G. MONTHLY WET SEASON VISUAL OBSERVATIONS

Section B.4.a of the General Permit requires you to conduct monthly visual observations of storm water discharges at all storm water discharge locations during the wet season. These observations shall occur during the first hour of discharge or, in the case of temporarily stored or contained storm water, at the time of discharge.

1. Indicate below whether monthly visual observations of storm water discharges occurred at all discharge locations. **Attach an explanation for any "NO" answers**. Include in this explanation whether any eligible storm events occurred during scheduled facility operating hours that did not result in a storm water discharge, and provide the date, time, name and title of the person who observed that there was no storm water discharge.

	YES	NO		YES	NO
October	☒	☐	February	☒	☐
November	☒	☐	March	☒	☐
December	☒	☐	April	☒	☐
January	☒	☐	May	☒	☐

2. Report monthly wet season visual observations using **Form 4** or provide the following information.

   a. date, time, and location of observation
   b. name and title of observer
   c. characteristics of the discharge (i.e., odor, color, etc.) and source of any pollutants observed.
   d. **any** new or revised BMPs necessary to reduce or prevent pollutants in storm water discharges. Provide new or revised BMP implementation date.

ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION (ACSCE)

H. ACSCE CHECKLIST

Section A.9 of the General Permit requires the facility operator to conduct one ACSCE in each reporting period (July 1-June 30). Evaluations must be conducted within 8-16 months of each other. The SWPPP and monitoring program shall be revised and implemented, as necessary, within 90 days of the evaluation. The checklist below includes the minimum steps necessary to complete a ACSCE. Indicate whether you have performed each step below. **Attach an explanation for any "NO" answers.**

1. Have you inspected all potential pollutant sources and industrial activities areas? ☒ YES ☐ NO
   The following areas should be inspected:

   - areas where spills and leaks have occured during the last year.
   - outdoor wash and rinse areas.
   - process/manufacturing areas.
   - loading, unloading, and transfer areas.
   - waste storage/disposal areas.
   - dust/particulate generating areas.
   - erosion areas.
   - building repair, remodeling, and construction
   - material storage areas
   - vehicle/equipment storage areas
   - truck parking and access areas
   - rooftop equipment areas
   - vehicle fueling/maintenance areas
   - non-storm water discharge generating areas

2. Have you reviewed your SWPPP to assure that its BMPs address existing potential pollutant sources and industrial activities areas? ☒ YES ☐ NO

3. Have you inspected the entire facility to verify that the SWPPP's site map, is up-to-date? The following site map items should be verified: ☒ YES ☐ NO

   - facility boundaries
   - outline of all storm water drainage areas
   - areas impacted by run-on
   - storm water discharges locations
   - storm water collection and conveyance system
   - structural control measures such as catch basins, berms, containment areas, oil/water separators, etc.

4. Have you reviewed all General Permit compliance records generated since the last annual evaluation? ☒ YES ☐ NO

   The following records should be reviewed:

   - quarterly authorized non-storm water discharge visual observations
   - monthly storm water discharge visual observation
   - records of spills/leaks and associated clean-up/response activities
   - quarterly unauthorized non-storm water discharge visual observations
   - Sampling and Analysis records
   - preventative maintenance inspection and maintenance records

5. Have you reviewed the major elements of the SWPPP to assure compliance with the General Permit? ☒ YES ☐ NO

   The following SWPPP items should be reviewed:

   - pollution prevention team
   - list of significant materials
   - description of potential pollutant sources
   - assessment of potential pollutant sources
   - identification and description of the BMPs to be implemented for each potential pollutant source

6. Have you reviewed your SWPPP to assure that a) the BMPs are adequate in reducing or preventing pollutants in storm water discharges and authorized non-storm water discharges, and b) the BMPs are being implemented? ☒ YES ☐ NO

   The following BMP categories should be reviewed:

   - good housekeeping practices
   - spill response
   - employee training
   - erosion control
   - quality assurance
   - preventative maintenance
   - material handling and storage practices
   - waste handling/storage
   - structural BMPs

7. Has all material handling equipment and equipment needed to implement the SWPPP been inspected? ☒ YES ☐ NO

I. ACSCE EVALUATION REPORT

The facility operator is required to provide an evaluation report that includes:

- identification of personnel performing the evaluation
- the date(s) of the evaluation
- necessary SWPPP revisions
- schedule for implementing SWPPP revisions
- any incidents of non-compliance and the corrective actions taken.

Use **Form 5** to report the results of your evaluation or develop an equivalent form.

J. ACSCE CERTIFICATION

The facility operator is required to certify compliance with the Industrial Activities Storm Water General Permit. To certify compliance, both the SWPPP and Monitoring Program must be up to date and be fully implemented.

Based upon your ACSCE, do you certify compliance with the Industrial Activities Storm Water General Permit? ☒ YES ☐ NO

If you answered "NO" **attach an explanation** to the ACSCE Evaluation Report why you are not in compliance with the Industrial Activities Storm Water General Permit.

ATTACHMENT SUMMARY

Answer the questions below to help you determine what should be attached to this annual report. Answer NA (Not Applicable) to questions 2-4 if you are not required to provide those attachments.

1. Have you attached Forms 1,2,3,4, and 5 or their equivalent?	☒ YES (Mandatory)		
2. If you conducted sampling and analysis, have you attached the laboratory analytical reports?	☐ YES	☐ NO	☒ NA
3. If you checked box II, III, IV, or V in item D.2 of this Annual Report, have you attached the first page of the appropriate certifications?	☐ YES	☐ NO	☒ NA
4. Have you attached an explanation for each "NO" answer in items E.1, E.2, E.5-E.7, E.9, E.10.c, F.1.b, F.2.a, F.2.c, G.1, H.1-H.7, or J?	☒ YES	☐ NO	☐ NA

ANNUAL REPORT CERTIFICATION

I am duly authorized to sign reports required by the INDUSTRIAL ACTIVITIES STORM WATER GENERAL PERMIT (see Standard Provision C.9) and I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: Scott Renfrew

Signature: _____ Date: 08/09/2012

Title: Environmental Manager

DESCRIPTION OF BASIC ANALYTICAL PARAMETERS

The Industrial Activities Storm Water General Permit (General Permit) requires you to analyze storm water samples for at least four parameters. These are pH, Total Suspended Solids (TSS), Specific Conductance (SC),and Total Organic Carbon (TOC). Oil and Grease (O&G) may be substituted for TOC. In addition, you must monitor for any other pollutants which you believe to be present in your storm water discharge as a result of industrial activity and analytical parameters listed in Table D of the General Permit. There are no numeric limitations for the parameters you test for.

The four parameters which the General Permit requires to be tested are considered *indicator* parameters. In other words, regardless of what type of facility you operate, these parameters are nonspecific and general enough to usually provide some indication whether pollutants are present in your storm water discharge. The following briefly explains what each of these parameters mean:

pH is a numeric measure of the hydrogen-ion concentration. The neutral, or acceptable, range is within 6.5 to 8.5. At values less than 6.5, the water is considered acidic; above 8.5 it is considered alkaline or basic. An example of an acidic substance is vinegar, and a alkaline or basic substance is liquid antacid. Pure rainfall tends to have a pH of a little less than 7. There may be sources of materials or industrial activities which could increase or decrease the pH of your storm water discharge. If the pH levels of your storm water discharge are high or low, you should conduct a thorough evaluation of all potential pollutant sources at your site.

Total Suspended Solids (TSS) is a measure of the undissolved solids that are present in your storm water discharge. Sources of TSS include sediment from erosion of exposed land, and dirt from impervious (i.e. paved) areas. Sediment by itself can be very toxic to aquatic life because it covers feeding and breeding grounds, and can smother organisms living on the bottom of a water body. Toxic chemicals and other pollutants also adhere to sediment particles. This provides a medium by which toxic or other pollutants end up in our water ways and ultimately in human and aquatic life. TSS levels vary in runoff from undisturbed land. It has been shown that TSS levels increase significantly due to land development.

Specific Conductance (SC) is a numerical expression of the ability of the water to carry an electric current. SC can be used to assess the degree of mineralization, salinity, or estimate the total dissolved solids concentration of a water sample. Because of air pollution, most rain water has a SC a little above zero. A high SC could affect the usability of waters for drinking, irrigation, and other commercial or industrial use.

Total Organic Carbon (TOC) is a measure of the total organic matter present in water. (All organic matter contains carbon) This test is sensitive and able to detect small concentrations of organic matter. Organic matter is naturally occurring in animals, plants, and man. Organic matter may also be man made (so called synthetic organics). Synthetic organics include pesticides, fuels, solvents, and paints. Natural organic matter utilizes the oxygen in a receiving water to biodegrade. Too much organic matter could place a significant oxygen demand on the water, and possibly impact its quality. Synthetic organics either do not biodegrade or biodegrade very slowly. Synthetic organics are a source of toxic chemicals that can have adverse affects at very low concentrations. Some of these chemicals bioaccumulate in aquatic life. If your levels of TOC are high, you should evaluate all sources of natural or synthetic organics you may use at your site.

Oil and Grease (O&G) is a measure of the amount of oil and grease present in your storm water discharge. At very low concentrations, O&G can cause a sheen (that floating "rainbow") on the surface of water (1 qt. of oil can pollute 250,000 gallons of water). O&G can adversely affect aquatic life and create unsightly floating material and film on water, thus making it undrinkable. Sources of O&G include maintenance shops, vehicles, machines and roadways.

If you have any questions regarding whether or not your constituent concentrations are too high, please contact your local Regional Board office. The United States Environmental Protection Agency (USEPA) has published stormwater discharge benchmarks for a number of parameters. These benchmarks may be helpful when evaluating whether additional BMPs are appropriate. These benchmarks can be accessed at our website at http://www.swrcb.ca.gov. It is contained in the Sampling and Analysis Reduction Certification.

See Storm Water Contacts at

http://www.waterboards.ca.gov/water_issues/programs/stormwater/contact.shtml

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SIDE A

FORM 1-SAMPLING & ANALYSIS RESULTS

FIRST STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S):_____ **TITLE:** _____ **SIGNATURE:** _____

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event									
			BASIC PARAMETERS					OTHER PARAMETERS				
			pH	TSS	SC	O&G	TOC					
	_____ ☐ AM ☐ PM	☐ AM ____ ☐ PM										
	_____ ☐ AM ☐ PM	☐ AM ____ ☐ PM										
	_____ ☐ AM ☐ PM	☐ AM ____ ☐ PM										
	_____ ☐ AM ☐ PM	☐ AM ____ ☐ PM										
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l					
TEST METHOD DETECTION LIMIT:												
TEST METHOD USED:												
ANALYZED BY (SELF/LAB):												

TSS - Total Suspended Solids SC - Specific Conductance O&G - Oil & Grease TOC - Total Organic Carbon

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SIDE B

FORM 1-SAMPLING & ANALYSIS RESULTS

SECOND STORM EVENT

- If analytical results are less than the detection limit (or non detectable), show the value as less than the numerical value of the detection limit (example: <.05)
- If you did not analyze for a required parameter, do not report "0". Instead, leave the appropriate box blank
- When analysis is done using portable analysis (such as portable pH meters, SC meters, etc.), indicate "PA" in the appropriate test method used box.
- Make additional copies of this form as necessary.

NAME OF PERSON COLLECTING SAMPLE(S):_____ **TITLE:** _____ **SIGNATURE:** _____

DESCRIBE DISCHARGE LOCATION Example: NW Out Fall	DATE/TIME OF SAMPLE COLLECTION	TIME DISCHARGE STARTED	ANALYTICAL RESULTS For First Storm Event									
			BASIC PARAMETERS					OTHER PARAMETERS				
			pH	TSS	SC	O&G	TOC					
	_____ ☐ AM _____ ☐ PM	☐ AM _____ ☐ PM										
	_____ ☐ AM _____ ☐ PM	☐ AM _____ ☐ PM										
	_____ ☐ AM _____ ☐ PM	☐ AM _____ ☐ PM										
	_____ ☐ AM _____ ☐ PM	☐ AM _____ ☐ PM										
TEST REPORTING UNITS:			pH Units	mg/l	umho/cm	mg/l	mg/l					
TEST METHOD DETECTION LIMIT:												
TEST METHOD USED:												
ANALYZED BY (SELF/LAB):												

TSS - Total Suspended Solids SC - Specific Conductance O&G - Oil & Grease TOC - Total Organic Carbon

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SIDE A

FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

- Quarterly dry weather visual observations are required of each authorized NSWD.
- Observe each authorized NSWD source, impacted drainage area, and discharge location.
- Authorized NSWDs must meet the conditions provided in Section D (pages 5-6), of the General Permit.
- Make additional copies of this form as necessary.

QUARTER: **JULY-SEPT.** DATE: 7/27/11	**Observers Name:** Scott Renfrew **Title:** Environmental Manager **Signature:**	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?** ☒ **YES** ☐ **NO** If **YES**, complete reverse side of this form.
QUARTER: **OCT.-DEC.** DATE: 10/31/11	**Observers Name:** Scott Renfrew **Title:** Environmental Manager **Signature:**	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?** ☒ **YES** ☐ **NO** If **YES**, complete reverse side of this form.
QUARTER: **JAN.-MARCH** DATE:	**Observers Name:** **Title:** **Signature:**	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?** ☐ **YES** ☒ **NO** If **YES**, complete reverse side of this form.
QUARTER: **APRIL-JUNE** DATE:	**Observers Name:** **Title:** **Signature:**	**WERE ANY AUTHORIZED NSWDs DISCHARGED DURING THIS QUARTER?** ☐ **YES** ☒ **NO** If **YES**, complete reverse side of this form.

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SIDE B

FORM 2-QUARTERLY VISUAL OBSERVATIONS OF AUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

DATE /TIME OF OBSERVATION	SOURCE AND LOCATION OF AUTHORIZED NSWD EXAMPLE: Air conditioner Units on Building C	NAME OF AUTHORIZED NSWD EXAMPLE: Air conditioner condensate	DESCRIBE AUTHORIZED NSWD CHARACTERISTICS Indicate whether authorized NSWD is clear, cloudy, or discolored, causing staining, contains floating objects or an oil sheen, has odors, etc.		DESCRIBE ANY REVISED OR NEW BMPs AND PROVIDE THEIR IMPLEMENTATION DATE
			At the NSWD Source	At the NSWD Drainage Area and Discharge Location	
7/27/11 10:25 ☒ AM ☐ PM	Pond 4A	Groundwater	Cloudy	Clear	In October 2011, pursuant to the Water Code section 13267 Order, a Notice of Intent to be covered under the Sand & Gravel NPDES Permit was submitted for this discharge point; coverage was secured on Nov. 21, 2011, after which time the General Industrial Storm Water Permit no longer applied.
7/27/11 11:50 ☒ AM ☐ PM	Pond 9	Dust Suppression and wash down water	No discharge	No discharge	In July 2011, pursuant to the Water Code section 13267 Order, a Notice of Intent to be covered under the Sand & Gravel NPDES Permit was submitted for this discharge point; coverage was secured on Oct. 28, 2011, after which time the General Industrial Storm Water Permit no longer applied.
10/31/11 9:25 ☒ AM ☐ PM	Pond 4A	Groundwater	Cloudy	Clear	In October 2011, pursuant to the Water Code section 13267 Order, a Notice of Intent to be covered under the Sand & Gravel NPDES Permit was submitted for this discharge point; coverage was secured on Nov. 21, 2011, after which time the General Industrial Storm Water Permit no longer applied.
____ ____ ☐ AM ☐ PM					
____ ____ ☐ AM ☐ PM					

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SIDE A

FORM 3-QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

- Unauthorized NSWDs are discharges (such as wash or rinse waters) that do not meet the conditions provided in Section D (pages 5-6) of the General Permit.
- Quarterly visual observations are required to observe current and detect prior unauthorized NSWDs.
- Quarterly visual observations are required during dry weather and at all facility drainage areas.
- Each unauthorized NSWD source, impacted drainage area, and discharge location must be identified and observed.
- Unauthorized NSWDs that can not be eliminated within 90 days of observation must be reported to the Regional Board in accordance with Section A.10.e of the General Permit.
- Make additional copies of this form as necessary.

QUARTER: **JULY-SEPT.** **DATE/TIME OF OBSERVATIONS** 9/1/11 7:00 ☐ AM ☒ PM	**Observers Name:** Scott Renfrew **Title:** Environmental Manager **Signature:**	**WERE UNAUTHORIZED NSWDs OBSERVED?** ☒ YES ☐ NO **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☐ YES ☒ NO	If **YES** to either question, complete reverse side.
QUARTER: **OCT.-DEC.** **DATE/TIME OF OBSERVATIONS** 10/7/11 4:00 ☐ AM ☒ PM	**Observers Name:** Scott Renfrew **Title:** Environmental Manager **Signature:**	**WERE UNAUTHORIZED NSWDs OBSERVED?** ☒ YES ☐ NO **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☒ YES ☐ NO	If **YES** to either question, complete reverse side.
QUARTER: **JAN.-MARCH** **DATE/TIME OF OBSERVATIONS** _____ __ __ ☐ AM ☐ PM	**Observers Name:** **Title:** **Signature:**	**WERE UNAUTHORIZED NSWDs OBSERVED?** ☐ YES ☒ NO **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☐ YES ☒ NO	If **YES** to either question, complete reverse side.
QUARTER: **APRIL-JUNE** **DATE/TIME OF OBSERVATIONS** _____ __ __ ☐ AM ☐ PM	**Observers Name:** **Title:** **Signature:**	**WERE UNAUTHORIZED NSWDs OBSERVED?** ☐ YES ☒ NO **WERE THERE INDICATIONS OF PRIOR UNAUTHORIZED NSWDs?** ☐ YES ☒ NO	If **YES** to either question, complete reverse side.

