



California Regional Water Quality Control Board

Lahontan Region



Linda S. Adams
Secretary for
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Arnold Schwarzenegger
Governor

January 31, 2007

Interested Persons and Agencies:

TENTATIVE AMENDED WASTE DISCHARGE REQUIREMENTS FOR CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION HIGH DESERT STATE PRISON AND CALIFORNIA CORRECTIONAL CENTER AT SUSANVILLE WASTEWATER TREATMENT FACILITY, LASSEN COUNTY (WDID NO. 6A186000500)

Enclosed are tentative amended waste discharge requirements and an amended monitoring and reporting program for the above-cited Facility. The Water Board requests that you review the enclosed documents and provide your written comments no later than **March 2, 2007**. Comments received after March 2, 2007, may not be given full consideration in preparing the recommended amended Order to be presented to the Water Board for adoption at the public meeting scheduled for April 11-12, 2007 in the northern part of the Lahontan Region, location to be set at a later date.

The attached tentative waste discharge requirements may also be reviewed or obtained from the Water Board's web site at <http://www.waterboards.ca.gov/lahontan/> under "Water News."

If you need further information regarding the tentative amended waste discharge requirements and the associated amended monitoring and reporting program, please contact me at (530) 542-5467, or Alan Miller, P.E., Chief, Northern Regulatory Unit, at (530) 542-5430, or at the letterhead address above.

Robert Tucker
Water Resource Control Engineer

- Enclosures: 1) Comment Form
2) Tentative Amended Waste Discharge Requirements No. 6-95-23A2
3) Tentative Amended Monitoring and Reporting Program No. 95-23A1

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

BOARD ORDER NO. 6-95-23A2 (TENTATIVE)
WDID NO. 6A186000500

AMENDED WASTE DISCHARGE REQUIREMENTS
FOR
CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
HIGH DESERT STATE PRISON
AND
CALIFORNIA CORRECTIONAL CENTER AT SUSANVILLE
WASTEWATER TREATMENT FACILITY

Lassen County

The California Regional Water Quality Control Board, Lahontan Region (Water Board) finds:

1. Discharger

The California Department of Corrections has been renamed the California Department of Corrections and Rehabilitation (hereinafter CDCR). The CDCR operates the High Desert State Prison and California Correctional Center at Susanville Wastewater Treatment Facility. For the purposes of this Order, the CDCR is the "Discharger."

2. Facility

The "Facility" is defined as the High Desert State Prison (HDSP) and California Correctional Center (CCC) at Susanville Wastewater Treatment Facility. The Facility includes mechanical aeration and oxidation ponds, and wastewater storage ponds. Chlorination processes are applied to the effluent prior to reuse and disposal by spray irrigation in authorized areas where fodder crops are grown. The chlorinated effluent is not tested for bacteria and therefore the irrigation water is considered secondary *undisinfected* effluent as defined by California Code of Regulations, Title 22, section 60301.902.

3. Board Order History

The Water Board regulated wastewater operations at the CCC site in a series of waste discharge requirements (WDRs) dating from the 1970's. Major wastewater treatment plant upgrades were completed and the authorized disposal areas were expanded to total 250 acres in 1995, concurrent with the opening of the HDSP. Revised WDRs in Board Order No. 6-95-23 were adopted for the Facility on September 9, 1995. On July 13, 2005, the Water Board adopted Cease and Desist Order (CDO) No. R6T-2005-0016 to enforce requirements pertaining to flow limits and to maintaining agronomic wastewater application rates in the authorized disposal areas. CDO No. R6T-2005-0016

requires the Discharger to take both immediate and long-term corrective actions to comply with WDRs. To comply with the CDO, the Discharger has, among other things, reduced influent flow through water conservation measures and increased available irrigation area. On July 13, 2006, the Water Board adopted amended WDRs in Board Order No. 6-95-23A1 to increase the authorized disposal area from 250 acres to a total of 320 acres, a twenty-eight percent increase. In addition, the Water Board Executive Officer has ordered certain technical reports pursuant to Water Code section 13267, principally to follow up on preliminary reports on the Facility and reuse/disposal operations provided by the Discharger pursuant to the CDO.

