

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION**

**BOARD ORDER NO. R6V-2020-0062  
WDID NO. 6B140300005**

**POST-CLOSURE WASTE DISCHARGE REQUIREMENTS  
FOR**

**INYO COUNTY RECYCLING AND WASTE MANAGEMENT  
KEELER SANITARY LANDFILL**

Inyo County

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

1. Facility

The Keeler Sanitary Landfill is a closed Class III solid waste landfill ("Facility"). The Facility consists of approximately 24 acres of land leased by Inyo County Recycling and Waste Management from the City of Los Angeles, Department of Water and Power. The Keeler Sanitary Landfill began operating in the 1940s and stopped receiving waste in December 1987; final closure activities were completed in August 2005, in accordance with a Final Closure and Post Closure Maintenance Plan (FCPCMP; dated March 2004) and documented in a letter dated September 29, 2005. For purposes of this Order, the Waste Management Unit (WMU) is referred to as the "Landfill," and consists of two, non-contiguous waste disposal cells (Site 1 and Site 2) that are unlined with no leachate collection and recovery system (LCRS); Site 1 is 0.7 acres, and Site 2 is 1.1 acres. Historically, most of the waste was burned. Inyo County Recycling and Waste Management currently operates a waste transfer station ovetop Site 1. A map of the Facility is included as Attachment A, which is made part of this Order.

2. Discharger

For the purposes of this Order, Inyo County Recycling and Waste Management (operator) and the City of Los Angeles, Department of Water and Power (landowner) are referred to as the "Discharger."

3. Facility Location

The Facility is located approximately 0.5 miles northwest of the community of Keeler in Inyo County on property owned by the City of Los Angeles, Department of Water and Power. The Facility is within Section 31 of Township 16 South, Range 38 East, Mount Diablo Baseline and Meridian, as shown on Attachment A.

4. Reasons for Action

Inyo County Recycling and Waste Management submitted a complete amended Report of Waste Discharge (ROWD) for the Keeler Sanitary Landfill (Landfill) in February 2020. The

ROWD included an updated FCPCMP and a work plan to place a mechanically erosion-resistant layer overtop the final cover of the Landfill. The ROWD describes the manner that the Landfill was closed in 2005, as well as the maintenance of the Facility during the post-closure period. The Water Board is rescinding Board Order No. 6-73-5 and issuing these Post-Closure Waste Discharge Requirements (WDRs) and updating the Monitoring and Reporting Program (MRP) to: (1) document closure of the Landfill; (2) establish the post-closure maintenance and monitoring period and requirements for the Facility; and (3) provide general updates to the WDRs and MRP based on current site conditions, in compliance with the California Code of Regulations (CCR), title 27.

5. Order History

- a. WDRs were established for the Facility under Board Order No. 6-73-5, which was adopted on February 1, 1973.
- b. Board Order No. 6-93-100 revised WDRs for the Facility, which was adopted on September 9, 1993, and required compliance with the Code of Federal Regulations, title 40, parts 257 and 258 (Subtitle D), as implemented in the State of California under State Water Resources Control Board Resolution No 93-62.
- c. Board Order No. 6-95-06 was adopted on January 12, 1995, which rescinded Board Order No. 6-93-100 because the Facility did not receive waste after October 9, 1991 and was therefore exempt from Subtitle D requirements.
- d. Board Order No. 6-73-5A1 was adopted on June 8, 1995, to implement a proposed time schedule to develop a Water Quality Protection Standard and Final Closure Plan for the Facility.
- e. Board Order No. 6-73-5A2 was adopted on September 5, 1996, to amend the proposed time schedule set by Board Order No. 6-73-5A1 as the Discharger was not financially capable of meeting the time constraints.

6. Waste Management Unit Classification and Authorized Disposal Sites

Pursuant to CCR, title 27, section 20260, the Landfill is classified as a Class III WMU and has two authorized waste disposal sites (Site 1 and Site 2) within the Facility boundary.

7. Waste Classification

The waste that was discharged to the Landfill is defined in CCR, title 27, sections 20220 and 20230, as non-hazardous and inert solid waste, respectively.

8. Subtitle D Compliance Status

The Landfill is exempt from Subtitle D requirements because the Facility stopped receiving waste before October 9, 1991.

9. Final Closure and Post-Closure Maintenance Plan

Pursuant to CCR, title 27, section 20080, subdivision (d), the Landfill is defined as an Existing Unit, and shall be closed and maintained after closure in accordance with the requirements in CCR, title 27, section 20950 et seq. The Landfill was closed in 2005 in accordance with the FCPCMP dated March 2004. An engineered alternative final cover was constructed over the Landfill, specifically an evapotranspirative (ET) soil cover. The ET cover is a 1-foot thick monolithic cover. The main concept of this type of landfill cover is to prevent erosion that might expose buried waste. The Discharger has been maintaining the Landfill in a closed state and monitoring the groundwater in accordance with the 2004 FCPCMP since closure was completed in 2005.

Since closure in 2005, the ET cover on Site 1 is maintaining native vegetation at a density similar to undisturbed adjacent lands. The waste transfer station is also located overtop a portion of Site 1 and additional soils were placed overtop the cover in this area to facilitate compaction of the underlying materials as a result of the post-closure land use. Site 1 has an effective erosion-resistant vegetative layer and appears to be stable with no sign of wind or water erosion. The northern half of the ET cover on Site 2 is maintaining native vegetation at a density similar to (but slightly less than) Site 1; though, the ET cover on the southern half of Site 2 is devoid of vegetation, exhibits evidence of significant wind erosion, and is in need of repair. In February 2020, the Discharger submitted a revised FCPCMP pursuant to CCR, title 27, section 21090, subsection (a)(3)(A)(2), that included a work plan to install a mechanically erosion-resistant layer overtop that portion of the ET cover of Site 2 that exhibits evidence of wind erosion. A revised work plan was later received in March 2020. The proposed mechanically erosion-resistant layer will consist of no less than 1-foot of granite cobble ranging in diameter from 3- to 6-inches and placed directly over top the 1-foot thick ET cover with no additional compaction. The weight of the cobble will act to compact the underlying cover, and the open interstices between the cobbles will trap windblown sediment which may promote natural revegetation and help support dust mitigation efforts in the Owens Lake area. The mechanically erosion-resistant layer is hereby incorporated as part of the engineered alternative final cover for the Landfill and is not required to be installed on any area of the monolithic cover that has an effective erosion-resistant vegetative layer.

Regulations contained in CCR, title 27, section 20080, subsection (b), allows for an engineered alternative provided that the Discharger demonstrates that construction to the prescriptive standard is not feasible and that an engineered alternative is consistent with the performance goal of the prescriptive standard and affords equivalent protection against water quality impairment. For landfills, the performance goal for closure is to minimize the infiltration of water into the waste, thereby minimizing the production of leachate and landfill gas pursuant to CCR, title 27, section 20950, subsection (a)(2)(A)1. Based on the results of the alternative final cover performance evaluation, as provided in the revised FCPCMP, the engineered alternative final cover system consisting of an ET cover with a mechanically erosion-resistant layer is protective of water quality and meets the requirements of CCR, title 27, section 20080, subsection (b). This Order approves the FCPCMP, dated February 2020, and the engineered alternative final cover system.

The Discharger will perform maintenance on an as-needed basis to maintain, as designed and approved by this Order, the engineered alternative final cover system of the Landfill throughout the post-closure period of the Facility.

10. Compliance Period

The compliance period is the number of years equal to the active life of the Landfill plus any closure and post-closure monitoring and maintenance period until the Water Board finds that the Facility no longer poses a threat to water quality. The compliance period is the minimum period during which the Discharger must conduct a water quality monitoring program subsequent to a release. The compliance period must begin anew each time the Discharger initiates an Evaluation Monitoring Program (EMP).

The Facility stopped receiving waste in 1987 and was officially closed in 2005. If the Discharger is engaged in a Corrective Action Program (CAP) at the scheduled end of the compliance period, the compliance period shall be extended until the Discharger can demonstrate that the WMU has been in continuous compliance with its WQPS for a period of three consecutive years as specified in CCR, title 27, section 20410(c). If at the end of the compliance period the Discharger can demonstrate compliance with its WQPS, the Discharger may submit to the Water Board a request to rescind Board Order No. R6V-2020-0062.

11. Land Uses

There are no structures or residences within 1,000 feet of the Facility boundary. Land to the south of the Facility is designated Residential Low Density (Keeler Community). Owens Lake is to the west of the Facility and is designated as a Natural Resource. Lands to the north and east are undeveloped and are designated as State and Federal Lands.

12. Site Topography

The Facility is located within the Owens Valley, a deep north-south trending basin lying between the Sierra Nevada on the west and the White-Inyo Mountains on the east. Owens Lake occupies the central part of the valley. The Facility is situated on the east side of the valley on an alluvial fan surface that originates from the White-Inyo Mountains and gently slopes towards the west and southwest towards Owens Lake.

The existing topography of the Facility is shown on Attachment B. Surface elevation of the Landfill ranges from approximately 3,610 feet above mean sea level (msl) in the northeastern portion of the site to approximately 3,596 feet above msl in the southwestern portion of the site.

13. Climatology

The Owens Valley, in which the Facility is located, has a semi-arid climate characterized by low rainfall, cold winters, and warm dry summers. The mean annual temperature is

78 degrees (°) Fahrenheit (F) and ranges from a high of 100° F in the summer to a low of 31° F in the winter. Precipitation in the vicinity of the Facility averages 6 inches annually. The maximum expected precipitation for the 24-hour, 100-year frequency design storm event is approximately 0.189 inches per hour. The annual mean evaporation rate is approximately 63.9 inches per year.

14. Site Geology

The Facility is located within the Owens Valley at the western edge of the Basin and Range Tectonic Province. The Basin and Range province is characterized by extensional tectonics, which has resulted in the formation of numerous horsts (structural ranges) and grabens (structural depressions). The area is tectonically active, but there are no known active (Holocene-age) faults beneath the Facility. The closest fault is a splay of the Owens Valley Fault located approximately 2.7 miles southwest of the Facility.

The geologic units beneath the Facility consist of the following, from oldest to youngest.

- a. Quaternary volcanic flows and pyroclastic rocks, undifferentiated – Includes rocks of the Coso volcanic field.
- b. Bishop Tuff – Bedrock member of the Bishop Tuff, commonly referred to as the Volcanic Tableland where exposed; composed of welded or agglutinated ash and tuff.
- c. Fluvial and lacustrine deposits – Moderately- to well-sorted, unconsolidated lenses and layers of sand, silty sand, and gravelly sand; and layers, lenses, or massive beds of silty clay.
- d. Overlying the lake deposits are Quaternary alluvial fan deposits composed of poorly sorted unconsolidated gravel, sand, and silt derived from erosion of the surrounding mountains.