2011-2012

ANNUAL REPORT

SIDE B

FORM 3 QUARTERLY VISUAL OBSERVATIONS OF UNAUTHORIZED NON-STORM WATER DISCHARGES (NSWDs)

OBSERVATION DATE (FROM REVERSE SIDE)	NAME OF UNAUTHORIZED NSWD EXAMPLE: Vehicle Wash Water	SOURCE AND LOCATION OF UNAUTHORIZED NSWD EXAMPLE: NW Corner of Parking Lot	DESCRIBE UNAUTHORIZED NSWD CHARACTERISTICS Indicate whether unauthorized NSWD is clear, cloudy, discolored, causing stains; contains floating objects or an oil sheen, has odors, etc.		DESCRIBE CORRECTIVE ACTIONS TO ELIMINATE UNAUTHORIZED NSWD AND TO CLEAN IMPACTED DRAINAGE AREAS. PROVIDE UNAUTHORIZED NSWD ELIMINATION DATE.
			AT THE UNAUTHORIZED NSWD SOURCE	AT THE UNAUTHORIZED NSWD AREA AND DISCHARGE LOCATION	
9/1/2011 8:00 ☐ AM ☒ PM	Reclaim Water System Emergency Discharge	Municipal water line rupture between the County water on-site water pump station and the ½ million gallon water head tank	Clear	Clear	The facility incorporated this potential discharge into a discharge permit for this point, per NPDES Permit No. CAG982001 (Aggregate Mining, Sand Washing, and Sand Offloading General Permit)
10/7/2011 4:00 ☐ AM ☒ PM	Reclaim Water System Emergency Discharge	Raw material storage area was reported to be flooding, based on a storm and the fact that the facility evacuated due to a violent act	Clear	Clear	The facility incorporated this potential discharge into a discharge permit for this point, per NPDES Permit No. CAG982001 (Aggregate Mining, Sand Washing, and Sand Offloading General Permit)
_____ ____ ☐ AM ☐ PM					
_____ ____ ☐ AM ☐ PM					

2011-2012

ANNUAL REPORT

FORM 4-MONTHLY VISUAL OBSERVATIONS OF

SIDE A

STORM WATER DISCHARGES

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: October 03 2011 Observers Name: Scott Renfrew Title: Environmental Manager Signature:	Drainage Location Description	#1 None	#2	#3	#4
	Observation Time	8:00 ☐ P.M. ☒ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Time Discharge Began	None ☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: November____ 2011 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1 None	#2	#3	#4
	Observation Time	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Time Discharge Began	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: December____ 2011 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1 None	#2	#3	#4
	Observation Time	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Time Discharge Began	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: January____ 2012 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1 None	#2	#3	#4
	Observation Time	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Time Discharge Began	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐

2011-2012

ANNUAL REPORT

SIDE B

FORM 4-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION EXAMPLE: Discharge from material storage Area #2	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS EXAMPLE: Oil sheen caused by oil dripped by trucks in vehicle maintenance area.	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
10/3/2011 4:00 ☐ AM ☒ PM	Lehigh Cupertino site	No discharge	NA	NA
_____ ____ ☐ AM ☐ PM				
_____ ____ ☐ AM ☐ PM				
_____ ____ ☐ AM ☐ PM				
_____ ____ ☐ AM ☐ PM				

2011-2012

ANNUAL REPORT

FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

SIDE A

- Storm water discharge visual observations are required for at least one storm event per month between October 1 and May 31.
- Visual observations must be conducted during the first hour of discharge at all discharge locations.
- Discharges of temporarily stored or contained storm water must be observed at the time of discharge.
- Indicate "None" in the first column of this form if you did not conduct a monthly visual observation.
- Make additional copies of this form as necessary.
- Until a monthly visual observation is made, record any eligible storm events that do not result in a storm water discharge and note the date, time, name, and title of who observed there was no storm water discharge.

Observation Date: February ____ 2012 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1 None	#2	#3	#4
	Observation Time	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Time Discharge Began	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: March ____ 2012 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1 None	#2	#3	#4
	Observation Time	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Time Discharge Began	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: April 10 2012 Observers Name: Scott Renfrew Title: Environmental Manager Signature: [signature]	Drainage Location Description	#1 None	#2	#3	#4
	Observation Time	3:00 ☒ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Time Discharge Began	None ☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐
Observation Date: May ____ 2012 Observers Name: _____ Title: _____ Signature: _____	Drainage Location Description	#1 None	#2	#3	#4
	Observation Time	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Time Discharge Began	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.	☐ P.M. ☐ A.M.
	Were Pollutants Observed (If yes, complete reverse side)	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐	YES ☐ NO ☐

2011-2012

ANNUAL REPORT

SIDE B

FORM 4 (Continued)-MONTHLY VISUAL OBSERVATIONS OF STORM WATER DISCHARGES

DATE/TIME OF OBSERVATION (From Reverse Side)	DRAINAGE AREA DESCRIPTION EXAMPLE: Discharge from material storage Area #2	DESCRIBE STORM WATER DISCHARGE CHARACTERISTICS Indicate whether storm water discharge is clear, cloudy, or discolored; causing staining; containing floating objects or an oil sheen, has odors, etc.	IDENTIFY AND DESCRIBE SOURCE(S) OF POLLUTANTS EXAMPLE: Oil sheen caused by oil dripped by trucks in vehicle maintenance area.	DESCRIBE ANY REVISED OR NEW BMPs AND THEIR DATE OF IMPLEMENTATION
4/10/2012 3:00 ☐ AM ☒ PM	Lehigh Cupertino site	No discharge		
_____ ____ ☐ AM ☐ PM				
_____ ____ ☐ AM ☐ PM				
_____ ____ ☐ AM ☐ PM				
_____ ____ ☐ AM ☐ PM				

2011-2012
ANNUAL REPORT

SIDE A

FORM 5-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: 10/24/2011 **INSPECTOR NAME:** Scott Renfrew **TITLE:** Environmental Manager **SIGNATURE:**

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)			Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
Sediment control / Cement Facility	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐YES ☒NO	If yes, to either question, complete the next two columns of this form	None	None
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐YES ☒NO			
Oil and Grease / Cement Facility	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐YES ☒NO	If yes, to either question, complete the next two columns of this form	None	None
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐YES ☒NO			
Sediment control / Quarry and overburden areas	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐YES ☒NO	If yes, to either question, complete the next two columns of this form	None	None
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐YES ☒NO			
Oil and Grease / Quarry and overburden areas	HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED? ☐YES ☒NO	If yes, to either question, complete the next two columns of this form	None	None
	ARE ADDITIONAL/REVISED BMPs NECESSARY? ☐YES ☒NO			

2011-2012

ANNUAL REPORT

SIDE B

FORM 5 (Continued)-ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY BMP STATUS

EVALUATION DATE: ___________ **INSPECTOR NAME:** ___________________________ **TITLE:** ___________________________ **SIGNATURE:** ___________________________

POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ☐**YES** ☐**NO** **ARE ADDITIONAL/REVISED BMPs NECESSARY?** ☐**YES** ☐**NO**	If yes, to either question, complete the next two columns of this form	**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ☐**YES** ☐**NO** **ARE ADDITIONAL/REVISED BMPs NECESSARY?** ☐**YES** ☐**NO**	If yes, to either question, complete the next two columns of this form	**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ☐**YES** ☐**NO** **ARE ADDITIONAL/REVISED BMPs NECESSARY?** ☐**YES** ☐**NO**	If yes, to either question, complete the next two columns of this form	**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**
POTENTIAL POLLUTANT SOURCE/INDUSTRIAL ACTIVITY AREA (as identified in your SWPPP)	**HAVE ANY BMPs NOT BEEN FULLY IMPLEMENTED?** ☐**YES** ☐**NO** **ARE ADDITIONAL/REVISED BMPs NECESSARY?** ☐**YES** ☐**NO**	If yes, to either question, complete the next two columns of this form	**Describe deficiencies in BMPs or BMP implementation**	**Describe additional/revised BMPs or corrective actions and their date(s) of implementation**

Attachment:

STORMWATER SAMPLE RESULTS SUMMARY 2011/2012

Explanation for section E.1, E.2 for Annual Report of the General Industrial Storm Water Permit

STORMWATER SAMPLE RESULTS SUMMARY

2011/2012

LEHIGH SOUTHWEST CEMENT COMPANY
CUPERTINO, CALIFORNIA

Lehigh Southwest Cement Company (Lehigh) has conducted storm water sampling in accordance with the Lehigh Storm Water Monitoring Plan, originally developed in 1996 and subsequently revised. Sampling is currently performed in accordance with the Storm Water Monitoring Plan SWMP (GeoSynTec 2011) and the Storm Water Pollution Prevention Plan (SWPPP) 15 (URS 2010) for the Lehigh Cupertino, California facility.

In a June 13, 2011 Water Code Section Order 13267 (attached), the San Francisco Bay Water Board (Water Board) required for the existing and potential discharge points described below, that

> "Lehigh is required before July 10, 2011, to submit a Notice of Intent (NOI) to obtain coverage under Order No. R2-2008-0011, General Waste Discharge Requirements for Discharges of Process Wastewaters from Aggregate Mining, Sand Washing, and Sand Offloading Facilities to Surface Waters (the Sand and Gravel Permit)."

Lehigh complied with the NOI requirement, and the Water Board authorized coverage under the Sand and Gravel Permit on November 21, 2011. for the following locations:

- Pond 4A,
- Pond 9 (modified – original Oct 21, 2011)
- Pond 13B
- Pond 17
- Pond 20
- Dinky Shed Overflow Basin
- Plant Reclaim Water System Emergency Discharge
- Rock Plant Sump Overflow

Some of these locations were previously covered and included in Lehigh's Storm Water Program. Given the newly acquired coverage under the Sand and Gravel NPDES permit, Pond 4A, 9, 13B, 17 and 20, along with the Dinky Shed Overflow Basin, Plant Reclaim Water System Emergency Discharge and Rock Plant Sump Overflow locations are no longer covered or subject to the General Industrial Storm Water Permit.

On July 15, 2011, and revised on October 20, 2011, Lehigh submitted to the Water Board a revised Monitoring Plan.

> Per the Plan section:
> **2.2 General Industrial Stormwater Permit Sampling Frequency**
> Stormwater discharged under the authority of the General Stormwater Permit will be sampled pursuant to the requirements of that permit. The Site has several potential stormwater discharges, however each discharge location does not produce discharge for each storm event. During the Wet Season (October 1 through May 31), each potential stormwater discharge point will be inspected during normal daylight working hours for each qualifying storm event as defined in the General Stormwater Permit. If a potential stormwater discharge point is found to be discharging, it will be sampled according to the frequencies stated in the General Stormwater Permit and the supplemental Wet Season sampling program (below) as set forth in Tables 2-1 and 2-2.

Per the Monitoring Plan, section 3.2.1, General Stormwater Permit Outfalls, the following locations were identified as potential stormwater outfalls.

STORMWATER SAMPLE RESULTS SUMMARY

2011/2012

- SW-4 – discharge of Pond 30 from the East Materials Storage Area;
- SW-3 – potential stormwater discharge point west of Pond 13A and 13B

These locations will continue to be covered by the General Industrial Storm Water Permit, and are the primary focus of this Annual Report.

Explanation for section E.1, E.2

The 2011 – 12 Wet Season had very little rain, from October 2011 through May, 2012, the Cupertino, California area received less than 7.25" of total rain. Of this, only 4 events produced over 0.50" of rain (1/20/2012 produced 0.64", 3/24/2012 produced 0.63", 4/10/12 produced 0.5", 4/12/2012 produced 0.63"). Of these events, only 1 was preceded by 3 dry days (4/10/12). No stormwater discharges from the above outfalls listed above, or other, were observed nor sampled during the 2011 – 12 wet season period.

Attachment:

Water Board July 24, 2014 letter, Re:

Courtesy Reminder Letter for 2011-12 Industrial Storm Water Annual Report

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

San Francisco Bay Regional Water Quality Control Board

July 24, 2012

Lehigh Southwest Cement Co
Attn: Henrik Wesseling or Legally Responsible Person
24001 Stevens Creek Blvd
Cupertino, California 95014

Subject: Courtesy Reminder Letter for 2011-12 Industrial Storm Water Annual Report

Facility: Lehigh Southwest Cement Co
24001 Stevens Creek Blvd
Cupertino, California 95014
WDID No.: 2 43I006267; PID: 0126
Facility Contact: Scott Renfrew

Dear Henrik Wesseling or Legally Responsible Person:

Did you forget something important?

This is a courtesy reminder that your 2011-12 Industrial Storm Water Annual Report[1] for the above named facility was due July 1, 2012. We have received approximately 85% of all 1300+ reports. As of July 20, 2012, you are part of the 15% of facilities that are late without a complete submittal. If we do not receive your complete report by **August 10, 2012**, we will pursue a formal enforcement action for the late submittal.

Please note that enforcement liability amounts are assessed per day beginning July 2, 2012. In the past, the Water Board has assessed facility operators for late annual reports $25-50 per day with a minimum liability of $1,000 per report plus staff costs for investigation up to $150/hr.

Do any of the following situations apply as to why your report is late?

A. <u>You are behind in compiling the report.</u>
Complete your report and submit it to us by August 10, 2012. If you anticipate you will miss this date, please contact us and discuss the specifics of your situation. Please note that we cannot grant any extensions nor guarantee we will not take enforcement for your late report.

[1] Your facility is enrolled under the Industrial Storm Water General Permit (Order 97-03-DWQ), which requires submittal of an Annual Report each July 1. The permit is online at http://www.waterboards.ca.gov/water_issues/programs/stormwater/docs/induspmt.pdf

B. You have closed the facility or no longer operate the facility.
   1. Please submit a completed Notice of Termination (NOT) application with its required supporting documents to us by August 10, 2012. Obtain a blank NOT form online and follow its instructions at http://www.waterboards.ca.gov/water_issues/programs/stormwater/docs/indusnot.doc
   2. Make sure that the application is signed by the legally responsible person.[2]
   3. Your 2011-12 Annual Report is still due; see below on how to submit.

C. You believe you have already submitted the report by July 1.
We receive over 1,300 reports. Your report may have been misplaced. Please resubmit the report and confirm we have received it. If you have documentation of your original submittal (i.e. certified mail receipt, copy of email, etc), please include it with your report.

Some common related errors include
- For reports that were e-filed within the SMARTS database, the legally responsible person did not certify the report. Upon completion, the status of the report should read as 'submitted'.
- For hardcopy reports, the legally responsible person may have forgotten to sign the report. We cannot accept reports that are not signed.

D. You believe your facility should not be permitted, and therefore, you believe you should not need to submit an Annual Report.
Please contact Danny Pham by email at dapham@waterboards.ca.gov or by phone at (510) 622-2402. Be prepared to explain why you believe the permit does not apply to your facility. We will determine whether the permit applies. If we determine your facility must be permitted, you will be held to the due date of July 1, 2012, and you will need to submit your Annual Report by August 10, 2012 to avoid formal enforcement for a late report.

How to submit the report?

1. Obtain a blank annual report template online at http://www.waterboards.ca.gov/water_issues/programs/stormwater/annualreport.shtml. If you need a paper copy sent to you, please call us at (510) 622-2402.

2. Complete all applicable sections of the annual report; attach supporting documentation as necessary.

3. Make sure that the report is signed by the legally responsible person.[2]

4. Verify we have your current contact information. Notify us by circling or highlighting new contact information on the first page of the annual report.

---

[2] For a full explanation of legally responsible person, please see the permit, Section C.9, Signatory Requirements.

5. Send the report to the correct address (send paper copy or email electronically):

By mail:
SF Bay Water Board
Attn: Industrial Storm Water Staff
1515 Clay Street, Suite 1400
Oakland, CA 94612

By email:
dapham@waterboards.ca.gov
In your subject line, include your WDID No. and use this phrase: "2011-12 Industrial Annual Report"

6. Ensure that you have a date receipt that your report was received by us. You can do this by sending your paper copy certified mail with a return receipt requested, or by sending your electronic copy to us by email and we will reply with an email confirmation.

Would you like to sign up for our email notification list?

- We plan on issuing quarterly newsletters that include reminders on important dates and successful permit implementation strategies. Please sign up for the group called "Industrial Stormwater" on our website, here: http://www.waterboards.ca.gov/resources/email_subscriptions/reg2_subscribe.shtml.

Who to contact with questions?

- Danny Pham is the contact person for Industrial Storm Water Annual Reports, Notices of Termination, and related issues. You can reach Danny by email at dapham@waterboards.ca.gov or by phone at (510) 622-2402 and. Due to the high volume of calls, email is preferred and will get quicker responses. Danny or another staff person will get back to you as soon as possible.

- You are welcomed to visit our office at 1515 Clay Street, Suite 1400, Oakland, CA 94612 by first contacting Danny Pham.

