

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. R4-2014-0xxx

WASTE DISCHARGE REQUIREMENTS

For

VULCAN MATERIALS COMPANY

Sun Valley Landfill

(File No. 82-031)

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

1. CalMat Properties Company, doing business as Vulcan Materials Company (Discharger), owns and operates the Sun Valley Landfill (Landfill) located at 9436 Glenoaks Boulevard, Sun Valley, California. The Landfill is bounded by Glenoaks Boulevard on the south west, Sheldon Street on the north west, Dronfield Avenue on the north east, and Peoria Street on the south east (Figure 1). The Landfill occupies a former gravel mining pit of approximately 125 acres that is centered at approximate latitude 34°14'29"N and longitude 118°22'41"W (Figure 2).
2. The former mining pit (mining ceased in 1995) has a surrounding surface elevation grading north to south of 935 to 910 feet above mean sea level (amsl) and the lowest point within the pit is at about ~~820~~ 810 feet amsl.
3. On September 27, 1982, the Regional Board adopted Order No. 82-72 that includes waste discharge requirements (WDRs) for the discharge of inert solid wastes for the Landfill that were concurrent with the mining of aggregate materials. On December 4, 1995, the Regional Board adopted Order No. 95-161 that includes revised WDRs for the discharge of inert solid wastes for the reclamation of the Landfill and to add a monitoring and reporting program. Waste fill placed at the Landfill is non-water soluble, non-decomposable inert solids of the following nature: earth, rock, gravel, concrete, glass, bricks, broken asphalt, and inert aggregate mining wastes.
4. Prior to adoption of the WDRs on December 4, 1995, the capacity of the Landfill was estimated at approximately 18 million ~~cubic yards~~ tons with an expected operation of 22 years based on a loading rate of 3,750 ~~cubic yards~~ tons per day. The most recent evaluation of the operations in March 2014 indicates that the Landfill has approximately 9.9 million cubic yards of capacity left, which will be filled over an anticipated period of 7 to 15 years.
5. Section 20230(a) of title 27, California Code of Regulations (27 CCR), provides that "*Inert waste is that subset of solid waste that does not contain hazardous waste or soluble pollutants at concentrations in excess of applicable water quality objectives, and does not contain significant quantities of decomposable waste.*"

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6. Section 20230(c) of 27 CCR provides that the Regional Board can prescribe individual or general WDRs for discharges of inert wastes.
7. California Water Code (CWC) section 13263 (e) provides that all WDRs shall be reviewed periodically and, upon such review, may be revised by the Regional Board to comply with changing state or federal laws, regulations, policies, or guidelines. This Order revises the WDRs for the Landfill to include updated requirements and describe current site conditions. The Discharger has submitted to the Regional Board a revised report of waste discharger (ROWD) in accordance with the CWC, dated July 7, 2014, to facilitate the revision of the WDRs.
8. In October 1980 an environmental impact report (EIR) for the Landfill was prepared by Westec Services Inc. on behalf of the Discharger. The EIR was approved by the Los Angeles City Planning Department on May 11, 1982. The EIR determined that the proposed landfilling of inert wastes at the site would not adversely impact groundwater and therefore, groundwater monitoring wells were not needed.
9. The Discharger submitted ~~and initiated~~ a solid waste water quality assessment test (SWAT) report in July 1988 and a SWAT supplement dated June 1989 for the Landfill to the Regional Board. In May 1988, as part of the ~~proposed~~ SWAT, the Discharger installed one downgradient monitoring well (4925) along Peoria Avenue near Glenoaks Boulevard. ~~In June 2000 up gradient well 4914G had gone dry and was replaced with a new up gradient well 4915H.~~ The SWAT determined that the Landfill does not pose a threat to groundwater. The Regional Board approved the SWAT on June 4, 1992. In June 2000, up gradient well 4914G had gone dry and was replaced with a new up gradient well 4915H.
10. In September 1989, the Discharger prepared a report of disposal site information (RDSI) as an update for operations and monitoring at the Landfill. The RDSI findings indicate that there had been no changes in the waste management unit design and that operations at the Landfill were in compliance with Order 82-~~031~~72, associated permits, and 1988 SWAT report. The remaining capacity of the Landfill was estimated to be 25 million tons (approximately 19.5 cubic yards) with a remaining life of 25 years. The mining operations were still active at this time and anticipated to finish by 1995. The 1989 RDSI was approved by the Regional Board in June 1992.
11. In November 2004, the Discharger prepared an updated Inert Debris Engineered Fill Operations (IDEFO)¹ Plan for the City of Los Angeles in order to comply with changes in State waste disposal regulations. In January 2012, the Discharger prepared an updated IDEFO Plan for the City of Los Angeles in order to comply with changes to local zoning