4. Reason for Action

The Discharger filed a complete revised waste discharge report on March 24, 2006, requesting to increase the currently-allowed amount of wastewater that may be disposed of annually to the existing authorized disposal areas. The principal technical report supporting the request, *California Correctional Center and High Desert State Prison Agronomic Technical Report, Final, September 2005* (Agronomic Technical Report, Carollo Engineers) is incorporated into the revised waste discharge report by reference.

5. Proposed Changes

The Discharger has proposed to increase the annual average wastewater flow rate to the reuse/disposal areas from 1.0 million gallons per day (MGD) to 1.43 MGD, a forty-three percent increase. The corresponding increase in the maximum volumes that may be annually discharged is from 365 million gallons to 522 million gallons, and the corresponding average annual increase in applied wastewater is from approximately 42 inches to approximately 60 inches (per square inch), with three harvests each year. The Agronomic Technical Report indicates that the increase is justified based on hydrologic and nitrogen fate-modeling estimates, as certified by both a civil engineer and an agronomic engineer registered in California, and asserts that agronomic application rates will be maintained.

Board Order No. 6-95-23 includes the following requirement at section I.a.1.c: "Beginning in August 1995, the monthly average flowrate¹ of wastewater to the treatment works . . . shall not exceed 1.4 million gallons per day." This requirement is based on plant treatment and storage capabilities for the Facility as designed. The CDO was issued, in part, because the Discharger was violating the influent flow limit at times (and continues to do so). Allowing effluent disposal of up to 1.43 MGD is not contrary to requirement I.A.1.d. because effluent is stored across calendar years. Increasing the allowable effluent flow will aid in reducing the amount of wastewater that must be stored in the ponds when crops

¹ Monthly average based on average daily flow rates.

in the reuse areas are dormant (thus maintaining capacity for storing sewage inflows and direct precipitation on the ponds), and because a portion of the stored inflow to the Facility will be discharged to ground water through pond liner leakage or will be evaporated.

In summary, the revised discharge report provides a basis to increase the allowable effluent flow. However, the Agronomic Technical Report contains a number of modeling assumptions, parameters that are inherently unknowable in advance, variables that are difficult to quantify without measuring *in situ*, and other shortcomings. For examples, "irrigation efficiency" for the wheel-line irrigation systems used is assumed to be seventy percent, a salt "leaching fraction" of twenty percent in excess of crop water needs is recommended (used in the model), and statistical or literature values are used to represent parameters such as estimated nitrogen uptake in plants, average nitrogen concentration in applied wastewater, annual evaporation and annual precipitation. Such uncertainties are not uncommon in models of complex systems, and the assumptions used appear reasonable (i.e., within expected ranges), if not fully justified.

Certain variables such as irrigation efficiency and crop nutrient uptake can be measured to reduce uncertainty in estimates, but this has not been done by the Discharger to date to support the revised waste discharge report. Because of the above-mentioned uncertainties in the agronomic model used by the Discharger, and because disposal is to be increased by up to forty-three percent while available land for disposal has increased by twenty-eight percent, there is a need to verify that agronomic application rates are maintained in the disposal areas. Therefore, this Order includes an amended Monitoring and Reporting Program that requires additional monitoring and reporting to verify that reuse and disposal operations are managed to ensure agronomic application rates for water and applied nutrients are maintained, and monitoring to detect adverse changes in ground water quality in the treatment and disposal areas.

6. Notification of Interested Parties

The Water Board has notified the Discharger and interested parties of the proposed amendments to Board Order No. 6-95-23A1.

7. Consideration of Public Comments

The Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.

8. California Environmental Quality Act

The Discharger, acting as Lead Agency pursuant to the California Environmental Quality Act (CEQA, Public Resources Code 21000, et seq.) filed a Notice of Determination on December 20, 1991, for the *Final Environmental Impact Report*

for the California State Prison--Lassen County (FEIR), State Clearinghouse No. 90020706. The FEIR analysis included potential for expanding agronomic wastewater reuse, and no significant or potentially significant effects were identified after incorporation of required mitigation measures. Pursuant to CEQA Guidelines section 15096, the Water Board has reviewed the FEIR as a Responsible Agency with respect to water quality and determined that the prescribed mitigation measures are adequate, and no significant or potentially significant effects will occur from increasing allowable wastewater disposal at agronomic rates as proposed.