15. Site Hydrogeology and Groundwater Quality

The Facility overlies the Owens Valley Groundwater Basin. Groundwater beneath the Facility occurs in the alluvium at an average elevation of approximately 3,589 feet above mean sea level. Groundwater flows in a southwesterly direction towards Owens Lake with an average hydraulic gradient of 0.013 feet per foot. The estimated groundwater velocity ranges from 0.05 feet per day to 0.5 feet per day. The depth to groundwater beneath the site is as shallow as 8 feet below ground surface.

The Discharger has been monitoring groundwater quality beneath the Facility since 1998. The inorganic and dissolved metal water chemistry in groundwater beneath the Facility is consistent with the available water quality data for wells in the vicinity. In general, groundwater quality in the area is poor due to naturally occurring conditions and from regional sources, particularly those wells closest to Owens Lake (i.e. groundwater

monitoring wells MW-4 and MW-5). Elevated concentrations of total dissolved solids (TDS), and chloride have been detected in several groundwater monitoring wells. Over the last ten years, TDS concentrations in the groundwater have ranged from 900 milligrams per liter (mg/L) to 1,900 mg/L. Similarly, chloride concentrations in the groundwater have ranged from 100 mg/L to 330 mg/L. The secondary maximum contaminant level (MCL) for these constituents is 500 mg/L for TDS and 250 mg/L for chloride. No measurably significant evidence of a release has been detected at the Facility.

16. Site Hydrology

The Facility is within the Lower Owens Hydrologic Area of the Owens Hydrologic Unit. The Owens Valley is a closed topographic basin. All water that enters the basin infiltrates into the groundwater, evaporates, or flows overland eventually toward Owens Lake. The Facility is located on the northeastern edge of the Owens Lake on terrain that gently slopes to the southwest towards Owens Lake. The Facility is not located within a 100-year floodplain.

17. Storm Water

The Facility's industrial operations currently do not require coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Dischargers Associated with Industrial Activities, NPDES No. CAS000001, Statewide Industrial General Permit, Order No. 2014-0057-DWQ, and as amended. However, storm water protection at the Facility is primarily accomplished through drainage control based on the following objectives: protection from run-on; minimize infiltration of precipitation into the waste; minimize exposure of pollutants to precipitation; and minimize offsite migration of storm water. To achieve these objectives, the Discharger implements structural and non-structural Best Management Practices (BMPs) to mitigate potential pollution of storm water discharges and performs site compliance inspections to evaluate the effectiveness of the BMPs. The Discharger will continue to implement BMPs and perform inspections throughout the post-closure period of the Facility.

18. Basin Plan

The Water Board adopted a *Water Quality Control Plan for the Lahontan Region* (Basin Plan) which became effective on March 31, 1995. This Order implements the Basin Plan, as amended.

19. Receiving Waters

The receiving waters are the groundwaters of the Owens Valley Basin (Department of Water Resources, Groundwater Basin No. 6-12; Basin Plan, Plate 2B) and surface waters of Owens Lake in the Lower Owens Hydrologic Area of the Owens Hydrologic Unit (Hydrologic Unit No. 603.30; Basin Plan, Plate 1B).

20. Beneficial Uses

The present and probable beneficial uses of the groundwaters of the Owens Valley Basin No. 6-12, as set forth and defined in the Basin Plan are:

- a. Municipal and Domestic Supply (MUN);
- b. Agricultural Supply (AGR);
- c. Industrial Service Supply (IND);
- d. Freshwater Replenishment (FRSH); and
- e. Wildlife Habitat (WILD).

The present and probable beneficial uses of surface water of Owens Lake, Lower Owens Hydrologic Area No. 603.30, as set forth and defined in the Basin Plan are:

- a. Water Contact Recreation (REC-1);
- b. Non-contact Water Recreation (REC-2);
- c. Warm Freshwater Habitat (WARM);
- d. Cold Freshwater Habitat (COLD);
- e. Inland Saline Water Habitat (SAL); and
- f. Wildlife Habitat (WILD).

21. Water Quality Protection Standard

The WQPS consists of constituents of concern (COCs), concentrations limits, monitoring points, and the point of compliance. The COCs, monitoring points, and point of compliance for groundwater monitoring are described in MRP No. R6V-2020-0062, which is made part of this Order. The WQPS applies over the active life of the Landfill, closure and post-closure maintenance period, and the compliance period of the Facility in accordance with CCR, title 27, section 20410(a).

22. Statistical and Non-Statistical Methods

Statistical and non-statistical analyses of monitoring data are necessary for the earliest possible detection of measurably significant evidence of a release of waste from the Landfill. CCR, title 27, section 20415, subdivision (e)(7), requires statistical data analyses to determine when there is "measurably significant" evidence of a release from the WMU. CCR, title 27, section 20415, subdivision (e)(8) allows non-statistical data analysis methods that can achieve the goal of the monitoring program at least as well as the most appropriate statistical method. The monitoring parameters listed in MRP No. R6V-2020-0062 are believed to be the best indicators of a release from the Facility.

23. Detection Monitoring Program

Pursuant to CCR, title 27, sections 20385 and 20420, the Discharger is implementing a Detection Monitoring Program (DMP) for the Facility. The current DMP has been

to monitor the groundwater for evidence of a release. To date, there has been no measurably significant evidence and/or significant physical evidence of a release at the Facility.

The Discharger is exempt from monitoring the unsaturated zone pursuant to CCR, title 27, section 20415, subsection (d)(5). Because groundwater is as shallow as 8 feet below ground surface beneath the Facility, unsaturated zone monitoring would provide little, if any, indication of a release prior to the release being detected in the groundwater.

24. Evaluation Monitoring Program

An EMP may be required, pursuant to CCR, title 27, section 20385 and section 20420, subdivision (k)(5-6), whenever there is “measurably significant” evidence of a release from the Landfill during a DMP or whenever there is significant physical evidence of a release from the Landfill.. The Discharger must delineate the nature and extent of the release and develop a suite of proposed corrective action measures within 90 days of initiating an EMP, unless the Discharger proposes and substantiates a longer time period for implementing the EMP. If the EMP confirms measurably significant evidence and/or significant physical evidence of a release, then the Discharger must submit an Engineering Feasibility Study report proposing corrective action measures pursuant to CCR, title 27, section 20425, and MRP No. R6V-2020-0062.

25. Corrective Action Program

A CAP to remediate detected releases from the Landfill may be required pursuant to CCR, title 27, section 20430, should results of an EMP warrant a CAP.

26. Known or Reasonably Foreseeable Release

This Order requires the Discharger to submit a known or reasonably foreseeable release scenario and a separate Financial Assurance Instrument providing adequate funding for corrective action of the known or reasonably foreseeable release as described in Finding No. 27.

27. Financial Assurance

The Discharger is to obtain and maintain documentation that a financial assurance fund has been developed for post-closure maintenance as required under CCR, title 27, section 22212 and for corrective action of all known or reasonably foreseeable releases as required under CCR, title 27, section 22222. This Order requires the Discharger to report the amount of money available in the fund as part of the annual self-monitoring report. This Order also requires the Discharger to demonstrate, in the annual report, that the amount of financial assurance is adequate or to increase the amount of financial assurance annually, as appropriate, for inflation.



28. California Water Code, Section 13241 Considerations

Pursuant to California Water Code, section 13241, the requirements of this Order take into consideration:

- a. Past, present, and probable future beneficial uses of water. This Order identifies existing groundwater quality and past, present, and probable future beneficial uses of water, as described in Finding No. 20. The proposed discharge will not adversely affect present or probable future beneficial uses of water including municipal and domestic supply, agricultural supply, industrial service supply, and freshwater replenishment, because the discharge is authorized only to the Landfill and this Order requires monitoring to detect any impacts to water quality.
- b. Environmental characteristics of the hydrographic unit under consideration including the quality of water available thereto. Finding No. 15 describes the environmental characteristics and quality of water available.
- c. Water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect water quality in the area. Compliance with the requirements of this Order will not negatively affect groundwater quality. The Water Board will use its existing authority and these WDRs to ensure the protection of water quality from these discharges.
- d. Economic considerations. Water Quality Objectives established in the Basin Plan for the Owens Valley Groundwater Basin and Lower Owens Hydrologic Area do not subject the Discharger to economic disadvantage as compared to other similar discharges in the Region. This Order will require the Discharger to submit proposals compliant with the requirements of CCR, title 27, and is reasonable.
- e. The need for developing housing within the region. The Discharger is not responsible for developing housing within the region. This Order provides for continued monitoring a closed solid waste landfill.
- f. The need to develop and use recycled water. The Discharger does not propose the use of recycled water at this Facility.

29. Human Right to Safe, Clean, Affordable, and Accessible Water

California Water Code, section 106.3, establishes a state policy that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes and directs state agencies to consider this policy when adopting regulations pertinent to those uses of water. This Order promotes that policy by requiring storm water and drainage controls, monitoring to assess water quality, and corrective action when needed to address impacts to water quality.

30. California Environmental Quality Act

The County of Inyo, as lead agency, adopted a Negative Declaration (ND) for the Final Closure and Post-Closure Maintenance of the Keeler Landfill in Inyo County on May 1, 2002 and filed a notice of determination on May 17, 2002. The Water Board, as responsible agency, has considered the Negative Declaration and has concluded that no subsequent or supplemental environmental documents are required. No changes have occurred in the project or the circumstances under which the project is undertaken that would cause new significant impacts or increase the severity of impacts already considered. In addition, no new information of substantial importance has been received that shows that the project will have new significant impact or increase the severity of impacts already considered. No disposal of waste has occurred at the facility since 1987. Reopening the Facility is not authorized under this WDR and therefore there is no expansion of use. The Project consists only of continued maintenance and monitoring of the post-closure status of the Landfill. Installation of additional monitoring wells is not required under this WDR. The proposed mechanically erosion-resistant layer will be placed directly overtop the ET cover with no additional compaction. The layer is within the project area analyzed in the negative declaration. Based on the analysis of the negative declaration, the engineered design features of the erosion-resistant layer, and the ET cover, the Water Board finds that issuance of this WDR will not have any new significant impacts or increase the severity of impacts.

