

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER R7-2014-0054

**WASTE DISCHARGE REQUIREMENTS FOR
IMPERIAL WELLS POWER I LLC, OWNER/OPERATOR
IMPERIAL WELLS GEOTHERMAL EXPLORATION PROJECT
WELLFIELD MUD SUMPS/CONTAINMENT BASINS**

West-Southwest of Niland, Imperial County

Salton Sea Known Geothermal Resource Area (KGRA)

The California Regional Water Quality Control Board, Colorado River Basin Region (Colorado River Basin Water Board), finds that:

1. Imperial Wells Power LLC (Discharger) is proposing to conduct the Imperial Wells Geothermal Exploration Project (Project), consisting of the drilling and testing of up to six (6) geothermal exploration wells from three well pads on private lands located about 2.5 miles west-southwest of the community of Niland in Imperial County, California.
2. The project components will be located in Section 12 of Township 11 South (T11S), Range 13 East (R13E), and Sections 7 and 18 of T11S, R14E, San Bernardino Base and Meridian. A map showing the location of the Project is included as Attachment A, which is incorporated herein and made a part of this Order by reference. The mailing address for Imperial Wells Power I LLC is 321 South Waterman Avenue, Suite 200, El Centro, CA 92243.
3. The wells will be located entirely within the Salton Sea Known Geothermal Resource Area (KGRA). Up to three well pads, approximately 0.85 miles of access road, 150 feet of pipeline corridor, and 2.14 miles of combined access road/pipeline corridor are proposed to be constructed for the Project. No more than three of the six proposed exploration wells would be located on any single well pad.
4. Primary access to the Project area will be via State Highway 111 to English Road, Alcott Road or Pound Road. Locations of the proposed wells are shown on Attachment A
5. This Board Order regulates the handling and disposal of drilling wastes generated by the Discharger during geothermal well drilling, testing, and maintenance in the vicinity of the Salton Sea KGRA.
6. The Discharger submitted a Report of Waste Discharge on July 25, 2013, for the Project.
7. The Project will consist of well pad construction, geothermal well drilling, testing, and waste handling and disposal. A standard or typical well pad configuration, including the mud pits that are also called mud sumps, is shown on Attachment B, which is incorporated herein and made a part of this Order by reference.
8. The purpose of the proposed Project is to determine the characteristics of geothermal resources leased from private landowners as part of the geothermal field development

project. Technical data obtained from the wells will be used to determine if the geothermal resource is commercially viable.

9. Definition of terms used in this Board Order:
- a. **Facility** – The entire parcel of property where the Discharger’s or related geothermal, industrial, and drilling activities are conducted.
 - b. **Waste Management Unit (WMUs)** – Mud sumps/containment basins are WMUs.
 - c. **Discharger** – The term Discharger means any person who discharges waste that could affect the quality of the waters of the State, and includes any person who owns the land, waste management unit, or who is responsible for the operation of a waste management unit. Specifically, the terms Discharger or Dischargers in this Board Order means Imperial Wells Power I LLC.

Geothermal Drilling Wastes

10. The following wastes are generated during construction, operation, and maintenance of geothermal exploration wells:
- a. **Geothermal brine** – Previous drilling for the Hudson Ranch I project, which is located in the same geothermal resource basin as Imperial Wells, shows that geothermal brines are hot saline solutions that contain Total Dissolved Solids (TDS) up to nearly 300,000 mg/L. The projected chemistry of the geothermal production fluid for this Project is provided in Table 1.

Table 1
Imperial Wells Project
Produced Geothermal Brine Composition

Brine Components	Maximum (mg/kg)	Minimum (mg/kg)	Average (mg/kg)
Na	57,100	55,450	56,275
K	18,312	17,700	18,006
Ca	32,600	26,955	29,778
Mg	49	36	43
Li	234	221	228
Sr	508	124	316
Ba	201	132	167
Metals:			
Fe	1,472	1,350	1,411
Mn	1,729	1,670	1,700
Zn	521	453	487
Pb	115	100	108
As	16.2	7.8	12
Cu	1	0.8	0.9
Complexes:			
SiO ₂	499	374	437
B	602	524	563

Imperial Wells Project Produced Geothermal Brine Composition			
Anions:			
Cl	176,000	154,884	165,442
F	13.2	1.1	7.2
TDS	298,000	259,280	278,640

- b. **Drilling muds with additives** – Drilling mud is inert mineral clay such as bentonite clay. Drilling mud additives may include sodium bicarbonate, soda ash, drilling soap, organic polymers, wood fibers, graphite, cottonseed hulls, walnut shells and cement. Drilling mud additives do not render the drilling mud hazardous when used according to manufacturer's specifications.
- c. **Drill cuttings (rock)** – small rock fragments pulverized during drilling and forced to the surface by drilling mud, aerated mud, and/or air.

