December 22, 2015

Mr. Michael Rogers, Operations Manager
Hanson Aggregates West
13550 Live Oak Avenue
Irwindale, CA 91706-1318

TENTATIVE WASTE DISCHARGE REQUIREMENTS – IRWINDALE QUARRY INERT LANDFILL, IRWINDALE, CALIFORNIA (FILE NO. 78-023, ORDER NO. 93-076, CI-6446, GEOTRACKER GLOBAL NO. L10009725579)

Dear Mr. Rogers:

Reference is made to a *Revised Application/Report of Waste Discharge*, dated October 7, 2015, that was submitted to this Regional Water Quality Control Board (Regional Board) by Hanson Aggregates LLL (Discharger) for the revision of Regional Board Order No. 93-016, that includes waste discharge requirements (WDRs) for the Irwindale Quarry Inert Landfill in Irwindale, California. In accordance with the California Water Code, we have prepared tentative WDRs for the site.

Enclosed are copies of the tentative WDRs, consisting of:

1. Board Order No. R4-2016-XXXX specifying WDRs,
2. Monitoring and Reporting Program (C I-6446), and
3. Standard Provisions Applicable to Waste Discharge Requirements

In accordance with administrative procedures, this Regional Board will consider the enclosed WDRs and comments thereon, at a public hearing to be held at 9:00 AM on **February 11, 2016**, at the Board Room, Metropolitan Water District of Southern California, at 700 North Alameda Street, Los Angeles, California. The Regional Board will hear any testimony pertinent to this discharge, the tentative requirements, and monitoring and reporting program. It is expected that the Regional Board will take action at the hearing; however, as testimony indicates, the Regional Board at its discretion may postpone action.

Also enclosed is a *Notice of Opportunity to Comment and Public Hearing.* Written comments regarding the tentative WDRs must be received at the Regional Board office by 5:00 PM on **January 18, 2016**. Comments received after this date will not be accepted into the record unless determined by the Chair of the Regional Board not to prejudice any party or the Regional Board.

The agenda for the meeting will be posted on the Regional Board's website (http://www.waterboards.ca.gov/losangeles/board_info/agenda/index.shtml) approximately one week prior to the meeting.

If you have any questions or need additional information, please contact me at (213) 620-2253 or wyang@waterboards.ca.gov.

Sincerely,

Wen Yang, Ph.D., C.E.G.
Chief of Land Disposal Unit

Enclosures:
1. Tentative WDRs Order No. R4-2016-XXXX
2. Tentative Monitoring and Reporting Program CI-6446
3. Standard Provisions Applicable to Waste Discharge Requirements
4. Notice of Opportunity to Comment and Public Hearing

cc: Leslie Graves, State Water Resource Control Board (Leslie.Graves@waterboards.ca.gov)
Shannon Hill, Cal Recycling (Shannon.Hill@calrecycle.ca.gov)
Gerardo Villalobos, Los Angeles County, DPH (gvillalobos@ph.lacounty.gov)
Tony Zampiello, Main San Gabriel Basin Watermaster (tony@watermaster.org)
William Tam, City of Irwindale (ktam@ci.irwindale.ca.us)
Steve Zacks, Lehigh Hanson West Region, Oxnard (Steve.Zacks@hanson.biz)

To: Interested Persons

From: Rebecca Chou, Ph.D., P.E.
Section Chief of Groundwater Permitting and Land Disposal

Date: December 22, 2015

Subject: **NOTICE OF OPPORTUNITY FOR PUBLIC COMMENT AND PUBLIC MEETING ON TENTATIVE WASTE DISCHARGE REQUIREMENTS FOR IRWINDALE QUARRY INERT LANDFILL**

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) will consider tentative Waste Discharge Requirements (WDRs) for the Irwindale Quarry Inert Landfill, owned by Hanson Aggregates LLC (Discharger), at 13550 Live Oak Avenue, Irwindale, California.

The Regional Board Meeting is scheduled as follows:

Date: February 11, 2016
Time: 9:00 a.m.
Place: Board Room, the Metropolitan Water District of Southern California 700 North Alameda Street Los Angeles, CA 90012

At the Regional Board Meeting, the public will have an opportunity to comment on the tentative WDRs and the tentative Monitoring and Reporting Program (MRP). Please note that the Regional Board may limit public comments to three (3) minutes each. Copies of the tentative WDRs and the tentative MRP can be obtained from the Regional Boards website at:

http://www.waterboards.ca.gov/losangeles/board_decisions/

Interested persons are encouraged to submit comments electronically. All written comments and evidence must be received by the Regional Board no later than 5:00 p.m. on **January 18, 2016.** Comments sent after that date/time will not be accepted into the record unless determined by the Chair not to prejudice any party or the Regional Board. Send comments by email to: Dr. Wen Yang at wyang@waterboards.ca.gov. Please indicate in the subject line, "Comment Letter - Tentative WDRs for Irwindale Quarry Inert Landfill." Written comments submitted through email are requested to be transmitted in Microsoft Word or PDF format. Written comments can also be sent via facsimile to (213) 576-5777 or by mail addressed to:

