

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2015-XXXX
FOR
TULARE LAKE DRAINAGE DISTRICT MID EVAPORATION BASIN
KINGS COUNTY

I. Introduction

This Monitoring and Reporting Program (MRP) is issued pursuant to California Water Code (CWC) Section 13267 that authorizes the California Regional Water Quality Control Board, Central Valley Region (hereafter Central Valley Water Board), to require preparation and submittal of technical and monitoring reports.

This MRP establishes specific surface and groundwater monitoring and reporting requirements for the Tulare Lake Drainage District's (District or Discharger) operation of the Mid Evaporation Basin (Middle Basin) in accordance with Waste Discharge Requirements, Order R5-2015-XXXX. The requirements of this MRP are necessary to monitor Discharger compliance with the provisions of the Order and determine whether state waters accepting discharges from the District are meeting water quality objectives. The MRP Order establishes specific surface water monitoring (visual observations, drain water, groundwater, basin, and sediment), reporting, and electronic data deliverable requirements for the Discharger that are required to determine compliance with the limitations set in the Order.

The Discharger shall not implement any changes to this MRP unless and until the Central Valley Water Board adopts or the Executive Officer issues a revised MRP. Changes to sample location shall be established with concurrence of Central Valley Water Board staff, and a description of the revised stations shall be submitted for approval by the Executive Officer. All samples should be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each sample shall be recorded on the sample chain-of-custody form. The results of analyses performed in accordance with specified test procedures, taken more frequently than required at the locations specified in this MRP, and used in determining compliance with the Monitoring Requirements of this MRP, shall be reported to the Central Valley Water Board and used in determining compliance.

The Discharger shall conduct monitoring, record-keeping, and reporting as specified below.

II. General Provisions

Monitoring data collected to meet the requirements of the Order must be collected and analyzed in a manner that assures the quality of the data. All technical reports required by this MRP must be submitted electronically in a format specified by the Central Valley Water Board that is reasonably available to the Discharger. Field test instruments (such as pH) may be used provided that:

1. The operator is trained in the proper use of the instrument;

2. The instruments are calibrated prior to each use;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of this MRP.

Each laboratory report shall clearly identify the following:

1. Analytical method;
2. Constituent analyzed with measured value or concentration;
3. Units;
4. Method detection limit (MDL);
5. Reporting limit (RL) (i.e., a practical quantitation limit or PQL);
6. Documentation of cation/anion balance for general minerals analysis of supply water and groundwater samples.

All laboratory results shall be reported down to the MDL. Non-detect results shall be reported as less than the MDL (<MDL). Results above the MDL, but below the concentration of the lowest calibration standard for multipoint calibration methods or below the reporting limit for other methods, shall be flagged as estimated. Analytical procedures shall comply with the methods and holding times specified in: Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020, 1983); Methods for Determination of Inorganic Substances in Environmental Samples (EPA/600/R-93/100, 1993); Standard Methods for the Examination of Water and Wastewater, 20th Edition (WEF, APHA, AWWA); and Soil, Plant and Water Reference Methods for the Western Region, 2003, 2nd Edition (hereafter Western Region Methods).

III. Monitoring Requirements

A. General Monitoring Requirements

1. Dischargers must follow sampling and analytical procedures approved by the Executive Officer. Sample collection and analytical procedure requirements are included in Tables 1 through 5 below.
2. If conditions are not safe for sampling, the Discharger must provide documentation on why samples could not be collected and analyzed (e.g., photo documentation, flow measurements/estimates). For example, the Discharger may be unable to collect samples during dangerous weather conditions. However, once the dangerous

conditions have passed, the Discharger shall collect a sample of the discharge or, if the discharge has ceased, from the next discharge event.

