

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
895 Aerovista Place, Suite 101
San Luis Obispo, California 93401**

MONITORING AND REPORTING PROGRAM NO. R3-2014-0046

Waste Discharger Identification No. 3 270203002

For

**CALIFORNIA ARMY NATIONAL GUARD
CAMP ROBERTS MILITARY RESERVATION
SAN LUIS OBISPO AND MONTEREY COUNTIES**

Reporting responsibilities are specified in Sections 13225(a), 13267(b), 13383, and 13387(b) of the California Water Code. This Discharge Monitoring Program is issued in accordance with Provision C.2 of Regional Board Order No. R3-2014-0046.

WATER SUPPLY MONITORING

Representative samples of domestic supply water shall be collected and analyzed as follows:

Parameter/Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency
General Minerals [Calcium, Magnesium, Sodium, Sulfate, Carbonate, Bi-Carbonate, Chloride, Total Hardness, Total Alkalinity, Total Dissolved Solids, pH, Electrical Conductivity, Boron, Iron, and Nitrate (as N). Sampling results for the Department of Health Services may be submitted to satisfy this requirement]	mg/L	Grab	January and July

INFLUENT MONITORING

Representative samples of the influent to each wastewater treatment plant shall be collected and analyzed for the constituents and at the frequencies specified below:

Parameter/Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency
Flow Volume	MGD	Metered	Daily
Maximum Daily Flow	MGD	Metered	Monthly
Mean Daily Flow	MGD	Calculated	Monthly
BOD ₅	mg/L	Grab	Monthly
Total Suspended Solids	mg/L	Grab	Monthly

FACILITY MONITORING

The Discharger shall make at least bi-weekly inspections of the treatment and disposal systems. During the inspections, the Discharger shall note compliance status with this Order. A log of these inspections

shall be maintained and a summary of observations made during the inspections shall be submitted with each quarterly monitoring report.

The East Garrison treatment ponds shall be monitored as follows:

Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency
pH	-	Grab*	Weekly
Dissolved Oxygen	mg/l	Grab*	Weekly
Freeboard	Feet	Visual	Weekly

* Grab sample to be taken at one-foot depth.

Each disposal pond shall be monitored as follows:

Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency
Freeboard	Feet	Visual	Weekly
Presence of weeds	-	Visual	Quarterly (Dec., March, June, Sept.)
Presence of burrows	-	Visual	Quarterly (Dec., March, June, Sept.)

* Grab sample to be taken at one-foot depth.

LEACHATE MONITORING

Prior to discharge of leachate to the Main Garrison WWTP, the CANG must demonstrate through batch sampling that the leachate from the Solid Waste Cell does not contain any chemicals of concern that could degrade state waters. Batch sampling should analyze for the following constituents/parameters:

Constituents/Parameters	Method ¹	Units ²
Volatile Organic Compounds ³	8260B	µg/L
pH	Field	pH Units
Electrical Conductivity (EC)	Field	µmhos/ cm
Chloride	300.0	mg/L
Nitrate (as Nitrogen)	300.0	mg/L
Total Dissolved Solids	160.1	mg/L
Sulfate	300.0	mg/L
Manganese	6010B	mg/L
Sodium	6010B	mg/L
Barium	6010B	mg/L
Lead	6010B	mg/L
Perchlorate	314.0	µg/L
Total Petroleum Hydrocarbons – crude oil standard	8015M	mg/L
Total Organic Carbon	9060/5310B	mg/L
Dissolved Oxygen	Field	mg/L
Temperature	Field	°F/C
Turbidity	Field	NTU
Constituents of Concern		
Antimony	6010B	mg/L
Arsenic	6010B	mg/L