- Please note again, if you are submitting your report by email, send it to dapham@waterboards.ca.gov as noted above.

Sincerely,

Industrial Storm Water Staff
Watershed Management Division

Attachment:

Water Board June 13, 2011 letter, Re:

Water Code Section 13267 Order and Notice of Violation for unauthorized discharge to Permanente Creek.

California Regional Water Quality Control Board
San Francisco Bay Region

Linda S. Adams
Acting Secretary for Environmental Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

Edmund G. Brown, Jr.
Governor

(E-mail transmittal)
Certified Mail No.
Return Receipt Requested

June 13, 2011
WDID No. 2 43I0062677

Lehigh Southwest Cement Company
Attn.: Mr. Henrik Wesseling
24001 Stevens Creek Boulevard
Cupertino, CA 95014

Subject: Water Code Section 13267 Order and Notice of Violation for unauthorized discharge to Permanente Creek.

Dear Mr. Wesseling:

This provides Lehigh Southwest Cement Company (Lehigh) with Notice that it remains in violation of water quality standards, permit requirements and San Francisco Bay Water Board (Water Board) orders as set forth below, discusses the attached Water Code section 13267 Order for Technical and Monitoring Reports, makes a request for a Report of Waste Discharge under Water Code section 13260 and clarifies some outstanding issues that remain from Water Board staff's previous letters and orders to Lehigh. The attached Order sets forth specific requirements with definite deadlines that we believe will serve to streamline our regulatory review of the Lehigh facility and bring it into compliance as expeditiously as possible.

A. Water Code Section 13267 Order and Section 13260 Request for Report of Waste Discharge.

1. Technical Reports Pursuant to Water Code Section 13267 and Report of Waste Discharge Section 13260.

Water Code section 13267 provides that the Water Board may require dischargers, past dischargers, or suspected dischargers to furnish technical or monitoring reports as it may specify, provided that the burden, including costs, of these reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The technical reports required by the attached Order are needed to evaluate the nature, extent, circumstances, and impacts of discharges from the Lehigh facility to waters of the state. As detailed in the Order, the burden of providing the required reports bears a reasonable relationship to their need and the benefits the Water Board expects will be obtained from them.

Pursuant to Water Code section 13260, the attached Order further requires Lehigh to file a Report of Waste Discharge containing the specified information. We expect the information will help enable the Water Board to evaluate Lehigh's compliance with applicable water quality requirements and assist with our determination regarding appropriate permits for Lehigh's discharges of both stormwater and non-stormwater.

Water Code section 13268 (a) (1) provides that any person failing or refusing to furnish technical or monitoring report information as required by Water Code section 13267(b), or falsifying any information provided therein, is guilty of a misdemeanor and may become responsible for an administratively-imposed civil liability of up to $1,000 per day for each day compliance is not achieved. For any underlying discharge violations, Water Code section 13385 provides that the Water Board may impose administrative civil liability for up to $10,000 a day for each violation, and up to an additional $10 per gallon of discharge over 1,000 gallons not cleaned up.

2. Enrollment for Coverage under the Sand and Gravel Permit.

Based on what we have so far learned about Lehigh's facility, we are hereby putting you on notice that we expect that Lehigh will need to apply for an individual NPDES permit in the near future. The nature, variety and extent of Lehigh's various discharges make it difficult to adequately regulate these discharges under any of the available NPDES General Permits. However, the individual NPDES permitting process can last several months to more than a year.

To resolve potential timing difficulties relating to our issuance of an individual NPDES permit, as an interim permitting structure, Lehigh is required before July 10, 2011, to submit a Notice of Intent (NOI) to obtain coverage under Order No. R2-2008-0011, General Waste Discharge Requirements for Discharges of Process Wastewaters from Aggregate Mining, Sand Washing, and Sand Offloading Facilities to Surface Waters (the Sand and Gravel Permit). The Sand and Gravel Permit is more relevant to Lehigh's discharges than the Industrial General Storm Water Permit. While it does not address the full set of potential constituents of concern relevant to the Lehigh facility, it is a better fit for the interim period during which the Water Board considers and develops a custom permit for the various discharges and constituents at Lehigh. As you may recall, we advised Lehigh in our April 8, 2011, letter that we would be granting an extension of the deadline for Lehigh to enroll under the Sand and Gravel Permit. We discussed extending this deadline to approximately the end of May at our April 29, 2011, meeting. We are hereby granting an additional extension to see if we can reach agreement on the definition of stormwater and discharges to be covered under this permit. **Lehigh is hereby formally notified that it must submit its NOI to enroll under the Sand and Gravel Permit no later then July 10, 2011.**

B. Status of Issues Raised In Recent Correspondence and Orders

1. The 13267 Order (attached) supersedes the sampling requirements stated in our February 18, 2011, Notice of Violation, Attachment No. 6:

The "Water Board staff review and response to Lehigh's letter of December 13, 2010, in response to our "13267" letter of November 29, 2010", stated additional sampling requirements for Lehigh, and indicated that Water Board staff would select the specific sampling locations that Lehigh would be required to monitor for a two-week period. Based on our observations at the Lehigh facility and the in light of the end of the rainy season, we have determined that the two week sampling protocol previously-contemplated will not provide us with as much information as we need to make

appropriate determinations about Lehigh's compliance with applicable water quality standards. Accordingly, the requirements in the attached Order supersede those listed in the February 18, 2011, communication. As we discussed on April 29, 2011, we agreed to this because we did not feel that Lehigh would be able to obtain meaningful data to characterize the nature and extent of Lehigh's stormwater discharges during the dry season.

2. This letter supersedes the, "Extension to Deadlines…" letter of April 8, 2011:

Per our field observations and evaluation of the information gathered during March and April 2011, Water Board staff has concluded that we have insufficient information to be able to instruct Lehigh as to where a complete set of samples necessary to fully characterize the nature and extent of Lehigh's discharges must be collected. In Attachment A to the attached Order, we are providing the list and mapped locations of the additional monitoring locations we recently identified. However, we provide this information only as a mandatory starting point. Lehigh must identify and fill any and all data gaps necessary to conduct a full assessment and characterization of all historic, ongoing, and potential discharges from the Lehigh facility. Because of the facility's size and the diverse nature of its discharges, Water Board staff does not have sufficient information to fully direct Lehigh about how to undertake this analysis. As you are no doubt well aware, the responsibility of disclosing and reporting each outfall from Lehigh's facility, and its characteristics, is Lehigh's. Thus, the requirements stated in the attached 13267 Order supersede all statements in the April 8, 2011, communication.

3. Lehigh continues to be in violation of the Clean Water Act, the California Water Code, and the Industrial Storm Water Permit:

As described in the February 18, 2011, Notice of Violation letter from the Water Board to Lehigh, the Lehigh facility continues to be in violation of the Industrial Storm Water Permit. Lehigh continues to discharge non-stormwater without permit coverage and, as we have recently alleged, is discharging -additional prohibited non-stormwater flows in violation of the General Permit and its own SWPPP.

4. Lehigh has not fully complied with the November 29, 2011, requirement to submit a technical report fully characterizing all non-stormwater discharges:

Additionally, Lehigh has not fully complied with the requirements in the November 29, 2010, 13267 Requirement for a Technical Report. The basis for this assessment is the discharge that Water Board staff observed on March 29, 2011, and which is subject to ACL Complaint No. 2011-0023. Specifically, Lehigh has not

- fully characterized any and all non-stormwater discharge(s) that occurred during (but possibly not limited to) mid-to-late September, 2010; and
- fully described any and all non-stormwater discharges to Permanente Creek from the Lehigh facility and/or resulting from Lehigh's operations at the facility during the past three years.

Lehigh continues to be subject to potential civil liabilities of up to $1,000 per day until such time as it has fully complied with the November 29, 2010, Order.

If you have any questions, please contact Cris Carrigan at (916) 322-3626, or via e-mail at ccarrigan@waterboards.ca.gov, or me directly.

Sincerely,

For Dyan C. Whyte
Assistant Executive Officer
Prosecution Team Lead

Enclosures

A. 13267 Investigative Order
Attachment A: Table and Map of additional monitoring locations per Water Board's Spring 2011 inspections

B. Monitoring Constituent Table

C. 13267 Letter Fact Sheet

Interested Party Mailing List (Provided following the above-stated attachments)

Attachment:

Lehigh Southwest Cement Company – Permanente plant Site, Cupertino, CA

General Industrial Stormwater and Sand & Gravel NPDES Permits and Supplemental Monitoring Requirements October 2011

Lehigh Southwest Cement Company

Lehigh Southwest Cement Company
Permanente Plant Site
Cupertino, California
Monitoring Plan
General Industrial Stormwater and Sand & Gravel NPDES Permits and Supplemental Monitoring Requirements
October 2011

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17 October 2011

Geosyntec
consultants

MONITORING PLAN
GENERAL INDUSTRIAL STORMWATER AND SAND & GRAVEL NPDES PERMITS AND SUPPLEMENTAL MONITORING REQUIREMENTS

LEHIGH SOUTHWEST CEMENT COMPANY
PERMANENTE PLANT SITE

CUPERTINO, CALIFORNIA

This document was prepared by the staff of Geosyntec Consultants under the supervision of the engineers whose signatures appear hereon. The findings or professional opinions were prepared in accordance with generally accepted professional engineering. No attempt to verify the accuracy of the data provided by others was made. No warranty is expressed or implied.

Brian Petty, P.E., Senior Engineer

Chris Walker, Ph.D., Project Manager

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LIST OF ABBREVIATIONS

COC	-	chain of custody
CFR	-	Code of Federal Regulations
CTR	-	California Toxics Rule
MS	-	matrix spike
MSD	-	matrix spike duplicate
MSDS	-	Material Data Safety Sheet
NOI	-	Notice of Intent
NPDES	-	National Pollutant Discharge Elimination System
O&G	-	oil and grease
RWQCB	-	Regional Water Quality Control Board
S&G	-	Sand and Gravel
SWPPP	-	Stormwater Pollution Prevention Plan
TOC	-	total organic carbon
TSS	-	total suspended solids
USEPA	-	United States Environmental Protection Agency

1. INTRODUCTION

1.1 Terms of Reference

This Monitoring Plan (Plan) was prepared on behalf of Lehigh Southwest Cement Company (Lehigh) by Geosyntec Consultants (Geosyntec). The Plan is intended for use at the Lehigh Permanente Cement Plant and Quarry (the Site) located at 24001 Stevens Creek Boulevard in Cupertino, California. This document provides specific monitoring instructions in order to comply with the California General Industrial Stormwater Permit and the General Permit for Discharges of Process Wastewaters from Aggregate Mining and Sand Washing/Offloading, National Pollutant Discharge Elimination System (NPDES) No. CAG982001 (the Sand and Gravel permit), as well as supplemental monitoring requirements issued to Lehigh by the RWQCB for the San Francisco Region on June 14, 2011 under Water Code Section 13267.

1.2 Purpose of the Monitoring Plan

Lehigh discharges stormwater and authorized non-stormwater discharges at the Site associated with its operations pursuant to the California Permit for Discharges of Stormwater Associated With Industrial Activities (General Stormwater Permit). A Stormwater Pollution Prevention Plan (SWPPP) has been used at the Site to manage the stormwater and monitor the discharges covered by the General Stormwater Permit (URS, 2009).

Pursuant to a submitted Notice of Intent (NOI) to the RWQCB, Lehigh will now also discharge certain waters under the authority of the Sand and Gravel Permit. Pursuant to the Sand and Gravel Permit, a Monitoring Plan is required. This Plan specifies the monitoring locations, constituents and schedule for surface water discharge monitoring activities that comply with both permits. The provisions of this monitoring program relating to the General Stormwater Permit outlined herein will supersede the monitoring program that is prepared and updated regularly under the General Stormwater Permit. For example, discharges from some locations that were monitored previously pursuant to the General Stormwater Permit will be monitored pursuant to the Sand and Gravel Permit, which will regulate discharges. This Plan also provides for supplemental sampling as required by an Order the RWQCB issued to Lehigh on 14 June 2011 under Water Code Section 13267

Subsequent to the 14 June 2011 RWQCB Order, Lehigh conducted extensive Site walks to determine accessibility to Permanente Creek and potential discharge locations. These Site inspections indicate that areas of the Site have significant access issues, particularly up-stream in the Quarry area when attempting to reach Permanente Creek. Construction of access roads, while feasible, would likely cause additional erosion.

1.3 Organization of the Document

The remainder of this Plan is organized into the following sections:

- Section 2, Sampling Approach and Frequency, summarizes qualifying storm event parameters, and the sampling schedule;
- Section 3, Sampling Locations, summarizes the site layout and the individual monitoring locations;
- Section 4, Constituent List, summarizes the analytes and analytical methods;
- Section 5, Monitoring Approach and Procedures, provides information on sampling strategies to be used for obtaining representative samples;
- Section 6, Quality Assurance and Quality Control, provides information on QA/QC field procedures and data quality sampling; and
- Section 7, Reporting, summarizes the information required by the RWQCB.

References, tables and figures follow the body of this Plan.

2. SAMPLING APPROACH AND FREQUENCY

2.1 General Sampling Requirements

The general sampling requirements are organized according to the following routine and supplemental sampling requirements.

- Routine General Stormwater Permit Sampling;
- Routine Sand and Gravel Permit Sampling of Discharges;
- Routine Sand and Gravel Permit Sampling for Receiving Waters;
- Dry Weather Supplemental Sampling; and
- Wet Weather Supplemental Sampling.

The specific sampling requirements for each of the discharge locations vary depending on which categories of sampling requirements apply. Table 2-1 summarizes the individual discharge location sampling requirements. These categories are generally consistent with the sampling specified in the RWQCB Order.

2.2 General Industrial Stormwater Permit Sampling Frequency

Stormwater discharged under the authority of the General Stormwater Permit will be sampled pursuant to the requirements of that permit. The Site has several potential stormwater discharges, however each discharge location does not produce discharge for each storm event. During the Wet Season (October 1 through May 31), each potential stormwater discharge point will be inspected during normal daylight working hours for each qualifying storm event as defined in the General Stormwater Permit. If a potential stormwater discharge point is found to be discharging, it will be sampled according to the frequencies stated in the General Stormwater Permit and the Supplemental Wet Season sampling program (below) as set forth in Tables 2-1 and 2-2.

2.3 Routine Sand and Gravel Permit Sampling

Routine sampling encompasses routine parameters listed as part of Table E-2 of the Sand and Gravel Permit. The Sand and Gravel Permit distinguishes between Effluent samples (samples of water discharged from the operation) and Receiving Water samples, and specifies different sampling frequencies for each. Routine sampling will occur for each parameter according to the frequencies shown in Table 2-2.

2.4 Supplemental Sampling

As discussed above, the San Francisco Bay RWQCB issued an Order to Lehigh under Water Code Section 13267 that, in part, required a Supplemental Monitoring Program to commence in the summer of 2011 and continue through the 2011-2012 Wet Season only. This Supplemental sampling is also described in this Monitoring Plan. After the completion of the Supplemental Monitoring Program in 2012, those sampling requirements will no longer be applicable. Supplemental constituents (described in detail in Section 4) will be analyzed monthly from samples collected at the relevant outfalls during the Dry and Wet Weather seasons. The Dry Weather sampling events will occur between 18 July 2011 and 30 September 2011; the Wet Weather sampling event will occur between 01 October 2011 and 31 May 2012.

The RWQCB Order for Supplemental Sampling included an extensive list of monitoring parameters, many of which have little possibility of occurring in the Permanente discharges and/or receiving waters. Lehigh will sample and analyze for these parameters in the first samples of both the Dry and Wet Season monitoring campaigns. If during the first sampling event of each campaign, the individual parameters not likely to be present are not detected (i.e., the results indicate the concentration is below the constituent reporting limit), Lehigh will request from the Board that further analyses for these parameters be discontinued on the basis that the parameters are not expected to be present and have been demonstrated as such.

3. SAMPLING LOCATIONS

3.1 General Site Layout

The majority of the Site, consisting of the Cement Plant, the Quarry and the East Materials Storage Area, is located north of Permanente Creek. West of the Cement Plant, is the Quarry and West Materials Storage Area. South of Permanente Creek is the Wastewater Treatment Plant, the Rock Plant, and the Quality Control Laboratory. Remnant structures from an inactive aluminum plant are located immediately east of the Plant. The East Materials Storage Area is located just north of the inactive aluminum plant.

Lehigh will establish or confirm (as the case may be) monitoring locations in compliance with the requirements established in the General Stormwater Permit, Sand and Gravel Permit, and Supplemental Sampling list. Table 2-1 lists the monitoring station locations and specific sampling and analysis requirements. Figure 3-1 provides an overview of the Site and the sampling locations.

3.2 Outfalls

When applicable, outfalls and discharges will be sampled immediately at the point of discharge into Permanente Creek. However, as a result of the steep and rugged terrain, safety concerns may necessitate sampling at locations just upland of the immediate discharge location. In the case of sampling location RWQCB C, where safety is of special concern, sampling may not always be possible. If a sample is not collected at RWQCB C, a specific description of the safety concerns, along with illustrative photos, will be recorded for reporting purposes. These sampling locations are shown in detail in Figures 3-3 through 3-6.