3. The Discharger shall use clean sample containers and sample handling, storage, and preservation methods that are accepted or recommended by the selected analytical laboratory or, as appropriate, in accordance with approved United States Environmental Protection Agency analytical methods.
4. All samples collected shall be representative of the volume and nature of the material being sampled.
5. All sample containers shall be labeled with a unique identifier (e.g., basin/cell number or well number) and records maintained to show the time and date of collection as well as the person collecting the sample, the sample location, and method of sample collection and preservation.
6. The Discharger shall ensure that all sample analyses are conducted by a laboratory certified for such analyses by the California Department of Public Health. The laboratory analyses shall be conducted in accordance with Title 40 Code of Federal Regulations Part 136 (*Guidelines Establishing Test Procedures for the Analysis of Pollutants*) or other test methods approved by the Executive Officer.
7. All samples collected for laboratory analyses shall be preserved and submitted to the laboratory within the required holding time appropriate for the analytical method used and the constituents analyzed.
8. All instruments and devices used by the Discharger for the monitoring program shall be properly maintained and shall be calibrated as recommended by the manufacturer to ensure their continued accuracy.
9. All samples submitted to a laboratory for analyses shall be identified in a properly completed and signed Chain-of-Custody form that must be obtained prior to sample collection from the analytical laboratory to be used.
10. All surface monitoring locations and monitoring wells must be identified with a unique identification (name/number) for the purposes of sample identification and data interpretation.

B. Visual Monitoring

The Discharger shall conduct daily visual inspections of the areas/features listed below to ensure that the Order's required conditions are being met and that monitoring equipment is properly functioning. A record of the inspections shall be generated and the records maintained per the requirements specified in section IV below.

1. Basin/cell water levels as measured by permanent staff gauges located within each cell. If the drainage flows diminish and the basin cannot be maintained at a minimum depth of 2 feet, then the basin will be pumped dry with portable pumps until increased drainage flows occur and additional storage is needed.
2. Identify that subsurface drainage system sumps, piping, and automated pumps used to minimize lateral and vertical seepage from the basin are operational.
3. Identify that flowmeters on all discharges into the Middle Basin including inflow from the main drain pipeline and the subsurface drainage system are operational.
4. Monitor for evidence of discharge from the facility or seepage outside of the footprint of the basin, wildlife nesting or salt encrustation, or the presence of nuisance conditions.

C. Influent Water Monitoring

A monitoring station shall be established at each inlet point (main drain pipeline, subsurface drainage system, and perimeter drain inflow). Samples or required measurements shall be collected from each monitoring station per the frequency identified in Table 1 below.

Table 1 – Influent Water Measurement/Analysis

Parameter	Unit	Detection Limit or Volume	Type of Sample or Method of Collection	Frequency of Sampling or Recording
In Flow	Acre feet	Acre feet or cubic feet	Flow meter	Weekly
Electrical Conductivity	Micromhos per Centimeter (umhos/cm)		Grab	Monthly
pH	Standard pH units		Grab	Monthly
Temperature	Degrees Centigrade (° C)		Grab	Monthly
Total Recoverable Selenium	Micrograms per liter (ug/L)	1.0	Grab	Quarterly ¹
Arsenic	ug/L	5.0	Grab	Quarterly ¹
Boron	Milligrams per liter (mg/L)	1.0	Grab	Quarterly ¹
Molybdenum	ug/L	1.0	Grab	Quarterly ¹
Nitrate	mg/L	1.0	Grab	Quarterly ¹
Uranium	ug/L	1.0	Grab	Quarterly ¹
Cadmium	ug/L	1.0	Grab	Quarterly ¹

Parameter	Unit	Detection Limit or Volume	Type of Sample or Method of Collection	Frequency of Sampling or Recording
General Minerals ²	mg/L		Grab	Quarterly ¹
6800(a) pesticides ³	ug/L	0.5	Grab	Quarterly ¹

1. Quarterly monitoring for the constituents listed shall be conducted for two years (eight quarterly monitoring events), at which time the frequency can be reduced to annually for those constituents, provided the Discharger submits a request to the Executive Officer in writing, and receives approval from the Executive Officer in writing before changing the frequency.
2. General Minerals to include: Major cations and anions sufficient for an ion balance and at least: bicarbonate, calcium, carbonate, chloride, magnesium, potassium, sodium, sulfate, total dissolved solids (TDS), and pH.
3. 6800(a) pesticides are described in Title 3, section 6800(a) of the California Code of Regulations. As of the effective date of this MRP, the 6800(a) list includes atrazine, bentazon, bromacil, diuron, norflurazon, prometon, and simazine.

D. Pond/Cell Water Monitoring

Discrete water samples shall be collected from each of the evaporation basins/cells containing water a minimum of twice per year on April 30 and September 30 or as near these dates as possible (closest weekday allowing for laboratory delivery). Samples shall be collected from locations on or near those depicted on Attachment B, which is attached hereto and made part of this Order by reference. A permanent marker will be placed on the basin/cell bank to indicate the sampling location. Collected samples shall be submitted for chemical analysis for the parameters listed on Table 2 below.

