

**STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

SUPPLEMENTAL SHEET NO. 2 FOR REGULAR MEETING OF DECEMBER 9, 2010
Prepared on December 7, 2010

ITEM NUMBER: 11

SUBJECT: National Pollutant Discharge Elimination System Permit No. CA0005274 for Granite Rock Company, Inc. Arthur Wilson Quarry, San Benito County, Order No. R3-2010-0025

SUMMARY

Water Board staff received comments on September 15, 2010 from Granite Rock regarding the subject permit. These comments were not included in Attachment G of the tentative subject Order. Following are the comments presented by Granite Rock and Water Board staff's responses.

COMMENTS & RESPONSES

Granite Rock September 15, 2010 email:

COMMENT NO. 1: We request that the Lower Hole Storm Water Collection Pond be separated from the effluent monitoring table so that it is clear what the intent and procedure for that area is (i.e. sampling storm water from Lower Hole Ponds once per permit term regardless of actual effluent discharge from Quarry Storage Reservoir, to better characterize an intake source). We also noted that it would be useful to add a similar characterization procedure for the Orchard Well.

RESPONSE NO. 1: Water Board staff is interested in characterizing the Lower Hole Pond because the quality of this water is unknown and it is a source of water to the Quarry Storage Reservoir. The Orchard Well has not been fully characterized for toxicity, Title 22 Pollutants, and the California Toxic Rule's 126 priority pollutants. Considering these two wastewaters feed into the Quarry Storage Reservoir, a complete understanding of both these sources will allow Water Board staff to assess the origin of chemical constituents in the Quarry Storage Reservoir.

STAFF ACTION NO. 1: Water Board staff has modified tables E-2 and E-5 in the draft Order, attached.

ATTACHMENTS:

Granite Rock September 13, 2010 email
Updated Table E-2. Effluent Monitoring
Updated Table E-5. Process Water Supply Monitoring Requirements

Cecile DeMartini - Graniterock WDO clarification

From: Tina Lau <tlau@Graniterock.com>
To: "Cecile DeMartini" <CDeMartini@waterboards.ca.gov>
Date: Monday, September 13, 2010 11:38 AM
Subject: Graniterock WDO clarification
CC: "Aaron Johnston-Karas" <ajohnston@Graniterock.com>, "Chris Adair" <Cadair@waterboards.ca.gov>

Hi Cecile,

Thanks for chatting with Aaron and me this morning to clarify some aspects of our draft WDO. As we discussed, we're all in agreement that characterizing the water quality of the Orchard Well and Lower Hole Storm Water Pond (intakes to our effluent source, the Quarry Storage Reservoir) would be useful and is reasonable. However, the current draft permit's language is confusing because it combines characterization of the Lower Hole storm water with the effluent monitoring program.

We request that the Lower Hole Storm Water Collection Pond be separated from the effluent monitoring table so that it is clear what the intent and procedure for that area is (i.e. sampling storm water from Lower Hole Ponds once per permit term regardless of actual effluent discharge from Quarry Storage Reservoir, to better characterize an intake source). We also noted that it would be useful to add a similar characterization procedure for the Orchard Well.

Thanks again,

Tina Lau
Graniterock Company
Environmental Specialist
(831) 768-2009
Fax: (831) 786-2993

III. INFLUENT MONITORING REQUIREMENTS – NOT APPLICABLE

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Location EFF-001

1. The Discharger shall monitor effluent discharged to the Pajaro River from Quarry Storage Reservoir and Lower Hole Stormwater Collection Pond at Monitoring Location EFF-001 as follows. All effluent monitoring is required only when effluent is being discharged to the Pajaro River.

Table E-2. Effluent Monitoring

Parameter	Units	Sample Type	Quarry Storage Reservoir Minimum Sampling Frequency	Lower Hole Stormwater Collection Pond Minimum Sampling Frequency
Flow	MGD	Measured	1/Day	1/Permit Term – Discharge Event
Suspended Sediment	mg/L	Grab	1/Week ^{[1][2]}	1/Permit Term – Discharge Event
Total Suspended Solids (TSS)	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Turbidity	NTUs	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
pH	s.u.	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Temperature	°F	Grab	1/Hour ^[3]	1/Permit Term – Discharge Event
Oil and Grease	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
TDS	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Chloride	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Sulfate	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Boron	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Sodium	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Mercury (Total Recoverable)	µg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Cyanide	µg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Aluminum	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Iron	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Molybdenum	mg/L	Grab	1/Week ^[1]	1/Permit Term – Discharge Event
Acute Toxicity	TUa	Grab	1/Discharge Event ^[4]	1/Permit Term – Discharge Event
CTR Priority Pollutants ^[5]	µg/L	Grab	1/Permit Term	1/Permit Term – Discharge Event
Title 22 Pollutants ^[6]	µg/L	Grab	1/Permit Term	1/Permit Term – Discharge Event

^[1] Monitoring for these pollutants at weekly intervals is based on an assumption of one discharge event per year during the wet season (October 1 through May 31) that lasts for 3 to 4 days. If a single discharge event continues for more than 7 days, monitoring for this constituent will be required a second time following a weekly interval; however, monitoring is required at monthly intervals thereafter.