3.2.1 General Stormwater Permit Outfalls

The following locations have been identified as potential stormwater outfalls and will be routinely inspected and sampled pursuant to this Monitoring Plan:

- SL-30-PD – discharge of Pond 30 from the East Materials Storage Area;
- RWQCB A – potential discharge from low point in Rock Plant Road (under conveyor belt) where gaps exist in K-rails;
- RWQCB B – potential discharge from low point in Rock Plant Road where gaps exist in K-rails;
- RWQCB C – potential discharge flowing down gully located east of Primary Crusher;

- RWQCB F – potential discharge located immediately west of Dinky Shed;
- RWQCB G – potential discharge from stormwater routed around the Wastewater Treatment Plant;
- RWQCB I1 – potential discharge from the Pond 20 bypass pipe;
- RWQCB I3 – representative sample of discharge originating from Lehigh Quality Control Laboratory parking lot;
- RWQCB I4 – potential runoff from the dirt road below the Quality Control Laboratory;
- SW-7 – potential stormwater discharge point along the drainage area west of the Primary Crusher; and
- SW-8 – potential stormwater discharge area located near the Quarry Water Truck Fill station.

3.2.2 Sand and Gravel Permit Outfalls

The flowing outfalls will discharge under the authority of the Sand and Gravel Permit. Many of these outfalls discharge in response to storm events, however individual storm events may not produce discharge. The following outfalls will be sampled when discharging pursuant to this Monitoring Plan:

- SL-13A – Pond 13A discharge (into Pond 13B);
- SL-13B (RWQCB D3) – Pond 13B;
- SL-17-PD – discharge from Pond 9 (includes pumped discharge from Pond 11);
- SL-17A-PD – discharge from Pond 17;
- Pond 20 – discharge from Pond 20;
- Dinky Shed Basin Overflow – potential discharge resulting from overflow of Dinky Shed holding basin area;
- RWQCB E – potential discharge from Rock Plant sump; and
- RWQCB H – discharge resulting from emergency diversion of Plant Reclaim Water System.

In addition, Lehigh will monitor Pond 4A pursuant to the Sand and Gravel permit monitoring plan until further monitoring requirements are imposed.

3.3 Supplemental Monitoring -- In-stream Sample Locations

In addition to supplemental monitoring of various discharge locations for Dry and Wet Weather sampling (See Table 2-1), two in-stream samples will be collected from Permanente Creek at the following locations:

- Upstream background sample (RWQCB L) – Permanente Creek sample near Kaiser House; and
- Downstream sample (RWQCB K) – Permanente Creek sample at the bridge located near the Gates of Heaven Cemetery.

These locations were selected based on the sampling requirements required by the Order, safety and accessibility considerations for sampling, and the consistent presence of water within the Creek. Sampling location SL-4CR will not be sampled owing to both safety concerns of the sampling access route and the redundancy in sampling location when compared with sample RWQCB L. The sampling locations are shown in detail in Figures 3-2 and 3-7.

Due to safety concerns, receiving water sampling will not be conducted by entering Permanente Creek. Instead, receiving water sampling near the Kaiser House will be conducted using an extendable sampling pole. When appropriate, an assessment of streambank stability may necessitate the slight alternation of the specific sampling locations when safety concerns prevent sampling at the designated locations.

Downstream sampling at location RWQCB K requires access through the Gates of Heaven Cemetery, which has been granted to Lehigh for previous sampling events. Sampling will be conducted at the downstream side of the bridge crossing Permanente Creek.

4. CONSTITUENT LIST

4.1 Introduction

The constituent list is composed of a subset of parameters required under the General Stormwater Permit, the Sand and Gravel Permit, or Supplemental Dry and Wet Season Parameters. This section provides analytical information on each of these sample types.

4.2 Routine General Stormwater Permit Parameters

The General Stormwater Permit requires industrial stormwater discharges to be monitored for:

- pH;
- Specific conductance;
- Total suspended solids (TSS);
- Total organic carbon (TOC); and
- Oil and grease (O&G).

Table 4-1 summarizes the analytical method, and reporting and detection limits for each of the constituents.

4.3 Routine Sand and Gravel General Permit Parameters

The Sand and Gravel Permit distinguishes between samples of discharges from operations and receiving water samples, with a separate constituent list required for each. The Routine Sand and Gravel Parameters were identified from Table E-2 of the Sand and Gravel Permit, and are summarized, along with the analytical method, and the required laboratory reporting and detection limits, in Table 4-2.

4.4 Supplemental Parameters

Supplemental Dry and Wet Season Monitoring Parameters are required under the RWQCB Order. This Supplemental Parameter list is based on the California Toxics Rule (CTR) list derived from 40 CFR Part 131 and parameters selected as surrogates for chemicals used in flocculation processes at the Plant. Both NALCO Optimer®83949 and NALCO Cat-Floc®9851 Plus are used as flocculants at the Rock Plant. Based on the Material Data Safety Sheets (MSDS), NALCO Optimer®83949 contains trace levels of potential pollutants including sodium hydroxide, cupric sulfate, and acrylamide. The NALCO Cat-Floc®9851 Plus MSDS indicates it does not contain trace levels of pollutants. If an individual sampling result is below the reporting limits shown in Table

4-3, then no additional monitoring will be conducted for that particular constituent at that location. The surrogate parameters (some of which are already included within the CTR list) are composed of:

- Chemical oxygen demand (COD);
- Total and dissolved copper;
- Acrolein; and
- Acrylonitrile.

Additionally, the RWQCB requires monitoring for selenium to assess the potential impacts on Permanente Creek. This monitoring will be composed of:

- Total and dissolved selenium;
- Selenate; and
- Selenite.

The Supplemental Parameters and the associated analytical method, and the required laboratory reporting and detection limits, are given in Table 4-3.

4.5 Toxicity Testing

Lehigh will conduct acute toxicity testing as part of the Routine Sand and Gravel and Dry and Wet Weather Supplemental Parameter monitoring. The test will measure survival of test organisms exposed to 96-hour static renewal bioassays. Fathead minnows (*Pimephales promelas)* will be used as the testing species. The bioassays will be performed according to the United States Environmental Protection Agency (USEPA)-approved method in 40 CFR Part 136, currently *Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to freshwater and Marine organisms, 5th Edition*. Discharged water used for fish bioassays will be dechlorinated prior to testing. Monitoring of the bioassay water will include, on a daily basis, the following parameters: pH, dissolved oxygen, ammonia (if toxicity is observed), temperature, hardness, and alkalinity.

If specific identifiable substances in the discharge are rapidly rendered harmless upon discharge to the receiving water, then those test samples may be adjusted to remove the influence of those substances. For example, residual chlorine present in discharge would be rapidly consumed upon contact with receiving waters, and therefore may have its concentration adjusted to reflect this.

5. MONITORING APPROACH

The monitoring approach is composed of the following steps:

1. Initial acquisition of sampling equipment and supplies, and training of relevant personnel;
2. Inspection of potential stormwater outfalls and Sand and Gravel Permit outfalls for actual discharge.
3. Sampling, using sufficient personnel to obtain representative grab samples at each location assuming a single 8-hour storm event period; and
4. Shipping/transporting samples to designated laboratories within 24 hours of sample collection.

Based on the rugged and remote sampling locations throughout the Site, sampling teams of two or more individuals will be used at certain locations. As necessary, multiple teams may be employed to complete sampling within the allotted 8-hour storm event period. Sampling teams will follow appropriate health-and-safety requirements as laid out by Lehigh, which may include temporarily delaying sampling in the Quarry area because of operational activities.

Samples will be analyzed using approved field and laboratory analytical methods. Prior to sampling, each sampling location will be observed to visually evaluate whether representative samples can be collected. Professional judgment will be used to:

- Evaluate if sufficient quantities of discharge are present such that a representative sample can be obtained; and
- Confirm that no safety issues will be encountered during the collection of the representative samples.

If insufficient discharge is present, or there exists a risk to human safety during sampling the representative discharge, then no sample will be taken. However, field documentation will describe the conditions that prevented sampling.

During sampling, a YSI 556 water quality meter (or equivalent) will be used for field analyses as summarized previously in Tables 4-1 and 4-2. Instrument calibration and operation will be conducted according to the manufacturer's instructions.

The following analytical laboratories have been identified for the monitoring study:

- Alpha Analytical; and

- Pacific EcoRisk (for toxicity testing only).

Other qualified laboratories may be used as necessary to implement this Monitoring Plan.

Alpha Analytical may subcontract specific analyses, such as selenium speciation, if they lack the capabilities. Specific analyses to be conducted by each laboratory, along with analytical methods, reporting limits, minimum sample volumes, sample preservation requirements and method holding times, are summarized in Tables 4-1 through 4-3. Notification to laboratories prior to sampling events will allow Lehigh to evaluate laboratory availability and secure an alternative laboratory if necessary.

Single grab samples will be collected from each of the discharge or stream locations, and labeled and preserved appropriately per individual analytes. Samples will be picked up on Site by personnel from Alpha Analytical or shipped/couriered to other labs no later than 24 hours after collection. This grab sample approach, while potentially subject to variability, will assist in Site characterization. However, Lehigh may possibly refine this approach in the future if the variability is too extensive.

6. QUALITY ASSURANCE AND QUALITY CONTROL

6.1 Field Procedures

Field personnel will use sampling techniques that limit the potential for sample contamination from sampling equipment, human contact, or atmospheric sources, which is of particular concern when sampling for trace metals and organic compounds. Sampling practices to collect valid data include:

- Obtain pre-cleaned and certified sample bottles for sampling.
- Protect sample bottles and other equipment that come into contact with the sample from exposure to atmospheric inputs. Store clean sample bottles in colorless polyethylene bags; also transport sample bottles to the laboratory in polyethylene bags. Do not touch the inside surface of a sample bottle, lid, or sampling tube. Do not touch the exposed end of the sampling tube.
- Wear clean powder-free nitrile gloves when collecting samples or handling bottles, lids, tubing and strainers.
- Use metal-free apparatus for sampling.
- Do not park vehicles in immediate sample collection area and do not collect a sample near a running vehicle.
- Do not allow objects or materials to fall into or contact a sample.
- Avoid allowing rainwater to drip from rain gear or other surfaces into sample bottles.
- Do not eat, drink, or smoke during sample collection.
- Do not breathe, sneeze, or cough in the direction of an open sample bottle.

Field equipment will be decontaminated prior to use. Water quality probes will be double-rinsed with reagent grade water before each use. New sample bottles will be used for each sampling event.

Grab Sample Field Blanks. Grab sample blanks will be collected to evaluate the potential for sample contamination from sampling procedures or ambient conditions. Reagent grade water obtained from the laboratory will be taken to the site and poured into appropriate sample containers. Samples will be submitted to the laboratory as "blind" samples.

Reagent Water Blanks. Water transported to the field and used to collect grab sample blanks will be analyzed to evaluate the purity of water used to collect the field blanks and to identify potential sources of sample contamination. A reagent water blank will

be collected whenever a field blank is collected and submitted to the laboratory as a "blind" sample.

Field Duplicates. Field duplicates will be collected to evaluate the precision of sample collection and composting procedures. Field duplicates will be collected at a frequency of 10% of the primary samples. Field duplicates will rotate between samples over the course of several sampling events. Samples should be submitted to laboratories "blind" for analysis.

Matrix Spikes. Sufficient sample volume will be collected in the field to allow a matrix spike (MS)/matrix spike duplicate (MSD) analysis at the laboratory on a project sample. For each analysis, spike compounds are added to an environmental sample to evaluate the effect of the sample matrix on the accuracy of the extraction or analytical procedures. Sample volumes for MS/MSD analyses typically require twice the minimum volume for regular analyses, and will be accounted for in normal sampling.

6.2 Chain of Custody

A chain-of-custody (COC) form will be developed for the monitoring program to document analytical requirements and to limit the amount of writing required by field personnel during a monitoring event. The COC also documents the sample custody from the sampler to the analytical laboratory. The COC will include:

- Contact information (client, other laboratories receiving samples);
- Sample handling requirements (e.g., compositing, filtering, shipping sample portions to other laboratories);
- Chemical analyses;
- Turn-around time requirements; and
- Other special instructions (e.g., matrix spike, analysis prioritizations).

6.3 Sample Handling

To maintain sample integrity, samples will be maintained at 4±2°C after collection and during shipment. As a result of the rugged and isolated sampling locations within the Site, it is unlikely sufficient samples can be collected and shipped immediately to the multiple analytical laboratories. However, due to the short holding times for some of the parameters, the samples will be picked up on Site or shipped overnight to the respective laboratories within 24 hours of sampling.

6.4 Evaluation of Laboratory Analytical Data

The analytical data quality assessment will include initial screening checks of the laboratory reports for:

- Completeness of data report;
- Detection/reporting limit acceptability; and
- Reporting errors.

The technical evaluation will address the following quality control issues:

- Compliance with method holding times;
- Contamination in laboratory and field blanks;
- Accuracy (spikes, standard reference materials);
- Precision (replicate analyses); and
- Assignment of data qualifiers.

The specific types of quality control samples (e.g., method blanks, matrix spikes) that are reviewed to assess contamination, accuracy, and precision will be consistent with USEPA and RWQCB guidelines.

7. REPORTING

The data collected through implementation of this Plan will be reported pursuant the applicable permit or the Supplemental Monitoring program. Plant operational status on the day of sampling will also be reported.

8. REFERENCES

1. State Water Resources Control Board Water Quality Order No. 97-03-DWQ National Pollutant Discharge Elimination System (NPDES) General Permit No. Cas000001 Waste Discharge Requirements (WDRs) For Discharges Of Storm Water Associated With Industrial Activities Excluding Construction Activities.
2. State Water Resources Control Board Water Quality Order No. R2-2008-0011 General Waste Discharge Requirements for Discharges of Process Wastewaters from Aggregate Mining, Sand Washing, and Sand Offloading Facilities to Surface Waters.
3. Lehigh Southwest Cement Company, 2009. 2008-2009 Annual Report for Storm Water Discharges Associated with Industrial Activities. Prepared for the State of California State Water Resources Control Board.
4. URS, 2009. Stormwater Pollution Prevention Plan and 2009 Annual Storm Water Report for Lehigh Southwest Cement Company.

8. REFERENCES

1. State Water Resources Control Board Water Quality Order No. 97-03-DWQ National Pollutant Discharge Elimination System (NPDES) General Permit No. Cas000001 Waste Discharge Requirements (WDRs) For Discharges Of Storm Water Associated With Industrial Activities Excluding Construction Activities.
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3. Lehigh Southwest Cement Company, 2009. 2008-2009 Annual Report for Storm Water Discharges Associated with Industrial Activities. Prepared for the State of California State Water Resources Control Board.
4. URS, 2009. Stormwater Pollution Prevention Plan and 2009 Annual Storm Water Report for Lehigh Southwest Cement Company.

TABLES

TABLE 2-1
Monitoring Station Summary
Monitoring Plan
Lehigh Southwest Cement Company, Cupertino, California

LOCATION NAME	SAMPLE TYPE	DESCRIPTION	MONITORING REQUIREMENTS					FLOW MONITORING
			Routine GSP	Routine S&G - Discharge	Routine S&G - RW	Supplemental Sampling - Dry	Supplemental Sampling - Wet	
SL-13A	Discharge	Discharge from Pond 13A into Pond 13B		X		X	X	Install flow meter
SL-13B	Discharge	Discharge from Pond 13B (RWQCB D3 location)		X				Install flow meter
SL-4A3-PD	Discharge	Discharge from Pond 4A		X		X	X	Existing flow meter[1]
RWQCB A	Runoff	Potential discharge from Rock Plant Road under conveyor belt	X				X	Estimate using model[2]
RWQCB B	Runoff	Potential discharge from Rock Plant Road near concrete rail	X				X	Estimate using model[2]
RWQCB C	Runoff	Gully discharge downstream of crusher	X				X	Estimate using model[2]
RWQCB F	Discharge	Discharge from pipe upstream of Dinky Shed Basin	X				X	Estimate using model[2]
RWQCB G	Runoff	Diverted runoff around the Wastewater Treatment Plant	X					Estimate using model[2]
RWQCB I1	Runoff	Potential discharge from Pond 20 bypass pipe	X					Estimate using model[2]
RWQCB I3[3]	Runoff	Potential runoff from QC lab parking lot	X				X[4]	Estimate using model[2]
RWQCB I4	Runoff	Potential runoff from dirt road below QC lab	X					Estimate using model[2]
SL-30-PD	Discharge	Discharge from Pond 30 (East Materials Storage Area)	X					Pressure transducer[5]
SW-7	Runoff	Potential discharge from slope west of Primary Crusher	X					Estimate using model[2]
SW-8	Runoff	Potential discharge from flow near Quarry Water Truck Fill	X					Estimate using model[2]
SL-17-PD	Discharge	Discharge from Pond 9		X		X	X	Pressure transducer[5]
SL-17A-PD	Discharge	Discharge from Pond 17		X		X	X	Pressure transducer[5]
Dinky Shed Basin Overflow	Discharge	Potential discharge from Dinky Shed Basin		X		X	X	Estimate using model[2] and visual observation of flow rate
RWQCB E	Discharge	Potential discharge from Rock Plant sump		X		X	X	Pressure transducer[6]
RWQCB H	Discharge	Discharge from emergency reclaim water system		X		X	X	Pressure transducer[7]
Pond 20	Discharge	Potential discharge from Pond 20		X		X	X	Pressure transducer[5]
RWQCB L	RW	Permanente Creek, upstream of discharge points			X	X	X	Stream gauge[8]
RWQCB K	RW	Permanente Creek, downstream of discharge points			X	X	X	Stream gauge[8]

Notes:

1 - Flow will be monitored using the existing Quarry dewatering flow totalizer.
2 - Flow will be monitored using a Site rain gauge and drainage area model based on Site topography.
3 - Multiple samples or individual runoff locations will be sampled until representativeness of a single sampling point is verified.
4 - A single sampling location will be analyzed for the Supplemental Parameters.
5 - Flow will be calculated based on water height in the discharge pipe.
6 - Flow will be calculated based on geometry of upland sump and a pressure transducer recording water height.
7 - Flow will be calculated based on geometry of Rock Plant sump and a pressure transducer recording water height.
8 - Flow will be monitored using a notch weir and stream height measurements.