Constituents/Parameters	Method ¹	Units ²
Beryllium	6010B	mg/L
Cadmium	6010B	mg/L
Chromium	6010B	mg/L
Cobalt	6010B	mg/L
Copper	6010B	mg/L
Cyanide	335.4	mg/L
Mercury	7470	mg/L
Nickel	6010B	mg/L
Selenium	6010B	mg/L
Silver	6010B	mg/L
Sulfide	376.2	mg/L
Thallium	6010B	mg/L
Tin	6010B	mg/L
Vanadium	6010B	mg/L
Zinc	6010B	mg/L
Chlorophenoxy Herbicides	8151A	µg/L
Organochlorine Pesticides	8081A	µg/L
PCBs	8082	µg/L
Organophosphorus Pesticides	8141	µg/L
Semi-Volatile Organic Compounds ⁴	8270C	µg/L
Volatile Organic Compounds, Appendix II ⁵	8260B	µg/L
1. Or most recently approved United States Environmental Protection Agency (US EPA) method that provides the lowest practicable detection limits. All metals must be field filtered before laboratory analysis. 2. mg/L – milligrams per liter; µmhos/cm – micromillimhos per centimeter; °F/C – degrees Fahrenheit/Centigrade; NTU – nephelometric turbidity units; µg/L – micrograms per liter 3. Volatile Organic Compounds (VOCs) include all VOCs detectable using US EPA Method 8260B, including at least all 47 organic constituents listed in Appendix I to 40 CFR, 258 (Subtitle D), oxygenates (MTBE, TAME, DIPE, EDB, and 1,2 DCA), 1,4 Dioxane, and all unidentified peaks. The detection limit for individual VOCs in undiluted samples shall not exceed 0.5 micrograms per liter (µg/L). 4. Semi-Volatile Organic Compounds must include pentachloroethane, 2-picoline, and pyridine. 5. Includes Fuel Oxygenates. The detection limit for individual VOCs in undiluted samples shall not exceed 0.5 micrograms per liter (µg/L).		

EFFLUENT MONITORING

Representative samples of wastewater being discharged to percolation areas shall be collected and analyzed for the constituents and at the frequencies specified below:

Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency	
			Main Garrison	East Garrison
Settleable Solids	ml/l	Grab	Weekly	Monthly
pH	-	Grab	Weekly	Monthly
BOD5	mg/l	Grab	Weekly	Monthly
Total Suspended Solids	mg/l	Grab	Weekly	Monthly
Total Dissolved Solids	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Volatile Solids	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)

Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency	
			Main Garrison	East Garrison
Sodium	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Chloride	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Boron	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Sulfate	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Nitrite (as N)	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Nitrate (as N)	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Total Kjeldahl Nitrogen (as N)	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Ammonia (as N)	mg/l	Grab	Semiannually (March and September)	Semiannually (March and September)
Total Nitrogen (as N)	mg/l	Calculated	Semiannually (March and September)	Semiannually (March and September)
Aluminum	mg/l	Grab	Annually (September)	Annually (September)
Antimony	mg/l	Grab	Annually (September)	Annually (September)
Arsenic	mg/l	Grab	Annually (September)	Annually (September)
Barium	mg/l	Grab	Annually (September)	Annually (September)
Beryllium	mg/l	Grab	Annually (September)	Annually (September)
Cadmium	mg/l	Grab	Annually (September)	Annually (September)
Chromium	mg/l	Grab	Annually (September)	Annually (September)
Copper	mg/l	Grab	Annually (September)	Annually (September)
Cyanide	mg/l	Grab	Annually (September)	Annually (September)
Flouride	mg/l	Grab	Annually (September)	Annually (September)
Lead	mg/l	Grab	Annually (September)	Annually (September)
Mercury	mg/l	Grab	Annually (September)	Annually (September)
Nickel	mg/l	Grab	Annually (September)	Annually (September)
Selenium	mg/l	Grab	Annually (September)	Annually (September)
Thalium	mg/l	Grab	Annually (September)	Annually (September)
Zinc	mg/l	Grab	Annually (September)	Annually (September)
VOCs	mg/l	Grab	Once/5 years (September)	Once/5 years (September)
PCBs	mg/l	Grab	Once/5 years (September)	Once/5 years (September)
Pesticides	mg/l	Grab	Once/5 years (September)	Once/5 years (September)