Drilling Waste Containment (WMUs)

11. The Discharger proposes to contain geothermal brine generated during drilling, testing, or maintenance by discharging into large portable tanks. The number of tanks required will be determined as drilling proceeds. Geothermal brine will be returned to the geothermal resource via injection, or properly disposed of off-site into permanent, Class II surface impoundments constructed pursuant to the regulatory standards specified in Title 27 of the California Code of Regulations (Title 27).
12. Drilling muds and rock cuttings generated during well drilling, testing, or maintenance will be discharged to mud sumps/containment basins designed to temporarily contain (less than one year) the material while drying. The mud sumps are temporary containment ponds that will be decommissioned and removed subsequent to completion of the well construction activities. The mud sumps will be lined impoundments employing a 40-mil synthetic liner. The liner will be placed on 6 inches of compacted clay to hydraulically isolate the mud sump from the underlying groundwater table. Nominal sump dimensions will be 400 feet long by 80 feet wide by 7 feet deep with 2 feet of freeboard.

Drilling Waste Disposal

13. Liquid wastes produced from drilling, testing, and maintenance of geothermal wells will be contained in portable tanks (the number of tanks required will be determined as drilling proceeds) and returned to the geothermal resource, or will be properly disposed of off-site into permanent Class II surface impoundments constructed pursuant to Title 27 standards.
14. Solids discharged to mud sumps/containment basins are classified as designated waste and must be removed off-site and disposed of in accordance with applicable federal, state, and county regulations.

Surface Water

15. Surface water in the area of the Salton Sea KGRA consists of canals and agricultural drains operated and maintained by the Imperial Irrigation District.

16. The Discharger has determined that the muds sumps/containment basins are not located in a 100-year flood zone.

Regional Groundwater

17. The regional groundwater flow direction within the Imperial Valley is toward the Salton Sea, a closed basin with a surface elevation of approximately 225 feet below sea level. The Salton Sea KGRA is located approximately 120 feet below sea level; groundwater flows in a general northwest direction.

Local Groundwater

18. Groundwater depth, gradient, and quality in the area of the Salton Sea KGRA may be influenced, at times, by irrigation of adjacent agricultural fields, and by recharge from nearby canals.

Regional Geology

19. The Project is located within the Salton Trough area of southeast California. The Salton Trough is a tectonically active zone containing numerous faults associated with the San Andreas Fault Zone. The site is located on the north central portion of the trough, and is underlain by deltaic and lacustrine formations associated with the Colorado River delta. Bedrock in this part of the Salton Trough is approximately three miles below ground surface.

Climate

20. Climate in the region is arid. Climatological data obtained from 1951 to 1980 indicate an average seasonal precipitation of 2.5 inches, and an average annual pan evaporation rate greater than 100 inches.
21. The wind direction follows two general patterns:
 - a. Seasonally from fall through spring, prevailing winds are from the west and northwest. Most of these winds originate in the Los Angeles basin, and tend to decrease the humidity in the Salton Sea area.
 - b. Summer weather patterns are dominated by intense heat induced low-pressure areas that form over the interior desert, drawing air south of the Facility, which typically increases the humidity in the Salton Sea area.

Basin Plan

22. The Water Quality Control Plan for the Colorado River Basin Region of California (Basin Plan) designates the beneficial uses of ground and surface waters in this Region.
23. The Project is located within the Imperial Hydrological Unit. The beneficial uses of groundwater in the Imperial Hydrological Unit are:
 - a. Municipal Supply (MUN)*
 - b. Industrial Supply (IND)

**With respect to the MUN designation, the Basin Plan states: At such time as the need arises to know whether a particular aquifer which has no known existing MUN use should be considered as a source of drinking water, the Regional Board will*

make such a determination based on the criteria listed in the 'Sources of Drinking Water Policy' in Chapter 2 of the Basin Plan. An [indication of MUN] for a particular hydrologic unit indicates only that at least one of the aquifers in that unit currently supports a MUN beneficial use. For example, the actual MUN usage of the Imperial Hydrologic Unit is limited only to a small portion of that ground water unit.