Abbreviations:

GSP - General Stormwater Permit
S&G - Sand and Gravel
RW - Receiving Water
QC - Quality Control

TABLE 2-2
Sampling Frequency
Monitoring Plan
Lehigh Southwest Cement Company, Cupertino, California

PARAMETER	SAMPLE TYPE	PLANNED SAMPLING FREQUENCY	PERMIT
Flow Rate	Continuous or daily	1/day	Routine S&G (discharge)
Flow Volume	Continuous or daily	1/day	Routine S&G (discharge)
Total Settable Matter	Grab	1/week (dicharge) 1/month (receiving water)	Routine S&G (discharge, receiving water)
Turbidity	Grab	1/week[1] 1/month	Routine S&G (discharge, receiving water)
Total Dissolved Solids	Grab	1/week	Routine S&G (discharge, receiving water)
Total Suspended Solids	C-24	1/week	Routine S&G (discharge) Routine IGP
Chloride	Grab	1/week	Routine S&G (discharge, receiving water)
Total Chlorine Residual	Grab	1/week	Routine S&G (discharge)
pH	Grab/Continuous	1/week continuous	Routine S&G (discharge, receiving water) Routine IGP
Oil & Grease	Grab/C-24	1/month	Routine S&G (discharge)
Specific Conductance	Grab	1/month	Routine IGP
Total Organic Carbon	Grab/C-24	1/month	Routine IGP
Dissolved Oxygen	Grab	1/month	Routine S&G (receiving water)
Temperature	Grab	1/month	Routine S&G (receiving water)
Hardness	Grab	1/month	Routine S&G (receiving water)
Salinity	Grab	1/month	Routine S&G (receiving water)
Arsenic	Grab/C-24	1/month[2]	Routine S&G (discharge)
Mercury	Grab/C-24	1/month[2]	Routine S&G (discharge)
Methyl Mercury	Grab/C-24	1/month[2]	Routine S&G (discharge)
CTR Metals	Grab/C-24	1/month[3]	Routine S&G (discharge, receiving water)
Priority Pollutants	Grab/C-24	1/month[4]	Routine S&G (discharge, receiving water)
Acute Toxicity	C-24	2/year[5]	Routine S&G (discharge, receiving water)

Notes:

1 - Turbidity measurements are required once per week for discharge and once per month for receiving waters.

2 - Arsenic and mercury sampling is normally required quarterly for the first year of operation and then twice per yaer thereafter if not triggered. However, the RWQCB requested these parameters be measured monthly in the 13 June 2011 Order.

3 - CTR Metals are required under Routine Sand and Permit at a frequency of once per permit cycle. However, the RWQCB requested these parameters be measured monthly in the 13 June 2011 Order. Analysis of individual parameters will cease at discharge locations returning concentration below the laboratory reporting limits.

4 - Priority Pollutnats are required under Routine Sand and Permit at a frequency of once per permit cycle. However, the RWQCB requested these parameters be measured monthly in the 13 June 2011 Order. Analysis of individual parameters will cease at discharge locations returning concentration below the laboratory reporting limits.

5 - Sampling must occur once during the the Wet Season and once during the Dry Season.

Abbreviations:

S&G - Sand and Gravel
C-24 - continuous 24-hour
IGP - Industrial General Permit
CTR - California Toxics Rule
RWQCB - Regional Water Quality Control Board

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TABLE 4-1
Routine Industrial General Permit Sampling Analytical Summary
Monitoring Plan
Lehigh Southwest Cement Company, Cupertino, California

PARAMETER	LABORATORY	ANALYTICAL METHOD	PRESERVATIVE	HOLDING TIME (days)	REPORTING LIMIT (mg/L)	DETECTION LIMIT (mg/L)
pH	Field Measurement	150.1 or SM 4500-H+B	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Specific Conductance	Field Measurement	120.1 or SM2510B	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Total Suspended Solids	Alpha	SM 2540D	none	7	10	4.2
Total Organic Carbon	Alpha	SM 5310B, C or D	H_3PO_4	28	1	0.04
Oil & Grease	Alpha	1664A or SM5520B	H_2SO_4	28	5	0.5

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TABLE 4-2
Routine Sand and Gravel Sampling Analytical Summary
Monitoring Plan
Lehigh Southwest Cement Company, Cupertino, California

ANALYTE	LABORATORY	ANALYTICAL METHOD	PRESERVATIVE	HOLDING TIME (days)	REPORTING LIMIT	DETECTION LIMIT
Total settable matter	Alpha	SM2540 F	*none*	2	0.1 mL	0.1 mL
Turbidity	Alpha	180.1	*none*	2	0.1 NTU	*not applicable*
Total dissolved solids	Alpha	SM 2540 C	*none*	7	10 mg/L	4.2 mg/L
Total suspended solids	Alpha	SM 2540 D	*none*	7	1 mg/L	0
Chloride	Alpha	300.0	*none*	28	0.5 mg/L	0
Total Chlorine Residual	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
pH	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Oil & grease	Alpha	1664 A	H_2SO_4	28	5 mg/L	0.5
Specific Conductance	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Total organic carbon	Alpha	SM5310 C	H_2PO_4	28	1 mg/L	0.04
Temperature	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Dissolved oxygen	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Hardness	Alpha	SM2340 B	HNO_3	180	1 mg/L	0.03 mg/L
Salinity	Alpha	SM2520	*none*	28	2 ppt	2 ppt
Arsenic	Alpha	200.8	HNO_3	180	0.5	0.07
Mercury	Alpha	1631	*none*	28	0.5 ppt	0.2 ppt
Methyl mercury	Alpha (subcontract)	1630 M	HCL	28	0.05 ppt	0.02 ppt
Acute Toxicity	Pacific EcoRisk	*See Note 2.*	*none*	36 hour	*not applicable*	*not applicable*
CTR Metals Priority Pollutants	*REFER TO TABLE 4-3 FOR CTR METALS AND PRIORITY POLLUTANT DETAILS*					

Notes:

1 - Analytical Method numbers listed are USEPA methods unless otherwise noted.

2 - Bioassays will be performed according to the USEPA-approved method in 40 CFR Part 136, currently *Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to freshwater and Marine organisms, 5th Edition*.

Abbreviations:

USEPA - United States Environmental Protection Agency
µg/L - micrograms per liter
SM - Standard Method
mL - milliliters
NTU - nephelometric turbidity units
mg/L - milligrams per liter
ppt - parts per thousand
CTR - California Toxics Rule

TABLE 4-3
Supplemental Parameter Sampling Analytical Summary
Monitoring Plan
Lehigh Southwest Cement Company, Cupertino, California

ANALYTE	LABORATORY	ANALYTICAL METHOD (USEPA-APPROVED)[1]	PRESERVATIVE	HOLDING TIME (days)	REPORTING LIMIT (µg/L)[2]	DETECTION LIMIT (µg/L)[2]
pH	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Temperature	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Dissolved oxygen	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Total residual chlorine	Lehigh	*Field Measurement*	*not applicable*	*not applicable*	*not applicable*	*not applicable*
Total settable matter	Alpha	SM2540 F	*none*	2	0.1 mL	0.1 mL
Turbidity	Alpha	180.1	*none*	2	0.1 NTU	*not applicable*
Total dissolved solids	Alpha	SM 2540 C	*none*	7	10 mg/L	4.2 mg/L
Total suspended solids	Alpha	SM 2540 D	*none*	7	1 mg/L	0
Chloride	Alpha	300.0	*none*	28	0.5 mg/L	0
Salinity	Alpha	SM2520	*none*	28	2 ppt	2 ppt
Oil & grease	Alpha	1664 A	H_2SO_4	28	5 mg/L	0.5
Total organic carbon	Alpha	SM5310 C	H_2PO_4	28	1 mg/L	0.04
Chemical oxygen demand	Alpha	SM5220 D	H_2SO_4	28	10 mg/L	3.2
Hardness	Alpha	SM2340 B	HNO_3	180	1 mg/L	0.03 mg/L
Antimony	Alpha	200.8	HNO_3	180	0.5	0.2
Arsenic	Alpha	200.8	HNO_3	180	0.5	0.07
Beryllium	Alpha	200.8	HNO_3	180	0.1	0.02
Cadmium	Alpha	200.8	HNO_3	180	0.1	0.02
Chromium (III)	Alpha	*calculated*	*not applicable*	*not applicable*	0.01	0.005
Chromium (VI)	Alpha	SM 3500	$(NH_4)_2SO_4$	28	0.01	0.005
Copper	Alpha	200.8	HNO_3	180	0.5	0.04
Lead	Alpha	200.8	HNO_3	180	0.25	0.02
Mercury	Alpha	1631	*none*	28	0.5 ppt	0.2 ppt
Methyl mercury	Alpha (subcontract)	1630 M	HCL	28	0.05 ppt	0.02 ppt
Nickel	Alpha	200.8	HNO_3	180	0.5	0.06
Total Selenium	Alpha	200.8	HNO_3	180	1	0.07
Dissolved selenium	Alpha	200.8	HNO_3	180[3]	1	0.07
Selenate	Alpha	*no standard method*[4]	*amber bottle*	5	*low ppb*	*low ppb*
Selenite	Alpha	*no standard method*[4]	*amber bottle*	5	*low ppb*	*low ppb*
Silver	Alpha	200.8	HNO_3	180	0.1	0.02

Thallium	Alpha	200.8	HNO_3	180	0.1	0.02
Zinc	Alpha	200.8	HNO_3	180	1	0.5
Cyanide	Alpha	Lachet 10-204-001-x	NaOH	14	5	2
Asbestos	Alpha (subcontract)	100.2	*none*	2	*not applicable*	*not applicable*
2,3,7,8-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.010	0.00200
1,2,3,7,8-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
2,3,4,7,8-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,4,7,8-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,6,7,8-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
2,3,4,6,7,8-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,7,8,9-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,4,6,7,8-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,4,7,8,9-dibenzofuran	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,4,6,7,8,9-debenzofuran	Alpha (subcontract)	1613	*none*	180	0.10	0.01000
2,3,7,8-dibenzo-p-dioxin	Alpha (subcontract)	1613	*none*	180	0.010	0.00200
1,2,3,7,8-dibenzo-p-dioxin	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,4,7,8-dibenzo-p-dioxin	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,6,7,8-dibenzo-p-dioxin	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,7,8,9-dibenzo-p-dioxin	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,4,6,7,8-dibenzo-p-dioxin	Alpha (subcontract)	1613	*none*	180	0.050	0.00500
1,2,3,4,6,7,8,9-dibenzo-p-dioxin	Alpha (subcontract)	1613	*none*	180	0.10	0.01000
Acrolein	Alpha	624	*none*	3	2.0	0.62
Acrylonitrile	Alpha	624	*none*	3	2.0	0.21
Benzene	Alpha	624	*none*	3	0.30	0.23
Ethylbenzene	Alpha	624	*none*	3	0.50	0.44
Toluene	Alpha	624	*none*	3	0.30	0.27
Bromoform	Alpha	624	*none*	3	0.50	0.39
Carbon tetrachloride	Alpha	624	*none*	3	0.50	0.30
Chlorobenzene	Alpha	624	*none*	3	0.50	0.41
Chlorodibromomethane	Alpha	624	*none*	3	0.50	0.47
Chloroethane	Alpha	624	*none*	3	0.50	0.25
2-Chloroethylvinyl ether	Alpha	624	*none*	3	1.0	0.93
Chloroform	Alpha	624	*none*	3	0.50	0.41
1,2-Dichlorobenzene	Alpha	624	*none*	3	0.50	0.45
1,3-Dichlorobenzene	Alpha	624	*none*	3	0.50	0.47
1,4-Dichlorobenzene	Alpha	624	*none*	3	0.50	0.48
Dichlorobromomethane	Alpha	624	*none*	3	0.50	0.48
1,1-Dichloroethane	Alpha	624	*none*	3	0.50	0.43
1,2-Dichloroethane	Alpha	624	*none*	3	0.50	0.42
1,1-Dichloroethene	Alpha	624	*none*	3	0.50	0.14

1,2-Dichloropropane	Alpha	624	*none*	3	0.50	0.24
1,3-Dichloropropene	Alpha	624	*none*	3	0.50	0.49
Bromomethane	Alpha	624	*none*	3	0.50	0.27
Chloromethane	Alpha	624	*none*	3	0.50	0.45
Methylene chloride	Alpha	624	*none*	3	0.50	0.17
1,1,2,2-tetrachloroethane	Alpha	624	*none*	3	0.50	0.17
Tetrachloroethylene	Alpha	624	*none*	3	0.50	0.33
trans-1,2-dichlorothene	Alpha	624	*none*	3	0.50	0.48
1,1,1-trichloroethane	Alpha	624	*none*	3	0.50	0.36
1,1,2-trichloroethane	Alpha	624	*none*	3	0.50	0.49
Trichloroethene	Alpha	624	*none*	3	0.50	0.47
Vinyl chloride	Alpha	624	*none*	3	0.50	0.32
2-chlorophenol	Alpha	625	*none*	7	5.0	0.66
2,4-dichlorophenol	Alpha	625	*none*	7	5.0	0.66
2,4-dimethylphenol	Alpha	625	*none*	7	2.0	1.2
4,6-dinitro-2-methylphenol	Alpha	625	*none*	7	5.0	0.75
2,4-dinitrophenol	Alpha	625	*none*	7	5.0	1.3
2-nitrophenol	Alpha	625	*none*	7	10	0.90
4-nitrophenol	Alpha	625	*none*	7	10	0.99
4-chloro-3-methylphenol	Alpha	625	*none*	7	1.0	0.58
Pentachlorophenol	Alpha	625	*none*	7	5.0	1.4
Phenol	Alpha	625	*none*	7	1.0	0.46
2,4,6-trichlorophenol	Alpha	625	*none*	7	10	0.74
Acenaphthene	Alpha	625SIM	*none*	7	1.0	0.57
Acenaphthylene	Alpha	625SIM	*none*	7	10	0.48
Anthracene	Alpha	625SIM	*none*	7	10	0.39
Benzo(a)anthracene	Alpha	625SIM	*none*	7	5.0	0.39
Benzo(a)pyrene	Alpha	625SIM	*none*	7	10	0.50
Benzo(b)fluoranthene	Alpha	625SIM	*none*	7	10	0.64
Benzo(g,h,i)perylene	Alpha	625SIM	*none*	7	5.0	0.93
Benzo(k)fluoranthene	Alpha	625SIM	*none*	7	10	0.34
Dibenzo(a,h)anthracene	Alpha	625SIM	*none*	7	10	0.83
Fluoranthene	Alpha	625SIM	*none*	7	1.0	0.76
Fluorene	Alpha	625SIM	*none*	7	10	0.81
Indeno(1,2,3-c,d)pyrene	Alpha	625SIM	*none*	7	10	0.63
Pyrene	Alpha	625SIM	*none*	7	10	0.45
Bis(2-ethylhexyl) phthalate	Alpha	625	*none*	7	5.0	0.83
Butylbenzyl phthalate	Alpha	625	*none*	7	10	0.64
Diethyl phthalate	Alpha	625	*none*	7	2.0	0.86
Dimethyl phthalate	Alpha	625	*none*	7	2.0	0.68