¹ Title 14 of California Code of Regulations (14 CCR), Chapter 3, Article 5.95, Section 17388 (l) defines that "Inert Debris Engineered Fill Operation" means a disposal activity exceeding one year in duration in which fully cured asphalt, uncontaminated concrete (including steel reinforcing rods embedded in the concrete), brick, ceramics, clay and clay products, which may be mixed with rock and soil, are spread on land in lifts and compacted under controlled conditions to achieve a uniform and dense mass which is capable of supporting structural loading as necessary, and having other characteristics appropriate for an end use approved by all governmental agencies having jurisdiction (e.g., roads, building sites, or other improvements) where an engineered fill is required to facilitate productive use of the land. The engineered fill shall be constructed and compacted in accordance with all applicable laws and ordinances and shall be certified by a Civil Engineer, Certified Engineering Geologist, or similar professional licensed by the State of California.

regulations that allow for an increase in daily tonnage of accepted materials in the case of a government-declared emergency, nighttime dumping for transportation agency contracts, and to allow recycling of inert materials (concrete, asphalt, and asphalt shingles). Operating the Landfill as a IDEFO site is consistent with the goal of this Order.

12. The Landfill is located within the Hansen subarea of the San Fernando Valley Basin near the northeastern tip of the Verdugo Mountains. The local topography around the Landfill is generally flat with an approximate slope from north to south of one percent. The Hansen subarea is underlain, from youngest to oldest, by Holocene Alluvium, Pleistocene Alluvium, Miocene sedimentary formations, and Pre-Cretaceous crystalline and metamorphic rocks.
13. The Hansen subarea is bounded by the Hansen dam to the north, the Verdugo Mountains to the east and southeast, and by the Verdugo Fault to the west and south west. Groundwater occurs within Pleistocene alluvium with a hydraulic conductivity up to 900 gallons per day per square foot (gpd/ft²), or 4.2×10^{-2} centimeters per second (cm/s) from aquifer tests. The historical groundwater flow direction is northwest to southeast. Groundwater levels in this area are strongly influenced by the Hansen Dam Spreading Grounds about 3,000 feet to the northwest, but are also influenced by precipitation, underflow from Hanson Dam, pumping from local industrial wells, and outflow from the Main San Fernando Basin.
14. In 2005, groundwater elevation was reported to have reach a recorded high at the up-gradient monitoring well (Well 4915H) to be approximately 780 feet amsl (approximately 30 feet below the lowest known point of the Landfill). Groundwater elevations have typically varied from 645 feet amsl to 730 feet amsl.
15. Groundwater monitoring has been conducted at the site since the adoption of Order No. 95-161 on December 4, 1995. Nitrate and Tetrachloroethene (PCE) were briefly detected in the first semi-annual groundwater monitoring period of 2003. The Discharger submitted a report on August 6, 2004, that determined that the Landfill was not the cause of the pollutants detected. No other constituents of concern have been detected above drinking water standards. This Order requires the addition of one more groundwater monitoring point for the Landfill for the measurement of groundwater elevation only, so that an accurate groundwater gradient can be established.
16. The Landfill is not within a 100-year flood plain hazard zone as defined by the Federal Emergency Management Agency (FEMA) and falls within the FEMA Zone C designation or “zone of minimal flooding”. In addition, Hansen Dam, located one-half mile north of the Site, provides 100-year washout protection.
17. The Landfill is subject to reclamation as required by the State Surface Mining and Reclamation Act of 1975 (SMARA) (Public Resources Code § 2710 et seq.). The requirements in this Order, as they are met, are in conformance with the requirements of SMARA.
18. The land uses in the vicinity of the Landfill are the following types: commercial, and industrial, residential, and recreational. At this time the Discharger has not proposed any post-closure land use for the site following the completion of fill activities.

