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Arnold Schwarzenegger
Governor

ORDER NO. R1-2001-60
NPDES NO. CA0024490

The following Discharger is required to furnish, under penalty of perjury, monitoring program reports in accordance with the conditions set forth in Order No. R1-2001-60 and the conditions set forth in this revised monitoring and reporting program:

Discharger	McKinleyville Community Services District
Name of Facility	Wastewater treatment facility
Facility Address	PO Box 2037
	McKinleyville CA 95519
	Humboldt County

Ordered by: _____
 Catherine E. Kuhlman, Executive Officer
 September 13, 2006

MONITORING AND REPORTING PROGRAM (MRP)

The Code of Federal Regulations (CFR) at 40 CFR §122.48 requires that all NPDES permits specify monitoring and reporting requirements. CWC sections 13267 and 13383 also authorize the Regional Water Quality Control Board (RWQCB) to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements which implement the federal and California regulations.

I. GENERAL MONITORING PROVISIONS

- A.** Composite samples may be taken by a proportional sampling device approved by the Regional Water Board Executive Officer (Executive Officer) or by grab samples composited in proportion to flow. In compositing samples, the sampling interval shall not exceed one hour.

II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
--	M-INF	Treatment facility headworks
001	M-001A	Chlorine contact chamber prior to dechlorination
001	M-001B	Chlorine contact chamber following dechlorination
001	M-002	Outfall to the Mad River under the Hammond Trail railroad bridge
--	M-003	Outfall to percolation ponds at 40°55'39"north, 124°7'35"west
--	M-004	Recycled wastewater irrigation of Fisher Ranch
--	M-005	Recycled wastewater irrigation of Homen Dairy
--	M-006	Recycled wastewater irrigation of Hiller East
--	M-007	Recycled wastewater irrigation of Pialorsi Dairy
--	R-001	Mad River upstream of Highway 101 bridge
--	R-002	Mad River at the Tyee City boat ramp
--	W-001	Well M-1
--	W-002	Well M-2 on the SW corner of the intersection of School and Fisher Roads
--	W-003	Well M-3
--	W-004	Well M-4
--	W-005	Well M-5
--	W-006	Well M-6
--	W-007	Well M-7 in the upper portion of the Fisher parcel
--	W-008	Well M-8 400 feet west of the intersection of School and Fisher roads
--	W-009	Well M-9
--	W-010	Well M-10
--	W-011	Well M-11
--	W-012	Well M-12
--	W-013	Well M-13

III. INFLUENT MONITORING REQUIREMENTS

A. Monitoring Location M-INF

1. The Discharger shall monitor influent to the facility at M-INF as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Waste flow	gallon	meter	continuous	meter
Biochemical Oxygen Demand	mg/L	24-hour flow-weighted composite	weekly when discharging at 001	Standard Method 5210B
Suspended solids	mg/L	24-hour composite	weekly when discharging at 001	Standard Method 2540D

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Location M-001A

1. The Discharger shall monitor chlorinated effluent at M-001A as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Waste flow	gallon	meter	continuous	meter
Chlorine residual	mg/L	Grab	daily when discharging at 001	40CFR136
Settleable Solids	mL/L	Grab	weekly when discharging at 001	Standard Method 2540F
Biochemical Oxygen Demand	mg/L	24-hour flow-weighted composite	weekly	Standard Method 5210B
Suspended Solids	mg/L	24-hour flow-weighted composite	weekly when discharging at 001	Standard Method 2540D

B. Monitoring Location M-001B

1. The Discharger shall monitor dechlorinated effluent at M-001B as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Test Method
Chlorine residual	mg/L	grab	daily when discharging at 001	40CFR136
Total coliform organisms	MPN	grab	weekly	Standard Method 9221
Hydrogen Ion	pH	Grab	weekly when discharging at 001	40CFR136
temperature	°C	Grab	weekly when discharging at 001	40CFR136