IT IS HEREBY ORDERED that Board Order No. 6-95-23A1 shall be amended as follows:

A. Section I.A.1.d. is replaced by the following text:

Beginning in 2007, the discharge of wastewater to the authorized disposal area must not exceed 522 million gallons in a calendar year (January 1 to December 31). Agronomic application rates for wastewater must be maintained at all times and may reduce the total amount of authorized discharge below the 522 million gallon annual maximum.

B. Section II.C.1. is replaced by the following text.

Pursuant to Section 13267(b) of the California Water Code, the Discharger must comply with amended Monitoring and Reporting Program No. 95-23A1 as specified by the Executive Officer.

C. All Findings, Discharge Specifications, and Provisions of Board Order No. 6-95-23 and Board Order No. 6-95-23A1 not amended herein remain in effect.

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Lahontan Region, on April 11, 2007.

HAROLD J. SINGER
EXECUTIVE OFFICER

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

**AMENDED MONITORING AND REPORTING
PROGRAM NO. 95-23A1(Tentative)
WDID NO. 6A186000500
FOR
CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
HIGH DESERT STATE PRISON
AND
CALIFORNIA CORRECTIONAL CENTER AT SUSANVILLE
WASTEWATER TREATMENT FACILITY**

Lassen County

I. MONITORING

A. Flow Monitoring

The following must be recorded in a permanent logbook:

1. The total volume, in millions of gallons (MG), of wastewater flow to the treatment Facility for each day.
2. The total volume, in MG, of wastewater flow to the treatment Facility for each month.
3. The maximum flow rate, in millions of gallons per day (MGD), of wastewater to the treatment Facility that occurs each day.
4. The calculated average flow rate, in MGD, of wastewater to the treatment Facility for each month.
5. The total volume, in MG, of wastewater flow to each field in the authorized disposal area for each month. Separate flow volumes must be recorded for any supplemental non-wastewater applied to the fields for agricultural purposes.
6. Visual observations of surface runoff from the fields in the authorized disposal area to the tailwater collection basin for each day that wastewater is applied. Indicate whether the tailwater basin is dry, moist, or ponded with water, and whether water from the basin is being reapplied to the fields or is overflowing. If no runoff reached the tailwater basin on a given day, indicate that no tailwater runoff occurred.

7. The freeboard (distance from the top of the lowest part of the dike to the wastewater surface in a pond) at the beginning of each month in each wastewater pond, and the minimum freeboard in each pond for each month. Ponds not containing wastewater must be so noted.
8. Flow measuring devices must be calibrated annually, at a minimum.

B. Facility Influent Monitoring

Samples of the wastewater influent to the Facility, collected upstream of all treatment units, must be analyzed to determine the magnitude of the following parameters:

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Frequency</u>
pH	pH units	Grab ¹	Monthly
BOD ²	mg/L	24-hour composite	Monthly
Nitrate Nitrogen	mg/L as N	24-hour composite	Monthly
Kjeldahl Nitrogen	mg/L as N	24-hour composite	Monthly
Ammonia Nitrogen	mg/L as N	24-hour composite	Monthly
Total Dissolved Solids	mg/L	24-hour composite	Monthly

C. Facility Effluent Monitoring

Samples of the wastewater effluent from the treatment Facility, collected downstream of all treatment and disinfection units, must be analyzed to determine the magnitude of the following parameters:

¹ Grab samples as defined for respective parameters in current Sampling and Analysis Plan, Attachment A, General Provision 1.d.

² Biochemical Oxygen Demand (5-day, 20°C) of an unfiltered sample.

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Frequency</u>
Dissolved Oxygen	mg/L	Grab ¹	Monthly
pH	pH units	Grab ¹	Monthly
Temperature	°C	Grab ¹	Monthly
BOD ²	mg/L	24-hour composite	Monthly
Total Suspended Solids	mg/L	24-hour composite	Monthly
MBAS ³	mg/L	24-hour composite	Monthly
Total Dissolved Solids	mg/L	24-hour composite	Monthly
Nitrate Nitrogen	mg/L as N	24-hour composite	Monthly
Kjeldahl Nitrogen	mg/L as N	24-hour composite	Monthly
Ammonia Nitrogen	mg/L as N	24-hour composite	Monthly
Chloride	mg/L	24-hour composite	Quarterly
Sodium	mg/L	24-hour composite	Quarterly
Sulfate	mg/L	24-hour composite	Quarterly
Total Hardness	mg/L	24-hour composite	Annually
TPH ⁴	mg/L	24-hour composite	Annually
Fluoride	µg/L	24-hour composite	Annually
Oil and Grease	mg/L	Grab ¹	Annually
Bromoform	µg/L	Grab ¹	Annually
Chloroform	µg/L	Grab ¹	Annually
Dibromochloromethane	µg/L	Grab ¹	Annually
Dichlorobromomethane	µg/L	Grab ¹	Annually
Heavy Metals ⁵	mg/L	24-hour composite	Annually
Total Cyanides	µg/L	24-hour composite	Annually
Total Phenols	µg/L	24-hour composite	Annually
Volatile Organics ⁵	µg/L	Grab ¹	Annually
Base/Neutral Extractable Organics ⁵	µg/L	24-hour composite	Annually
Acid Extractable Organics ⁵	µg/L	24-hour composite	Annually