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19. Until recently, operations of the Landfill have included infiltration of aggregate wash water from the adjacent gravel mining operations to the north-west at an unlined pond in the north east corner of the Landfill, operated under industrial waste water permit number W-28036 issued by the Los Angeles Department of Public Works. The wash water pond is located in a portion of the Landfill that has not received wastes.
20. All surface runoff is 100% contained onsite. All storm water infiltrates the unpaved site.
21. On June 13, 1994, this Regional Board adopted a revised *Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties* (Basin Plan). The Basin Plan (including its subsequent amendments) designates the following beneficial uses for groundwater within the San Fernando Valley Basin: municipal and domestic supply, agricultural supply, industrial process supply, and industrial service supply. The requirements in this Order, as they are met, are in conformance with the goals of the Basin Plan.

The Regional Board has notified the Discharger and interested agencies and persons of its intent to adopt WDRs for this disposal of waste to land, and has provided interested persons with an opportunity to submit their written views and recommendations.

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge and to the tentative requirements.

IT IS HEREBY ORDERED, that the Discharger shall comply with the following at the Landfill:

A. Acceptable Materials:

1. Wastes disposed of at the Landfill shall be limited to inert wastes as defined in 27 CCR, section 20230(a), including but not limited to: native geological materials (such as clay, silt, gravel, etc.) and materials that are acceptable at an Inert Debris Engineered Fill Operations as defined in Section 17388(l) of 14 CCR, including uncontaminated concrete, crushed glass, bricks, ceramics, clay and clay products, rock and clean soil, and fully cured asphalt.
2. The Discharger shall remove and relocate to a legal point of disposal any wastes that are discharged in violation of the requirements of this Order. For the purpose of these requirements, a legal point of disposal is defined as one for which WDRs have been established by a California regional water quality control board, and is in full compliance therewith. In the event that the Discharger opts for a legal point of disposal outside the State of California, the legal point of disposal means a facility that is lawfully permitted under applicable state and federal laws to receive the type of waste improperly disposed of at the site.

B. Prohibitions:

1. No hazardous wastes, designated wastes, tires, or liquid wastes shall be deposited at the Landfill.

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2. Non-hazardous solid wastes (decomposable organic refuse such as, but not necessarily limited to, ordinary household and commercial refuse, tin cans, metals, paper and paper products, plasterboard, cloth and clothing, wood and wood products, lawn clippings, sod, shrubbery, hair, hide, bones, dead animals, roofing paper, tar paper, unquenched ashes mixed with refuse, market refuse, garbage, etc.) shall not be deposited at the Landfill.
3. Materials of a toxic nature such as insecticides and poisons shall not be deposited at the Landfill.
4. No radioactive material as determined by a regulatory agency with jurisdictional authority shall be deposited at the Landfill.
5. No asbestos or asbestos products shall be deposited at the Landfill.
6. Erosion of deposited materials by surface flow shall be prevented.
7. Neither the discharge nor any treatment of wastes shall cause pollution or nuisance.
8. No chemical additives shall be used at the Landfill unless such use is approved by the Executive Officer in advance.