Table 2 –Basin/Cell Water Measurement/Analysis

Parameter	Unit	Detection Limit	Type of Sample	Frequency
Electrical Conductivity	Micromhos per Centimeter (umhos/cm)		Grab	Annually
pH	pH units		Grab	Annually
Temperature	Degrees Centigrade (° C)		In-Situ	Annually
Total Recoverable Selenium	Micrograms per liter (ug/L)	1.0	Grab	Annually
Arsenic	ug/L	5.0	Grab	Annually
Boron	Milligrams per liter (mg/L)	1.0	Grab	Annually
Molybdenum	ug/L	1.0	Grab	Annually
Uranium	ug/L	1.0	Grab	Annually

Parameter	Unit	Detection Limit	Type of Sample	Frequency
Cadmium	ug/L	1.0	Grab	Annually
General Minerals ¹	mg/L		Grab	Annually

1. General Minerals to include: Major cations and anions sufficient for an ion balance and at least: bicarbonate, calcium, carbonate, chloride, magnesium, potassium, sodium, sulfate, total dissolved solids (TDS), and pH.

E. Basin/Cell Sediment Monitoring

Sediment samples shall be collected from the upper two to three inches in each of the evaporation basins/cell on September 30 or as near to this date as possible (closest weekday allowing for laboratory delivery). Sediment shall be collected from locations on or near those depicted on Attachment B. Collected samples shall be submitted for chemical analysis for the parameters listed on Table 3 below.

Table 3 – Basin/Cell Sediment Analysis

Parameter	Unit	Detection Limit	Type of Sample	Frequency
Total Recoverable Selenium	Milligrams per kilogram (mg/kg)	2.0	Grab	Annually
Arsenic	mg/kg	2.0	Grab	Annually
Boron	mg/kg	1.0	Grab	Annually
Molybdenum	mg/kg	1.0	Grab	Annually
Uranium	mg/kg	1.0	Grab	Annually
Cadmium	mg/kg	1.0	Grab	Annually

F. Groundwater Monitoring

The Discharger shall develop and submit a plan for approval by the Central Valley Water Board Executive Officer for a groundwater quality monitoring system. The system shall be capable of monitoring first encountered groundwater beneath the perimeter of the proposed Middle Basin. A work plan for the installation of groundwater monitoring wells outlined as Phase 1 and Phase 2 was submitted in March 2014 and approved by the Central Valley Water Board staff dated April 25, 2014. When the final Middle Basin design is completed, an updated work plan will be submitted summarizing the proposed location and any modifications for the construction of the remaining Phase 2 monitoring wells.

The monitoring system shall also include deeper monitoring wells designed to assess potential vertical migration of waste constituents below the base elevation of the wells that monitor first encountered groundwater. The construction of the remaining monitoring wells will follow the requirements of the approved workplan. Following approval of the updated groundwater monitoring plan, the remaining monitoring system shall be installed.

Background groundwater quality must be established through the collection of a minimum of eight sampling events conducted prior to discharge of waste into the Middle Basin (a minimum of eight samples are required to develop statistical values for inorganic constituents of concern).

Pre-waste discharge monitoring for the establishment of background groundwater concentrations, as well as subsequent groundwater monitoring to be conducted upon approval to discharge, shall be conducted for the parameters specified in Table 4 below. The frequency of sampling presented on Table 4 only applies following the initiation of the discharge of waste into the Middle Basin (does not apply to the sampling needed to establish background groundwater quality).

Table 4 – Groundwater Analysis

Parameter	Unit	Detection Limit	Type of Sample	Frequency
Water level Elevation	Feet	0.01	Measured	Quarterly ¹
Electrical Conductivity*	Micromhos per Centimeter (umhos/cm)		Grab	Quarterly ¹
pH*	pH units		Grab	Quarterly ¹
Temperature*	Degrees Centigrade (° C)			Quarterly ¹
Total Recoverable Selenium	Micrograms per liter (ug/L)	2.0	Grab	Quarterly ¹
Arsenic	ug/L	2.0	Grab	Quarterly ¹
Boron	Milligrams per liter (mg/L)	1.0	Grab	Quarterly ¹
Molybdenum	ug/L	1.0	Grab	Quarterly ¹
Uranium	ug/L	1.0	Grab	Quarterly ¹
General Minerals ²	mg/L		Grab	Annually

1. Monitoring shall be conducted quarterly for two years (eight quarterly monitoring events), at which time the frequency can be reduced to annually, provided the Discharger submits a request to the Executive Officer in writing, and receives approval from the Executive Officer in writing before changing the frequency.
2. General Minerals to include: major cations and anions sufficient for an ion balance and at least: bicarbonate, calcium, carbonate, chloride, fluoride, magnesium, potassium, nitrate, sodium, sulfate, TDS, and pH.

