



California Regional Water Quality Control Board

Central Coast Region



Terry Tamminen
Secretary for
Environmental
Protection

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Arnold Schwarzenegger
Governor

September 16, 2004

HQ, Camp Roberts
ATTN: Captain Eric Andrews, Director of Public Works
Hwy 101, Bldg 108
Camp Roberts, CA. 93451-5000

Dear Captain Andrews:

**REVISED WASTE DISCHARGE REQUIREMENTS ORDER NO. R3-2004-0106 FOR THE CALIFORNIA
ARMY NATIONAL GUARD CAMP ROBERTS MILITARY RESERVATION WASTEWATER
TREATMENT AND DISPOSAL, SAN LUIS OBISPO AND MONTEREY COUNTIES**

The Central Coast Regional Water Quality Control Board adopted, without modification, Order No. R3-2004-0106 at its regularly scheduled public meeting in San Luis Obispo on September 10, 2004. Enclosed please find a copy of Order No. R3-2004-0106, which is currently in effect.

If you have any questions, please call **Tom Kukol at (805) 549-3689** or Harvey Packard at (805) 542-4639.

Roger W. Briggs
Executive Officer

Enclosure: Waste Discharge Requirements Order No. R3-2004-0106

TJK
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File: California Army National Guard Camp Roberts Military Reservation Wastewater Treatment And Disposal, San Luis Obispo And Monterey Counties
Task: 126-01

California Environmental Protection Agency



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

WASTE DISCHARGE REQUIREMENTS ORDER NO. R3-2004-0106
Waste Discharger Identification No. 3 270203002

For

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

The California Regional Water Quality Control Board, Central Coast Region (hereafter "Regional Board"), finds that:

FACILITY OWNER AND LOCATION

1. The California Army National Guard (hereafter "Discharger") owns and operates the Camp Roberts Military Reservation (hereafter "Camp Roberts").
2. Camp Roberts is located on US 101, about 12 miles north of Paso Robles. It is within the Salinas River sub-basin, in Township 24 South, Range 11 East, Sections 03 and 23 (Mount Diablo Base & Meridian), and spans the border between Monterey and San Luis Obispo Counties, as shown on Attachment "A."
3. The Salinas River bifurcates Camp Roberts into two garrisons. The Main Garrison and the East Garrison lie, respectively, west and east of the Salinas River.
4. Camp Roberts' sanitary wastewater is conveyed to two wastewater treatment plants; one wastewater treatment plant serves the Main Garrison (west of the Salinas River) and another wastewater treatment plant serves the East Garrison (east of the Salinas River), as shown in Attachment "B".

PURPOSE OF ORDER

5. On May 16, 2003, the Regional Water Quality Control Board adopted Waste Discharge Requirements Order No. R3-2003-0046 to regulate the Camp Roberts wastewater collection, treatment and disposal system.

6. The discharger reviewed Order No. R3-2003-0046 after its adoption and requested revisions, based on site-specific information, to that Order.
7. This Order revises Order No. R3-2003-0046 based on the Discharger's request.

SITE/FACILITY DESCRIPTION

8. The 42,784-acre Camp Roberts serves as a military training center. Military training includes the use of tanks, personnel carriers, mobile howitzers, aircraft, and other equipment.
9. Camp Roberts collects, treats, and disposes of wastewater using two wastewater management systems; one for the Main Garrison on the west side of the Salinas River and one the East Garrison on the east side of the Salinas River.
10. The Camp Roberts Public Works Department has direct responsibility for an existing wastewater collection, treatment and disposal system.

Discharge Type

11. Influent flows to the existing treatment plants include sanitary wastewater and military equipment washwater.
12. Influent flow rates have typically been less than 50,000 gallons per day, but flows spike for two

to three days at a time during summer training cycles.