D. Ground Water Monitoring

The existing ground water monitoring system consists of 13 monitoring wells designated sequentially as SV-GW-3 through SV-MW-15. Additional

¹ Grab samples as defined for respective parameters in current Sampling and Analysis Plan, Attachment A, General Provision 1.d.

² Biochemical Oxygen Demand (5 day, 20°C) of a filtered effluent sample.

³ Methylene Blue Active Substances

⁴ Total Petroleum Hydrocarbons, using U.S. Environmental Protection Agency Test Method SW 8015 with method calibration based on an appropriate fuel standard. When a test result is below the reporting minimum level, the result must be reported as "less than "x" micrograms/liter" ("x" must be the numeric reporting minimum level value for the test).

⁵ Analyses must be conducted for the Priority Pollutants shown in Attachment B.

monitoring wells SV-GW16B, SV-GW16C, and SV-GW2C are approved to be constructed by June 30, 2007, and must be sampled thereafter as part of the ground water monitoring system. If existing monitoring wells are to be abandoned after new wells are approved and installed, the Discharger must submit a revised ground water monitoring plan to the Water Board for approval by the Executive Officer.

The above-listed ground water monitoring wells must be sampled as described below. Grab samples collected from the upper 20 feet, or the entire thickness (whichever is less), of the uppermost groundwater-bearing zone of the monitoring wells must be analyzed to determine the magnitude of the following parameters:

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
Kjeldahl Nitrogen	mg/L as N	Quarterly
Nitrate Nitrogen	mg/L as N	Quarterly
Ammonia Nitrogen	mg/L as N	Quarterly
MBAS ¹	mg/L	Quarterly
Chloride	mg/L	Quarterly
Sodium	mg/L	Quarterly
Sulfate	mg/L	Quarterly
Total Dissolved Solids	mg/L	Quarterly
Total Petroleum Hydrocarbons ²	µg/L	Annually
Bromoform	µg/L	Annually
Chloroform	µg/L	Annually
Dibromochloromethane	µg/L	Annually
Dichlorobromomethane	µg/L	Annually
Total Cyanides	µg/L	Annually
Total Phenols	µg/L	Annually
Volatile Organics ³	µg/L	Annually
Base/Neutral Extractable Organics ³	µg/L	Annually
Acid Extractable Organics ³	µg/L	Annually
Heavy Metals ³	mg/L	Annually

- a. Each time a monitoring well is sampled, and prior to well purging as specified below, the elevation (feet above mean sea level) of ground water in each well must be measured and recorded.

¹ Methylene Blue Active Substances

² Use USEPA Test Method SW 8015 with method calibration based on an appropriate fuel standard. When a test result is below the reporting minimum level, the result must be reported as "less than x" micrograms/liter" ("x" must be the numeric reporting minimum level value for the test).

³ Analyses must be conducted for the Priority Pollutants shown in Attachment B.

b. Well Purging

- i. Well volume is the volume of water in the submerged portion of a well casing. Ground water samples must be collected only after at least three well volumes have been removed, and temperature, electrical conductivity, and pH measurements have stabilized to approximately $\pm 10\%$ for each successive well volume removed.
- ii. The field measurements of purged water volume, temperature, electrical conductivity and pH during purging must be reported with the results of ground water analyses. Parameter values must be reported in the following units:

<u>Parameter</u>	<u>Units</u>
Temperature	°C or °F
Electrical Conductivity	mmhos/cm or dS/m
pH	pH units

- iii. Static water elevation prior to sampling, well casing diameter, bottom elevation, and total well volumes removed prior to sampling must be reported with the results of ground water analyses.