31. Antidegradation Analysis

State Water Board Resolution No. 68-16 ("Statement of Policy with Respect to Maintenance of High Quality Waters in California") requires that whenever the existing quality of water is better than the quality established in policies as of the date on which such policies become effective, such existing high quality must be maintained. Any change in the existing high quality is allowed by that policy only if it has been demonstrated to the Regional Water Board that any change will be consistent with maximum benefit to the people of the state, and will not unreasonably affect present and anticipated beneficial use of such water and will not result in water quality less than that prescribed in the policies. The policy further requires that dischargers meet waste discharge requirements which will result in the best practicable treatment or control of the discharge necessary to assure that pollution or nuisance will not occur and that the highest water quality consistent with maximum benefit to the people of the state will be maintained.

There has been no detected release at the Facility and, thus, no change in the existing water quality is expected as a result of these WDRs. Should a release be detected, implementation of an EMP and, if required, CAP will ensure water quality is protected.

32. Technical and Monitoring Reports

The Discharger must submit technical and monitoring reports in compliance with this Order and as described in MRP No. R6V-2020-0062.

California Water Code, section 13267(b) provides that: "In conducting an investigation specified in subdivision (a), the Regional Board may require that any person who has discharged, discharges, or is suspected of having discharge or discharging, or who proposed to discharge within its region, or any citizen or domiciliary, or political agency or entity of this state who had discharged, discharges, or is suspected of having discharged or discharging, or who proposed to discharge waste outside of its region that could affect the quality of the waters of the state within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the board requires. The burden, including costs of these reports, shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports."

The technical reports required by this Order and MRP No. R6V-2020-0062 are necessary to assure compliance with these WDRs. Therefore, the burden, including costs, of these reports bears a reasonable relationship to the need for the report and the benefits to be obtained from the reports.

33. Right to Petition

Any person aggrieved by this action of the Water Board may petition the State Water Board to review the action in accordance with California Water Code, section 13320, and CCR, title 23, sections 2050 et. seq. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the internet at [http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality), or will be provided in hard copy or electronic format upon request.

34. Notification of Interested Parties

The Water Board notified the Discharger and interested agencies and persons of its intent to prescribe Post-Closure WDRs for post-closure maintenance and monitoring of the Facility and has provided them with an opportunity to submit their written views and recommendations.

35. Consideration of Public Comments

The Water Board, in a public meeting held on November 18, 2020, heard and considered all comments pertaining to the discharge.

**IT IS HEREBY ORDERED**, pursuant to California Water Code sections 13263 and 13267, that the Discharger shall comply with the following:

I. RECEIVING WATER LIMITATIONS

The discharge shall not cause the existing water quality to be degraded nor shall the discharge cause a violation of any applicable water quality standard for receiving water adopted by the Water Board or the State Water Board as required by the California Water Code and regulations adopted hereunder.

A. Under no circumstances shall the discharge cause the presence of the following substances or conditions in groundwaters of the Owens Valley Groundwater Basin.

1. Bacteria – Groundwaters designated as MUN, the median concentration of coliform organisms, over any seven-day period, must be less than 1.1 Most Probable Number per 100 milliliters (MPN/100 mL).
2. Chemical Constituents – Groundwaters designated as MUN must not contain concentrations of chemical constituents in excess of the Primary MCL or Secondary MCL based upon drinking water standards specified in the following provisions of CCR, title 22: Table 64431-A of section 64431 (Inorganic Chemicals), Table 64444-A of section 64444 (Organic Chemicals), Table 64449-A of section 64449 (Secondary MCLs – Consumer Acceptance Contaminant Levels), and Table 64449-B of section 64449 (Secondary MCLs – Consumer Acceptance Contaminant Level Ranges). This incorporation-by-reference is prospective including future changes to the incorporated provisions as the changes take effect.

Groundwaters must not contain concentrations of chemical constituents that adversely affect the water for beneficial uses.

3. Radioactivity – Radionuclides must not be present in concentrations that are deleterious to human, plant, animal, or aquatic life, or that result in the accumulation of radionuclides in the food chain to an extent that it presents a hazard to human, plant, animal, or aquatic life. Groundwater designated MUN must not contain concentrations of radionuclides in excess of limits specified in CCR, title 22, section 64442, Table 64442, and section 64443, Table 64443, including future changes as the changes take effect.
4. Taste and Odors – Groundwaters must not contain taste or odor-producing substances in concentrations that cause a nuisance or that adversely affect beneficial uses. For groundwaters designated as MUN, at a minimum, concentrations must not exceed adopted Secondary MCLs as specified in CCR, title 22, section 64449, Table 64449-A (Secondary MCLs – Consumer Acceptance Contaminant Level) and Table 64449-B (Secondary MCLs – Consumer Acceptance Contaminant Levels Ranges) including future changes as the changes take effect.

- B. Under no circumstances shall the discharge cause the presence of the following substances or conditions in surface waters of the Lower Owens Hydrologic Area.
1. Ammonia – The neutral, un-ionized ammonia species (NH<sub>3</sub>) is highly toxic to freshwater fish. The fraction of toxic NH<sub>3</sub> to total ammonia species (NH<sub>4</sub><sup>+</sup> + NH<sub>3</sub>) is a function of temperature and pH. Tables 3-1 to 3-4 from the Basin Plan were derived from United States Environmental Protection Agency (USEPA) ammonia criteria for freshwater. Ammonia concentrations must not exceed the values listed for the corresponding conditions in these tables. For temperature and pH values not explicitly in these tables, the most conservative value neighboring the actual value may be used or criteria can be calculated from numerical formulas available on page 3-4 of the Basin Plan.
  2. Bacteria – Waters must not contain concentrations of coliform organisms attributable to anthropogenic sources, including human and livestock wastes. The fecal coliform concentration during any 30-day period must not exceed a log mean of 20/100 mL, nor shall more than 10 percent of all samples collected during any 30-day period exceed 40/100 mL. The USEPA recommends that the log mean should ideally be based on a minimum of not less than five samples collected as evenly spaced as practicable during any 30-day period. However, a log mean concentration exceeding 20/100 mL for any 30-day period shall indicate violation of this objective even if fewer than five samples were collected.
  3. Biostimulatory Substances – Waters must not contain biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect the water for beneficial uses.
  4. Chlorine, Total Residual – For the protection of aquatic life, total chlorine residual must not exceed either a median value of 0.002 mg/L or a maximum value of 0.003 mg/L. Median values must be based on daily measurements taken within any six-month period.
  5. Color – Waters must be free of coloration that causes nuisance or adversely affects the water for beneficial uses.
  6. Dissolved Oxygen – The dissolved oxygen concentration, as percent saturation, must not be depressed by more than 10 percent, nor must the minimum dissolved oxygen concentration be less than 80 percent of saturation. The minimum dissolved oxygen concentration must not be less than 4.0 mg/L as a daily minimum, 5.0 mg/L as a 7-day mean, and 6.5 mg/L as a 30-day mean.

7. Floating Materials – Waters must not contain floating material, including solids, liquids, foams, and scum, in concentrations that cause nuisance or adversely affect the water for beneficial uses. For natural high-quality waters, the concentrations of floating material must not be altered to the extent that such alterations are discernible at the 10 percent significance level.
8. Oil and Grease – Waters must not contain oils, greases, waxes or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect the water for beneficial uses. For natural high-quality waters, the concentration of oils, greases, or other film or coat generating substances must not be altered.
9. Nondegradation of Aquatic Communities and Populations – All waters must be free from substances attributable to wastewater or other discharges that produce adverse physiological responses in humans, animals, or plants; or which lead to the presence of undesirable or nuisance aquatic life. All waters must be free from activities that would substantially impair the biological community as it naturally occurs due to physical, chemical and hydrologic processes.
10. pH – Changes in normal ambient pH levels must not exceed 0.5 pH units. The pH must not be depressed below 6.5 nor raised above 8.5. Compliance with the pH objective for these waters will be determined on a case-by-case basis.
11. Radioactivity – Radionuclides must not be present in concentrations which are deleterious to human, plant, animal, or aquatic life nor which result in the accumulation of radionuclides in the food web to an extent which presents a hazard to human, plant, animal, or aquatic life.
12. Sediment – The suspended sediment load and suspended sediment discharge rate of surface waters must not be altered in such a manner as to cause nuisance or adversely affect the water for beneficial uses.
13. Settleable Materials – Waters must not contain substances in concentrations that result in deposition of material that causes nuisance or that adversely affects the water for beneficial uses. For natural high-quality waters, the concentration of settleable materials must not be raised by more than 0.1 milliliter per liter.
14. Suspended Materials – Waters must not contain suspended materials in concentrations that cause nuisance or that adversely affect the water for beneficial uses. For natural high-quality waters, the concentration of total

suspended materials must not be altered to the extent that such alterations are discernible at the 10 percent significance level.

15. Taste and Odor – Waters must not contain taste or odor-producing substances in concentrations that impart undesirable tastes or odors to fish or other edible products of aquatic origin, that cause nuisance, or that adversely affect the water for beneficial uses. For naturally high-quality waters, the taste and odor must not be altered.
16. Temperature – The natural receiving water temperature of all waters must not be altered unless it can be demonstrated to the satisfaction of the Water Board that such an alteration in temperature does not adversely affect the water for beneficial uses. For waters designated WARM, water temperature must not be altered by more than 5° F above or below the natural temperature. For waters designated COLD, the temperature must not be altered.
17. Toxicity – All waters must be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth anomalies, bioassays of appropriate duration and/or other appropriate methods as specified by the Water Board [or the Executive Officer or their designee]. The survival of aquatic life in surface waters subjected to a waste discharge, or other controllable water quality factors, must not be less than that for the same water body in areas unaffected by the waste discharge, or when necessary, for other control water that is consistent with the requirements for “experimental water” as defined in Standard Methods for the Examination of Water and Wastewater (American Public Health Association, et al. 1998).
18. Turbidity – Waters must be free of changes in turbidity that cause nuisance or adversely affect the water for beneficial uses. Increases in turbidity must not exceed natural levels by more than 10 percent.

## II. REQUIREMENTS AND PROHIBITIONS

### A. General

1. The discharge must not cause or threaten to cause a condition of pollution or nuisance as defined in California Water Code, section 13050.
2. The discharge of waste, as defined in California Water Code, section 13050, subdivision (d), must not cause an exceedance of any narrative Water Quality Objective (WQO) contained in the Basin Plan.