13. As shown in Attachment "C", the Main Garrison processes all influent using grit removal, comminution, and primary clarification. Some primary effluent also flows through a trickling filter before recirculating back to the clarifier. From the clarifier, a blended primary/secondary effluent is disposed via percolation ponds.
14. As shown in Attachment "D," the East Garrison processes wash rack wastewater through clarifiers and oil water separators and processes sanitary wastewater through a septic tank. After that primary treatment, the wash rack and sanitary wastewaters are combined in a lined treatment pond, then disposed using percolation ponds.
15. Waste biosolids are discharged to drying beds. Dried biosolids are hauled to the on-site landfill as needed.

Design and Current Capacity

16. The 1979 renovation of the Main Garrison wastewater treatment facility resulted in a hydraulic design capacity of 1.0 MGD.
17. The East Garrison wastewater treatment facility is designed to process up to 134,000 gallons per day.

Wastewater Disposal

18. Wastewater is disposed by percolation.

Solid Waste Disposal

19. At the Main Garrison, treatment system biosolids are treated in an unheated anaerobic digester. The sludge is withdrawn from the digester approximately once per year and dewatered on drying beds adjacent to the infiltration ponds, then hauled to the Camp Roberts landfill.

Geology

20. The ponds are located on relatively level topography consisting of sandy alluvial soils.

Hydrogeology

21. Below the disposal ponds, depth to first groundwater is approximately 30 feet through alluvial material. The shallow groundwater is likely underflow of the Salinas River. Potentiometric measurements suggest a northerly gradient.

Surface Water

22. The treatment and disposal facilities are located adjacent to the Salinas River, which flows in a northerly direction to Monterey Bay.

Land Uses

23. In the vicinity of the discharge, land is used for military training.
24. Other than those for military personnel, there are no residences in the vicinity of the discharge.

Regional Basin Plan

25. The Water Quality Control Plan, Central Coast Basin (Basin Plan) was adopted by the Regional Board on November 19, 1989, and approved by the State Water Resources Control Board (State Board) on August 16, 1990. The Regional Board approved amendments to the Basin Plan on February 11, 1994, and September 8, 1994. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State Waters. This Order implements the Basin Plan.
26. Historical beneficial uses of groundwater near the discharge include:
 - a. Municipal and Domestic Water
 - b. Agricultural Water Supply
 - c. Industrial Water Supply
27. Present and anticipated beneficial uses of the Salinas River between Nacimiento River and the Santa Margarita reservoir include:
 - a. Municipal and Domestic Supply
 - b. Agricultural Supply
 - c. Industrial Process Supply
 - d. Groundwater Recharge

- e. Water Contact Recreation
- f. Non-Contact Water Recreation
- g. Wildlife Habitat
- h. Cold Freshwater Habitat
- i. Warm Freshwater Habitat
- j. Migration of Aquatic Organisms
- k. Spawning, Reproduction, and/or Early Development
- l. Rare, Threatened, or Endangered Species
- m. Commercial and Sport Fishing

modified to implement applicable TMDL provisions and recommendations.

MONITORING PROGRAM

28. Monitoring and Reporting Program No. R3-2004-0106 is a part of the proposed Order. The Monitoring Program requires routine water supply, pond, influent, effluent, groundwater, solids/biosolids, facility, inflow/infiltration, and salt monitoring to verify compliance and protection of groundwater quality.
29. Monitoring reports are due quarterly, January, April, July, and October. An annual report summarizing the year's events and monitoring is due in January.

ENVIRONMENTAL ASSESSMENT

30. These waste discharge requirements are for an existing facility and are exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et. seq.) in accordance with Section 15321, Article 19, Chapter 3, Division 6, Title 14 of the California Code of Regulations.

Total Maximum Daily Load

31. Total maximum daily load (TMDL) allocations will be developed for impaired surface waters in the Salinas River Basin. TMDL documents will allocate responsibility for constituent loading throughout the watershed. If TMDL's determine constituent contributions from waste discharged may adversely impact beneficial uses or exceed water quality objectives, changes in these waste discharge requirements may be required. Waste discharge requirements may be