- c. The direction of the ground water flow under the Facility and authorized disposal sites must be calculated quarterly, and presented with accompanying monitoring well static water level data. A graphical representation of the ground water flow direction and elevations must be included in the quarterly monitoring reports.

E. Wind Monitoring

A wind velocity (anemometer) and direction recording device must measure and record the following parameters when spray irrigation is occurring:

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
Maximum Wind Speed	miles per hour	Daily
Wind Direction during Maximum Wind Speed	azimuth	Daily

F. Biosolids Disposal

The following must be recorded monthly in a permanent log:

1. Total quantity of biosolids in the sedimentation ponds during the monitoring period. If a pond is out of service for biosolids drying prior to their reuse or disposal, it must be reflected in the log.
2. For all biosolids removed from the Facility: Date and quantity of biosolids removed, location of use or disposal, recipient (including name address, and telephone number) and biosolids disposal method (including crops grown, if applicable).
3. Cumulative total quantity of biosolids currently on site including the quantity of biosolids added during the monitoring period.

G. Authorized Disposal Site Monitoring

1. An Annual Cropping Plan must be submitted by **January 15 of each year** including, but not limited to, the following items describing the proposed cropping plan for the calendar year.
 - a. Names, addresses, and telephone numbers of users of reclaimed wastewater from the Facility, other than the Discharger.
 - b. For each field, provide the following information
 - i. Location using a US Geological Survey 7.5 minute topographic quadrangle map.
 - ii. Acreage.
 - iii. Crop names and types (i.e. fodder, seed or other).
 - iv. Approximate planting dates.
 - v. Approximate harvest dates.
 - vi. Irrigation method.
 - vii. Volume of water usage expected based on crop needs (irrigation efficiency, evapotranspiration and need for maintenance leaching). Provide basis for calculations, including data for irrigation efficiency as measured in the field using methods described in appropriate literature references (i.e., Intermountain Alfalfa Management, Publication 3366, University of California Division of Agriculture and Natural Resources, 1997).

- viii. Amount of nitrogen expected to be applied to the crop from all sources, including estimates of nitrogen available in the root zone based on annual soil testing.
 - ix. Amount of nitrogen expected in the harvested crop per harvest and total amount expected to be removed from the field for the year.
 - x. Describe the fate of nitrogen that has been applied, or that is available in the root zone, that is not accounted for in the crops harvested.
2. An Authorized Disposal Site Monitoring Report must be provided on a quarterly basis. The Authorized Disposal Site Monitoring Report must provide information including, but not limited to, the following:
- a. Quarterly analysis and summary, by a certified soil scientist or qualified agronomist, of the amount of water and nitrogen applied or available to the crops for each irrigated field (see I.G.1.b., above). The analysis must compare the actual water and nitrogen applications to those predicted in the Annual Cropping Plan and discuss any significant differences. Additionally, this quarterly report must include an evaluation of the actual crop production at harvest to that projected in the Annual Cropping Plan.
 - b. For each harvest completed during the quarter, the report must include the total amount of nitrogen harvested based on the results of site-specific plant tissue analyses. Conservative (lower-bound) estimates of the amount of nitrogen harvested may be used in lieu of site-specific plant tissue analyses provided the estimate is justified by use of prior site-specific tissue analyses or literature references for alfalfa grown using recycled water. The production from the field may be determined by multiplying the number of bales by an average bale weight. The results of this calculation must be compared to the total amount of nitrogen applied to the crop from all sources (e.g., wastewater, other water, and fertilizer) or available in the soil during production. A comparison with the Annual Cropping Plan must be provided, and any significant differences from, or modifications needed to, the Annual Cropping Plan must be addressed.