C. Groundwater Monitoring:

1. Within 90 days of the adoption of this Order, the Discharger shall submit a report to the Regional Board, for approval of the Executive Officer, providing information for the addition of one more groundwater monitoring points for the Landfill, for the measurement of groundwater elevation only, so that an accurate groundwater gradient can be established. If an existing groundwater monitoring point is not available within a reasonable distance for determining groundwater gradient, the Discharger shall propose the installation of a new groundwater monitoring point pursuant to section C.6 of this Order.
2. The Discharger shall implement the attached Monitoring and Reporting Program (MRP) No. CI-6642, and revisions thereto, which is incorporated herein by reference, in order to detect, at the earliest opportunity, any unauthorized discharge of waste constituents from the Landfill or any unreasonable impairment of beneficial uses associated with (or caused by) discharge of wastes from the Landfill. MRP No. CI-6642 is designed to satisfy both federal and state regulatory monitoring requirements.
3. At any time, the Discharger may file a written request, including appropriate supporting documents, with the Executive Officer, proposing modifications to MRP No. CI-6642. The Discharger shall implement any changes in the revised MRP approved by the Executive Officer upon receipt of a signed copy of the revised MRP.
4. Unless otherwise approved by the Executive Officer, all analyses shall be conducted at a laboratory certified by the State Water Resources Control Board (State Board), Division

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- of Drinking Water (DDW). All analyses shall be conducted in accordance with the latest edition of "*Test Methods for Evaluating Physical/Chemical Methods*" (SW-846) promulgated by the United States Environmental Protection Agency.
5. The Discharger shall provide for proper handling and disposal of water purged from monitoring wells at the Landfill during sampling. Water purged from a monitoring well shall not be returned to that well (or any other monitoring well).
 6. For any monitoring points installed at the Landfill in the future, the Discharger shall submit technical reports for approval by the Executive Officer prior to installation. These technical reports shall be submitted at least 60 days prior to the anticipated date of installation of the wells. These reports shall be accompanied by:
 - a. A map depicting the locations of the groundwater monitoring points and a rationale for their number, depths, and spatial distribution.
 - b. Drawings and data depicting construction details of the proposed groundwater monitoring network. These must include:
 - casing, borehole diameters and methods of drilling;
 - casing materials to be used;
 - depth of each borehole;
 - size, length, and position of screen;
 - method of joining sections of casing;
 - nature and emplacement of filter pack and rationale for them;
 - depth, composition, and emplacement of seals; and
 - method and timetable for well development.
- Within 30 days of the installation of a groundwater monitoring well (or monitoring point) at the Landfill, the Discharger shall submit an as-built report to the Regional Board and the California Department of Water Resources (DWR), including delineation of the stratigraphy encountered, all water bearing zone(s) encountered and water quality data.
7. As of the effective date of this Order, the compliance monitoring points at the Landfill shall consist of those wells listed in section II.B of the MRP. All monitoring points shall be monitored pursuant to this Order or as directed by the Executive Officer through future revisions of the MRP
 8. The Discharger shall install any additional groundwater, soil pore liquid, soil pore gas, or leachate monitoring devices necessary to comply with the MRP, as adopted or as revised by the Executive Officer.
 9. The point of compliance (POC) for groundwater monitoring for the Landfill is a vertical surface located at the hydraulically downgradient limit of the Landfill that extends through the uppermost aquifer underlying the Landfill pursuant to 27 CCR section 20405(a).

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D. Water Quality Protection Standards:

1. In accordance with the Basin Plan, the following groundwater quality protection standards are established for the Landfill:

Parameter	Units	Water Quality Protection Standard*
Total dissolved solids	mg/L	700
Sulfate	mg/L	300
Chloride	mg/L	100
Nitrate (as NO ₃)	mg/l	45
Boron	mg/L	1.5
pH	pH unit	6.5 - 8.5

* Based on the water quality objectives in the Basin Plan for the Hansen subarea of the San Fernando Valley Groundwater Basin.

2. Groundwater protection standards for other inorganic and organic pollutants for the site are the MCLs adopted by the State Board DDW pursuant to the California Safe Drinking Water Act, or subsequent revisions.
3. Water Quality Protection Standards may be modified by the Regional Board based on more recent and/or more complete groundwater monitoring data, changes in background water quality, or for any other valid reason. The points of compliance of groundwater protection standards for the Landfill shall be the downgradient groundwater monitoring points established in the MRP No. CI 6642, which is incorporated herein by reference.