^[2] Analysis for suspended sediment concentration shall be performed in accordance with American Society for Testing and Materials (ASTM) Method D3977-97B [Standard test methods for determining sediment concentration in water samples (ASTM Designation: D-3977-97)].

^[3] Hourly during the discharge. Sampling may be reduced to one time sampling during discharges as supported by applicable data showing that the effluent temperature is consistently at or below the receiving water temperature and will not be likely to cause excursions above the prescribed limits.

^[4] Monitoring for acute toxicity during each discharge event is based on an assumption of one discharge event per year, or less. If there is more than one discharge event per wet season, monitoring for acute toxicity is required no more than two times per wet season.

^[5] The CTR priority pollutants are those listed by the California Toxics Rule at 40 CFR 131.38 (b)(1). These pollutants shall be monitored one time per permit term, if there is a discharge event.

^[6] The Title 22 pollutants are those for which primary Maximum Contaminant Levels have been established by the Department of Health Services and which are listed in Tables 64431-A and 64444-A of the California Code of

Parameter	Units	Sample Type	Minimum Sampling Frequency
Acute Toxicity	TUa	Grab	1/Discharge Event ^[4]
CTR Priority Pollutants ^[5]	µg/L	Grab	1/Permit Term ^[6]
Title 22 Pollutants ^[7]	µg/L	Grab	1/Permit Term ^[6]
Hardness (as CaCO ₃)	mg/L	Grab	2/Permit Term ^[6]

^[1] These monthly monitoring requirements shall be conducted only during periods of discharge to the Pajaro River (i.e., in each calendar month that a discharge occurs, monthly monitoring requirements must be conducted).

^[2] Prior to each Pajaro River discharge, and hourly during the discharge. Sampling may be reduced to one time sampling during discharges as supported by applicable data showing that the effluent temperature is consistently at or below the receiving water temperature and will not be likely to cause excursions above the prescribed limits (see Receiving Water Limitation V.A.12). Alternate sampling locations may be established to account for safety considerations as long as alternate locations produce characteristic temperature data. Reductions in sampling frequency and the selection of alternate sampling locations are contingent upon Executive Officer approval.

^[3] Prior to each Pajaro River discharge, and hourly during the discharge, as measured at the Chittenden Gauging Station.

^[4] Receiving water monitoring for toxicity shall be conducted coincident with effluent toxicity monitoring.

^[5] The CTR priority pollutants are those listed by the California Toxics Rule at 40 CFR 131.38 (b) (1).

^[6] Monitoring shall occur during the wet season (October 1 through May 31) within the 18-month period before expiration of this Order. Sample collection shall be reported in the first quarterly report submitted following completion of the sampling event. Data shall be reported in the first quarterly report submitted following receipt of the data from the analytical laboratory.

^[7] The Title 22 pollutants are those for which primary Maximum Contaminant Levels have been established by the Department of Health Services and which are listed in Tables 64431-A and 64444-A of the California Code of Regulations, Title 22, Division 4, Chapter 15. Where these pollutants are also identified as CTR Priority Pollutants, monitoring does not need to be duplicated.

IX. OTHER MONITORING REQUIREMENTS

A. Process Water Supply Monitoring

1. The Discharger shall collect and analyze representative samples from the Facility process water supply well (currently the Orchard Well) as follows.

Table E-5. Process Water Supply Monitoring Requirements

Constituent	Units	Sample Type	Minimum Sampling Frequency
Flow	MGD	Measured	1/Year
TDS	mg/L	Grab	1/Year
Chloride	mg/L	Grab	1/Year
Sulfate	mg/L	Grab	1/Year
Boron	mg/L	Grab	1/Year
Sodium	mg/L	Grab	1/Year
Nitrate (as N)	mg/L	Grab	1/Year
Hardness (as CaCO ₃)	Mg/L	Grab	1/Year
CTR Priority Pollutants ^[5]	µg/L	Grab	1/Permit Term
Title 22 Pollutants ^[7]	µg/L	Grab	1/Permit Term
Acute Toxicity	TUa	Grab	1/Permit Term