

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

ORDER R7-2014-0053

WASTE DISCHARGE REQUIREMENTS
FOR HI-GRADE MATERIALS COMPANY, OWNER/OPERATOR
SAND AND GRAVEL PLANT
WASHWATER INFILTRATION/EVAPORATION BASIN DISPOSAL FACILITIES

East of Twentynine Palms – San Bernardino County

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

1. Hi-Grade Materials Company (Discharger), 17671 Bear Valley Road, Hesperia, CA, 92345 is the owner/operator of the sand and gravel plant washwater infiltration/evaporation basin disposal facilities (Facility) currently operating under Board Order R7-2003-0080, which was adopted November 5, 2003. The Facility was purchased from the previous owner, Granite Construction, by the Discharger in 2014. On March 20, 2014, change of ownership Order R7-2014-0030 was adopted by the Colorado River Basin Water Board, naming the Discharger as the new owner of the Facility.
2. The Discharger is discharging a maximum of 500,000 gallons-per-day of wastewater from a washer at a sand and gravel processing plant into three unlined evaporation/infiltration basins. The wastewater is recirculated for use in the washing operation.
3. The discharge site is located about six miles east of Twentynine Palms in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 31, T1N, R10E, San Bernardino Base and Meridian (SBB&M). The Facility address is 7541 Mojave Road, Twentynine Palms. The Vicinity Map is shown in Attachment A, incorporated herein and made a part of this Board Order by this reference. There are no "waters of the United States" in the vicinity of the Facility that could be affected by the discharge.
4. Water is supplied to the Facility from an on-site well located about 500 feet east of the infiltration basins. The water has a total dissolved solids (TDS) concentration of about 310 mg/L. However, due to a fluoride content of about 6.0 mg/L, which exceeds the California Drinking Water Standards maximum contaminant limit of 2.4 mg/L, the water is not acceptable for domestic purposes unless treated. Annual precipitation averages less than six inches-per-year.
5. The Water Quality Control Plan for the Colorado River Basin Region of California (Basin Plan), which was adopted on November 17, 1993, and amended on November 16, 2012, designates the beneficial uses of ground and surface waters in this Region, and contains implementation programs and policies to achieve objectives.
6. The Facility is located in the Dale Hydrologic Unit. The beneficial uses of ground waters in the Dale Hydrologic Unit are:

- a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
7. State Water Resources Control Board (State Water Board) Resolution 68-16, "Policy with respect to Maintaining High Quality Waters of the State," (hereinafter Resolution 68-16) requires a Regional Water Board in regulating the discharge of waste to maintain high quality water 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 as described in plans and policies (e.g. violation of any water quality objective). The discharge is required to meet WDRs that will result in the best practicable treatment or control of the discharge necessary to assure that pollution or nuisance will not occur and that highest water quality, consistent with maximum benefit to the people, will be maintained.
8. Some degradation of ground water from discharges to earthen settling basins is consistent with Resolution 68-16 provided degradation:
 - a. Is confined to a reasonable area;
 - b. Is minimized by means of full implementation, regular maintenance, and optimal operation of best practicable treatment and control (BPTC) measures;
 - c. Is limited to waste constituents typically encountered in aggregate wash operations (i.e., salts –TDS); and
 - d. Does not result in water quality less than that prescribed in the applicable basin plan, including violation of any water quality objective.
9. Ground water limits equal to water quality objectives for indicator waste constituents are appropriate as well as a more restrictive limit for TDS in groundwater than that prescribed by Title 22, CCR. The proposed aggregate washing Facility contributes to economic development in the area. This factor and the associated increase in TDS are consistent with maximum benefit to the people of the State. Accordingly, the discharge as authorized is consistent with the anti-degradation provisions of Resolution 68-16.
10. The Colorado River Basin Water Board has notified the Discharger and all known interested agencies and persons of its intent to adopt revised Waste Discharge Requirements (WDRs) for said discharge and has provided them with an opportunity for a public meeting and an opportunity to submit comments.
11. The Colorado River Basin Water Board in a public meeting heard and considered all comments pertaining to this discharge.
12. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these WDRs, which govern the operation of an existing Facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.).
13. 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.

IT IS HEREBY ORDERED, that Board Order R7-2003-0080 is rescinded upon the effective date of this Order, except for enforcement purposes, and 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. Prohibitions

1. The discharge or deposit of hazardous or designated wastes (as defined in Chapter 15, Title 23, California Code of Regulations) at this Facility is prohibited.
2. The discharge shall not cause degradation of any water supply.
3. The direct discharge of any wastewater to any surface waters or surface drainage courses is prohibited.
4. The discharge of waste to land not owned or controlled by the Discharger is prohibited.
5. There shall be no surface flow of wastewater away from the designated disposal areas.