3. Where any numeric or narrative WQO contained in the Basin Plan is already being exceeded, any discharge which causes further degradation or pollution is prohibited.
4. The discharge of pesticides to surface waters or groundwater is prohibited.
5. Water used for dust control must be limited to a minimal amount. A "minimal amount" is defined as that amount which will not result in run-off.
6. All purge water discharged to the ground at the Landfill and water used for dust control must not contain constituents at concentrations in excess of the WQPS.
7. The discharge of waste that contains liquid in excess of the moisture-holding capacity of the Landfill, or which contains liquid in excess of the moisture-holding capacity as a result of waste management operations, compaction, or settlement, is prohibited.
8. The discharge of solid or liquid waste, leachate, or any other deleterious material to surface waters or groundwater is prohibited.
9. Surface drainage from offsite areas and internal site drainage from surface or subsurface sources, must not contact or percolate through solid wastes discharged at the Landfill.
10. The Discharger must maintain in good working order any control system or monitoring device installed to achieve compliance with these WDRs.
11. The Landfill was closed in accordance with a FCPCMP and must be maintained in the closed condition per the FCPCMP and these Post-Closure WDRs.
12. The Discharger must remove and relocate any waste, which is or has been discharged at the closed Landfill in violation of these requirements.
13. The closed Landfill must be protected from inundation, washout, or erosion of wastes and erosion of covering materials resulting from a 24-hour, 100-year storm or a flood having a 100-year return period.
14. The exterior surfaces of the closed Landfill must promote lateral run-off of precipitation and to prevent ponding.
15. The Discharger must notify the Water Board within one business day of any flooding, slope failure or other change in site conditions that could impair the integrity of the Landfill or of precipitation and drainage control structures. The Discharger shall correct any failure that threatens the integrity of the



Landfill, after approval of the method, in accordance with a schedule established by the Water Board as specified in CCR, title 27, section 21710, subdivision (c)(2).

16. Pursuant to CCR, title 27, section 21090, subdivision (a)(4)(C), the Discharger shall repair, in a timely manner, any breach or other cover problem discovered during the periodic inspection of the Landfill cover. Repairs to the cover material must follow a Construction Quality Assurance (CQA) plan, as required in CCR, title 27, section 20323 and section 20324, and the FCPCMP.

B. Electronic Submittal of Information

Pursuant to CCR, title 23, section 3890, the Discharger must submit all reports, including soil, soil vapor, and water data, prepared for the purpose of subsurface investigation or remediation of a discharge of waste to land subject to Division 2 of title 27 electronically over the internet to the State Water Board's GeoTracker system. This requirement is in addition to, and not superseded by, any other applicable reporting requirement.

III. WATER QUALITY MONITORING AND RESPONSE PROGRAMS

A. Detection Monitoring Program

The Discharger must maintain a DMP as required in CCR, title 27, section 20420. The Discharger must continue to conduct a DMP, as necessary, to provide the best assurance of the detection of a release from the Landfill.

B. Evaluation Monitoring Program

The Discharger must establish an EMP whenever there is measurably significant evidence and/or significant physical evidence of a release from the Landfill pursuant to CCR, title 27, section 20425. Within 90 days of initiating an EMP, the Discharger must delineate the nature and extent of the release, as well as develop, propose, and support corrective action measures to be implemented in a CAP.

C. Corrective Action Program

The Discharger will implement a CAP as required pursuant to CCR, title 27, section 20430, should the results of the EMP warrant a CAP. If warranted, the Discharger shall implement a CAP until it can be demonstrated to the satisfaction of the Water Board that the concentrations of all COCs are reduced to levels below their respective concentration limits throughout the entire zone affected by the release.

D. Water Quality Protection Standard

1. The WQPS consists of COCs, concentration limits, monitoring points, and the point of compliance. The COCs, concentration limits, monitoring points, and point of compliance for groundwater monitoring are described in MRP No. R6V-2020-0062.
2. At any given time, the concentration limit for each COC must be equal to the background data set of that constituent unless a concentration level greater than background has been established.
3. If the Discharger or Water Board Executive Officer determines that concentration limits were or are exceeded, the Discharger may immediately institute verification procedures upon such determination as specified below or, within 90 days of such determination, submit a technical report pursuant to California Water Code, section 13267, subdivision (b), proposing an EMP meeting the provisions of CCR, title 27, section 20420, subdivision (k)(5). In the event of a release, unless the technical report proposing an EMP recommends and substantiates a longer period, the Discharger will only have 90 days, once the Water Board authorizes the initiation of the EMP, to complete the delineation, develop a suite of proposed corrective action measures, and submit a proposed CAP for adoption by the Water Board.
4. Monitoring of the groundwater must be conducted to provide the best assurance of the detection of a release from the Landfill.

E. Data Analysis

Within 45 days after completion of sampling, the Discharger must determine at each Monitoring Point whether there is measurably significant evidence and/or significant physical evidence of a release from the Landfill. The analysis must consider all monitoring parameters and COCs. The Executive Officer may also make an independent finding that there is measurably significant evidence and/or significant physical evidence of a release.

1. To determine whether there is "measurably significant" (as defined in CCR, title 27, section 20164) evidence of a release from the Landfill, the Discharger must use approved statistical data analysis methods to evaluate point of compliance groundwater data, as required by CCR, title 27, section 20415, subdivision (e).
2. To determine whether there is significant physical evidence of a release from the Landfill, the Discharger must also use non-statistical methods. Significant physical evidence may include, but is not limited to, unexplained volumetric changes in the Landfill, unexplained stress in biological communities, unexplained changes in soil characteristics, visible signs of

leachate migration, unexplained water table mounding beneath or adjacent to the Facility, and/or any other change in the environment that could be reasonably be expected to be the result of a new release from the Landfill. Other non-statistical evidence of a release may include trends of increasing concentrations of one or more constituents over time.

3. If there is measurably significant evidence and/or significant physical evidence of a release, the Discharger must immediately notify the Water Board by telephone or email as to the monitoring points and constituent(s) or parameters involved followed by written notification sent via certified mail within seven days (see "Unscheduled Reports to be Filed With the Water Board," MRP No. R6V-2020-0062). The Discharger must initiate the verification procedures, as specified in this order, Section III.F below.

F. Verification Procedures

Whenever there is a determination by the Discharger or Executive Officer that there is measurably significant evidence or significant physical evidence of a release, the Discharger must initiate verification procedures as specified below.

1. The Discharger must either conduct a composite retest using data from the initial sampling event with all data obtained from the resampling event or must conduct a discrete retest in which only data obtained from the resampling event must be analyzed to verify evidence of a release. Alternatively, the Discharger may perform a pass 1-of-3 retesting approach using quarterly samples, as an engineered alternative.
2. The verification procedure need only be performed for the constituent(s) that has shown a measurably significant evidence of a release and must be performed at each Monitoring Point for which a release is indicated.
3. Within seven days of receiving the results of the last laboratory analyses for the retest, the Discharger must report to the Water Board, by certified mail, the results of the verification procedure, as well as all data collected for use in the retest.
4. If the Discharger or Executive Officer verifies that there is or was evidence of a release, the Discharger is required to submit a technical report to the Water Board within 90 days of such a determination, pursuant to California Water Code, section 13267, subdivision (b). The report must propose an evaluation monitoring program (see section III.B above) or make a demonstration to the Water Board that there is a source other than the Landfill that caused evidence of a release (see "Unscheduled Reports to be Filed With the Water Board," MRP No. R6V-2020-0062).

5. If the Discharger declines to conduct verification procedures, the Discharger must submit a technical report, as specified in this Order, Section III.G, below.

G. Technical Report Without Verification Procedures

If the Discharger chooses not to initiate verification procedures after there has been a determination made for evidence of a release, a technical report must be submitted pursuant to California Water Code, section 13267, subdivision (b). The report must propose an EMP or attempt to demonstrate that the release did not originate from the Facility.

H. Monitoring and Reporting

1. Pursuant to California Water Code, section 13267, subdivision (b), the Discharger must comply with the monitoring and reporting requirements as established in the attached MRP No. R6V-2020-0062 and as specified by the Executive Officer. The MRP may be modified by the Water Board Executive Officer.
2. The Discharger must comply with the "General Provisions for Monitoring and Reporting," dated September 1, 1994, which is attached to and made part of MRP No. R6V-2020-0062.

IV. PROVISIONS

A. Rescission of Waste Discharge Requirements

Board Order No. 6-73-5, all amendments to Board Order No. 6-73-5, and MRP No. 73-5 are hereby rescinded.

B. Installation of Mechanically Erosion-Resistant Layer

The Discharger must install a mechanically erosion-resistant layer over a portion of Site 2, consisting of no less than 1-foot of granite cobbles ranging in diameter size from 3- to 6-inches, and placed directly overtop the ET cover with no additional compaction, as described in the work plan dated March 2020. The Discharger must verify that a minimum of 1-foot thick ET cover exists in the area of repair and add additional soils as necessary to maintain a 1-foot thick ET cover prior to placement of the mechanically erosion resistant layer over top. The mechanically erosion-resistant layer is not required to be installed on any area of the monolithic cover that has an effective erosion-resistant vegetative layer. A Construction Quality Assurance (CQA) Report must be submitted to the Water Board by **no later than 60 days following installation** to document the installation of the mechanically erosion-resistant layer and thickness of the ET cover in that area of repair pursuant to CCR, title 27, section 20324, subdivision (d)(1)(C). The CQA Report must be

certified by a California professional civil engineer or a California professional geologist and contain sufficient information and test results to verify that construction was in accordance with the accepted engineered alternative to the prescriptive standards of CCR, title 27.

C. Standard Provisions

The Discharger must comply with the "Standard Provisions for Waste Discharge Requirements," dated September 1, 1994, in Attachment C, which is attached to and made part of this Order.

D. Final Closure and Post-Closure Maintenance Plan Approval

This Order provides Water Board approval of the FCPCMP and the engineered alternative final cover system. The Discharger must submit a report to the Water Board on or before **January 30, 2021**, and by **January 30** every year thereafter, indicating that the FCPCMP is in conformance with existing Facility operations. The FCPCMP and cost estimates for post-closure maintenance and for corrective action of all known or reasonably foreseeable releases must be updated if/when there is a significant change in the activities or costs for maintenance and/or monitoring of the Facility, and to reflect annual changes in inflation rates (see Section IV.F below).

E. Known or Reasonably Foreseeable Release Plan

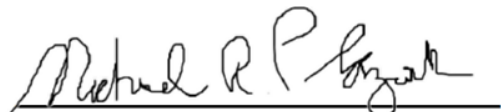
The Discharger must submit to the Water Board on or before **January 30, 2021**, a known or reasonably foreseeable release plan that describes all known or reasonably foreseeable releases that could occur from the Landfill. The plan shall also describe the steps to be taken to initiate and complete corrective action and the costs associated with those activities. The Discharger must submit an annual report to the Water Board indicating that the known or reasonably foreseeable release plan is in conformance with existing Facility conditions; this report may be included in the annual monitoring report as required in MRP No.R6V-2020-0062.