F. Provisions:

1. The Discharger shall take any and all necessary measures to prevent unauthorized disposal of wastes at the Landfill by instituting a load-checking program. An updated load-checking program shall be submitted to the Regional Board within 90 days of the adoption of this Order. As a minimum, the load-checking program shall include the following:
 - a. A computerized waste-tracking system that, for each load of waste, records at least the following information: the hauler's name, type of material, the source where the waste was generated, and the general area at the Landfill where the waste is disposed of;
 - b. A surveillance system that includes visual and instrumental inspections of each load of waste and questioning the hauler if necessary;
 - c. A training and education program for all landfill employees concerning acceptable and unacceptable materials as provided in this Order; and

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- d. In addition to regular load-checking activities at the Landfill, for any project that involves the generation of more than 1,000 cubic yards of wastes from a single site during a calendar year, the Discharger shall require the generator and/or hauler of the wastes, before discharge the wastes to the Landfill, to provide background information, including laboratory analytical data and environmental assessment reports (if available), to ensure that the wastes are not contaminated. Such information shall be documented and included in the quarterly reports required in the MRP.
3. The Discharger shall furnish, under penalty of perjury, technical or monitoring program reports in accordance with CWC section 13267. Failure or refusal to furnish these reports or falsifying any information provided therein renders the Discharger guilty of a misdemeanor and subject to the penalties stated in CWC section 13268. Monitoring reports shall be submitted in accordance with the specifications contained in the MRP, as directed by the Executive Officer. Additionally, monitoring reports shall be prepared and signed by a California professional civil engineer or professional geologist. The MRP is subject to periodic revisions as warranted and approved by the Executive Officer.
4. The Discharger shall use the statistical procedures contained in 27 CCR section 20415(e)(7), to determine if there is a statistically significant increase for any background indicator parameter. Upon approval of the Executive Officer, alternative statistical procedures may be used.
5. In the event that a statistically significant increase is observed for any background indicator parameter, the Discharger shall establish an evaluation program in accordance with 27 CCR section 20425, unless such a program has already been submitted.
6. If evaluation monitoring determines that there is a statistically significant increase of any background indicator parameter that is resulted by the discharge of waste at the Landfill, then the Discharger shall institute a corrective action monitoring program in accordance with 27 CCR section 20430.
7. If the Discharger becomes aware that it failed to submit any relevant facts in any report to the Regional Board, it shall submit such facts or information within fourteen days of its discovery of the omission.
8. All applications, reports, or information submitted to the Regional Board shall be signed and certified as follows:
 - a. Applications, ROWDs, or similar documents shall be signed as follows:
 - i. For a corporation - by a principal executive officer of at least the level of vice-president.
 - ii. For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.

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- iii. For a municipality, state, federal or other public agency - by either a principal executive officer or ranking elected official.
 - iv. For a military installation - by the base commander or the person with overall responsibility for environmental matters in that branch of the military.
- b. All other reports required by this Order and other information required by the Executive Officer shall be signed by a person designated in paragraph [a] of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if:
- i. The authorization is made in writing by a person described in paragraph [a] of this provision;
 - ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and
 - iii. The written authorization is submitted to the Executive Officer.
- c. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- 9. The Discharger shall maintain copies of this Order at the Landfill so as to be available at all times to personnel operating the Landfill.
- 10. The Discharger shall file with this Regional Board a report of any material change or proposed change in the character, location, boundaries or quantity of this waste discharge at least 120 days prior to the date of such proposed change.
- 11. The Regional Board shall be notified of any incident at the Landfill that are in violation of this Order and that may endanger the environment, by telephone within 24 hours from the time the Discharger becomes aware of the circumstances, and in writing within 14 days of the time that the Discharger becomes aware of the circumstances. The written notification shall fully describe the incident including what occurred, when it occurred, the duration of the incident, when correction occurred (or when correction will occur if it is a continuing incident), and the steps taken or planned to reduce, eliminate, and/or prevent recurrence of the incident. All instances of noncompliance with this Order shall also be reported to the Regional Board in the same manner as stated above, and shall also be included in the next scheduled monitoring report.