EXISTING ORDERS/GENERAL FINDINGS

32. The discharge was previously regulated by Waste Discharge Requirements Order No. R3-2003-0046, adopted by the Regional Board on May 16, 2003.
33. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance.
34. On June 8, 2004, the Regional Board notified the Discharger and interested parties of its intent to issue waste discharge requirements for the discharge and has provided them with a copy of the proposed Order and an opportunity to submit written views and comments.
35. After considering all comments pertaining to this discharge during a public hearing on September 10, 2004, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Sections 13263 and 13267 of the California Water Code that the California Army National Guard, its agents, successors, and assigns, may discharge waste at the above-described facility providing compliance is maintained with the following:

Notes:

- Other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January 1984. Superscripted terms are defined in Section, D. Definitions.
- All technical and monitoring reports submitted pursuant to this Order are required pursuant to Section 13267 of the California Water Code. Failure to submit reports in accordance with schedules established by this Order, or failure to submit a report of sufficient technical quality to be acceptable to the Executive Officer, may subject the Discharger to enforcement action pursuant to Section 13268 of the California Water Code. The Regional Board will base all enforcement actions on the date of Order adoption
- Any person affected by this action of the Regional Board may petition the State Water Resources Control Board (State Board) to review the action in accordance with section 13320 of the California Water Code and Title 23, California Code of Regulations, Section 2050. The State Board must receive the petition within 30 days of the date of this Order. Copies of the law and regulations applicable to filing petitions will be provided upon request.
- These requirements include the following footnotes, which indicate the requirement's source:

^{BP} Basin Plan

^{ROWD} Report of Waste Discharge

^{CWC} California Water Code

Items without footnotes are based on Best Professional Judgment

A. PROHIBITIONS

1. Discharge of treated wastewater to areas other than disposal areas shown in Attachment "B" is prohibited unless approved by the Executive Officer.^{ROWD}
2. Discharge of any wastes other than domestic wastewater and equipment washwater is prohibited.^{ROWD}
3. Discharge of any wastes including overflow, bypass, seepage, and overspray; from transport, treatment, storage, or disposal systems to adjacent drainageways or adjacent properties not listed in this Order is prohibited.^{CWC}

4. Bypass of the treatment facility and discharge of untreated or partially treated wastes directly to the designated disposal area is prohibited.
5. Discharge of wastes to surface waters or surface water drainage courses is prohibited.^{CWC}
6. Discharge of petroleum waste is prohibited.

B. SPECIFICATIONS

Flow

1. Daily wastewater flow averaged over each month to the Main Garrison wastewater treatment plant shall not exceed 1.0 MGD.^{ROWD}

2. Daily wastewater flow averaged over each month to the East Garrison wastewater treatment plant shall not exceed 0.134 MGD.^{ROWD}

Effluent Limits

3. Effluent discharged to the disposal ponds shall not exceed the following limitations:^{ROWD}

Parameter	Limit
pH	6.5 to 8.4
TDS	1250 mg/l
Sodium	340 mg/l
Chloride	240 mg/l
Sulfate	250 mg/l
Boron	3.5 mg/l
Nitrate (as N)	7.7 mg/l

System Protection

4. Extraneous surface drainage shall be excluded from the wastewater treatment and disposal facilities.

Groundwater Protection

5. The discharge shall not cause a significant increase of mineral constituent concentrations in underlying groundwater, as determined by comparison of samples collected from wells located upgradient and downgradient of disposal areas.^{BP}
6. The discharge shall not cause radionuclides to be present in concentrations that are deleterious to human, plant, animal, or aquatic life; or result in the accumulation of radionuclides in the food web to an extent that presents a hazard to human, plant, animal, or aquatic life.^{BP}
7. The discharge shall not cause groundwater to contain concentrations of radionuclides in excess of the limits specified in California Code of Regulations, Title 22, Chapter 15, Article 5, Section 64443, Table 4.^{BP}
8. The discharge shall not cause groundwater to contain concentrations of chemical constituents in excess of the limits specified in California Code of Regulations, Title 22,

Chapter 15, Article 4, Section 64431, Table 64431-A.^{BP}

9. The discharge shall not cause groundwater to contain concentrations of chemical constituents in amounts that adversely affect the agricultural supply beneficial use.^{BP}
10. No controllable water quality factor shall significantly degrade the quality of any groundwater resource or adversely affect long-term soil productivity. The salinity control aspects of groundwater management will account for effects from all sources.^{BP}

System Operation

11. Treatment and disposal areas shall be fenced and posted (English and Spanish) to advise the public that the facility contains domestic wastewater.
12. Wastewater shall be aerated as needed to ensure adequate treatment. Inadequate treatment, as evidenced by excessive surface scum and anaerobic gas production or creation of odor or nuisance conditions, shall not occur.
13. Treatment and disposal ponds shall have a freeboard greater than two feet at all times.