C. Monitoring Location M-002

1. The Discharger shall monitor effluent discharged to the Mad River at M-002 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Waste flow	gallon	meter	daily	meter

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Acute Toxicity Monitoring

1. The Discharger shall monitor effluent discharged to the Mad River at M-002 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
survival of rainbow trout (<i>Oncorhynchus mykiss</i>)	%	8-hour composite	monthly	EPA 600/4-90-027F 96-hour static or static renewal

B. Chronic Toxicity Monitoring

1. The Discharger shall monitor effluent discharged to the Mad River at M-002 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Fathead minnow (<i>Pimephales promelas</i>)	TUc	8-hour composite	annually	EPA 600/4-91-00 7 day larval survival; growth
Water flea (<i>Ceriodaphnia dubia</i>)	TUc	8-hour composite	annually	EPA 600/4-91-00 6 to 8 day survival: number of young
alga (<i>Selenastrum capricornutum</i>)	TUc	8-hour composite	annually	EPA 600/4-91-00 4 day growth rate

VI. LAND DISCHARGE MONITORING REQUIREMENTS

Monitoring Location M-003

1. The Discharger shall monitor effluent to percolation ponds at M-003 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Waste flow	gallon	meter	daily	meter

VII. RECLAMATION MONITORING REQUIREMENTS

A. Monitoring Location M-004

1. The Discharger shall monitor irrigation with recycled wastewater at M-004 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Type I Irrigation flow	gallon	meter	daily	meter
Type II Irrigation flow	gallon	meter	daily	meter

B. Monitoring Location M-005

1. The Discharger shall monitor irrigation with recycled wastewater at M-005 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Irrigation flow	gallon	meter	daily	meter

C. Monitoring Location M-006

1. The Discharger shall monitor irrigation with recycled wastewater at M-006 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Irrigation flow	gallon	meter	daily	meter

D. Monitoring Location M-007

1. The Discharger shall monitor irrigation with recycled wastewater at M-007 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Irrigation flow	gallon	meter	daily	meter

VIII. RECEIVING WATER MONITORING REQUIREMENTS – SURFACE WATER AND GROUNDWATER

A. Monitoring Location R-001

1. The Discharger shall monitor the Mad River at R-001 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Mad River flow	gallon /day	Gage	daily	USGS gage No. 11-4810.00
Temperature	°C	Grab	Monthly	40CFR136
Hydrogen ion	pH	Grab	Monthly	40CFR136
Dissolved oxygen	mg/L	Grab	Monthly	40CFR136
Turbidity	NTU	Grab	Monthly	Standard Method 2130B
Floating solids, liquids, foam, and/or scum	Y/N	Visual observation	Monthly	Compare w/ R-002
Oil, grease, or wax films	Y/N	Visual observation	Monthly	Compare w/ R-002
Aquatic growths	Y/N	Visual observation	Monthly	Compare w/ R-002
discoloration	Y/N	Visual observation	Monthly	Compare w/ R-002

B. Monitoring Location R-002

1. The Discharger shall monitor the Mad River at R-002 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Temperature	°C	Grab	Monthly	40CFR136
Hydrogen ion	pH	Grab	Monthly	40CFR136
Dissolved oxygen	mg/L	Grab	Monthly	40CFR136
Turbidity	NTU	Grab	Monthly	Standard Method 2130B
Floating solids, liquids, foam, and/or scum	Y/N	Visual observation	Monthly	Compare w/ R-001
Oil, grease, or wax films	Y/N	Visual observation	Monthly	Compare w/ R-001
Aquatic growths	Y/N	Visual observation	Monthly	Compare w/ R-001
discoloration	Y/N	Visual observation	Monthly	Compare w/ R-001

C. Monitoring Location W-001

1. The Discharger shall monitor well M-1 at W-001 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

D. Monitoring Location W-002

1. The Discharger shall monitor well M-2 at W-002 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Nitrogen as nitrate	mg/L	Grab	Twice annually one week before and one month after irrigation with recycled water	40CFR136
Groundwater elevation	inches	Observation	Quarterly	Above sea level