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12. Within thirty (30) days of any change in name of operator or in control or ownership of land or waste disposal facilities owned or controlled by the Discharger, the Discharger shall:
 - a. Notify this Regional Board in writing of such a change; and
 - b. Notify the succeeding owner or operator by letter, a copy of which shall be filed with this Regional Board, of the existence of this Order.
13. Ninety (90) days prior to cessation of disposal operations at this Landfill, the Discharger shall submit a technical report to the Regional Board describing the methods and controls to be used to assure protection of the quality of receiving waters during final operations and with any proposed subsequent use of the land. Such methods and controls shall comply with the foregoing technical report and the WDRs. The report shall be prepared under the direct supervision of a California registered geologist or professional civil engineer, or a California-certified engineering geologist.
14. This Regional Board considers the Discharger to have continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to the Landfill during subsequent use of the land for other purposes.
15. These requirements do not exempt the Discharger from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this waste disposal facility, and they leave unaffected any further restraint on the disposal of wastes at the Landfill which may be contained in other statutes or required by other agencies.
16. In accordance with CWC section 13263(g), these requirements shall not create a vested right to continue to discharge and are subject to rescission or modification. All discharges of waste into the waters of the State are privileges, not rights.
17. The Discharger shall comply with all conditions of this Order and any additional conditions prescribed by the Regional Board in addenda thereto. Noncompliance with this Order constitutes a violation of the CWC and is grounds for:
 - a. enforcement action;
 - b. termination, revocation and re-issuance, or modification of this Order;
 - c. denial of a ROWD in application for new or revised WDRs; or
 - d. any combination of the foregoing.
16. Failure to comply with the terms and conditions of this Order may result in imposition of civil liability against the Discharger by this Regional Board, either by the Board or judicially by the Superior Court, in accordance with CWC section 13350 et. seq. and/or referral to the Attorney General of the State of California for such legal action as may be deemed appropriate.

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17. The Discharger shall furnish, within a reasonable time, any information the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Discharger shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order
18. This Order includes the attached “Standard Provisions Applicable to Waste Discharge Requirements” (Attachment “W”), which is incorporated herein by references. If there is any conflict between provisions stated hereinbefore and the attached “Standard Provisions Applicable to Waste Discharge Requirements”, those provisions attached hereinbefore prevail.
18. In accordance with CWC section 13263, these requirements are subject to periodic review and revision by this Regional Board.
19. The filing of a request by the Discharger for the modification, revocation and re-issuance, or termination of this Order or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
20. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.
21. Pursuant to section 13320 of CWC, any aggrieved party may seek review of this Order by filing a petition with the State Board. The petition must be received by the State Water Resources Control Board, P.O. Box 100, Sacramento, CA 95812, within 30 days of the date this Order is adopted.
22. This Order becomes effective on the date of adoption by this Regional Board.