24. The beneficial uses of surface waters in the area of the Project are as follows:

a. Imperial Valley Drains

- i. Freshwater Replenishment (FRSH)
- ii. Water Contact Recreation (RECI)
- iii. Non-contact Water Recreation (RECII)
- iv. Warm Freshwater Habitat (WARM)
- v. Wildlife Habitat (WILD)
- vi. Preservation of Rare, Threatened, or Endangered Species (RARE)

b. All American Canal System

- i. Municipal (MUN)
- ii. Agricultural (AGR)
- iii. Aquaculture Supply (AQUA)
- iv. Freshwater Replenishment (FRSH)
- v. Industrial (IND)
- vi. Groundwater Recharge (GWR)
- vii. Water Contact Recreation (RECI)
- viii. Non-Contact Water Recreation (RECII)
- ix. Warm Freshwater Habitat (WARM)
- x. Wildlife Habitat (WILD)
- xi. Hydropower Generation (POW)
- xii. Preservation of Rare, Threatened, or Endangered Species (RARE)

Storm Water

25. Federal regulations for storm water discharges were promulgated by the United States Environmental Protection Agency (USEPA) on November 16, 1990 (40 CFR Parts 122, 123, and 124). These regulations required discharges of storm water to surface waters associated with construction activity, including clearing, grading, and excavation activities (except operations that result in disturbance of less than five (5) acres of total land area and which are not part of a larger common plan of development or sale) to obtain a National Pollutant Discharge Elimination System (NPDES) permit and to implement Best Conventional Pollutant Control Technology and Best Available Technology Economically Achievable to reduce or eliminate storm water pollution. (40 CFR 122.26(b)(14)(x).) On December 8, 1999, federal regulations promulgated by USEPA (40 CFR Parts 9, 122, 123, and 124) expanded the NPDES storm water program to include, in pertinent part, storm water discharges from construction sites that disturb a land area equal to or greater than one acre and less than five acres, or is part of a larger common plan of development or sale (small construction activity). (40 CFR 122.26(b)(15).)

26. To comply with these federal requirements, the State Water Resources Control Board (State Water Board) adopted Water Quality Order No. 2009-0009-DWQ (NPDES)

General Permit No. CAS000002, *Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activity* (Construction General Permit). The Construction General Permit became effective on July 1, 2010, and was amended by Board Orders 2010-0014-DWQ and 2012-0006-DWQ. The Construction General Permit specifies requirements for this facility for discharges of storm water associated with construction activity that results in a land disturbance of one acre or more or is part of a larger common plan of development or sale. The Construction General Permit specifies certain construction activities that are exempted from coverage. Because these exemptions do not apply to the Discharger's proposed construction activity and because this activity will result in a land disturbance of more than 1 acre, the Discharger is subject to the Construction General Permit requirements.

Anti-Degradation Policy

28. State Water Board Resolution No. 68-16 (*Policy with Respect to Maintaining High Quality Waters of the State*; hereafter Resolution No. 68-16); requires a Regional Water Board in regulating the discharge of waste to maintain high quality waters of the state (i.e., background water quality) until it is demonstrated that any change in quality will be consistent with maximum benefit to the people of the State, will not unreasonably affect beneficial uses, and will not result in water quality less than that described in plans and policies (e.g., violation of any water quality objective). The discharge is required to meet waste discharge requirements that result in the best practicable treatment or control of the discharge necessary to assure pollution or nuisance will not occur, and the highest water quality consistent with maximum benefit to the people will be maintained.