B. 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. The increase in concentration of TDS in the wastewater discharged to the evaporation/percolation ponds over that contained in the water supply to the community shall not exceed 400 mg/L.
3. Treated or untreated sludge, or similar solid waste materials, shall be disposed of only at locations approved by the Colorado River Basin Water Board's Executive Officer.
4. The Discharger shall accurately characterize the waste to determine appropriate location of discharge.
5. Discharge into the unlined basins shall cease in event of any failure in the disposal system which threatens beneficial water uses.
6. The Discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
7. Wastewater volume discharged at this Facility shall not exceed 500,000 gallons-per-day.

8. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.
9. A minimum depth of freeboard of two feet shall be maintained at all times in the basins.

C. Provisions

1. The Discharger shall use the best practicable control techniques to limit TDS concentration to not exceed the limit in Specification B.2 of this Order.
2. Prior to any modifications in this Facility which would result in material change in the quality or quantity of wastewater treated or discharged, or any material change in the location of discharge, the Discharger shall report all pertinent information in writing to the Colorado River Basin Water Board; and obtain revised requirements before any modifications are implemented.
3. Prior to any change in ownership or management of this operation, the Discharger shall transmit a copy of this Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Colorado River Basin Water Board. The Discharger may be required to submit technical reports as directed by the Colorado River Basin Water Board's Executive Officer.
4. The Discharger shall comply with Monitoring and Reporting Program R7-2014-0053, and future revisions thereto, as specified by the Colorado River Basin Water Board's Executive Officer, and such compliance shall be in accordance 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, including all calibration and maintenance records for a period of at least five years from the date of the sample, measurement and report. This period may be extended by request from the Colorado River Basin Water Board's Executive Officer at any time.
 - c. Records of monitoring information shall include:
 - 1) The date, exact place, and time of sampling or measurements
 - 2) The individual(s) who performed the sampling or measurements
 - 3) The date(s) when analyses were performed
 - 4) The individual(s) who performed the analyses
 - 5) The results of such analyses
5. Sample collection, storage, and analysis shall be performed according to the most recent version of Standard USEPA methods, and California ELAP rulings. Water and waste analysis shall be performed by a laboratory approved for these analyses by the Environmental Laboratory Accreditation Program, Division of Drinking Water, State Water Resources Control Board. Specific methods of analysis must be identified. If

methods other than USEPA-approved methods or Standard Methods are used, the exact methodology must be submitted for review and approval by the Colorado River Basin Water Board's Executive Officer prior to use.

6. The Discharger shall ensure that all site operating personnel are familiar with the content of this Order, and shall maintain a copy of this Order at the site.
7. The Discharger shall allow the Colorado River Basin Water Board's Executive Officer, or his/her authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the Discharger's premises where a regulated Facility or activity is located or conducted, including reclaimed water treatment or discharge facilities, sludge use and disposal activities, or facilities where records must be kept under the conditions of this Order.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the same conditions of this Order. Inspect and sample or monitor, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order, including reclaimed water treatment, discharge, sludge use or disposal sites.
8. One year prior to the anticipated closure of the basins, the Discharger shall submit to the Colorado River Basin Water Board a closure plan for review and approval by the Colorado River Basin Water Board's Executive Officer.
9. Upon abandonment of this Facility or as required, residual solids shall be removed from the basins and discharged at a disposal Facility approved by the Colorado River Basin Water Board's Executive Officer.
10. By January 15, 2015, the Discharger shall provide an inventory of all hazardous materials which will be handled at the Facility.
11. The Discharger is the responsible party for the 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 actions, including Colorado River Basin Water Board Orders or court orders, requiring corrective action or imposing civil monetary liability, or in modification or revocation of these WDRs by the Colorado River Basin Water Board.
12. The Discharger shall report any noncompliance that may endanger human health or the environment. Any such information shall be provided verbally to the Colorado River Basin Water Board's Executive Officer within 24 hours from the time the Discharger becomes aware of the circumstances. A written submittal shall also be provided within five days of the time the Discharger becomes aware of the circumstances. The written submittal shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; and if the noncompliance has not been corrected, the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate, and prevent recurrence of the

noncompliance. The Colorado River Basin Water Board's Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis, if the oral report has been received within 24 hours.

13. This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for an Order modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. Causes for modification include the promulgation of new regulations, modification of land application plans, or modification in sludge use or disposal practices, or adoption of new regulations by the State Board or the Colorado River Basin Regional Board, including revisions to the Basin Plan.
14. The Discharger shall furnish, under penalty of perjury, technical monitoring program reports, and such reports shall be submitted in accordance with the specifications prepared by the Colorado River Basin Water Board Executive Officer and in Monitoring and Reporting Program R7-2014-0053. Such specifications are subject to periodic revisions as may be warranted. Documents that are normally sent via mail by the Discharger, such as regulatory reports, documents, submissions, materials, data, and correspondence, to the Colorado River Basin Water Board shall be converted to Portable Document Format (PDF) or other appropriate Microsoft application, such as Excel, 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 sent mailed to the Colorado River Basin Water Board office in Palm Desert. The Facility is identified in the California Integrated Water Quality Systems (CWIQS) by WDID 7A362213001.

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