Wastewater Disposal

14. Effluent shall not be discharged within 100 feet of any existing water supply well.
15. Disposal ponds shall be alternated to permit emptying for maintenance purposes.
16. Disposal ponds shall be disked at least annually.

Solid Waste

17. All solids generated from the screening and treatment process must be reclaimed or disposed of in a manner acceptable to the Executive Officer.

Storm Water

18. All storm water contacting domestic wastewater shall be contained onsite.

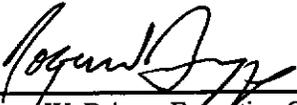
Inflow/Infiltration

19. Best management practices shall be implemented to minimize the inflow and infiltration of storm water and/or unauthorized wastewater into the facility.

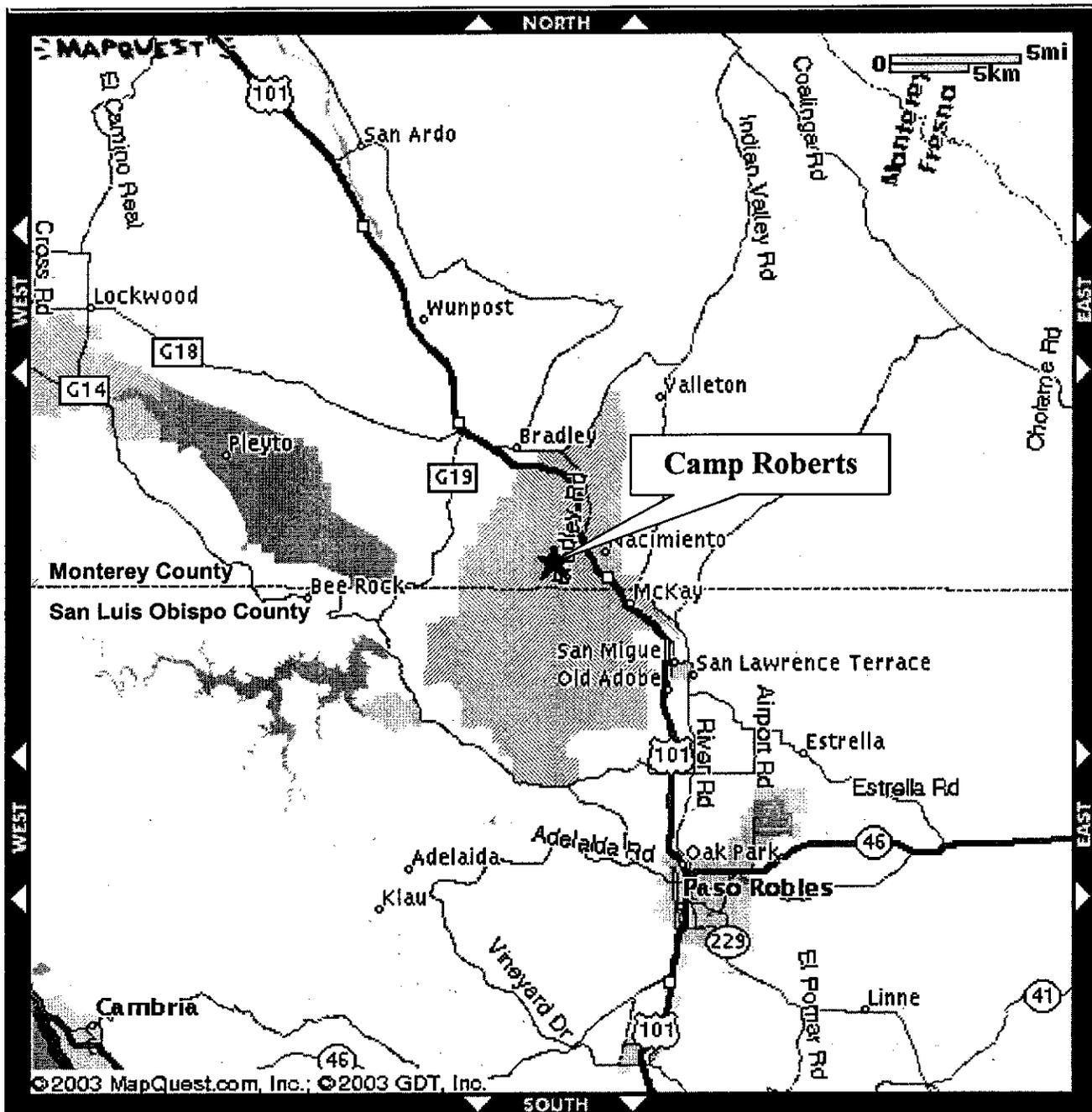
C. PROVISIONS

1. Order No. R3-2003-0046, "Waste Discharge Requirements for the California Army National Guard, Camp Roberts Military Reservation, San Luis Obispo And Monterey Counties," adopted by the Regional Board on May 16, 2003, is hereby rescinded.
2. The Discharger shall comply with "Monitoring and Reporting Program (MRP) No. R3-2004-0106, as specified by the Executive Officer.
3. The Discharger shall comply with all applicable items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements," dated January 1984.
4. All discharges from the facility shall comply with lawful requirements of the municipalities, counties, irrigation districts, drainage districts, and other local agencies regarding discharges of water to other watercourses under their jurisdiction.
5. The Discharger shall give advance notice to the Regional Board of any planned changes in the permitted facility or waste management activities that may result in noncompliance with this Order.
6. This Order may be reopened to address any changes in State or Federal plans, policies, or regulations that would affect the quality requirements for the discharges.
7. In the event of any change in control or ownership of land or facilities presently owned or utilized by the Discharger, the Discharger shall notify the succeeding owner(s) or operator(s) of the existence of this Order by letter, a copy of which shall be forwarded to the Regional Board.
8. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Administrative Code, the Discharger must submit a written report to the Executive Officer, not later than March 8, 2019, addressing:
 - a. Whether there will be changes in the continuity, character, location, or volume of the discharge;
 - b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision; and
 - c. A summary of all violations of Waste Discharge Requirements, Order No. R3-2004-0106, which occurred since adoption of the Order along with a description of the cause(s) and corrective action taken.

I, **Roger W. Briggs, Executive Officer**, do hereby certify the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Central Coast Region, on September 10, 2004.