CEQA

29. The County of Imperial, acting as the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000 et seq.), prepared an Initial Study/Mitigated Negative Declaration for the proposed Project. On October 10, 2007, prior to approving the Project, the County of Imperial certified that: (1) the Initial Study/Mitigated Negative Declaration prepared for the proposed Project was completed in compliance with CEQA; (2) the Initial Study/Mitigated Negative Declaration was presented to the Imperial County Planning Commission; (3) that decision-making body reviewed and considered the information contained in the Initial Study/Mitigated Negative Declaration prior to approving the Project; and (4) the Initial Study/Mitigated Negative Declaration reflected the County's independent judgment and analysis. On October 23, 2007, after approving the Project, the County timely filed a Notice of Determination of its decision to adopt the Mitigated Negative Declaration for the project after concluding, based on its CEQA review, that the Project, with incorporation of mitigation measures specified, would not have a significant effect on the environment. As a Responsible Agency under CEQA, the Colorado River Basin Water Board has considered the Initial Study/Mitigated Negative Declaration and the potential impacts to water quality identified and addressed by the County of Imperial. The Colorado River Basin Water Board has concluded that compliance with these waste discharge requirements will prevent any significant adverse impacts to water quality.

Notification

30. The Colorado River Basin Water Board has notified the Discharger and all known interested agencies and persons of its intent to adopt waste discharge requirements for

said discharge, and has provided them with an opportunity for a public meeting, and to submit comments.

31. It is the policy of the State of California that every human being has the right to safe, clean affordable, and accessible water adequate for human consumption, cooking and sanitary purposes. This order promotes that policy by requiring dischargers to meet maximum containment levels designed to protect human health and ensure that water is safe for domestic use.
32. The Colorado River Basin Water Board, in a public meeting, heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED, that in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, the Discharger shall comply with the following:

A. Discharge Specifications

1. The treatment or disposal of wastes at this Facility shall not cause pollution or nuisance as defined in Section 13050 of Division 7 of the California Water Code.
2. Waste material at this Facility must be contained at all times.
3. Containment of waste shall be limited to the areas designated for such activity. Any revision or modification of the waste containment area, or change in operation that alters the nature and constituents of the waste produced, must be submitted in writing to the Colorado River Basin Water Board's Executive Officer for review. The Colorado River Basin Water Board's Executive Officer must approve of the proposed change before the change in operation or modification of the designated area is implemented.
4. Prior to drilling a new well at the Facility, other than those shown on Attachment A, the Discharger shall notify, in writing, the Colorado River Basin Water Board's Executive Officer of the proposed change.
5. Any substantial increase or change in volume of material to be discharged under these Waste Discharge Requirements (WDRs) must be submitted in writing to the Colorado River Basin Water Board's Executive Officer for review. The Regional Water Board Executive Officer must approve of the proposed change before the change in discharge volume is implemented.
6. Liquid or solid geothermal waste discharged to tanks shall be contained at all times.
7. A minimum freeboard of two feet shall be maintained in mud sumps/containment basins at all times.
8. Following well completion, residual solids and semisolids contained in tanks shall be tested for constituents listed in Monitoring and Reporting Program R7-2014-0054, attached hereto and made a part of this Order by reference, and for any additional constituents requested by the Colorado River Basin Water Board's Executive Officer (if any). Disposal of this material shall be in accordance with applicable laws and regulations based on analytical results of sampling and analysis.
9. Prior to removing solid material discharged to mud sumps/containment basins, the material shall be tested for constituents listed in Monitoring and Reporting Program R7-

2014-0054 and for any additional constituents requested by the Colorado River Basin Water Board's Executive Officer (if any). Disposal of this material shall be in accordance with applicable laws and regulations based on analytical results of sampling and analysis.

10. Public contact with material containing geothermal wastes shall be precluded through fences, signs, or other appropriate alternatives.
11. Mud sumps/containment basins shall be constructed, operated and maintained to ensure their effectiveness, in particular:
 - a. Erosion control measures shall be implemented;
 - b. Liners in mud sumps/containment basins shall be maintained to ensure proper function, and
 - c. Solid material shall be removed from mud sumps/containment basins in a manner that minimizes the likelihood of damage to the liner.
12. Upon ceasing operation at the facility, all waste, natural geologic material contaminated by any waste, and surplus or unprocessed material, shall be removed from the site and disposed of in accordance with applicable laws and regulations.
13. Surface drainage from tributary areas or subsurface sources, shall not contact or percolate through waste discharged at this site.
14. The Discharger shall use the constituents listed in Monitoring and Reporting Program R7-2014-0054 and revisions thereto as Monitoring Parameters.
15. The Discharger shall implement Monitoring and Reporting Program R7-2014-0054 and revisions thereto to detect at the earliest opportunity any unauthorized discharge of waste constituents from the Facility, or any impairment of beneficial uses associated with (or caused by) discharges of waste to the mud sumps/containment basins.
16. Water used for the process and site maintenance shall be limited to the amount necessary for the process, dust control, and for cleanup and maintenance.
17. The Discharger shall not cause or permit the release of pollutants or waste constituents in a manner that could cause or contribute to a condition of contamination, nuisance, or pollution.