Prior to sampling, groundwater elevations shall be measured to the nearest 0.01 foot and the wells shall be purged of at least three well volumes or until temperature, pH, and electrical conductivity have stabilized. Samples shall be collected and analyzed using approved EPA methods or other methods approved by the Central Valley Water Board.

Water table elevations shall be calculated and used to determine groundwater gradient and direction of flow. Groundwater elevation shall be based on depth-to-water measurements using a surveyed measuring point elevation on the well and a surveyed reference elevation.

G. Discharges from the Middle Basin

The Discharger shall monitor any discharges of wastewater from the basin area for the constituents and at the frequencies specified in Table 5 below.

Table 5 - DISCHARGE MONITORING FOR WASTEWATER

Discharges (Off-Property Discharges)

Daily during each discharge:

Record date, time, approximate volume (gallons), duration, location, source, and ultimate destination of the discharge.

Field measurements of the discharge for electrical conductivity, temperature, and pH.

Laboratory analyses of the discharge for arsenic, boron, total recoverable selenium, total dissolved solids, BOD, and general minerals.

Daily during each discharge to surface water:

For surface water upstream and downstream of the discharge:

Field measurements for electrical conductivity, temperature, dissolved oxygen, and pH.

Laboratory analyses for arsenic, boron, total ammonia-nitrogen, un-ionized ammonia-nitrogen, total Kjeldahl nitrogen, total phosphorus, potassium, total dissolved solids, total suspended solids, total recoverable selenium, and general minerals.

H. WILDLIFE MONITORING

Wildlife monitoring shall be conducted as follows at the Middle Basin and the wetland habitat area in Section 3, T21S, R21E, MDB&M. All wildlife monitoring shall be conducted by or under the direct supervision of a qualified wildlife biologist with appropriate theoretical background and/or technical experience with the taxa, communities, ecological processes, and physiological processes common to the tasks performed; and possessing a permit to collect the eggs from the U. S. Fish and Wildlife Service and the DFW.

Bird counts shall be conducted monthly during the period of December to June at the Middle Basin and the wetland habitat. Breeding bird nest surveys such as, but not limited to, American Avocet (*Recurvirostra americana*) and Black-necked Stilt (*Himantopus mexicanus*) shall be conducted semi-monthly from April through June, and include counts

of nests and nest fate by species. Nests shall be flagged and five (5) eggs from both the American Avocet and Black-necked Stilt (if available, for a total of 10 eggs) shall be selected at random from five (5) separate nests from the Middle Basin shall be sampled for selenium, trace elements and constituents of concern identified by DFW.

The Discharger shall inspect each cell of the basins and wetland habitat weekly for dead birds. Inspections shall be increased to daily at any cell while water depth is less than 2 feet and at entire basins while a botulism or fowl cholera outbreak is occurring in the area, as confirmed by the DFW, and reduced when said outbreak is confirmed to be over by the DFW. The Discharger shall consult with the DFW on the best management approach for disposal.

Salt encrustation (Wildlife Protocols) – See protocols in Attachment A of Waste Discharge Requirements Order R5-2015-XXXX.

Prior to burrowing owl breeding season (1 February to 31 August), the Discharger shall survey a minimum of 500 feet from the perimeter of the MEB to determine the potential for burrowing owls. Surveys will be consistent with the Burrowing Owl Consortium's 1993, *Survey Protocol & Mitigation Guidelines* or newer guidance adopted by DFW. The results of the survey shall be included in the annual Wildlife report.

Prior to annual maintenance activities, the Discharger shall conduct surveys for San Joaquin Kit Fox using the "U.S. Fish and Wildlife Service Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance (2011)." The surveys must be conducted between 1 May and 1 November. Results of these surveys shall be included in the bi-annual Wildlife report.