F. Financial Assurances

The Discharger must at all times maintain adequate and viable financial assurances acceptable to the Water Board Executive Office for costs associated with post-closure maintenance and monitoring and for corrective action of all known and reasonably foreseeable releases. The Discharger must submit to the Water Board a financial assurance report on or before **June 30, 2021**, and by **January 30** every year thereafter, providing evidence that adequate financial assurances have been provided for post-closure maintenance and for corrective action of all known and reasonably foreseeable releases. Evidence must include the total amount of money available in the fund developed by the Discharger. In addition, the Discharger must

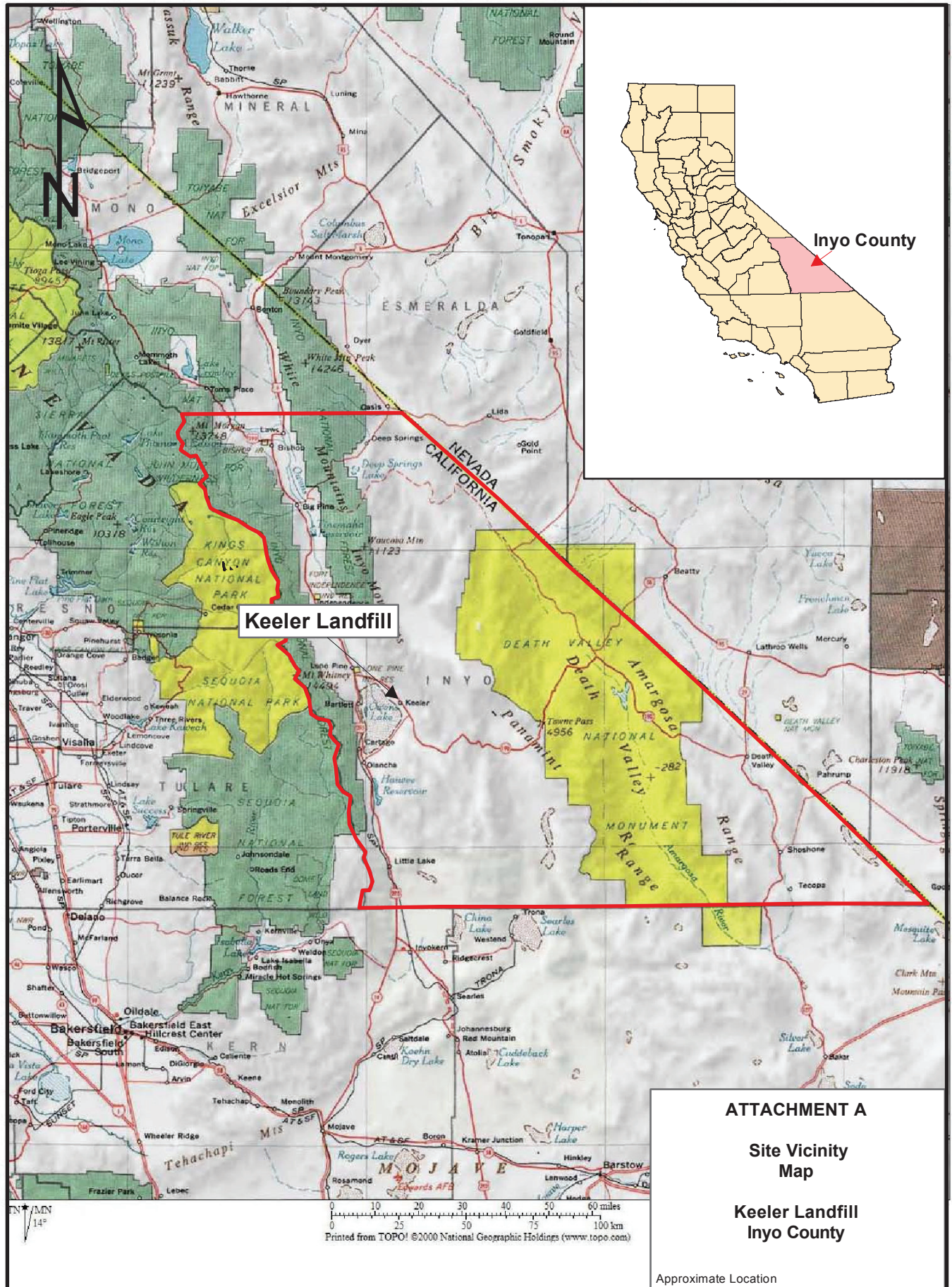
either provide evidence that the amount of financial assurance is still adequate or increase the amount of financial assurance by an appropriate amount. An increase may be necessary due to inflation, change(s) in regulatory requirements, change(s) in the approved FCPCMP, or other unforeseen events.

I, Michael R. Plaziak, Acting 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 Board, Lahontan Region, on November 18, 2020.



MICHAEL R. PLAZIAK  
ACTING EXECUTIVE OFFICER

- Attachments:
- A. Keeler Sanitary Landfill Site Vicinity Map
  - B. Keeler Sanitary Landfill Waste Footprint Map
  - C. Standard Provisions for Waste Discharge Requirements







CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION

**STANDARD PROVISIONS**  
FOR WASTE DISCHARGE REQUIREMENTS

1. Inspection and Entry

The Discharger shall permit Regional Board staff:

- a. to enter upon premises in which an effluent source is located or in which any required records are kept;
- b. to copy any records relating to the discharge or relating to compliance with the Waste Discharge Requirements (WDRs);
- c. to inspect monitoring equipment or records; and
- d. to sample any discharge.

2. Reporting Requirements

- a. Pursuant to California Water Code 13267(b), the Discharger shall immediately notify the Regional Board by telephone whenever an adverse condition occurred as a result of this discharge; written confirmation shall follow within two weeks. An adverse condition includes, but is not limited to, spills of petroleum products or toxic chemicals, or damage to control facilities that could affect compliance.
- b. Pursuant to California Water Code Section 13260 (c), any proposed material change in the character of the waste, manner or method of treatment or disposal, increase of discharge, or location of discharge, shall be reported to the Regional Board at least 120 days in advance of implementation of any such proposal. This shall include, but not be limited to, all significant soil disturbances.
- c. The Owners/Discharger of property subject to WDRs shall be considered to have a continuing responsibility for ensuring compliance with applicable WDRs in the operations or use of the owned property. Pursuant to California Water Code Section 13260(c), any change in the ownership and/or operation of property subject to the WDRs shall be reported to the Regional Board. Notification of applicable WDRs shall be furnished in writing to the new owners and/or operators and a copy of such notification shall be sent to the Regional Board.
- d. If a Discharger becomes aware that any information submitted to the Regional Board is incorrect, the Discharger shall immediately notify the Regional Board, in writing, and correct that information.

- e. Reports required by the WDRs, and other information requested by the Regional Board, must be signed by a duly authorized representative of the Discharger. Under Section 13268 of the California 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.
- f. If the Discharger becomes aware that their WDRs (or permit) are no longer needed (because the project will not be built or the discharge will cease) the Discharger shall notify the Regional Board in writing and request that their WDRs (or permit) be rescinded.

3. Right to Revise WDRs

The Regional Board reserves the privilege of changing all or any portion of the WDRs upon legal notice to and after opportunity to be heard is given to all concerned parties.

4. Duty to Comply

Failure to comply with the WDRs may constitute a violation of the California Water Code and is grounds for enforcement action or for permit termination, revocation and re-issuance, or modification.

5. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge in violation of the WDRs which has a reasonable likelihood of adversely affecting human health or the environment.

6. Proper Operation and Maintenance

The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Discharger to achieve compliance with the WDRs. Proper operation and maintenance includes adequate laboratory control, where appropriate, and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by the Discharger, when necessary to achieve compliance with the conditions of the WDRs.

7. Waste Discharge Requirement Actions

The WDRs may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for waste discharge requirement modification, revocation and re-issuance, termination, or a notification of planned changes or anticipated noncompliance, does not stay any of the WDRs conditions.

8. Property Rights

The WDRs do not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

9. Enforcement

The California Water Code provides for civil liability and criminal penalties for violations or threatened violations of the WDRs including imposition of civil liability or referral to the Attorney General.

10. Availability

A copy of the WDRs shall be kept and maintained by the Discharger and be available at all times to operating personnel.

11. Severability

Provisions of the WDRs are severable. If any provision of the requirements is found invalid, the remainder of the requirements shall not be affected.

12. Public Access

General public access shall be effectively excluded from treatment and disposal facilities.

13. Transfers

Providing there is no material change in the operation of the facility, this Order may be transferred to a new owner or operation. The owner/operator must request the transfer in writing and receive written approval from the Regional Board's Executive Officer.

14. Definitions

- a. "Surface waters" as used in this Order, include, but are not limited to, live streams, either perennial or ephemeral, which flow in natural or artificial water courses and natural lakes and artificial impoundments of waters. "Surface waters" does not include artificial water courses or impoundments used exclusively for wastewater disposal.
- b. "Ground waters" as used in this Order, include, but are not limited to, all subsurface waters being above atmospheric pressure and the capillary fringe of these waters.

15. Storm Protection

All facilities used for collection, transport, treatment, storage, or disposal of waste shall be adequately protected against overflow, washout, inundation, structural damage or a significant reduction in efficiency resulting from a storm or flood having a recurrence interval of once in 100 years.

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION**

**MONITORING AND REPORTING PROGRAM**

**NO. R6V-2020-0062  
WDID NO. 6B140300005**

**INYO COUNTY RECYCLING AND WASTE MANAGEMENT  
KEELER SANITARY LANDFILL**

Inyo County

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For purposes of this Monitoring and Reporting Program (MRP) No. R6V-2020-0062, the Inyo County Recycling and Waste Management (operator) and the City of Los Angeles, Department of Water and Power (landowner) are referred to as the "Discharger." MRP No. R6V-2020-0062 is issued to the Discharger for the Keeler Sanitary Landfill (Facility) pursuant to California Water Code (CWC), section 13267, and incorporates requirements for groundwater monitoring and reporting; facility monitoring, maintenance, and reporting; and financial assurances reporting contained in California Code of Regulations (CCR), title 27, section 20005, et seq. The technical reports required by Order No. R6V-2020-0062 and MRP No. R6V-2020-0062 are necessary to ensure compliance with the Waste Discharge Requirements. Therefore, the burden, including costs, of these reports bears a reasonable relationship to the need for the report and the benefits to be obtained from the reports.