B. Prohibitions

1. Geothermal wells shall be drilled to minimize mixing of drilling mud and cuttings with geothermal brine. Only a small amount of brine may commingle with drilling mud, primarily brines in that part of the formation displaced by the drill bit. Geothermal brine shall not be discharged into mud sumps/containment basins. Standing fluid observed in mud sumps/containment basins (if any) shall be removed immediately, stored in portable tanks, and returned to the geothermal resource, or properly disposed of off-site into permitted, Class II surface impoundments constructed pursuant to Title 27 standards.

2. The discharge of solid geothermal waste to mud sumps/containment basins, as a final means of disposal, is prohibited unless authorized by the Colorado River Basin Water Board's Executive Officer.
3. The Discharger shall not cause degradation of any groundwater aquifer or supply water.
4. The discharge of waste to land not owned or controlled by the Discharger is prohibited.
5. Use of geothermal brine or drilling muds for dust control on access roads or well pads is prohibited.
6. The discharge of hazardous or designated wastes to areas other than a waste management unit authorized to receive such waste is prohibited.
7. Permanent (longer than one year) disposal or storage of drilling waste to mud sumps/containment basins is prohibited, unless authorized by the Colorado River Basin Water Board's Executive Officer.
8. All mud sumps/containment basins must be lined. Drilling waste shall not penetrate the lining during the containment period.
9. Direct or indirect discharge of geothermal drilling wastes in mud sumps/containment basins or tanks to surface water or surface drainage courses (including canals, drains, or subsurface drainage systems) is prohibited, except as allowed under an appropriate NPDES permit.
10. The Discharger shall neither cause nor contribute to the contamination or pollution of groundwater via the release of waste constituents.

C. Provisions

1. The Discharger shall comply with Monitoring and Reporting Program R7-2014-0054 and future revisions thereto, as specified by the Colorado River Basin Water Board's Executive Officer.
2. Unless otherwise approved by the Colorado River Basin Water Board's Executive Officer, all analyses shall be conducted at a laboratory certified for such analyses by the California Department of Public Health. All analyses shall be conducted in accordance with the latest edition of *Guidelines Establishing Test Procedures for Analysis of Pollutants*, promulgated by the U.S. Environmental Protection Agency.
3. Prior to any change in ownership of this operation, the Discharger shall transmit a copy of these WDRs to the succeeding owner/operator, and forward a copy of the transmittal letter to the Colorado River Basin Water Board's Executive Officer.
4. Prior to any modification that would result in a material change in the quality or quantity of discharge, or material change in the location of the discharge, the Discharger shall report all pertinent information in writing to the Colorado River Basin Water Board's Executive Officer, and obtain revised waste discharge requirements before implementing the modification.

5. Synthetic liner placement and welding must be certified by the installer to verify factory requirements were satisfied, and no damage occurred during placement. Certification must be submitted, in writing, to the Colorado River Basin Water Board's Executive Officer, prior to use of the temporary mud sump/containment basin, or equivalent system approved by the Colorado River Basin Water Board's Executive Officer.
6. The Discharger shall ensure that all site-operating personnel are familiar with the content of these WDRs, and shall maintain a copy of these WDRs at the site.
7. These WDRs do not authorize violation of any federal, state, or local laws or regulations.
8. The Discharger shall allow the Colorado River Basin Water Board, or an authorized representative, upon presentation of credentials and other documents, as may be required by law, to:
 - a. Enter upon the premises regulated by these, or the place where records must be kept under the conditions of these WDRs;
 - b. Have access to and copy, at reasonable times, any records that shall be kept under the condition of this Board Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under these WDRs; and
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with these WDRs or as otherwise authorized by the California Water Code, any substances or parameters at this location.
9. 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 these WDRs. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures.
10. The Discharger shall comply with the following:
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity;
 - b. The Discharger shall retain records of all monitoring information, copies of all reports required by these WDRs, and records of all data used to complete the application of the these WDRs, for a period of at least five years from the date of the sample, measurement, report or application. This period may be extended by the Colorado River Basin Water Board's Executive Officer at any time;
 - c. Records of monitoring information shall include:
 - i. The date, exact place(s), and time of sampling or measurement(s);
 - ii. The individual(s) who performed the sampling or measurement(s);
 - iii. The date(s) analyses were performed;
 - iv. The individual(s) responsible for reviewing the analyses;
 - v. The results of such analyses; and