IV. RECORD-KEEPING REQUIREMENTS

Dischargers shall maintain the following records on-site for a minimum period of five years from the date they are created for all of the information listed below:

1. Records documenting the inspections required under the Monitoring Requirements above;
2. Analytical records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data for a period of at least five (5) years from the date of the sample, measurement, report or application. This period may be extended by request of the Central Valley Water Board Executive Officer at any time. (40 CFR 122.41(j)(2).)
3. Records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements above. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction;

4. Records of wildlife mortality management and practices, including manifests or bills of lading or other documents demonstrating who transported the mortalities and where they were taken for disposal; and
5. Steps and dates when action is taken to correct unauthorized releases as reported in accordance with Priority Reporting of Significant Events below.

V. REPORTING REQUIREMENTS

1. Priority Reporting of Significant Events (Prompt Action Required)

The Discharger shall report any noncompliance that endangers human health or the environment or any noncompliance with Prohibitions A.1 through A.4 and A.7 in the Order, within 24 hours of becoming aware of its occurrence. The incident shall be reported to the Central Valley Water Board's Fresno office ((559) 445-5116), local environmental health department, and to the California Emergency Management Agency (CalEMA). During non-business hours, the Discharger shall leave a message on the Central Valley Water Board, Fresno Office's voice mail. The message shall include the time, date, place, and nature of the noncompliance, the name and number of the reporting person, and shall be recorded in writing by the Discharger. CalEMA is operational 24 hours a day ((916) 845-8911). A written report shall be submitted to the Central Valley Water Board office **within two weeks** of the Discharger becoming aware of the incident. The report shall contain a description of the noncompliance, its causes, duration, and the actual or anticipated time for achieving compliance. The report shall include complete details of the steps that the Discharger has taken or intends to take, in order to prevent recurrence. All intentional or accidental spills shall be reported as required by this provision. The written submission shall contain:

- a. The approximate date, time, and location of the noncompliance including a description of the ultimate destination of any unauthorized discharge and the flow path of such discharge to a receiving water body;
- b. A description of the noncompliance and its cause;
- c. The flow rate, volume, and duration of any discharge involved in the noncompliance;
- d. The amount of precipitation (in inches) the day of any discharge and for each of the seven days preceding the discharge;
- e. A description (location; date and time collected; field measurements of pH, temperature, dissolved oxygen and electrical conductivity; sample identification; date submitted to laboratory; analyses requested) of noncompliance discharge samples and/or surface water samples taken to comply with the Monitoring Requirements above;
- f. The period of noncompliance, including dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue;

- g. A time schedule and a plan to implement corrective actions necessary to prevent the recurrence of such noncompliance; and
- h. The laboratory analyses of the noncompliance discharge sample and/or upstream and downstream surface water samples shall be submitted to the Central Valley Water Board office within 45 days of the discharge.

2. Monitoring Reporting

The Central Valley Water Board has gone to a paperless office system. All regulatory documents, submissions, materials, data, monitoring reports, and correspondences shall be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB shall be emailed to centralvalleyfresno@waterboards.ca.gov. Documents that are 50 MB and larger shall be transferred to a computer disk (CD/DVD) and mailed to the appropriate Central Valley Water Board office, in this instance, to 1685 E Street, Fresno, CA 93706. To ensure that your submittals are routed to the appropriate staff, the following information block should be completed and be included in any email used to transmit documents to this office:

Program: Non-15, WDID 5D160106001, facility name, and WDR Order R5-2015-XXXX

In addition to the required electronic submittal, staff may request some documents be submitted on paper, particularly drawings or maps that require a large size to be readable, or in other electronic formats where evaluation of data is required.

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., influent, effluent, pond, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported in the next scheduled monitoring report.

As required by the Business and Professions Code sections 6735, 7835, and 7835.1, all Groundwater Monitoring Reports shall be prepared under the direct supervision of a Registered Engineer or Geologist and signed by the registered professional.