E. Monitoring Location W-003

1. The Discharger shall monitor well M-3 at W-003 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	Quarterly	Above sea level

F. Monitoring Location W-004

1. The Discharger shall monitor well M-4 at W-004 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

G. Monitoring Location W-005

1. The Discharger shall monitor well M-5 at W-005 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

H. Monitoring Location W-006

1. The Discharger shall monitor well M-6 at W-006 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

I. Monitoring Location W-007

1. The Discharger shall monitor well M-7 at W-007 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Nitrogen as nitrate	mg/L	Grab	Twice annually one week before and one month after irrigation with recycled water	40CFR136
Groundwater elevation	inches	Observation	quarterly	Above sea level

J. Monitoring Location W-008

1. The Discharger shall monitor well M-8 at W-008 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Nitrogen as nitrate	mg/L	Grab	Twice annually one week before and one month after irrigation with recycled water	40CFR136
Groundwater elevation	inches	Observation	quarterly	Above sea level

K. Monitoring Location W-009

1. The Discharger shall monitor well M-9 at W-009 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

L. Monitoring Location W-010

1. The Discharger shall monitor well M-10 at W-010 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

M. Monitoring Location W-011

1. The Discharger shall monitor well M-11 at W-011 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

N. Monitoring Location W-012

1. The Discharger shall monitor well M-12 at W-012 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

O. Monitoring Location W-013

1. The Discharger shall monitor well M-13 at W-013 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Groundwater elevation	inches	Observation	quarterly	Above sea level

IX. OTHER MONITORING REQUIREMENTS

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

1. The Discharger shall comply with all Permit Provisions related to monitoring, reporting, and recordkeeping.

B. Self Monitoring Reports (SMRs)

1. At any time during the term of this permit, the State or Regional Water Board may notify the Discharger to electronically submit self-monitoring reports. Until such notification is given, the Discharger shall submit self-monitoring reports in accordance with the requirements described below.
2. The Discharger shall submit monthly Self Monitoring Reports including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. Monthly reports shall be due on the 1st day of the second month following the end of each calendar month.
3. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

Sampling Frequency	Monitoring Period	SMR Due Date
Continuous	All	First day of second calendar month following month of sampling
X / hour	Hourly	First day of second calendar month following month of sampling
X / day	(Midnight through 11:59 PM) or any 24-hour period that reasonably represents a calendar day for purposes of sampling.	First day of second calendar month following month of sampling
X / week	Sunday through Saturday	First day of second calendar month following month of sampling
X / month	1 st day of calendar month through last day of calendar month	First day of second calendar month following month of sampling
X / quarter	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31	May 1 August 1 November 1 February 1
X / semi-annual period	January 1 through June 30 July 1 through December 31	August 1 February 1
X / year	January 1 through December 31	February 1

4. The Discharger shall report with each sample result the applicable Minimum Level (ML) and the current Method Detection Limit (MDL), as determined by the procedure in 40 CFR Part 136.
5. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations.
6. The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the WDRs; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.
7. SMRs must be submitted to the Regional Water Board, signed and certified as required by General Provision F.11, to the address listed below:

North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa CA 95403

C. Discharge Monitoring Reports (DMRs)

- 1.** As described in Section X.B.1 above, at any time during the term of this permit, the State or Regional Water Board may notify the discharger to electronically submit self-monitoring reports. Until such notification is given, the Discharger shall submit discharge monitoring reports (DMRs) in accordance with the requirements described below.
- 2.** DMRs must be signed and certified as required by the standard provisions (Attachment D). The Discharge shall submit the original DMR and one copy of the DMR to the address listed below:

State Water Resources Control Board
Discharge Monitoring Report Processing Center
Post Office Box 671
Sacramento, CA 95812

- 3.** All discharge monitoring results must be reported on the official USEPA pre-printed DMR forms (EPA Form 3320-1). Forms that are self-generated or modified cannot be accepted.