**1. WATER QUALITY PROTECTION STANDARD**

A Water Quality Protection Standard (WQPS) is required by CCR, title 27, section 20390 through 20410, to assure the earliest possible detection of a release from a waste management unit (Landfill) to the underlying soil and/or groundwater. The WQPS consists of all constituents of concern (COCs), the concentration limits for each COC, the point of compliance, and all water quality monitoring points. The Executive Officer shall review and approve the WQPS, or any modification thereto, for each monitored medium.

The Discharger submitted a complete amended Report of Waste Discharge for the Facility in February 2020. The Landfill consists of two, non-contiguous waste disposal cells (Site 1 and Site 2) that stopped receiving waste in December 1987; the Landfill was deemed officially closed in August 2005. The Discharger is currently operating a transfer station at the Facility and implementing a Detection Monitoring Program (DMP) for the closed Landfill. A WQPS is necessary to evaluate the effectiveness of the DMP to determine if a release occurs.

**A. Constituents of Concern**

The COCs include all the waste constituents, their reaction products, and hazardous constituents that are reasonably expected to be in or derived from waste contained in a waste management unit. The COCs for each monitored medium at the Landfill are listed in Attachment A, which is made part of this MRP. The Discharger must monitor all COCs at the sampling frequency and

reporting frequency listed in MRP, Attachment A.

B. Monitoring Parameters

Monitoring parameters are those COCs that provide a reliable indication of a release from the Facility. The monitoring parameters for each monitored medium at the Landfill are listed in this MRP, Attachment A. The Discharger must monitor all monitoring parameters at the sampling frequency and reporting frequency listed in Attachment A.

C. Concentration Limits

Concentration limits are established for each COC and are intended to reflect background ambient conditions of surface and subsurface media that are unaffected by a release from the waste management unit. At any given time, the concentration limit for each COC must be equal to the background data set of that constituent unless a concentration limit greater than background (CLGB) has been established. CCR, title 27, section 20415, allows for various options to determine concentration limits including statistical interwell and intrawell methods and non-statistical methods. CLGBs have not been established for this site.

The Discharger is using the following methodologies to determine concentration limits for the groundwater monitoring program.

- a. Intrawell Comparisons – The Discharger is using historical water quality data from each groundwater monitoring well to develop concentration limits for inorganic COCs for that well.
- b. Non-Statistical Comparisons – For inorganic COCs either not detected in the background dataset or only detected at trace concentrations and for man-made organic COCs, the concentration limit has been set at the method detection limit (MDL) for the analytical method used. For the DMP, the MDL is selected as the concentration limit, as this will allow for early detection of a release from the Landfill.

D. Point of Compliance and Monitoring Points

The point of compliance is a vertical surface located at the hydraulically downgradient limit of the Landfill that extends through the uppermost aquifer underlying the Landfill. The point of compliance is monitored by existing groundwater monitoring wells MW-2, MW-3, MW-4, and MW-5. Additional monitoring points include upgradient (background) groundwater monitoring well MW-1. The monitoring point locations are shown on Attachment B of this MRP.

E. Compliance Period

The compliance period is the number of years equal to the active life of the Landfill plus any closure and post-closure monitoring and maintenance period until the Water Board finds that the Facility no longer poses a threat to water quality. The compliance period is the minimum period during which the Discharger must conduct a water quality monitoring program subsequent to a release. The compliance period must begin anew each time the Discharger initiates an Evaluation Monitoring Program (EMP). If the Discharger is engaged in a Corrective Action Program (CAP) at the scheduled end of the compliance period, the compliance period shall be extended until the Discharger can demonstrate that the WMU has been in continuous compliance with its WQPS for a period of three consecutive years as specified in CCR, title 27, section 20410(c). If at the end of the compliance period the Discharger can demonstrate compliance with its WQPS, the Discharger may submit to the Water Board a request to rescind Board Order No. R6V-2020-0062.

2. MONITORING

The Discharger must comply with the monitoring requirements outlined below. All monitoring and inspecting activities must be documented, and all sampling must be conducted in accordance with an approved Sampling and Analysis Plan (SAP) that includes quality assurance and quality control standards and procedures, as described in the General Provisions for Monitoring and Reporting (Attachment C of this MRP).

A. Detection Monitoring Program

The Discharger must operate and maintain a detection monitoring system that complies with the DMP monitoring provisions contained in CCR, title 27, section 20385 through 20420. Monitoring of the groundwater must be conducted to evaluate the effectiveness of the DMP and to provide the best assurance of the early detection of any releases from the Landfill. Changes to the existing monitoring system must be designed and certified by a California-licensed professional civil engineer or professional geologist as meeting the requirements of CCR, title 27, section 20415(e)(1). The Discharger must collect, preserve, and transport samples in accordance with an approved SAP.

1. Groundwater Monitoring

The groundwater monitoring program monitors the quality of groundwater that passes through the point of compliance as well as monitors the quality of groundwater upgradient, cross-gradient, and downgradient of the Landfill through the collection of groundwater samples for laboratory analysis and field measurement of water quality parameters.

a. Monitoring Points

The point of compliance is monitored by the existing groundwater monitoring wells MW-2, MW-3, MW-4, and MW-5. Additional monitoring points include upgradient (background) groundwater monitoring well MW-1.

b. Depth to Groundwater

Prior to purging and sampling, the Discharger must measure and record the depth below ground surface (bgs) of the static groundwater surface in all groundwater monitoring wells. The measurements must be accurate to the nearest 0.01 foot.

c. Groundwater Purging and Sampling

Prior to sampling, all groundwater monitoring wells must be purged using either standard or low-flow techniques until temperature, electrical conductivity, and pH of extracted well water have stabilized. These parameters will be considered stable when three consecutive readings have pH values within +/- 0.3 pH units and temperature and electrical conductivity values within +/- three (3) percent.

All groundwater samples, with the exception of field parameters, are to be analyzed by a California state-certified laboratory using the United States Environmental Protection Agency (USEPA) analytical methods listed in Attachment A or the most recently approved SW-846 USEPA method or other equivalent USEPA method. An alternate method may be proposed and used if acceptable to the Executive Officer.

d. Constituents of Concern and Monitoring Parameters

The Discharger must monitor, at each groundwater monitoring well, all COCs and monitoring parameters in accordance with the frequencies listed in MRP, Attachment A. Should any non-monitoring parameter COC exceed their respective concentration limit by a measurably significant amount at any given monitoring point, that non-monitoring parameter COC will become a monitoring parameter at that monitoring point.

e. Field Parameters

The Discharger must monitor, at each groundwater monitoring well, all field parameters in accordance with the frequencies listed in MRP, Attachment A.

f. Aquifer Characteristics

The Discharger must calculate, and illustrate on a site plan and/or aerial photograph, the following aquifer characteristics: the static water level (feet above mean sea level) in each groundwater monitoring well; the groundwater gradient (feet/feet); the direction of the groundwater gradient beneath and around the Facility (degrees); the velocity of groundwater flow (feet/year); and the current groundwater isocontours for that monitoring period.

g. Calibration Documentation

Annually, the Discharger must submit documentation of instrument calibration and performance checks to verify proper operation of the field monitoring equipment.

B. Facility Inspections

The following elements must be monitored annually and reported to the Water Board in accordance with the schedule specified in this MRP, Section IV.A.1. Maintenance and repairs must be performed in a timely manner following discovery of the problem in accordance with the procedures outlined in the approved FCPCMP.

1. Annual Inspection

Annually, prior to the anticipated rainy season, but no later than **September 30**, the Discharger must conduct an inspection of the Facility. The inspection must assess damage to the cover system, the drainage control system, groundwater monitoring equipment (including wells, etc.), and must include adequate observations to assess the Landfill condition. Any necessary construction, maintenance, or repairs must be completed by **October 31** of the same year. The Discharger must document the inspection and the repair measures implemented, including photographs of the problem and of the repairs; this inspection documentation must be included in the annual report.

2. Storm Events

The Discharger must inspect all precipitation, diversion, and drainage facilities for damage **within 10 days** following major storm events. Necessary repairs must be completed **within 30 days** of the inspection. The Discharger must document the inspection(s) and the repair measures implemented, including photographs of the problem and of the repairs; these inspection documents must be included in the annual report.



3. Illegal Dumping and Trash Removal

The Discharger must inspect the area within the lease boundary of the Facility and remove all visible trash and signs of waste as a result of illegal dumping and/or poor housekeeping of the transfer station. The lease boundary is shown on Attachment B of this MRP.

C. Final Cover Integrity Monitoring and Maintenance Program

The Discharger has installed an engineered alternative final cover over the Landfill, specifically an evapotranspirative (ET) cover. The ET cover is a 1-foot thick monolithic cover. The cover has been graded to prevent leachate formation due to storm water infiltration, to promote lateral runoff, and to prevent ponding. Board Order No. R6V-2020-0062 contains a time-schedule for the Discharger install a mechanically erosion-resistant layer over the portion of Site 2 that exhibits evidence of wind erosion. The mechanically erosion-resistant layer will consist of no less than 1-foot of granite cobble ranging in diameter from 3- to 6-inches and placed directly over top the 1-foot thick ET cover with no additional compaction. The mechanically erosion-resistant layer is not required to be installed on any area of the monolithic cover that has an effective erosion-resistant vegetative layer. The purpose of this monitoring is to ensure the integrity of the cover system and to evaluate the cover's capability to promote runoff and prevent ponding. The following elements are to be monitored annually and reported to the Water Board in accordance with the schedule specified in this MRP, Section IV.A.2. Maintenance and repairs to the cover must be performed in a timely manner following discovery of the problem in accordance with the procedures outlined in the approved FCPCMP.

1. An evaluation of the condition of the cover surface, including areas requiring replanting/reseeding and/or placement of additional granite cobble, if needed.
2. Eroded portions of the cover surface requiring regrading, repair, or (for areas where the problem persistently reoccurs) installation of additional erosion control measures.
3. An evaluation of the ability of the cover to promote runoff and prevent ponding.
4. Areas of the cover surface damaged by equipment operation.
5. Prior to conducting periodic grading repairs and maintenance of the cover surface, the discharger must note on a map of the Landfill the approximate location and outline of any areas where differential settlement is visually obvious. Map notations and delineations made pursuant to this paragraph need not be surveyed, so long as all areas where differential settlement was visually identifiable prior to regrading can be relocated. Such notation

and delineation must be made by, or under the supervision of, a California-licensed professional geologist or civil engineer.

### 3. DATA ANALYSES

All groundwater data must be analyzed using statistical and non-statistical methods that meet the requirements of CCR, title 27, sections 20415, subdivisions (e)(8) and (9).