SOLIDS/BIOSOLIDS MONITORING

The Discharger shall submit a summary of activities regarding solids handling with each quarterly monitoring report. Prior to biosolid removal or change in disposal practices (location, process,

frequency), the Discharger shall submit all disposal information to the Executive Officer for approval. Representative samples of the biosolids to be disposed of shall be collected and analyzed for the constituents and at the frequencies specified below:

Parameter/Constituent*	Units	Sample Type	Minimum Sampling and Analyzing Frequency **
Quantity	Tons or yds ³	Measured during removal	Each load
Moisture Content	%	Grab	Prior to transport/disposal
Nitrate (as N)	mg/kg	Grab	Prior to transport/disposal
Total Phosphorus	mg/kg	Grab	Prior to transport/disposal
pH	pH units	Grab	Prior to transport/disposal
Grease & Oil	mg/kg	Grab	Prior to transport/disposal
Arsenic	mg/kg	Grab	Prior to transport/disposal
Antimony	mg/kg	Grab	Prior to transport/disposal
Barium	mg/kg	Grab	Prior to transport/disposal
Beryllium	mg/kg	Grab	Prior to transport/disposal
Boron	mg/kg	Grab	Prior to transport/disposal
Cadmium	mg/kg	Grab	Prior to transport/disposal
Cobalt	mg/kg	Grab	Prior to transport/disposal
Copper	mg/kg	Grab	Prior to transport/disposal
Chromium, VI & Total	mg/kg	Grab	Prior to transport/disposal
Lead	mg/kg	Grab	Prior to transport/disposal
Mercury	mg/kg	Grab	Prior to transport/disposal
Molybdenum	mg/kg	Grab	Prior to transport/disposal
Nickel	mg/kg	Grab	Prior to transport/disposal
Selenium	mg/kg	Grab	Prior to transport/disposal
Silver	mg/kg	Grab	Prior to transport/disposal
Thallium	mg/kg	Grab	Prior to transport/disposal
Tin	mg/kg	Grab	Prior to transport/disposal
Vanadium	mg/kg	Grab	Prior to transport/disposal
Zinc	mg/kg	Grab	Prior to transport/disposal
Pesticides	mg/kg	Grab	Prior to transport/disposal***
Organic Lead	mg/kg	Grab	Prior to transport/disposal***
PCBs	mg/kg	Grab	Prior to transport/disposal***

*Characterization required by disposal facility may be submitted in place of this list.

** If no need for sludge/biosolids removal occurs during a given year, the Discharger will have no obligation for biosolids monitoring. Reporting in this case shall explain the absence of this monitoring.

*** At least once every 5 years prior to transport or disposal.

RECEIVING WATER MONITORING

Representative samples of groundwater shall be collected from shallow wells upgradient and downgradient of disposal areas and analyzed for the constituents and at the frequencies specified below:

Parameter/Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency
Depth to Groundwater	feet	Measured	Semiannually (March and September)
pH	-	Grab	Semiannually (March and September)
Total Dissolved Solids	mg/l	Grab	Semiannually (March and September)
Sodium	mg/l	Grab	Semiannually (March and September)
Chloride	mg/l	Grab	Semiannually (March and September)
Boron	mg/l	Grab	Semiannually (March and September)
Sulfate	mg/l	Grab	Semiannually (March and September)
Nitrite (as N)	mg/l	Grab	Semiannually (March and September)
Nitrate (as N)	mg/l	Grab	Semiannually (March and September)
Total Kjeldahl Nitrogen (as N)	mg/l	Grab	Semiannually (March and September)
Total Nitrogen (as N)	mg/l	Grab	Semiannually (March and September)

REPORTING

Monitoring reports are required quarterly, by the 30th of January, April, July, and October, and shall contain all data collected or calculated over the previous three months. Pursuant to Standard Provisions and Reporting Requirements, General Reporting Requirement C.16, an annual report is required by the 30th of January along with the 4th quarter monitoring report.

IMPLEMENTATION

This monitoring and reporting program shall be implemented immediately.

ORDERED BY _____
Kenneth A. Harris Jr., Executive Officer

Date