- d. Monitoring must be conducted according to test procedures described in the Monitoring and Reporting Program, unless other test procedures have been approved by the Colorado River Basin Water Board's Executive Officer.
11. The Discharger is the responsible party for these WDRs, and the Monitoring and Reporting Program for the Facility. The Discharger shall comply with all conditions of these WDRs. Violations may result in enforcement action, including Colorado River Basin Water Board Orders or court orders that require corrective action or impose civil monetary liability, or modification or revocation of these WDRs by the Colorado River Basin Water Board's Executive Officer.
12. The Discharger shall furnish, under penalty of perjury, technical monitoring program reports, and such reports shall be submitted according to Chapter 30, Division 3, Title 23 of the California Code of Regulations, as data uploads and in Portable Document Format (PDF) electronically over the internet into the State Water Board's GeoTracker database. Documents that are normally mailed by the Discharger, such as regulatory documents, submissions, materials, data, and correspondence, to the Colorado River Basin Water Board shall be converted to Portable Document Format (PDF) and emailed to RB7-wdrs_paperless@waterboards.ca.gov. Within the subject line of the email cite "Wylie/LandDisposal/ImperialWellsGeothermal." Documents that are 50 MB or larger should be transferred to a disk and mailed to the Colorado River Basin Water board office in Palm Desert. The Facility is identified in the California Integrated Water Quality Systems (CIWQS) by WDID No. 7A130122001 and in the GeoTracker by the global identification number T10000005811.
13. The monitoring reports shall be certified to be true and correct, and signed, under penalty of perjury, by an authorized official of the company.
14. The Discharger's construction activity is subject to the Stormwater Construction General Permit (CGP), which became effective on July 1, 2010. To obtain coverage, the Discharger is required to electronically file Permit Registration Documents (PRDs), which includes a Notice of Intent (NOI) to be covered under the CGP, Storm Water Pollution Prevention Plan (SWPPP), and other compliance-related documents required by the CGP, and mail the appropriate permit fee to the State Water Resources Control Board (State Water Board).
15. These WDRs do not convey property rights of any sort, or any exclusive privileges; nor do they authorize injury to private property, invasion of personal rights, or infringement of federal, state, or local laws and regulations.
16. These WDRs may be modified, rescinded, or reissued for cause. The filing of a request by the Discharger to modify, or rescind or reissue these WDRs does not stay any WDR condition. Likewise, notification of planned changes or anticipated noncompliance does not stay any WDR condition. Causes for modification include: changes in land application plans, sludge use, or disposal practices; or promulgation of new regulations by the State Water Board or Colorado River Basin Water Board, including revisions to the Basin Plan.
17. Within thirty days of the adoption of these WDRs, the Discharger shall submit to the Colorado River Basin Water Board's Executive Officer a list of surface landowners (including responsible contact's names, addresses, and phone numbers) for all land containing existing or proposed facilities and/or appurtenances related to the operation

of this Project. This list will be used to contact responsible parties if corrective action measures become necessary due to a release of pollutants to the environment.

18. Pursuant to CCR Title 27, section 21710(d), any report submitted in compliance with CCR Title 27 and this Order, which proposes a design or design change that might affect containment features, erosion and drainage control systems or monitoring systems, shall be approved by a civil engineer or a certified engineering geologist appropriately licensed by the State of California. The Discharger shall provide documentation that plans and reports required under this M&RP are prepared by or under the direction of, appropriately qualified professionals. CCR Title 27, sections 20324(b) and 21090(b)(1)(C); and the California Business and Professions Code sections 6735, 7835, and 7835.1 require that engineering and geologic evaluations and judgments be performed by or under the direction of licensed professionals. A statement of qualifications and license numbers of the responsible lead professionals shall be included in all plans and reports submitted by the Discharger. The lead professional shall sign and affix their license stamp to the report, plan or document.

I, Robert Perdue, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on September 18, 2014.



ROBERT PERDUE
Executive Officer