Di-n-butyl phthalate	Alpha	625	*none*	7	10	0.91
Di-n-octyl phthalate	Alpha	625	*none*	7	10	0.65
Benzidine	Alpha	625	*none*	7	5.0	3.4
Bis(2-chloroethoxy) methane	Alpha	625	*none*	7	5.0	0.81
Bis(2-chloroethyl) ether	Alpha	625	*none*	7	1.0	0.14
Bis(2-chloroisopropyl) ether	Alpha	625	*none*	7	2.0	0.41
4-Bromophenyl phenyl ether	Alpha	625	*none*	7	5.0	0.43
2-chloronaphthalene	Alpha	625	*none*	7	10	0.57
4-chlorophenyl phenyl ether	Alpha	625	*none*	7	5.0	0.93
Chrysene	Alpha	625	*none*	7	10	0.76
3,3'-dichlorobenzidine	Alpha	625	*none*	7	5.0	2.0
2,4-dinitrotoluene	Alpha	625	*none*	7	5.0	0.68
2,6-dinitrotoluene	Alpha	625	*none*	7	5.0	0.54
1,2-diphenylhydrazine	Alpha	625	*none*	7	1.0	0.33
Hexachlorobenzene	Alpha	625	*none*	7	1.0	0.89
Hexachlorobutadiene	Alpha	625	*none*	7	1.0	0.84
Hexachlorocyclopentadiene	Alpha	625	*none*	7	5.0	0.45
Hexachloroethane	Alpha	625	*none*	7	1.0	0.58
Isophorone	Alpha	625	*none*	7	1.0	0.81
Naphthalene	Alpha	625	*none*	7	1.0	0.66
Nitrobenzene	Alpha	625	*none*	7	1.0	0.74
N-Nitrosodimethylamine	Alpha	625	*none*	7	5.0	1.1
N-Nitrosodi-n-Propylamine	Alpha	625	*none*	7	5.0	0.85
N-Nitrosodiphenylamine	Alpha	625	*none*	7	1.0	0.90
Phenanthrene	Alpha	625	*none*	7	5.0	0.65
1,2,4-trichlorobenzene	Alpha	625	*none*	7	5.0	0.59
Aldrin	Alpha	608	*none*	7	0.010	0.0060
α-BHC	Alpha	608	*none*	7	0.010	0.0010
β-BHC	Alpha	608	*none*	7	0.050	0.0030
γ-BHC (lindane)	Alpha	608	*none*	7	0.010	0.0040
δ-BHC	Alpha	608	*none*	7	0.050	0.0020
Chlordane	Alpha	608	*none*	7	0.050	0.035
4,4'-DDT	Alpha	608	*none*	7	0.020	0.0070
4,4'-DDE	Alpha	608	*none*	7	0.020	0.0020
4,4'-DDD	Alpha	608	*none*	7	0.020	0.0030
Dieldrin	Alpha	608	*none*	7	0.010	0.0020
Endosulfan (alpha)	Alpha	608	*none*	7	0.010	0.0020
Endosulfan (beta)	Alpha	608	*none*	7	0.020	0.0020
Endosulfan Sulfate	Alpha	608	*none*	7	0.050	0.0020
Endrin	Alpha	608	*none*	7	0.010	0.0060

Endrin aldehyde	Alpha	608	*none*	7	0.050	0.0080
Heptachlor	Alpha	608	*none*	7	0.020	0.0040
Heptachlor epoxide	Alpha	608	*none*	7	0.020	0.0050
PCB, Aroclor 1016	Alpha	608	*none*	7	0.50	0.040
PCB, Aroclor 1221	Alpha	608	*none*	7	0.50	0.050
PCB, Aroclor 1232	Alpha	608	*none*	7	0.50	0.050
PCB, Aroclor 1242	Alpha	608	*none*	7	0.50	0.050
PCB, Aroclor 1248	Alpha	608	*none*	7	0.50	0.050
PCB, Aroclor 1254	Alpha	608	*none*	7	0.50	0.050
PCB, Aroclor 1260	Alpha	608	*none*	7	0.50	0.050
Toxaphene	Alpha	608	*none*	7	0.50	0.45
Tributyltin	Alpha (subcontract)	282.3	*none*	35	0.05	0.02
Chlorpyrifos	Alpha	614	*none*	7	0.5	0.2
Diazinon	Alpha	614	*none*	7	0.5	0.3

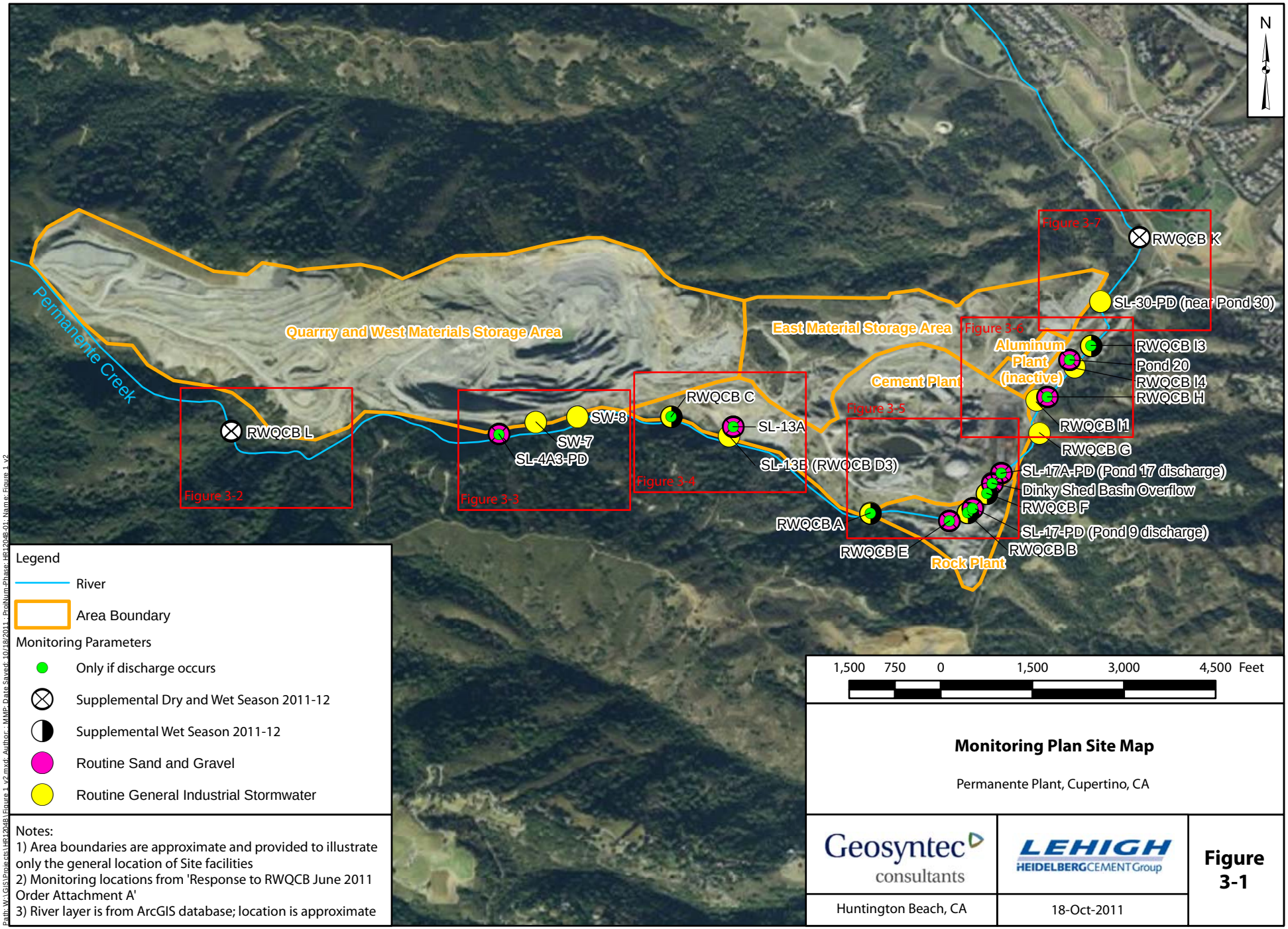
Notes:

1 - Analytical Method numbers listed are USEPA methods unless otherwise noted.
2 - Concentrations are listed in µg/L except where otherwise indicated.
3 - Dissolved selenium must be field filter into acid containing bottles within 15 minutes of obtaining sample.
4 - No standard method exists for the measurement of selenate and selenite.

Abbreviations:

USEPA - United States Environmental Protection Agency
µg/L - micrograms per liter
SM - Standard Method
mL - milliliters
NTU - nephelometric turbidity units
mg/L - milligrams per liter
ppt - parts per thousand

FIGURES



Notes:
1) Area boundaries are approximate and provided to illustrate only the general location of Site facilities
2) Monitoring locations from 'Response to RWQCB June 2011 Order Attachment A'
3) River layer is from ArcGIS database; location is approximate

Monitoring Plan Site Map

Permanente Plant, Cupertino, CA

Geosyntec consultants

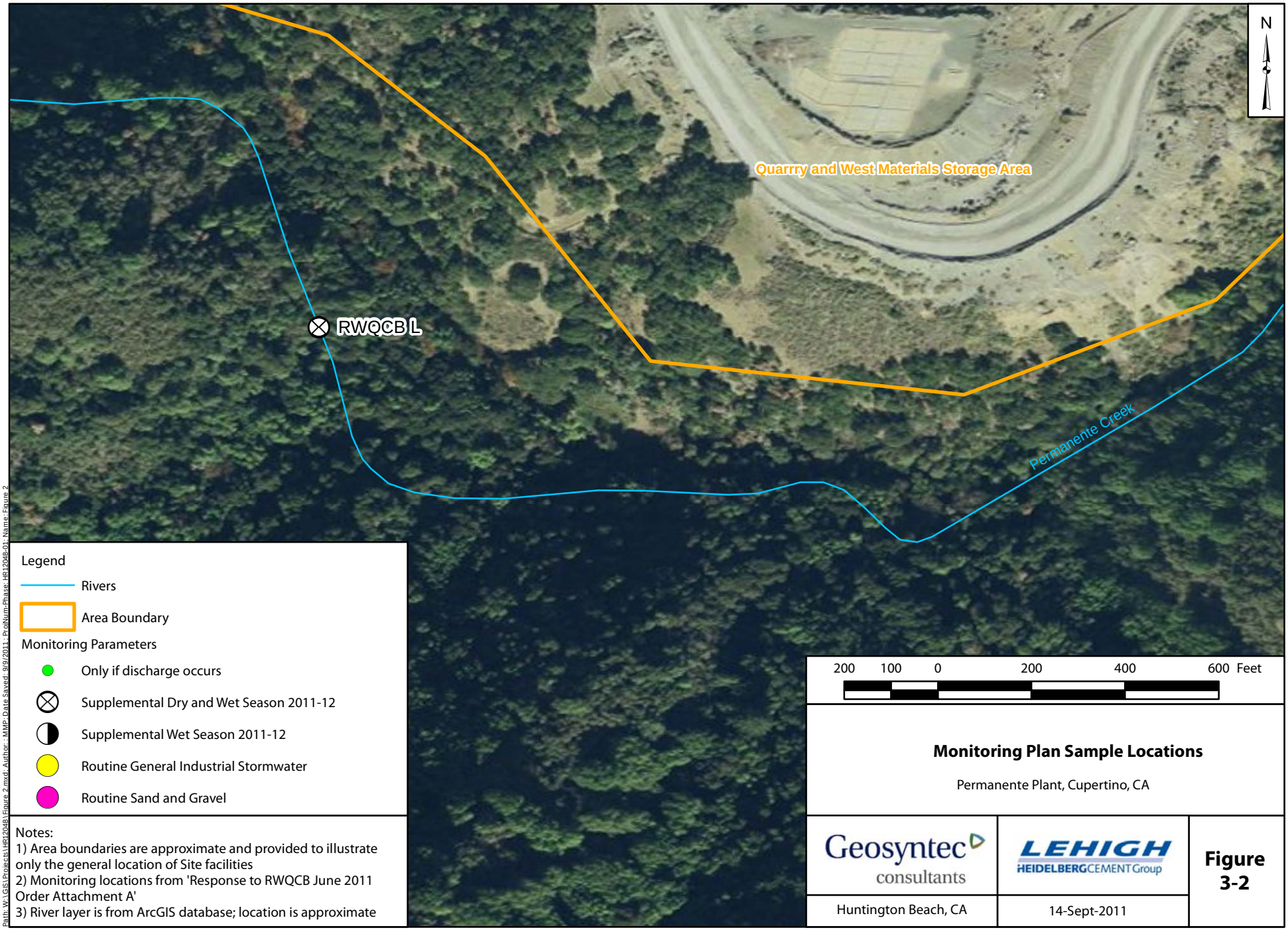
Huntington Beach, CA

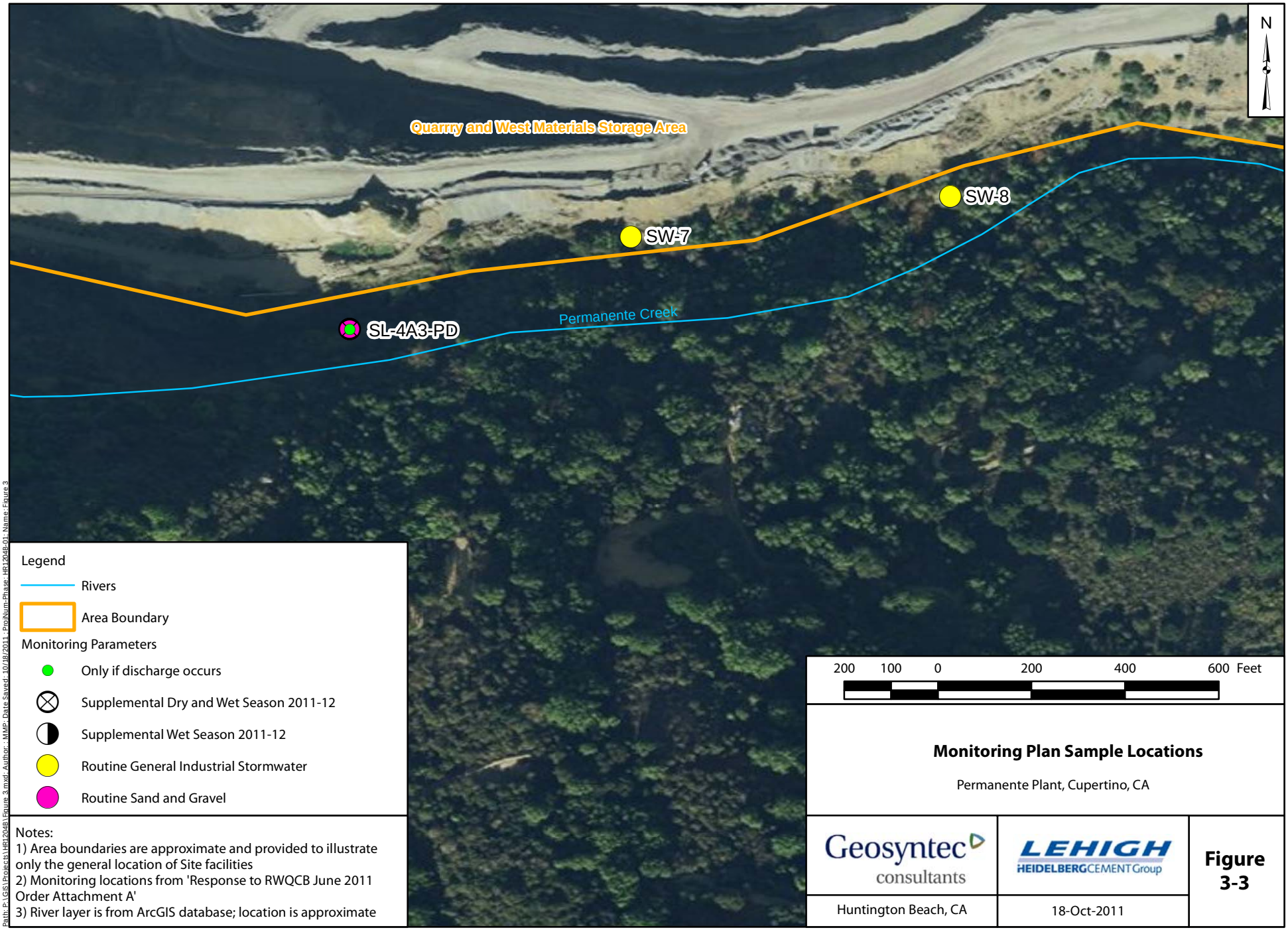
LEHIGH HEIDELBERGCEMENT Group

18-Oct-2011

Figure 3-1

Path: W:\GIS\Projects\HR1204B\Figure 1_v2.mxd Author: - MMP- Date Saved: 10/18/2011 - ProNum Phase: HR1204B-01 Name: Figure 1_v2


N
Quarrry and West Materials Storage Area
RWQCB L
Permanente Creek
Legend
Rivers
Area Boundary
Monitoring Parameters
Only if discharge occurs
Supplemental Dry and Wet Season 2011-12
Supplemental Wet Season 2011-12
Routine General Industrial Stormwater
Routine Sand and Gravel
Notes:
1) Area boundaries are approximate and provided to illustrate only the general location of Site facilities
2) Monitoring locations from 'Response to RWQCB June 2011 Order Attachment A'
3) River layer is from ArcGIS database; location is approximate
200 100 0 200 400 600 Feet
Monitoring Plan Sample Locations
Permanente Plant, Cupertino, CA
Geosyntec consultants
LEHIGH HEIDELBERGCEMENT Group
Figure 3-2
Huntington Beach, CA
14-Sept-2011
Path: W:\GIS\Projects\HR1204B\Figure 2.mxd- Author: KMP- Date Saved: 9/9/2011 - ProjNum-Phase: HR1204B-01- Name: Figure 2



Notes:
1) Area boundaries are approximate and provided to illustrate only the general location of Site facilities
2) Monitoring locations from 'Response to RWQCB June 2011 Order Attachment A'
3) River layer is from ArcGIS database; location is approximate