#### A. Site-Specific Statistical Analysis Method

The Executive Officer may approve statistical methods which are different from the general methods listed in CCR, title 27 provided that such methods can determine a statistically significant release from the Landfill. The Discharger has proposed intrawell statistical methods to evaluate water quality data. Based on data provided by the Discharger, the proposed methods can detect a statistically significant evidence of a release from the Landfill. Statistical data analysis must be completed in accordance with the proposed methods.

#### B. Non-Statistical Analysis Methods

In order to determine if any new releases have occurred from the Facility, evaluation of data will also be conducted using non-statistical methods. Non-statistical analyses include the following.

##### 1. Physical Evidence

Physical evidence can include, but is not limited to, unexplained stress in biological communities such as vegetation loss, soil discoloration, or groundwater mounding. Each annual report must comment on such physical elements.

##### 2. Time-Series Plots

Non-statistical evidence of a release may include trends of increasing concentrations of one or more constituents over time, as depicted in time-series plots. Each annual report must include these time-series plots. Time-series plots are not required for parameters that have never been detected above their MDL (as specified by the applicable USEPA method).

### 4. REPORTING REQUIREMENTS

The Discharger must comply with the following reporting requirements.

#### A. Scheduled Reports to be Filed with the Water Board

The following periodic reports, including all groundwater monitoring data collected during the corresponding reporting period, must be submitted

collected during the corresponding reporting period, must be submitted electronically to the Water Board by uploading to the State Water Board's

GeoTracker system, per the following schedule.

REPORTING SCHEDULE		
Report Name	Sampling and Reporting Period	Report Due Date
Annual DMP Monitoring Report <sup>1</sup>	January 1 – December 31	January 30
Annual Cover Monitoring Report <sup>1</sup>	January 1 – December 31	January 30
Five-Year Iso-Settlement Map <sup>1,2</sup>	(once every five years)	January 30
Five-Year Constituent of Concern Monitoring Report <sup>1,3</sup>	January 1 – June 30	August 15
	July 1 – December 31	February 15
<sup>1</sup> These reports may be combined, with the exception of the first five-year iso-settlement map. <sup>2</sup> The first five-year iso-settlement map is scheduled to be submitted to the Water Board no later than June 30, 2021; all subsequent five-year iso-settlement maps will be due January 30 of the year they are due. <sup>3</sup> Sampling and reporting period will alternate between January 1 through June 30 for one five-year sampling event and July 1 through December 31 for the next five-year sampling event. The August 15 report due date corresponds to the January 1 through June 30 sampling and reporting period; the February 15 report due date corresponds to the July 1 through December 31 sampling and reporting period. The next five-year constituent of concern report is due February 15, 2021.		

1. Annual Detection Monitoring Reports

Annual DMP reports must be submitted to the Water Board no later than **January 30** of each year and must include, but not be limited to, the following information.

- a. All data collected during the reporting period in accordance with the approved SAP for the Landfill's groundwater monitoring system, as outlined in MRP, Section II.A.
- b. Tabulated results of sampling and laboratory analyses for each groundwater monitoring point where a parameter has been reported at a concentration exceeding the MDL, including historical (at minimum, the last ten years) and current reporting period data, as well as the concentration limit for each monitoring parameter or COC and an identification of each sample that exceeds its respective concentration limit by a measurably significant amount at any given monitoring point.

- c. A map and/or aerial photograph showing the Landfill perimeter and ancillary facilities as well as locations of all monitoring points, observation stations, and the surface trace of the point of compliance.
- d. Calculate and illustrate on a map and/or aerial photograph the static groundwater surface elevation (feet above mean sea level) in each groundwater monitoring well, the groundwater gradient (feet/foot) and the direction of the groundwater gradient beneath and around the Facility (degrees), the velocity of groundwater flow (feet/year), and the current groundwater isocontours for that monitoring period.
- e. Copies of all field monitoring and well sampling data sheets.
- f. Time-series plots of the analytical results from the monitoring at each monitoring point for each COC detected during the monitoring period as well as available historical data (minimum of last ten years of data). Time-series plots must include, as horizontal lines, the concentration limit for each COC, as derived in accordance with the WQPS for the respective COC/monitoring point pair, as well as the MDL for the analytical method used.
- g. A letter transmitting the essential points of each report, including a discussion of any violations found since the last report was submitted and describing actions taken or planned for correcting those violations.
  - i. If the Discharger has previously submitted a detailed time schedule for correcting violations, a reference to the correspondence transmitting this schedule will suffice.
  - ii. If no violations have occurred since the last submittal, this must be stated in the letter of transmittal.
- h. Evidence that adequate financial assurances for post-closure maintenance and for corrective action of a known or reasonably foreseeable release are still in effect. Evidence may include a copy of the renewed financial instrument or a copy of the receipt for payment of the financial instrument.
- i. Evidence that the financial assurance amount is adequate or increase the amount of financial assurance by an appropriate amount annually due to inflation, or a change in the approved closure plan, or other unforeseen events.

- j. The Discharger must review the FCPCMP annually to determine if significant changes in the maintenance of the Facility warrant an update to the plan. Any proposed changes to the FCPCMP must be outlined in the annual report. Any changes to the FCPCMP must be approved by the Executive Officer.

2. Final Landfill Cover Reports

a. Annual Final Landfill Cover Reports

Annual final cover reports for the Landfill must be submitted to the Water Board no later than **January 30** of each year and may be combined with the annual DMP monitoring report. Annual final cover reports must include, but not be limited to, the following information:

- i. All data collected in accordance with this MRP, Section II.A.
- ii. A description of the condition of the final cover materials and a discussion regarding any settlement or soil cover erosion, which have occurred, and the capability of the cover to promote runoff and prevent ponding.
- iii. Where settlement, erosion, or other damage to the Landfill cover is noted, the report must indicate the actions taken to repair the cover material, the date(s) those actions were taken, and what actions are being taken to prevent reoccurrence.

b. Five-Year Iso-Settlement Map

Pursuant to CCR, title 27, section 21090(e)(2), at least once every five years, the Discharger must prepare and submit to the Water Board an iso-settlement map accurately depicting the estimated total change in elevation of the final cover surface. The first five-year iso-settlement map is scheduled to be submitted to the Water Board no later than **June 30, 2021**; all subsequent five-year iso-settlement maps must be submitted to the Water Board no later than **January 30** of the year in which they are due and may be combined with the annual DMP monitoring report. The map must include, at minimum, the following information:

- i. The total lowering of the surface elevation of the final Landfill cover, relative to the baseline topographic map prepared at the time of closure (as-built condition).

- ii. Indicate all areas where repeated and severe differential settlement or cover maintenance/modification has occurred since closure.
- iii. The map must be drawn to the same scale and contour interval as the baseline as-built topographic map but show the current topography of the final Landfill cover and include overprinted isopleths indicating the total settlement to-date.

3. Five-Year Constituent of Concern Monitoring and Reporting Program

Pursuant to CCR, title 27, section 20420, subdivision (g), every five years the Discharger must sample for a broader list of COCs. Groundwater samples must be collected and submitted for laboratory analyses at all monitoring points once every five years for all monitoring parameters and COCs listed in Appendix I and Appendix II of the Code of Federal Regulations, title 40, part 258 (Attachment A to this MRP). Successive monitoring efforts must be carried out alternately during January 1 through June 30 of one five-year sampling event and July 1 through December 31 of the next five-year sampling event, and every fifth year, thereafter. The five-year COC sampling event must be reported no later than 45 days following the monitoring period. The last five-year sampling event occurred in the first half of 2015; therefore, the next five-year sampling event is scheduled to occur in second half of 2020 and reported to the Water Board no later than **February 15, 2021**.

B. Unscheduled Reports to be Filed with the Water Board

1. Notice of Tentative Release from the Landfill

Should the statistical or non-statistical data analyses indicate, for a given COC, that a new release is tentatively identified, the Discharger must follow these requirements.

a. Physical or Measurably Significant Evidence of a Release from the Landfill

The Discharger must immediately notify the Water Board verbally whenever a determination is made that there is significant physical or "measurably significant" evidence of a release from the Landfill. This verbal notification must be followed by written notification via certified mail within seven days of such determination. Upon such notification, the Discharger may initiate verification procedures or demonstrate that another source other than the Landfill caused evidence of a release in accordance with MRP, Section IV.B.1.b below.

The notification must include the following information:

- i. The potential source of the release;
- ii. General information including the date, time, location, and cause of the release;
- iii. An estimate of the flow rate and volume of waste involved;
- iv. A procedure for collecting samples and description of laboratory tests to be conducted;
- v. Identification of any water body or water-bearing media affected or threatened;
- vi. A summary of proposed actions; and
- vii. For a physical evidence of a release – the physical factors that indicate evidence of a release; or
- viii. For a measurably significant evidence of a release – the monitoring parameters and/or COCs that are involved in the measurably significant evidence of a release from the Landfill.

b. Other Source That May Cause Evidence of a Release from the Landfill

The Discharger may make a demonstration that a source other than the Landfill caused evidence of a release. For this case, the Discharger must notify the Water Board of the intention to make this demonstration. The notification must be sent to the Water Board by certified mail within seven days of determining physical or measurably significant evidence of a release.

2. Evaluation Monitoring

The Discharger must, within 90 days of verifying a release, submit a technical report pursuant to CWC, section 13267, subdivision (b), proposing an EMP meeting the provisions of CCR, title 27, section 20420, subdivision (k)(5). If the Discharger decides not to conduct verification procedures or decides not to make a demonstration that a source other than the Landfill is responsible for the release, the release will be considered verified. The EMP must include the following information:

- a. COC Concentrations – the maximum concentration of each COC at each monitoring point as determined during the most recent COC sampling event (i.e., under CCR, title 27, section 20420, subdivision (g) or (k)[1]). Any COC that exceeds its concentration limit is to be retested at that monitoring point. Should the results of the retest verify that the COC is above the concentration limit, then that COC will become a monitoring parameter at that monitoring point;
- b. Proposed Monitoring System Changes – any proposed changes to the groundwater monitoring system necessary to meet the provisions of CCR, title 27, section 20425;
- c. Proposed Monitoring Changes – any proposed additions or changes to the monitoring frequency, sampling and analytical procedures or methods, or statistical methods used at the Facility necessary to meet the provisions of CCR, title 27, section 20425; and
- d. Proposed Delineation Approach – a detailed description of the measures to be taken by the Discharger to assess the nature and extent of the release from the Landfill.

3. Engineering Feasibility Study Report

Within 180 days of verifying the existence of a release, the Discharger must submit an Initial Engineering Feasibility Study report meeting CCR, title 27, section 20420, subdivision (k)(6), proposing corrective action measures that could be taken to achieve background concentrations for all COCs involved in the release. This report will be the basis for a later expanded Engineering Feasibility Study submitted under the Evaluation Monitoring Program, per CCR, title 27, section 20425, subdivision (b).