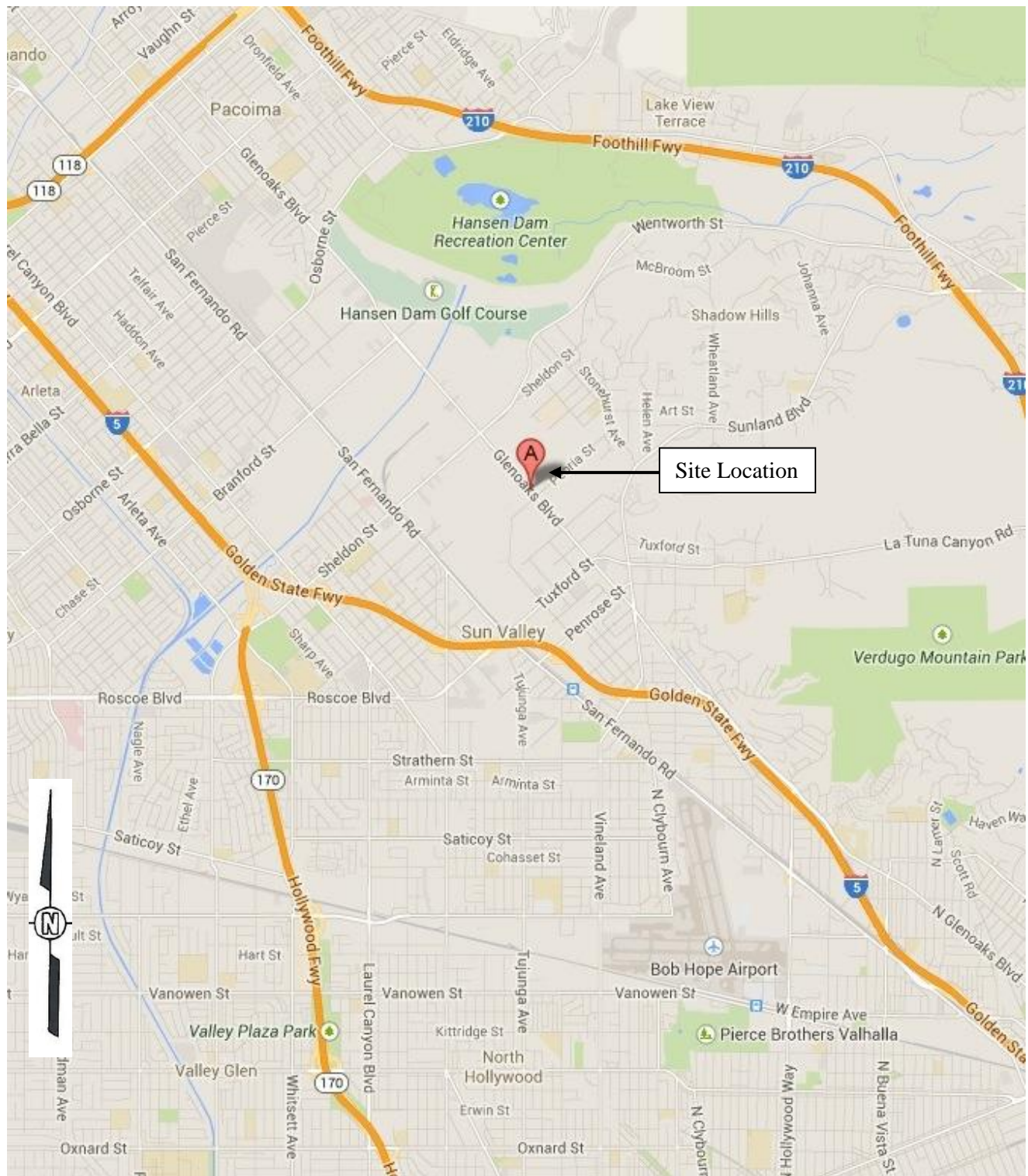
E. Termination

Except for violation enforcement purposes, Regional Board Order No. 95-161, adopted December 4, 1995, is hereby terminated.

I, Samuel Unger, P.E, 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 Control Board, Los Angeles Region on November 6, 2014.

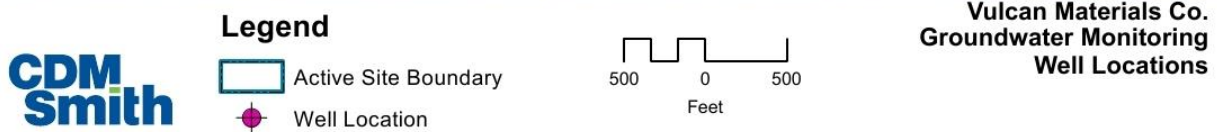
Samuel Unger, P.E
Executive Officer

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Site Location Map
Figure 1



Site Map with Well Locations
Figure 2

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