- c. Recycled water balance for the quarter and the crop cycle including: the amount of water applied to each field (see G:1.b., above), water losses due to irrigation efficiency, evapotranspiration, and the amount of water in storage in the vadose zone or available for percolation below the root zone. These values must be compared to the values proposed in the Annual Cropping Plan and any significant differences must be addressed. If recycled water is blended with non-recycled water to meet the water demand during warmer seasons, the quantity and percentage of recycled water and the total water applied must be determined and reported. Nitrogen content of non-recycled water must also be determined and reported.
 - d. Information that demonstrates that all recycled water applied complied with the State Department of Health Services water recycling (reclamation) requirements specified in section I.C of Board Order No. 6-95-23. The information should include verification that the level of treatment required for water recycling was achieved and that the methods of recycled water application were implemented as required.
3. Incorporated in the annual reporting requirements described in section II.B.3, below, the Discharger must report information including, but not limited to, the following:
- a. Evidence of public and worker notification of the use of undisinfected reclaimed water.
 - b. Evidence of effective ongoing worker training in the safe handling of undisinfected reclaimed water, and log of maintenance activity showing use of undisinfected recycled water stopped during required maintenance, and flow stoppage prior to harvest. Record of trainers/trainees, when and what subjects covered.
 - d. List of special equipment provided to workers for handling undisinfected recycled water (i.e. gloves, respirators, and eye protection), record of provision and provisioner. Locations of protected equipment storage.

- e. Provisions for worker hygiene in the field when using undisinfectated reclaimed water, such as provision and quantity of freshwater washdown water and protective measures for food and drink handling.
4. An Authorized Disposal Site Operations Report must be provided quarterly, maintained onsite, and made available for inspection by Water Board staff.
- a. Summary of daily wind speed(s) and direction(s) at the Authorized Disposal Site, indicating periods when irrigation ceased due to the potential to transport effluent offsite by high wind conditions. Additionally, the report must include a discussion of the factors that lead to a decision to continue irrigation when the wind speed exceeds the level defined by the Discharger as its best management practice for preventing off-site transport of reclaimed wastewater. (The Discharger must develop and implement a plan for wind speed monitoring and terminating irrigation with recycled water when wind conditions may cause the recycled water spray or aerosols to leave the property as required in General Reporting Requirement II.A.3.)
 - b. Monthly evaluation of the effectiveness of measures to prevent offsite drift of undisinfectated recycled water aerosols.
 - c. Summary of maintenance activities such as maintenance of adequate setbacks from the property lines for the use of undisinfectated reclaimed water, discing, deep discing, weed removal and reconturing at land spreading areas and irrigated fields.
 - d. Summary of daily inspections for ponding, offsite flow or offsite drift when irrigation with recycled water is occurring.

H. Chemical Use Monitoring

The Discharger must record the names and chemical compositions, locations, quantities, and dates of application of all chemical fertilizers, herbicides and pesticides applied to any crop grown on the Authorized Disposal Site in a permanent log book. Chemical use information must be submitted to the Water Board on a quarterly basis.

I. Operation and Maintenance

A summary of any operational problems and maintenance activities that may affect effluent quality or disposal site operations must be submitted to the Water Board with each quarterly monitoring report.

This summary must discuss:

1. Any modifications or additions to the wastewater conveyance system, treatment facilities, or disposal/water recycling facilities.
2. Any major maintenance conducted on the wastewater conveyance system, treatment facilities, or disposal/water recycling facilities.
3. Any major problems occurring in wastewater conveyance system, treatment facilities, or disposal/water recycling facilities.
4. The calibration of any wastewater flow measuring devices.

II. REPORTING

A. General Provisions

1. The Discharger must comply with the "General Provisions for Monitoring and Reporting," dated September 1, 1994, which is attached to and made part of this Monitoring and Reporting Program.
2. The Discharger shall attach a certified cover letter to any monitoring report provided to the Water Board. The information contained in the certified cover letter shall clearly identify any violations of this Order, discuss corrective actions taken or planned, and propose a time schedule for completing identified corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation. An example cover letter is provided in Attachment C, which is made part of this Monitoring and Reporting Program.
3. The Discharger must submit by **July 30, 2007** a Wind Speed Monitoring Plan. The plan must include measures to determine and record wind speed and direction at the Authorized Disposal Site and sufficient alarm mechanisms to warn site operators of excessive wind conditions that may allow undischarged effluent to be discharged off-site in violation of waste discharge requirements. The Plan must identify measures that will be implemented to

maintain compliance with requirements in response to detecting wind speeds in excess of the level defined by the Discharger as its best management practice for preventing wastewater from leaving its authorized disposal area.