- a. **Waste Characterization** (influent monitoring, cell monitoring, and sediment monitoring) - All weekly, monthly, and annual monitoring data and information from the waste characterization program shall be submitted to the Central Valley Water Board per the following schedule:

Reporting Period

January - March

Due Date

1 May

April – June	1 August
July – September	1 November
October – December	1 February (includes annual monitoring)

In reporting data, the Discharger shall provide the following:

- 1) Electronic copies of photos from all surface water monitoring sites, labeled with station code and date;
 - 2) Electronic copies of all applicable laboratory analytical reports;
 - 3) For chemistry data, analytical reports must include the following:
 - a) A lab narrative describing QC failures;
 - b) Analytical problems and anomalous occurrences;
 - c) Chain-of-custody and sample receipt documentation;
 - d) All sample results for contract and subcontract laboratories with units, reporting limits, and minimum detection levels;
 - e) Sample collection, preparation, extraction, and analysis dates;
 - f) Results for all quality control samples including all field and laboratory blanks, lab control spikes, matrix spikes, field and laboratory duplicates, and surrogate recoveries.
 - 4) The names, titles, general responsibilities of persons operating, maintaining, and monitoring the basin;
 - 5) The names and telephone numbers of persons to contact for emergency and routine situations; and
 - 6) If any data are missing from the report, the submittal must include a description of what data are missing and when they will be submitted to the Central Valley Water Board. If data are loaded into the CEDEN comparable database, this shall also be noted with the submittal.
- b. **Quarterly Groundwater Monitoring** - Quarterly monitoring reports shall be submitted to the Central Valley Water Board by the 1st day of the second month after the quarter (i.e. the January-March quarterly report is due by May 1st). The Quarterly Monitoring Reports shall include the following:
- 1) Results of groundwater monitoring;
 - 2) A narrative description of all preparatory, monitoring, sampling, and analytical testing activities for the groundwater monitoring events. The narrative shall verify compliance with the WDR, this MRP, and the Standard Provisions and Reporting Requirements. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; method of purging; calculation of casing volume; and total volume of water purged;
 - 3) For each monitoring event:

- a) Calculation of groundwater elevations, determination of groundwater flow direction and gradient on the date of measurement, comparison of previous flow direction and gradient data, and discussion of seasonal trends if any; and
 - b) A narrative discussion of the analytical results for all groundwater locations monitored including spatial and temporal trends, with reference to summary data tables, graphs, and appended analytical reports (as applicable).
- 4) Summary data tables and graphs of historical and current water table elevations and analytical results;
 - 5) A scaled map showing relevant structures and features of the facility, the locations of monitoring wells and any other sampling stations, and groundwater elevation contours referenced to mean sea level datum; and
 - 6) Copies of laboratory analytical report(s) for groundwater monitoring.
- c. **Annual Reporting** (cell and groundwater mineral analyses and sediment analysis)
By **20 February of each year** for the previous annual monitoring period from 1 January through 31 December, the Discharger shall submit an annual monitoring report, with a copy provided to the DFW at 1234 E. Shaw Avenue, Fresno. The annual monitoring report will include all laboratory analyses (including Chain-of-Custody forms and laboratory QA/QC results) and tabular and graphical summaries of the monitoring data. Data shall be tabulated to clearly show the sample dates, constituents analyzed, constituent concentrations, and detection limits.

In addition to the data normally presented, the Annual Report shall include the following:

- a. Tabulated results of groundwater monitoring;
- b. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities for the groundwater monitoring. The narrative shall be sufficiently detailed to verify compliance with the WDR and this MRP. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; method of purging; calculation of casing volume; and total volume of water purged;
- c. Summary data tables of historical and current water table elevations with discussion of changes in groundwater elevations and seasonal trends, if any;
- d. A narrative discussion of the analytical results for all groundwater locations monitored, including spatial and temporal trends, with reference to summary data tables, graphs, and appended analytical reports (as applicable);
- e. Summary data tables of historical and current analytical results including copies of laboratory analytical report(s);
- f. A comparison of the monitoring data to the groundwater limitations and an explanation of any violation of those requirements;

- g. A discussion of compliance and the corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements; and
 - h. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
- d. **Wildlife Monitoring/Reporting** – Wildlife monitoring and reporting shall be submitted to the Board as follows:

<u>Reporting Period</u>	<u>Due Date</u>
Bird Counts (Dec. to June)	20 February
Nest Surveys (April to June)	20 February
Burrowing Owl Surveys (Feb. to Sept)	20 February
Kit Fox Surveys (May to Nov.)	20 February

All wildlife monitoring and reporting shall be conducted by or under the direct supervision of a qualified wildlife biologist with appropriate theoretical background and/or technical experience with the taxa, communities, ecological processes, and physiological processes common to the tasks performed.

The Discharger shall implement the above monitoring program on the first day of the month following the adoption of this

Ordered by:

Pamela C. Creedon, Executive Officer

Date