4. Monitoring Well Logs

Pursuant to CCR, title 27, section 20415, subdivision (e)(2), all monitoring wells (including groundwater and unsaturated zone monitoring wells) and all other borings installed to satisfy the requirements of this MRP must be drilled by a licensed drilling contractor and must be logged during drilling under the direct supervision of either a California-licensed professional geologist or civil engineer with expertise in stratigraphic well logging. Such logs must be submitted to the Water Board within 90 days following completion of fieldwork.



5. Significant Earthquake Event

After a significant<sup>1</sup> or greater earthquake event at the Facility, the Discharger must notify the Water Board within 48 hours, and within 45 days submit to the Water Board a detailed written post-earthquake report describing any physical damages to the containment features or groundwater monitoring system. The Discharger must closely examine the Landfill cover, vegetative cover, slope conditions, drainage control system, and surface grading for signs of cracking or depressed/settled areas, following the earthquake event. If cracks or depressed areas of the Landfill cover are identified, the Discharger must make repairs to those areas within 30 days from the date of the earthquake event. Repairs and maintenance must be consistent with Order No. R6V-2020-0062.

C. General Provisions

The Discharger must comply with Attachment C, "General Provisions for Monitoring and Reporting," dated September 1, 1994, which is attached to and made part of this MRP.

D. Violations

If monitoring data indicate violation of the Post-Closure WDRs, the Discharger must report the violation in the scheduled report for the corresponding reporting period and provide information indicating the cause of violation(s) and the action taken or planned to bring the discharge into compliance.

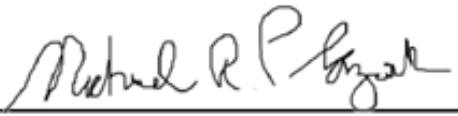
E. Electronic Reporting Requirements

Pursuant to CCR, title 23, section 3890, the Discharger must submit reports, including soil, vapor, and water data, prepared for the purpose of subsurface investigation or remediation of a discharge of waste to land subject to Division 2 of CCR, title 27, electronically over the internet to the State Water Resources Control Board's GeoTracker system. This requirement is in addition to, and not superseded by, any other applicable reporting requirement. The Discharger must provide the monitoring report to the Water Board, as specified in this MRP, and upload the full monitoring report into GeoTracker, as stipulated by CCR, title 23.

For all other types of documents and correspondence, please send to the Water Board's email address at [Lahontan@waterboards.ca.gov](mailto:Lahontan@waterboards.ca.gov) and include your WDID No. or Facility name in the subject line.

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<sup>1</sup> A significant earthquake is a seismic event classified according to the United States Geological Survey (USGS) Earthquake Hazard Program as a moderate earthquake measuring between 5 and 5.9 on the Richter scale, or higher. The Discharger may use the Modified Mercalli Intensity Scale VI or higher for equivalent ground shaking generated by a significant earthquake of Richter magnitude 5.0 or higher as contained with the USGS Earthquake Hazard Program Magnitude/Intensity Comparison chart found at <https://earthquakes.usgs.gov>.

Ordered by:   
MICHAEL R. PLAZIAK  
ACTING EXECUTIVE OFFICER

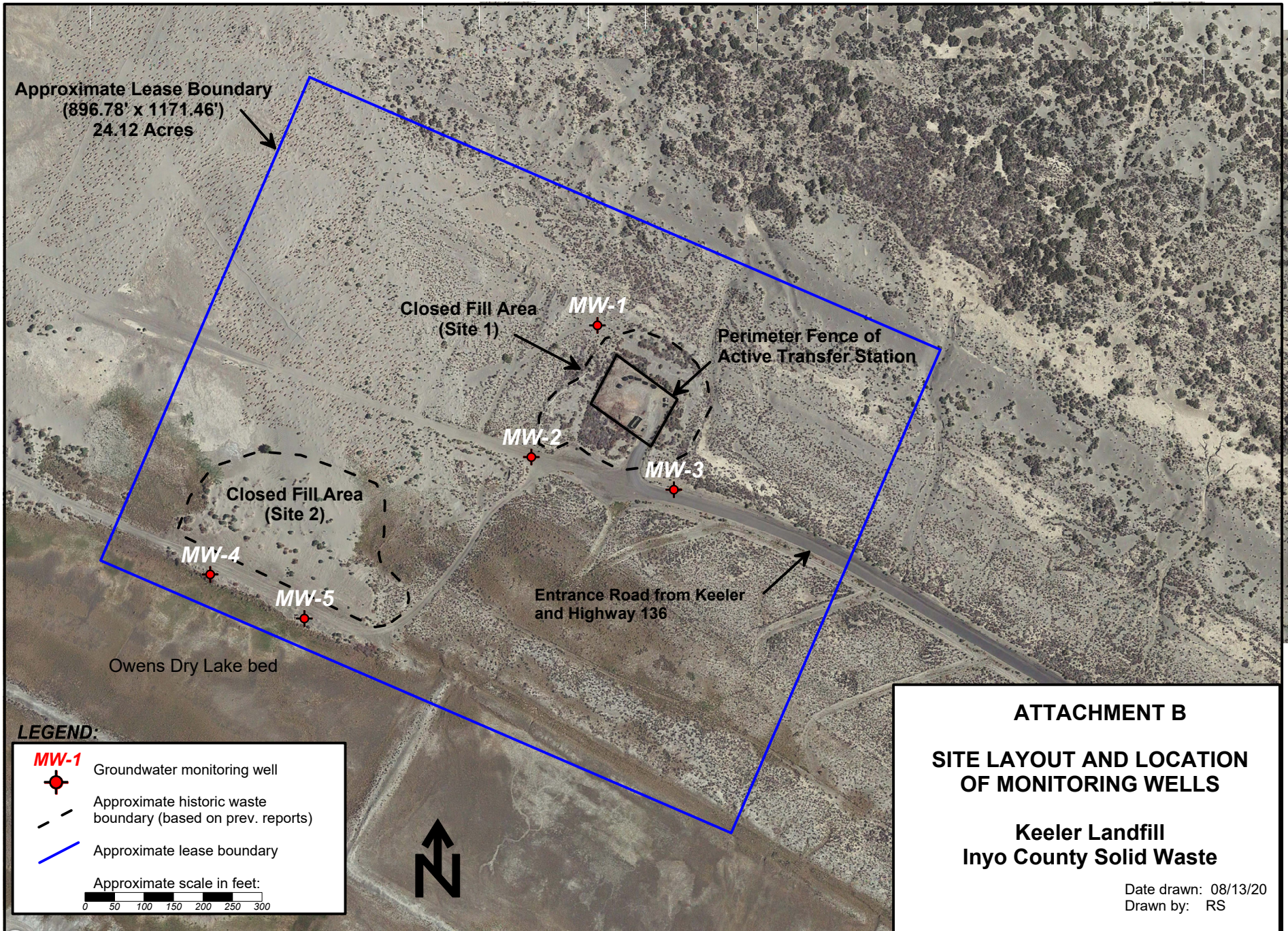
Dated: 11/18/2020

- Attachments:
- A. Water Quality Monitoring Program
  - B. Location of Monitoring Points
  - C. General Provisions for Monitoring and Reporting

**ATTACHMENT A – WATER QUALITY MONITORING PROGRAM**

<b>GROUNDWATER MONITORING</b>					
<b>Parameter</b>		<b>Units</b>	<b>USEPA Method<sup>1</sup></b>	<b>Sampling Frequency</b>	<b>Reporting Frequency</b>
<b>Field Parameters</b>					
Depth to Groundwater		feet below ground surface	--	annually	annually
Temperature		degrees Farenheit or Celsius	--	annually	annually
Electrical Conductivity		micromhos/cm	--	annually	annually
pH		pH Units	--	annually	annually
Turbidity		NTUs	--	annually	annually
<b>Constituents of Concern</b>					
<b>Monitoring Parameters</b>	Total Dissolved Solids	milligrams/liter	E160.1	annually	annually
	Chloride	milligrams/liter	300	annually	annually
	Sulfate	milligrams/liter	300	annually	annually
	Nitrate as Nitrogen	milligrams/liter	300	annually	annually
	Volatile Organic Compounds <sup>2</sup>	micrograms/liter	8260	annually	annually
Antimony		micrograms/liter	7062	5 year	5 year
Arsenic		micrograms/liter	7062	5 year	5 year
Barium		micrograms/liter	6010	5 year	5 year
Beryllium		micrograms/liter	6010	5 year	5 year
Cadmium		micrograms/liter	7131	5 year	5 year
Chromium		micrograms/liter	6010	5 year	5 year
Hexavalent Chromium		micrograms/liter	7196	5 year	5 year
Cobalt		micrograms/liter	6010	5 year	5 year
Copper		micrograms/liter	6010	5 year	5 year
Lead		micrograms/liter	7421	5 year	5 year
Mercury		micrograms/liter	7471	5 year	5 year
Nickel		micrograms/liter	7521	5 year	5 year
Selenium		micrograms/liter	7742	5 year	5 year
Silver		micrograms/liter	6010	5 year	5 year
Thallium		micrograms/liter	7841	5 year	5 year
Tin		micrograms/liter	6010	5 year	5 year
Vanadium		micrograms/liter	6010	5 year	5 year
Zinc		micrograms/liter	6010	5 year	5 year

<b>Constituents of Concern Cont.</b>				
Total Cyanide	micrograms/liter	335.4	5 year	5 year
Total Sulfide	micrograms/liter	376.2	5 year	5 year
Volatile Organic Compounds <sup>2</sup>	micrograms/liter	8260	5 year	5 year
Semi-volatile Organic Compounds <sup>3</sup>	micrograms/liter	8270	5 year	5 year
Polychlorinated Biphenyls and Pesticides <sup>3</sup>	micrograms/liter	8141	5 year	5 year
Chlorinated Herbicides <sup>3</sup>	micrograms/liter	8151	5 year	5 year
<p>1 - The Discharger shall analyze for all constituents, with the exception of field parameters, using the United States Environmental Protection Agency (USEPA) analytical methods indicated or the most recently approved SW-846 USEPA method or other equivalent USEPA method. An alternate method may be proposed and used if acceptable to the Water Board Executive Officer.</p> <p>2 - As defined in Appendix I, 40 Code of Federal Regulations (CFR), part 258.</p> <p>3 - As defined in Appendix II, 40 CFR, part 258.</p>				



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 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.
- 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 under Section 13268 of the Water Code.

x:PROVISIONS WDRS

file: general pro mrp