B. Submittal Periods

The Discharger must provide monitoring reports according to the following schedule:

1. Quarterly reports containing the monitoring data and information required during the quarter shall be provided to the Water Board as specified below:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January 1 - March 31	April 30
April 1 - June 30	July 30
July 1 - September 30	October 30
October 1 - December 31	January 30

2. Summary of reports required on a quarterly frequency:
 - a. Facility Influent Monitoring Report
 - b. Facility Effluent Monitoring Report
 - c. Operation and Maintenance Report
 - d. Ground Water Monitoring Report
 - e. Wind Speed Monitoring Report
 - f. Authorized Disposal Site Monitoring Report
 - g. Authorized Disposal Site Operations Report
 - h. Chemical Use Monitoring Report
3. An annual monitoring report must be submitted with the January 30 monitoring report. The report must contain:
 - a. A summary and evaluation of the above information in Reporting Requirement II.B.2, which also includes compliance status;

- b. Graphical and tabular presentation of all the monitoring data obtained from the previous year. Ground water reports must include multi-year graphs and trend analyses for total dissolved solids and nitrate as N.
- c. The compliance record and corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requirements;
- d. The names and grades of all the certified operators;
- e. An annual health and safety compliance monitoring report, discussed in section I.G.3.;
- f. Chemical Use Monitoring reporting information discussed in section I.H.; and
- g. The annual Federal Biosolids Report required pursuant to 40 Code of Federal Regulations Part 503.

Ordered by: _____ Dated: _____

HAROLD J. SINGER
EXECUTIVE OFFICER

- Attachments:
- A. General Provisions for Monitoring and Reporting
 - B. Priority Pollutant List
 - C. Certified Reporting Form Cover Letter

ATTACHMENT "A"
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

GENERAL PROVISIONS
FOR MONITORING AND REPORTING

1. SAMPLING AND ANALYSIS

- a. All analyses shall be performed in accordance with the current edition(s) of the following documents:
 - i. Standard Methods for the Examination of Water and Wastewater
 - ii. Methods for Chemical Analysis of Water and Wastes, EPA
- b. All analyses shall be performed in a laboratory certified to perform such analyses by the California State Department of Health Services or a laboratory approved by the Regional Board Executive Officer. Specific methods of analysis must be identified on each laboratory report.
- c. Any modifications to the above methods to eliminate known interferences shall be reported with the sample results. The methods used shall also be reported. If methods other than EPA-approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Regional Board Executive Officer prior to use.
- d. The discharger shall establish chain-of-custody procedures to insure that specific individuals are responsible for sample integrity from commencement of sample collection through delivery to an approved laboratory. Sample collection, storage, and analysis shall be conducted in accordance with an approved Sampling and Analysis Plan (SAP). The most recent version of the approved SAP shall be kept at the facility.
- e. The discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall insure that both activities will be conducted. The calibration of any wastewater flow measuring device shall be recorded and maintained in the permanent log book described in 2.b, below.
- f. A grab sample is defined as an individual sample collected in fewer than 15 minutes.
- g. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period at equal intervals. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.

2. OPERATIONAL REQUIREMENTS

a. Sample Results

Pursuant to California Water Code Section 13267(b), the discharger shall maintain all sampling and analytical results including: strip charts; date, exact place, and time of sampling; date analyses were performed; sample collector's name; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

b. Operational Log

Pursuant to California Water Code Section 13267(b), an operation and maintenance log shall be maintained at the facility. All monitoring and reporting data shall be recorded in a permanent log book.

3. REPORTING

- a. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time, and shall submit a timetable for correction.
- b. Pursuant to California Water Code Section 13267(b), all sampling and analytical results shall be made available to the Regional Board upon request. Results shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.
- c. The discharger shall provide a brief summary of any operational problems and maintenance activities to the Board with each monitoring report. Any modifications or additions to, or any major maintenance conducted on, or any major problems occurring to the wastewater conveyance system, treatment facilities, or disposal facilities shall be included in this summary.
- d. Monitoring reports shall be signed by:
 - i. In the case of a corporation, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
 - ii. In the case of a partnership, by a general partner;
 - iii. In the case of a sole proprietorship, by the proprietor; or

- iv. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
- e. Monitoring reports are to include the following:
 - i. Name and telephone number of individual who can answer questions about the report.
 - ii. The Monitoring and Reporting Program Number.
 - iii. WDID Number 6A265300900.
- f. Modifications

This Monitoring and Reporting Program may be modified at the discretion of the Regional Board Executive Officer.