Monitoring Plan Sample Locations

Permanente Plant, Cupertino, CA

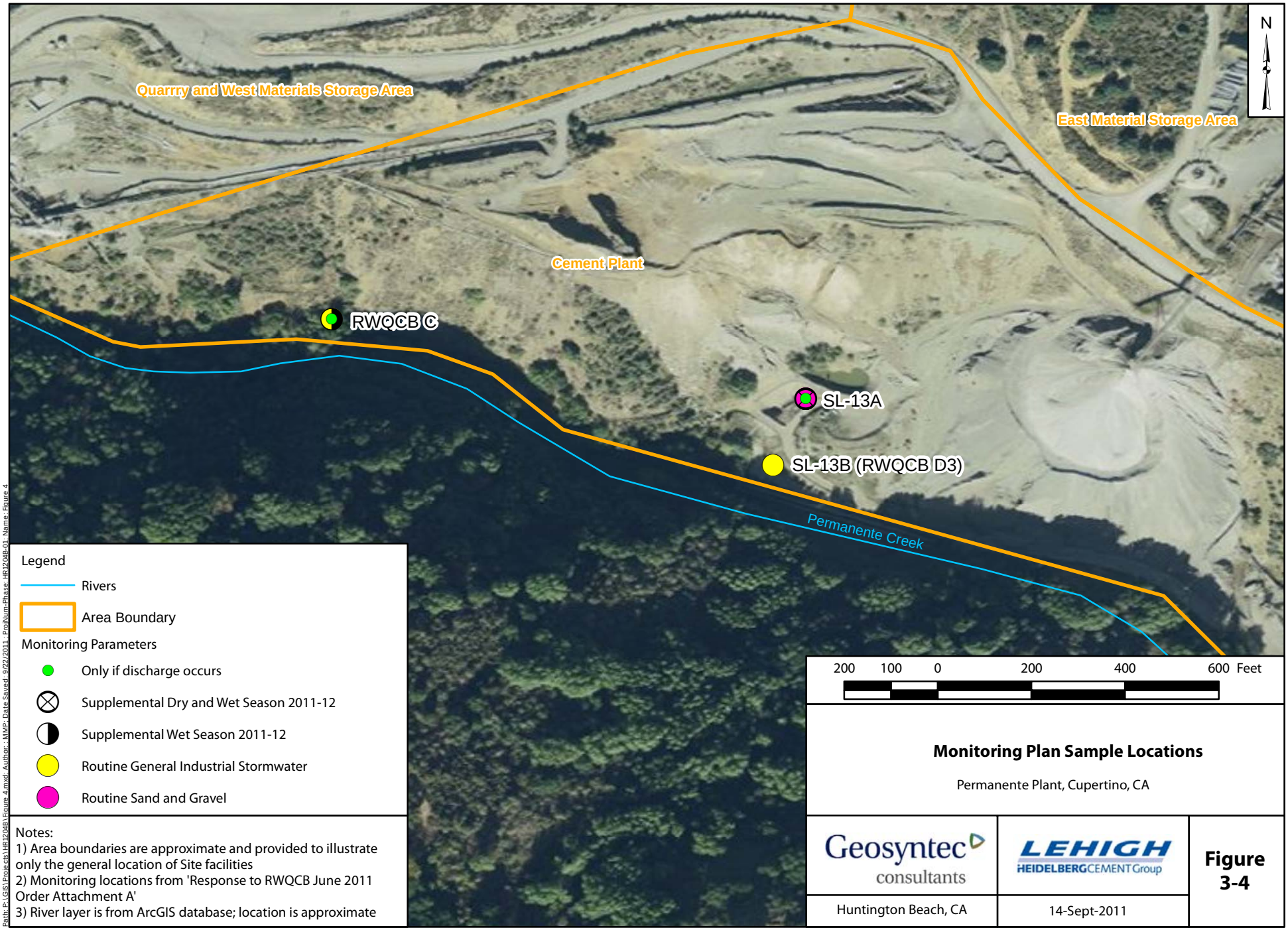
Geosyntec consultants

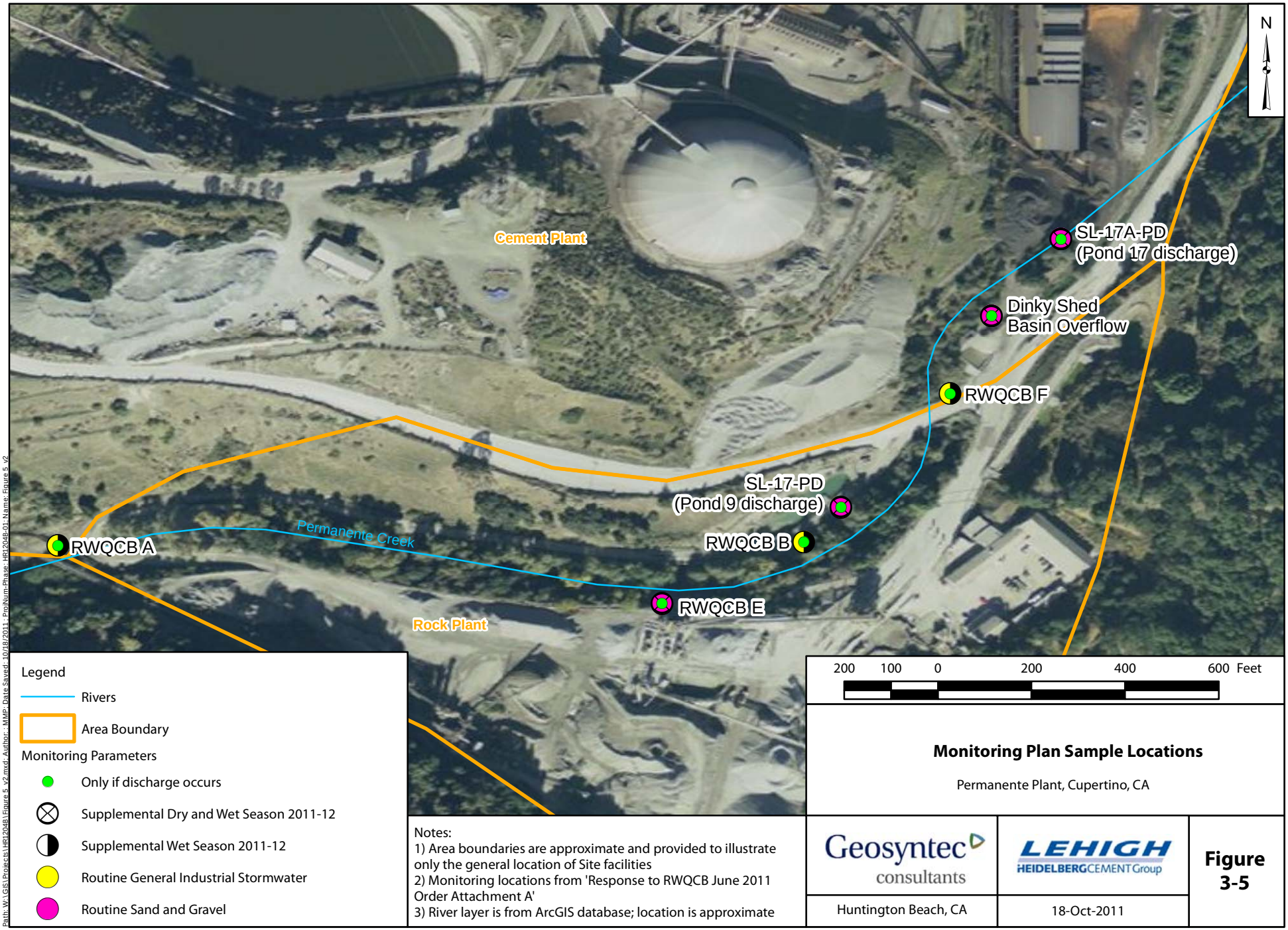
LEHIGH HEIDELBERGCEMENT Group

Huntington Beach, CA

18-Oct-2011

Figure 3-3


Quarrry and West Materials Storage Area
East Material Storage Area
Cement Plant
RWQCB C
SL-13A
SL-13B (RWQCB D3)
Permanente Creek
N
Legend
Rivers
Area Boundary
Monitoring Parameters
Only if discharge occurs
Supplemental Dry and Wet Season 2011-12
Supplemental Wet Season 2011-12
Routine General Industrial Stormwater
Routine Sand and Gravel
200 100 0 200 400 600 Feet
Notes:
1) Area boundaries are approximate and provided to illustrate only the general location of Site facilities
2) Monitoring locations from 'Response to RWQCB June 2011 Order Attachment A'
3) River layer is from ArcGIS database; location is approximate
Monitoring Plan Sample Locations
Permanente Plant, Cupertino, CA
Geosyntec consultants
LEHIGH HEIDELBERGCEMENT Group
Figure 3-4
Huntington Beach, CA
14-Sept-2011
Path: P:\GIS\Projects\HB1204B\Figure 4.mxd- Author: - MMP- Date Saved: 9/22/2011 - ProjNum-Phase: HB1204B-01- Name: Figure 4



Notes:
1) Area boundaries are approximate and provided to illustrate only the general location of Site facilities
2) Monitoring locations from 'Response to RWQCB June 2011 Order Attachment A'
3) River layer is from ArcGIS database; location is approximate

Monitoring Plan Sample Locations

Permanente Plant, Cupertino, CA

Geosyntec consultants

Huntington Beach, CA

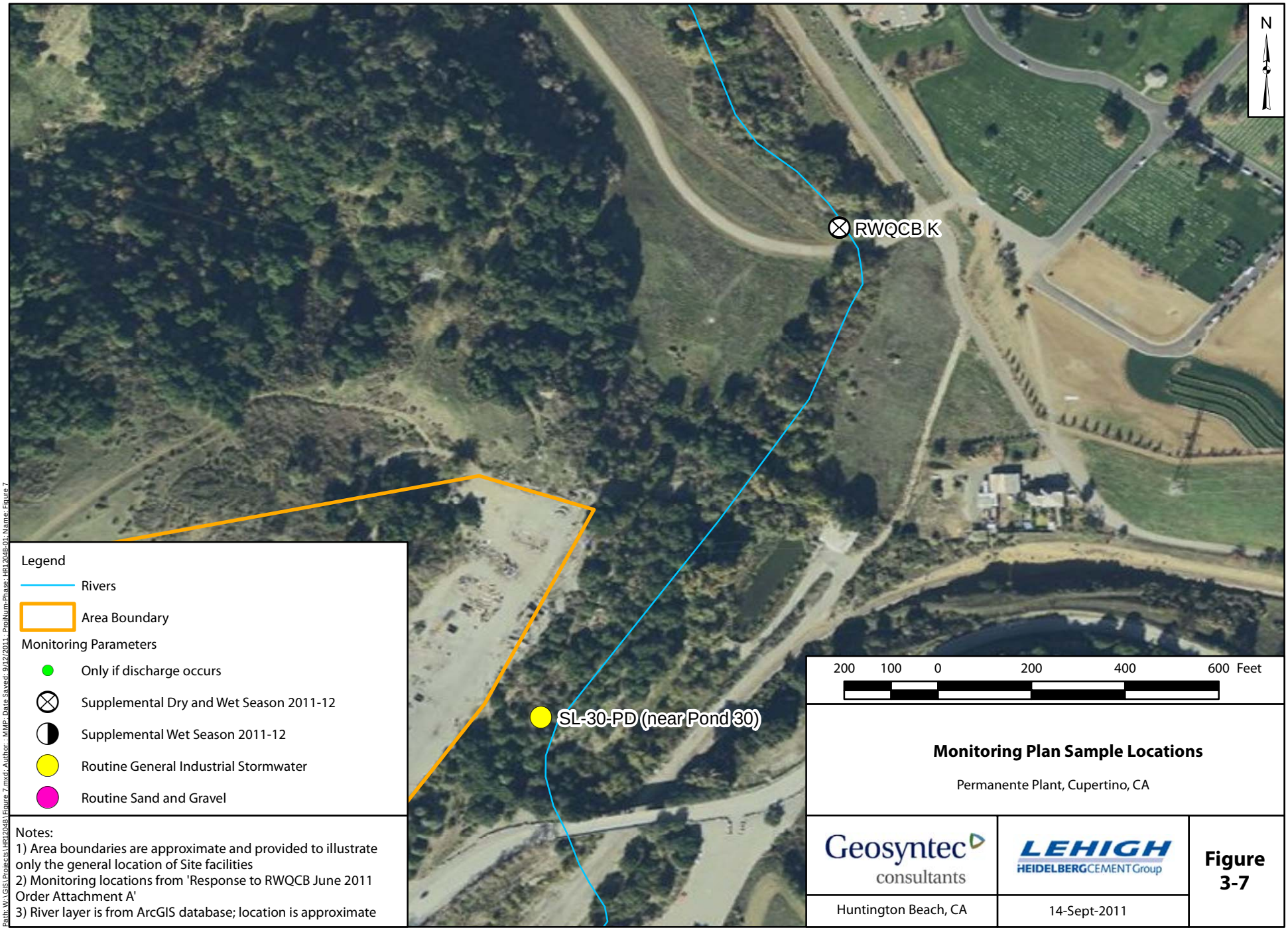
LEHIGH HEIDELBERGCEMENT Group

18-Oct-2011

Figure 3-5

Path: W:\GIS\Projects\HR1204B\Figure 5_v2.mxd - Author: - MMP - Date Saved: 10/18/2011 - ProjNum-Phase: HR1204B-01 - Name: Figure 5_v2


East Material Storage Area
Aluminum Plant (inactive)
Permanente Creek
RWQCB I3
Pond 20
RWQCB I4
RWQCB H
RWQCB I1
RWQCB G
N
Legend
Rivers
Area Boundary
Monitoring Parameters
Only if discharge occurs
Supplemental Dry and Wet Season 2011-12
Supplemental Wet Season 2011-12
Routine General Industrial Stormwater
Routine Sand and Gravel
Notes:
1) Area boundaries are approximate and provided to illustrate only the general location of Site facilities
2) Monitoring locations from 'Response to RWQCB June 2011 Order Attachment A'
3) River layer is from ArcGIS database; location is approximate
200 100 0 200 400 600 Feet
Monitoring Plan Sample Locations
Permanente Plant, Cupertino, CA
Geosyntec consultants
LEHIGH HEIDELBERGCEMENT Group
Figure 3-6
Huntington Beach, CA
14-Sept-2011
Path: W:\GIS\Projects\HR1204B\Figure 6.mxd - Author: - MMP - Date Saved: 9/12/2011 - ProjNum-Phase: HR1204B-01 - Name: Figure 6


N
RWQCB K
SL-30-PD (near Pond 30)
Legend
Rivers
Area Boundary
Monitoring Parameters
Only if discharge occurs
Supplemental Dry and Wet Season 2011-12
Supplemental Wet Season 2011-12
Routine General Industrial Stormwater
Routine Sand and Gravel
200 100 0 200 400 600 Feet
Notes:
1) Area boundaries are approximate and provided to illustrate only the general location of Site facilities
2) Monitoring locations from 'Response to RWQCB June 2011 Order Attachment A'
3) River layer is from ArcGIS database; location is approximate
Monitoring Plan Sample Locations
Permanente Plant, Cupertino, CA
Geosyntec consultants
LEHIGH HEIDELBERGCEMENT Group
Figure 3-7
Huntington Beach, CA
14-Sept-2011
Path: W:\GIS\Projects\HR1204B\Figure 7.mxd - Author: KMP - Date Saved: 9/12/2011 - ProjNum-Phase: HR1204B-01 - Name: Figure 7

Attachment:

Lehigh Report to Water Board, September 2, 2011

Re: Lehigh Southwest Cement Company discharge September 1-2, 2011

LEHIGH
HEIDELBERGCEMENT Group

Lehigh Southwest Cement Company
Permanente Plant
24001 Stevens Creek Boulevard
Phone (408) 996-4000
Fax (408) 725-1019
www.lehighcement.com

September 2, 2011

Christine Boschen
Cecil Felix
San Francisco Bay Regional Water Quality Control Board
1515 Clay St. Suite 1400
Oakland, CA 94612

RE: Lehigh Southwest Cement Company discharge September 1-2, 2011

Ms. Boschen and Mr. Felix:

This letter is to report an unauthorized discharge of process water to Permanente Creek from Lehigh Southwest Cement Company's Cupertino facility.

At approximate 7:00 pm September 1, 2011, about the facilities raw material storage area was reported to be flooding. The flooding was based on what was guessed to be a fresh (municipal) water line rupture between the County water on-site water pump station (OFPW1/2) and the ½ million gallon water head tank. The rupture was in dense vegetation behind the old wet plant "thickener tanks". These tanks are currently used to store reclaimed water as part of the plant's Reclaimed Water System.

The site could not be safely accessed until the next morning, when the dense vegetation could be removed. This morning, water was running down the hill into the facility's underground tunnels that are a part of the Reclaimed Water System. This potable water was mixed into the Reclaimed water stream. The added volume to this system was flooding Area 1, the raw materials storage area. The facility choices were to:

1. Bypass the water via the emergency discharge portion of the water diversion structure, or
2. The raw material storage area would flood and eventually discharge to Permanente Creek.

Lehigh management directed to divert the structure to bypass the reclaim water to Permanente Creek. This was done at approximately 8 pm on September 1, 2011.

On September 2, 2011, yard personnel were able to access the rupture water line. It was the fresh water source line. The line leakage was suppressed at about 3:30 pm. The diversion was set back to recirculation by 5 pm September 2, 2011.