Roger W. Briggs, Executive Officer

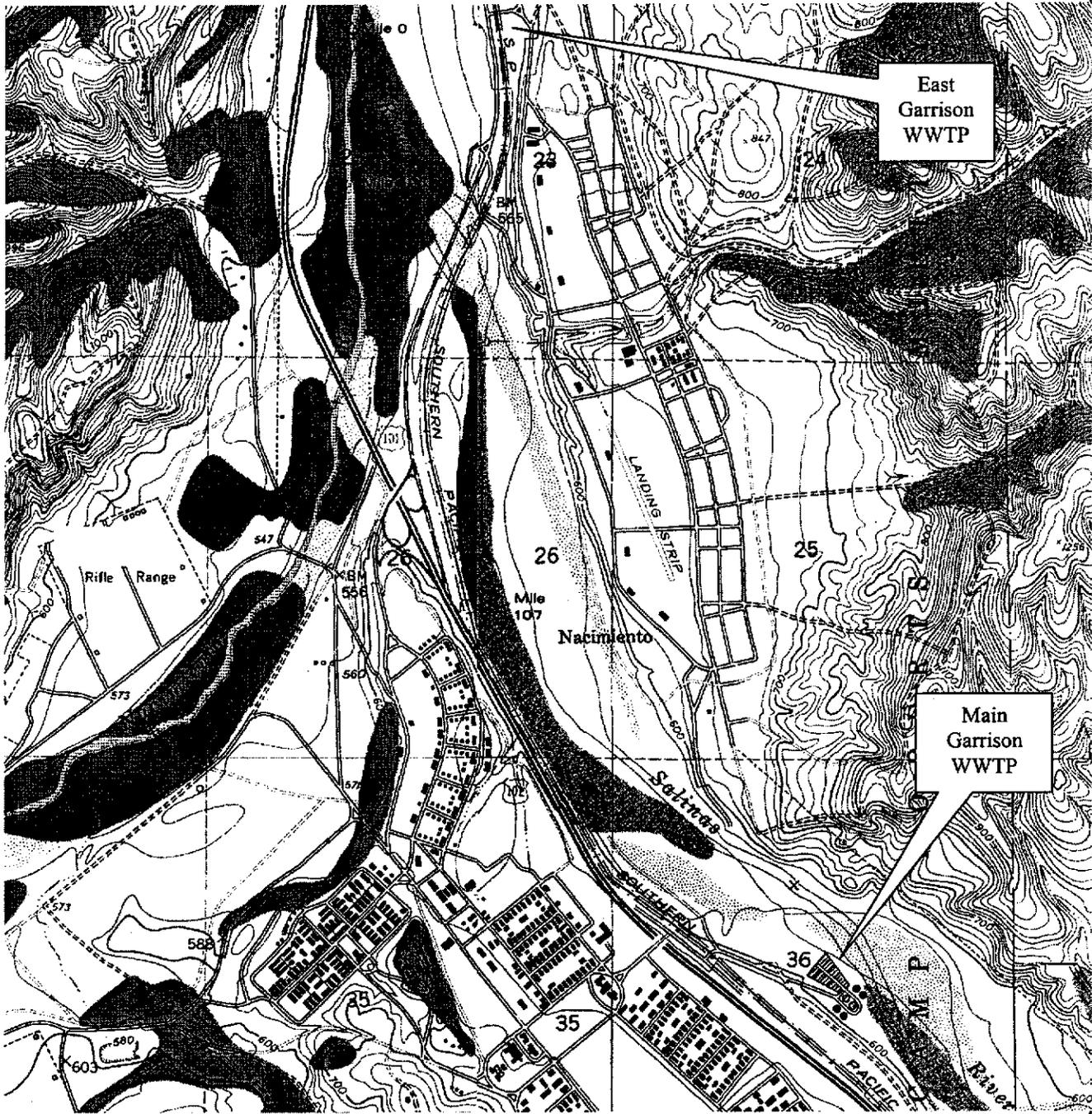


**CALIFORNIA ARMY NATIONAL GUARD
CAMP ROBERTS MILITARY RESERVATION
SAN LUIS OBISPO AND MONTEREY COUNTIES**

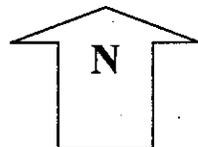
Attachment

A

Location Map



Scale (miles)