4. NONCOMPLIANCE

Under Section 13268 of the Water Code, any person failing or refusing to furnish technical or monitoring reports, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars (\$1,000) for each day of violation.

ATTACHMENT "B"

PRIORITY POLLUTANTS

Metals

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

Miscellaneous

Cyanide
Asbestos (only if specifically required)

Pesticides & PCBs

Aldrin
Chlordane
Dieldrin
4,4'-DDT
4,4'-DDE
4,4'-DDD
Alpha-endosulfan
Beta-endosulfan
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
Alpha-BHC
Beta-BHC
Gamma-BHC
Delta-BHC
Toxaphene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260

Base/Neutral Extractibles

Acenaphthene
Benzidine
1,2,4-trichlorobenzene
Hexachlorobenzene
Hexachloroethane
Bis(2-chloroethyl) ether
2-chloronaphthalene
1,2-dichlorobenzene
1,3-dichlorobenzene
1,4-dichlorobenzene
3,3'-dichlorobenzidine
2,4-dinitrotoluene
2,6-dinitrotoluene
1,2-diphenylhydrazine
Fluoranthene
4-chlorophenyl phenyl ether
4-bromophenyl phenyl ether
Bis(2-chloroisopropyl) ether
Bis(2-chloroethoxy) methane
Hexachlorobutadiene
Hexachlorocyclopentadiene
Isophorone
Naphthalene
Nitrobenzene
N-nitrosodimethylamine
N-nitrosodi-n-propylamine
N-nitrosodiphenylamine
Bis (2-ethylhexyl) phthalate
Butyl benzyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Diethyl phthalate
Dimethyl phthalate
Benzo(a) anthracene
Benzo(a) pyrene
Benzo(b) fluoranthene
Benzo(k) fluoranthene
Chrysene
Acenaphthylene
Anthracene
1,12-benzoperylene
Fluorene
Phenanthrene
1,2,5,6-dibenzanthracene
Indeno (1,2,3-cd) pyrene
Pyrene
TCDD

Acid Extractibles

2,4,6-trichlorophenol
P-chloro-m-cresol
2-chlorophenol
2,4-dichlorophenol
2,4-di methyl phenol
2-nitrophenol
4-nitrophenol
2,4-dinitrophenol
4,6-dinitro-o-cresol
Pentachlorophenol
Phenol

Volatile Organics

Acrolein
Acrylonitrile
Benzene
Carbon tetrachloride
Chlorobenzene
1,2-dichloroethane
1,1,1-trichloroethane
1,1-dichloroethane
1,1,2-trichloroethane
1,1,2,2-tetrachloroethane
Chloroethane
Chloroform
1,1-dichloroethylene
1,2-trans-dichloroethylene
1,2-dichloropropane
1,3-dichloropropylene
Ethylbenzene
Methylene chloride
Methyl chloride
Methyl bromide
Bromoform
Dichlorobromomethane
Chlorodibromomethane
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl chloride
2-chloroethyl vinyl ether
Xylene

ATTACHMENT C

Date _____

California Regional Water Quality Control Board
Lahontan Region
2501 Lake Tahoe Boulevard
South Lake Tahoe, CA 96150

Facility Name:

Address:

Contact Person:

Job Title:

Phone:

Email:

WDR/NPDES Order Number:

WDID Number:

Type of Report (circle one):

Monthly Quarterly Semi-Annual Annual Other

Month(s) (circle applicable month(s)*:

JAN FEB MAR APR MAY JUN
JUL AUG SEP OCT NOV DEC

*annual Reports (circle the first month of the reporting period)

Year:

Violation(s)? (Please check one): _____ NO

_____ YES*

*If YES is marked complete a-g (Attach Additional information as necessary)

a) Brief Description of Violation:

**b) Section(s) of WDRs/NPDES
Permit Violated:**

c) Reported Value(s) or Volume:

**d) WDRs/NPDES
Limit/Condition:**

**e) Date(s) and Duration of
Violation(s):**

f) Explanation of Cause(s):

**g) Corrective Action(s)
(Specify actions taken and a schedule
for actions to be taken)**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, 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.

If you have any questions or require additional information, please contact _____ at the number provided above.

Sincerely,

Signature: _____

Name: _____

Title: _____