Samples were collected at about 2:30 pm on September 2, 2011, but could not be delivered to the lab: they will remain in refrigeration until they are picked up on Tuesday September 6, 2011. Total discharge to the creek is estimated to be 0.01 m^3/s, or about 160 gpm, for a period of about 21 hours. This was confirmed several times during September 2, 2011, the last time during the 2:30 pm sampling of the discharge.

The ruptured fresh water line leak flow rate was estimated to be about 80 gpm based field measurements.

Please do not hesitate to call me with any questions or comments at (408) 996-4262 or at scott.renfrew@lehighhanson.com.

Thank you,

Scott Renfrew
Environmental Manager
Lehigh Southwest Cement Company – Cupertino Plant

cc. Henrik Wesseling, LSCC
Axel Conrads, LSCC
Greg Knapp, Lehigh Hanson
Wayne Whitlock, Pillsbury LLC

LEHIGH
HEIDELBERGCEMENT Group

Lehigh Southwest Cement Company
Permanente Plant
24001 Stevens Creek Boulevard
Phone (408) 996-4000
Fax (408) 725-1019
www.lehighcement.com

October 4, 2011

Christine Boschen
Cecil Felix
San Francisco Bay Regional Water Quality Control Board
1515 Clay St. Suite 1400
Oakland, CA 94612

RE: Analysis of the discharge on September 1-2, 2011

Ms. Boschen and Mr. Felix:

This letter is a follow-up report to the September 2, 2011 discharge of process water report to Permanente Creek at Lehigh Southwest Cement Company's Cupertino facility.

Please see the enclosed analysis from the sample of the water discharged to Permanente Creek.

Please do not hesitate to call me with any questions or comments at (408) 996-4262 or at scott.renfrew@lehighhanson.com.

Thank you,

Scott Renfrew
Environmental Manager
Lehigh Southwest Cement Company – Cupertino Plant

cc. Henrik Wesseling, LSCC
Axel Conrads, LSCC
Greg Knapp, Lehigh Hanson

Alpha Analytical Laboratories Inc.
e-mail: clientservices@alpha-labs.com
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ELAP Certificate Numbers 1551 and 2728

21 September 2011

Lehigh Southwest Cement Company
Attn: Scott Renfrew
7660 Imperial Way
Allentown, PA 18195
RE: Storm Water Project
Work Order: 11I0201

Enclosed are the results of analyses for samples received by the laboratory on 09/06/11 20:40. 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 Analytical Laboratories Inc.
e-mail: clientservices@alpha-labs.com
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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
7660 Imperial Way
Allentown, PA 18195
Attn: Scott Renfrew

Report Date: 09/21/11 10:08
Project No: Storm Water Project
Project ID: Storm Water Project

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
11I0201	09/06/2011 20:40	SEL HANSONCUP	4500451965

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ED 090211	11I0201-01	Water	09/02/11 14:35	09/06/11 20:40

Bruce Gove
Laboratory Director

9/21/2011

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

Lehigh Southwest Cement Company
7660 Imperial Way
Allentown, PA 18195
Attn: Scott Renfrew

Report Date: 09/21/11 10:08
Project No: Storm Water Project
Project ID: Storm Water Project

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
11I0201	09/06/2011 20:40	SEL HANSONCUP	4500451965

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
ED 090211 (11I0201-01)			**Sample Type: Water**			**Sampled: 09/02/11 14:35**		
Metals by EPA 6000/7000 Series Methods								
Antimony	EPA 6010	AI10643	09/08/11 10:22	09/12/11 15:45	1	ND mg/l	0.020	
Arsenic	EPA 7060	"	"	09/12/11 15:56	"	ND "	0.0020	
Barium	EPA 6010	"	"	09/12/11 15:45	"	**0.054 "**	**0.010**	
Beryllium	"	"	"	"	"	ND "	0.010	
Cadmium	"	"	"	"	"	ND "	0.010	
Chromium	"	"	"	"	"	ND "	0.050	
Cobalt	"	"	"	"	"	ND "	0.020	
Copper	"	"	"	"	"	ND "	0.10	
Lead	"	"	"	"	"	ND "	0.050	
Mercury	EPA 7470	AI11317	09/13/11 08:24	09/15/11 12:54	"	ND "	0.0010	
Molybdenum	EPA 6010	AI10643	09/08/11 10:22	09/12/11 15:45	"	ND "	0.50	
Nickel	"	"	"	"	"	ND "	0.10	
Selenium	EPA 7740	"	"	09/14/11 10:52	"	**0.0066 "**	**0.0050**	
Silver	EPA 6010	"	"	09/12/11 15:45	"	ND "	0.010	
Thallium	"	"	"	"	"	ND "	0.40	
Vanadium	"	"	"	"	"	ND "	0.50	
Zinc	"	"	"	"	"	ND "	0.10	
Conventional Chemistry Parameters by APHA/EPA Methods								
Residual Chlorine	SM4500-Cl F	AI10810	09/02/11 14:47	09/02/11 14:55	1	ND mg/l	0.10	
Biochemical Oxygen Demand	SM5210B	AI10723	09/07/11 08:03	09/12/11 12:46	"	ND "	5.0	
Dissolved Oxygen	SM4500-O G	AI10740	09/07/11 14:00	09/07/11 17:00	"	**9.8 "**	**0.10**	T-14
pH	SM4500-H+ B	"	"	"	"	**9.41 pH Units**	**1.00**	T-14
Sulfide, dissolved	SM4500SD	AI10922	09/07/11 15:00	09/09/11 15:30	"	ND mg/l	0.10	T-5
Total Suspended Solids	SM2540D	AI10817	09/08/11 10:22	09/12/11 12:43	"	**29 "**	**1.0**	
Turbidity	EPA 180.1	AI10740	09/07/11 14:00	09/07/11 17:00	"	**34 NTU**	**0.10**	T-14

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

9/21/2011

Alpha Analytical Laboratories Inc.
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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
7660 Imperial Way
Allentown, PA 18195
Attn: Scott Renfrew

Report Date: 09/21/11 10:08
Project No: Storm Water Project
Project ID: Storm Water Project

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
11I0201	09/06/2011 20:40	SEL HANSONCUP	4500451965

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
ED 090211 (11I0201-01)			**Sample Type: Water**			**Sampled: 09/02/11 14:35**		
Microbiological Parameters by APHA Standard Methods								
Total Coliforms	SM9221B	AI10932	09/06/11 16:00	09/09/11 16:00	1	**46.0 MPN/100 ml**	**2.0**	T-2
Fecal Coliforms	SM9221E	"	"	"	"	ND "	2.0	T-2

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

9/21/2011

Attachment:

Lehigh Report to Water Board, October 12, 2011

Re: Lehigh Southwest Cement Company discharge October 7-12, 2011

Lehigh Southwest Cement Company
Permanente Plant
24001 Stevens Creek Boulevard
Phone (408) 996-4000
Fax (408) 725-1019
www.lehighcement.com

October 12, 2011

Christine Boschen
Cecil Felix
San Francisco Bay Regional Water Quality Control Board
1515 Clay St. Suite 1400
Oakland, CA 94612

RE: Lehigh Southwest Cement Company discharge October 7 - 12, 2011

Ms. Boschen and Mr. Felix:

This letter is to report a discharge of process water to Permanente Creek from Lehigh Southwest Cement Company's Cupertino facility. At approximate 4:00 pm October 7, 2011, the facilities' raw material storage area was reported to be flooding. The flooding was based on recent storms and the fact that the facility had to be shut down and evacuated due to a sad, senseless and violent event in the early morning of October 5th. Lehigh personnel were not able to access the facility until the afternoon Friday, October 7, 2011.

Lehigh management directed the emergency discharge structure to divert the reclaim water to Permanente Creek. This was done at approximately 4 pm on October 7, 2011. The diversion was set back to normal recirculation by 9 am October 12, 2011. Samples were collected at about 4:30 pm on October 7th, and at 8:00 am on October 10th.

Total discharge to the creek is estimated to be about 70 gpm for a period of about 113 hours. All production activities have been down since October 5th, with some production activities planned for resumption later this week.

Please do not hesitate to call me with any questions or comments at (408) 996-4262 or at scott.renfrew@lehighhanson.com.

Thank you,

Scott Renfrew
Environmental Manager
Lehigh Southwest Cement Company – Cupertino Plant

cc. Henrik Wesseling, LSCC
Axel Conrads, LSCC
Greg Knapp, Lehigh Hanson

Lehigh Southwest Cement Company
Permanente Plant
24001 Stevens Creek Boulevard
Phone (408) 996-4000
Fax (408) 725-1019
www.lehighcement.com

November 16, 2011

Christine Boschen
Cecil Felix
San Francisco Bay Regional Water Quality Control Board
1515 Clay St. Suite 1400
Oakland, CA 94612

RE: Sample analysis of the discharge on October 7 & 10, 2011

Ms. Boschen and Mr. Felix:

This letter is a follow-up report to the October 7 - 12, 2011 discharge of process water report to Permanente Creek at Lehigh Southwest Cement Company's Cupertino facility.

Please see the enclosed analysis from the sample of the water discharged to Permanente Creek.

Please do not hesitate to call me with any questions or comments at (408) 996-4262 or at scott.renfrew@lehighhanson.com.

Thank you,

Scott Renfrew
Environmental Manager
Lehigh Southwest Cement Company – Cupertino Plant

cc. Henrik Wesseling, LSCC
Axel Conrads, LSCC
Greg Knapp, Lehigh Hanson
Nicole Granquist, Downey Brand

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e-mail: clientservices@alpha-labs.com
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Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

26 October 2011

Lehigh Southwest Cement Company
Attn: Scott Renfrew
7660 Imperial Way
Allentown, PA 18195
RE: Emergency Discharge
Work Order: 11J0492

Enclosed are the results of analyses for samples received by the laboratory on 10/10/11 20:35. 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 Analytical Laboratories Inc.
e-mail: clientservices@alpha-labs.com
Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
7660 Imperial Way
Allentown, PA 18195
Attn: Scott Renfrew

Report Date: 10/26/11 16:48
Project No: [none]
Project ID: Emergency Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
11J0492	10/10/2011 20:35	SEL HANSONCUP	PO# 4500451965

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ED 100711	11J0492-01	Water	10/07/11 16:35	10/10/11 20:35
ED 101011	11J0492-02	Water	10/10/11 08:15	10/10/11 20:35

Bruce Gove
Laboratory Director

10/26/2011

Alpha Analytical Laboratories Inc.
e-mail: clientservices@alpha-labs.com
Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
7660 Imperial Way
Allentown, PA 18195
Attn: Scott Renfrew

Report Date: 10/26/11 16:48
Project No: [none]
Project ID: Emergency Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
11J0492	10/10/2011 20:35	SEL HANSONCUP	PO# 4500451965

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
ED 100711 (11J0492-01)			**Sample Type: Water**			**Sampled: 10/07/11 16:35**		
Metals by EPA 6000/7000 Series Methods								
Antimony	EPA 6010	AJ11232	10/12/11 12:02	10/18/11 13:44	1	ND mg/l	0.020	
Arsenic	EPA 7060	"	"	10/21/11 13:53	"	ND "	0.0020	
Barium	EPA 6010	"	"	10/18/11 13:44	"	**0.083 "**	**0.010**	
Beryllium	"	"	"	"	"	ND "	0.010	
Cadmium	"	"	"	"	"	ND "	0.010	
Chromium	"	"	"	"	"	ND "	0.050	
Cobalt	"	"	"	"	"	ND "	0.020	
Copper	"	"	"	"	"	ND "	0.10	
Lead	"	"	"	"	"	ND "	0.050	
Mercury	EPA 7470	AJ11307	10/13/11 08:41	10/14/11 11:08	"	ND "	0.0010	
Molybdenum	EPA 6010	AJ11232	10/12/11 12:02	10/18/11 13:44	"	ND "	0.50	
Nickel	"	"	"	"	"	ND "	0.10	
Selenium	EPA 7740	"	"	10/24/11 15:41	2	ND "	0.010	R-01
Silver	EPA 6010	"	"	10/18/11 13:44	1	ND "	0.010	
Thallium	"	"	"	"	"	ND "	0.40	
Vanadium	"	"	"	"	"	ND "	0.50	
Zinc	"	"	"	"	"	ND "	0.10	
Conventional Chemistry Parameters by APHA/EPA Methods								
Residual Chlorine	SM4500-Cl F	AJ11145	10/11/11 14:30	10/11/11 15:11	1	ND mg/l	0.10	T-14
Biochemical Oxygen Demand	SM5210B	AJ11217	10/12/11 08:05	10/17/11 15:52	"	ND "	5.0	T-5
Dissolved Oxygen	SM4500-O G	AJ11254	10/12/11 10:00	10/12/11 17:00	"	**11 "**	**0.10**	T-14
pH	SM4500-H+ B	"	"	"	"	**9.32 pH Units**	**1.00**	T-14
Sulfide, dissolved	SM4500SD	AJ11407	10/12/11 09:00	10/14/11 11:00	"	ND mg/l	0.020	T-5
Total Suspended Solids	SM2540D	AJ11220	10/12/11 08:16	10/17/11 15:15	"	**40 "**	**1.0**	
Turbidity	EPA 180.1	AJ11254	10/12/11 10:00	10/12/11 17:00	"	**18 NTU**	**0.10**	T-5

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

10/26/2011

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
7660 Imperial Way
Allentown, PA 18195
Attn: Scott Renfrew

Report Date: 10/26/11 16:48
Project No: [none]
Project ID: Emergency Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
11J0492	10/10/2011 20:35	SEL HANSONCUP	PO# 4500451965

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
ED 100711 (11J0492-01)			**Sample Type: Water**			**Sampled: 10/07/11 16:35**		
Microbiological Parameters by APHA Standard Methods								
Total Coliforms	SM9221B	AJ11429	10/11/11 10:00	10/14/11 12:00	1	>1600 MPN/100 ml	2.0	T-5
Fecal Coliforms	SM9221E	"	"	"	"	**90.0 "**	**2.0**	T-5
ED 101011 (11J0492-02)			**Sample Type: Water**			**Sampled: 10/10/11 08:15**		
Metals by EPA 6000/7000 Series Methods								
Antimony	EPA 6010	AJ11232	10/12/11 12:02	10/18/11 13:09	1	ND mg/l	0.020	
Arsenic	EPA 7060	"	"	10/21/11 13:08	"	ND "	0.0020	
Barium	EPA 6010	"	"	10/18/11 13:09	"	**0.11 "**	**0.010**	
Beryllium	"	"	"	"	"	ND "	0.010	
Cadmium	"	"	"	"	"	ND "	0.010	
Chromium	"	"	"	"	"	ND "	0.050	
Cobalt	"	"	"	"	"	ND "	0.020	
Copper	"	"	"	"	"	ND "	0.10	
Lead	"	"	"	"	"	ND "	0.050	
Mercury	EPA 7470	AJ11307	10/13/11 08:41	10/14/11 11:17	"	ND "	0.0010	
Molybdenum	EPA 6010	AJ11232	10/12/11 12:02	10/18/11 13:09	"	ND "	0.50	
Nickel	"	"	"	"	"	ND "	0.10	
Selenium	EPA 7740	"	"	10/22/11 18:43	"	**0.0098 "**	**0.0050**	
Silver	EPA 6010	"	"	10/18/11 13:09	"	ND "	0.010	
Thallium	"	"	"	"	"	ND "	0.40	
Vanadium	"	"	"	"	"	ND "	0.50	
Zinc	"	"	"	"	"	ND "	0.10	

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Bruce Gove
Laboratory Director

10/26/2011

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CHEMICAL EXAMINATION REPORT

Lehigh Southwest Cement Company
7660 Imperial Way
Allentown, PA 18195
Attn: Scott Renfrew

Report Date: 10/26/11 16:48
Project No: [none]
Project ID: Emergency Discharge

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
11J0492	10/10/2011 20:35	SEL HANSONCUP	PO# 4500451965

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
ED 101011 (11J0492-02)			**Sample Type: Water**			**Sampled: 10/10/11 08:15**		
Conventional Chemistry Parameters by APHA/EPA Methods								
Residual Chlorine	SM4500-Cl F	AJ11145	10/11/11 14:30	10/11/11 15:11	1	ND mg/l	0.10	T-14
Biochemical Oxygen Demand	SM5210B	AJ11217	10/12/11 08:05	10/17/11 15:52	"	ND "	5.0	
Dissolved Oxygen	SM4500-O G	AJ11254	10/12/11 10:00	10/12/11 17:00	"	**11 "**	**0.10**	T-14
pH	SM4500-H+ B	"	"	"	"	**9.51 pH Units**	**1.00**	T-14
Sulfide, dissolved	SM4500SD	AJ11407	10/12/11 09:00	10/14/11 11:00	"	ND mg/l	0.020	T-5
Total Suspended Solids	SM2540D	AJ11220	10/12/11 08:16	10/17/11 15:15	"	**57 "**	**1.0**	
Turbidity	EPA 180.1	AJ11254	10/12/11 10:00	10/12/11 17:00	"	**58 NTU**	**0.10**	T-5
Microbiological Parameters by APHA Standard Methods								
Total Coliforms	SM9221B	AJ11727	10/11/11 10:00	10/15/11 16:00	1	**900.0 MPN/100 ml**	**2.0**	T-5
Fecal Coliforms	SM9221E	"	"	"	"	**80.0 "**	**2.0**	T-5

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