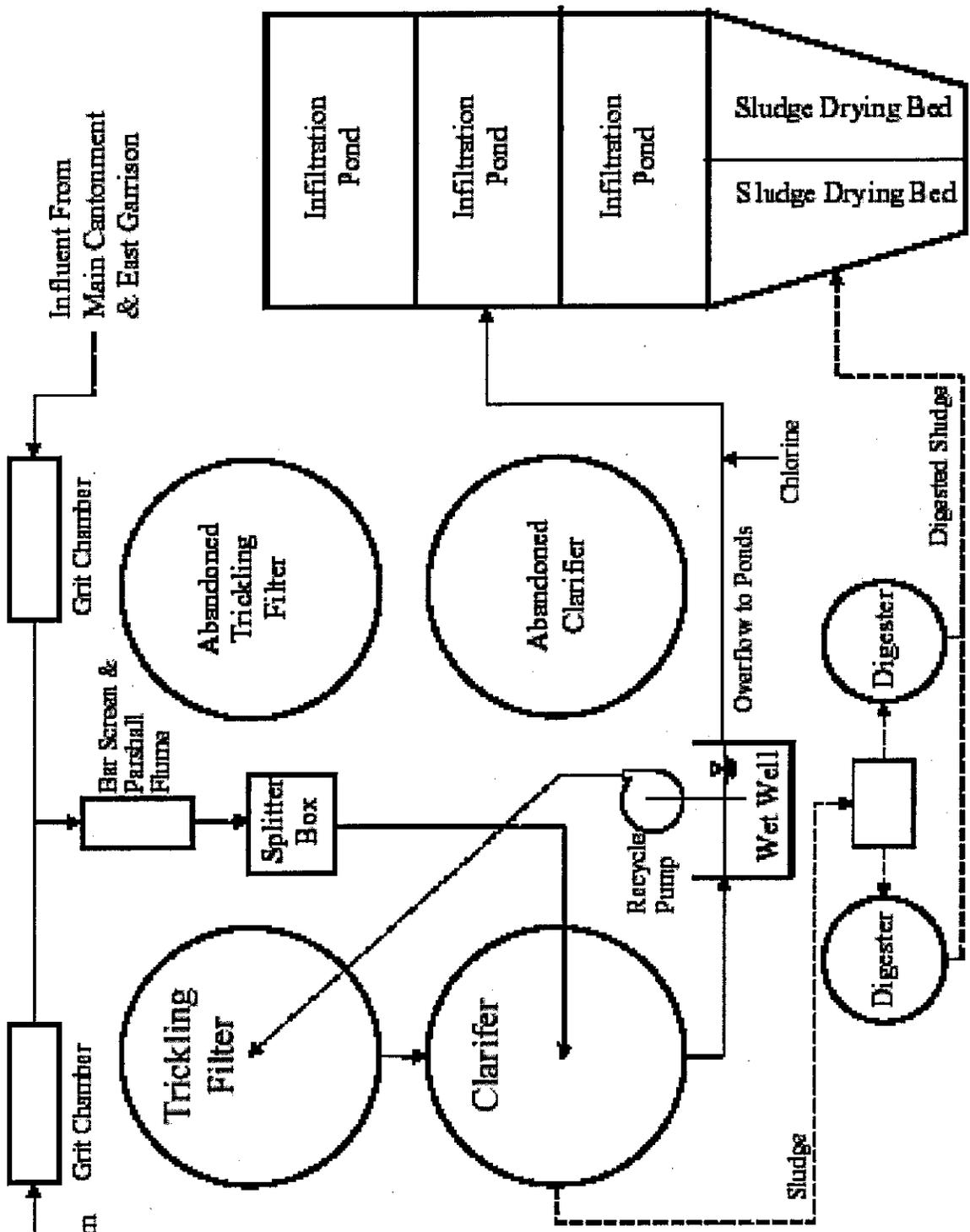


**CALIFORNIA ARMY NATIONAL GUARD
CAMP ROBERTS MILITARY RESERVATION
SAN LUIS OBISPO AND MONTEREY COUNTIES**

Site Map

Attachment

B



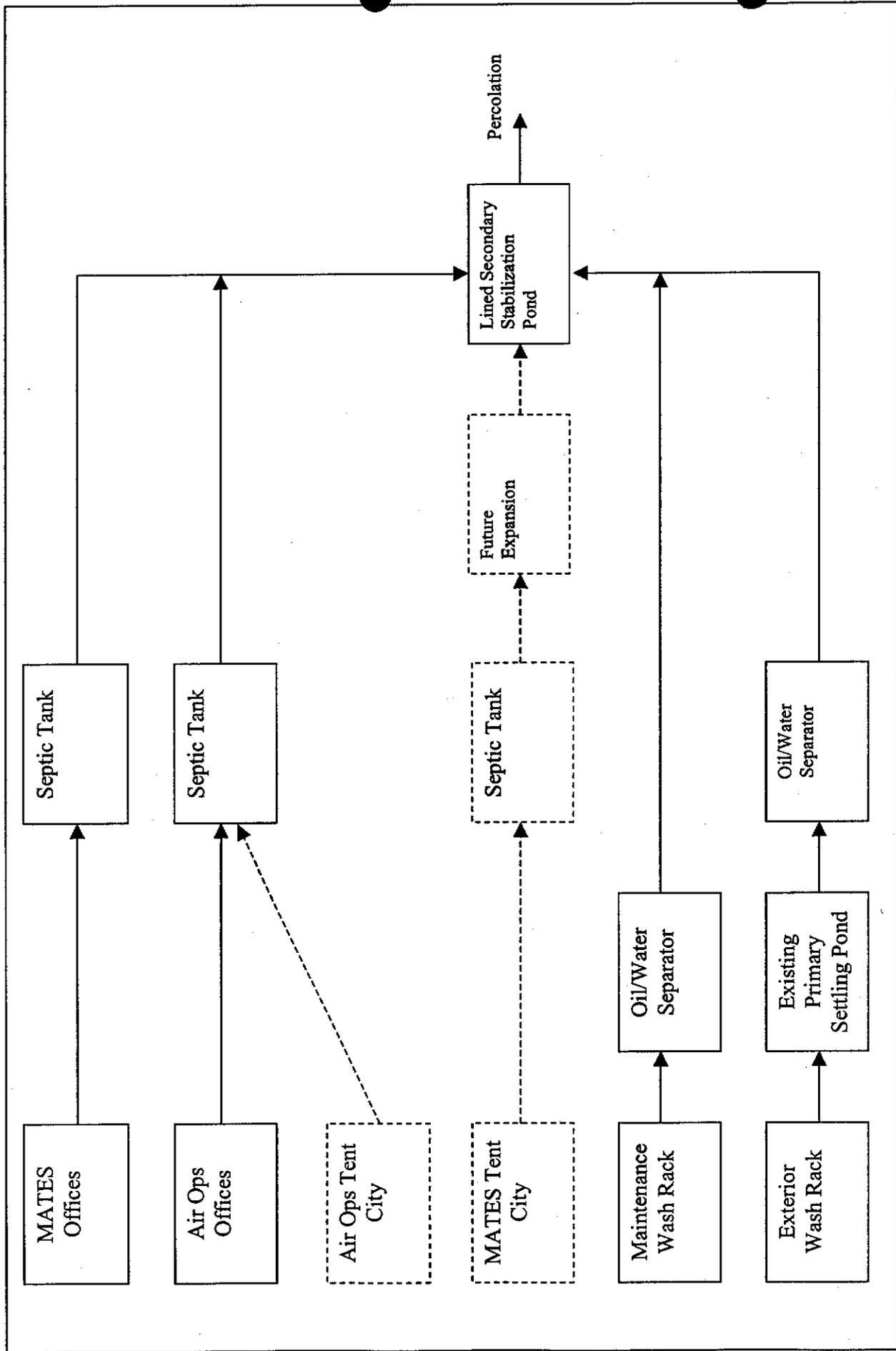
**CALIFORNIA ARMY NATIONAL GUARD
 CAMP ROBERTS MILITARY RESERVATION
 SAN LUIS OBISPO AND MONTEREY COUNTIES**

Main Garrison WWTP Flow Schematic

Attachment

C





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

East Garrison WWTP Flow Schematic

Attachment

D

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. R3-2004-0106
 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. R3-2004-0106.

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	24 hr Composite	Monthly
Total Suspended Solids	mg/l	24 hr Composite	Monthly
Nitrite (as N)	mg/l	Grab	Semiannually (March & September)
Nitrate (as N)	mg/l	Grab	Semiannually (March & September)
Total Kjeldahl Nitrogen (as N)	mg/l	Grab	Semiannually (March & September)
Total Nitrogen (as N)	mg/l	Grab	Semiannually (March & September)

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.

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)
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)

Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency	
			Main Garrison	East Garrison
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)
Total Nitrogen (as N)	mg/l	Grab	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

Parameter/Constituent *	Units	Sample Type	Minimum Sampling and Analyzing Frequency **
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


Executive Officer

9-16-04

Date