Dr. Wen Yang
California Regional Water Quality Control Board, Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Please contact Dr. Wen Yang at (213) 620-2253 for additional information.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. R4-2016-0xxx

WASTE DISCHARGE REQUIREMENTS
For
Hanson Aggregates LLC
Irwindale Quarry Inert Landfill
(File No. 78-023)

T E N T A T I V E

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

1. Hanson Aggregates LLC (Discharger), formerly known as Livingston-Graham, Inc., operates the Irwindale Quarry at 13550 Live Oak Avenue in the City of Irwindale, California. The facility is located to the west of the 605 Freeway, approximately 1,200 feet southwest of Live Oak Avenue, and is generally bounded by the Irwindale Speedway on the north, the San Gabriel River on the east, Peck Road Landfill on the west, and commercial, industrial, and residential uses on the south (Figure 1).

2. The Irwindale Quarry is a 492-acre sand and gravel mining facility that has been utilized for mining and processing of aggregate since 1909. Mining will end when the maximum permitted mining depth (0 feet above mean sea level, or approximately 350 feet below the surrounding grade elevation) is reached across the pit bottom or December 31, 2030, whichever occurs first. The Irwindale Quarry entitlements, which include a Development Agreement, Conditional Use Permit No. 10-05 ("CUP"), and a Mining/Processing Operations and Reclamation Plan (the "Reclamation Plan"), require the Discharger to backfill a portion of the Irwindale Quarry site, known as the "40-Acre Fill Area" (Landfill) with engineered fill to facilitate future subsequent commercial development. Reclamation backfilling is required to be completed with specified clean dirt and inert materials.

3. Historically, the Discharger has been permitted to discharge inert solid waste at the quarry under two sets of waste discharge requirements (WDRs) adopted by the Regional Board. Areas that have been used for waste disposal are illustrated in Figure 2. The Irwindale Plant Dump disposal area, which is located at the southernmost portion of the quarry within the City of Arcadia, was regulated under Order No. 71-17 adopted on June 21, 1971, and subsequently under Order No. 86-45 adopted on June 23, 1986. The Irwindale Dike disposal area, which is located to the northern portion of the facility, was regulated under Order No. 78-138 adopted on November 27, 1978, and subsequently under Order No. 86-40 adopted on June 23, 1986. On December 6, 1993, the Regional Board adopted Order No. 93-076 that included WDRs for all inert waste discharge activities at the facility and terminated Order Nos. 86-40 and 86-45.

4. In accordance with CUP No. 10-05 approved by the City of Irwindale on December 20, 2005, and the Reclamation Plan for the mining site, the Landfill will be backfilled to street level and developed with hotel and commercial uses. The reclaimed end-use of the entire mining facility will include a lake and recreational, commercial, and industrial land uses.

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.*"

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 included in Regional Board Order No. 93-076 to include updated requirements and describe current site conditions.

8. The Discharger has submitted to the Regional Board a revised Report of Waste Discharger (ROWD) in accordance with the CWC, dated October 7, 2015, to facilitate the revision of the WDRs.

9. The quarry overlies an aquifer that is a major source of drinking water in the Main San Gabriel Basin in the Los Angeles-San Gabriel Hydrologic Area. Aquifers within the basin are comprised primarily of coarse sand and gravel. The direction of groundwater flow at the Site is generally to the southwest and south.

10. Groundwater at the site has been exposed by the mining activities and formed a lake at the bottom of the mining pit. Currently, the extraction of aggregate materials is being conducted from both above groundwater level by conventional excavation and from under groundwater with dredging equipment.

11. Groundwater monitoring has been conducted at the site since 1986. A review of the monitoring data indicates that the groundwater quality at the site has not been adversely affected by mining or landfilling operations.

12. The quarry site is immediately surrounded by light and heavy manufacturing areas and active gravel pit operations. The nearest residential areas lie approximately 300 feet to the south. The Santa Fe Dam, a flood control structure, is approximately 5,000 feet to the northeast. The Landfill is in the vicinity of the San Gabriel River, which has been used for spreading groundwater for recharge purposes.

13. The site is not within a 100-year flood plain hazard zone as defined by the Federal Emergency Management Agency (FEMA) and is within the FEMA Zone C designation or "zone of minimal flooding".

14. The quarry site 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.

15. This Order requires the Discharger to take any and all necessary measures to protect water of the state during the inert waste disposal operations at the Landfill. The Discharger has submitted a revised Inert Fill Load Checking Program (LCP) for the Landfill, dated

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October 7, 2015, to prevent unauthorized wastes from being discharged at the Landfill. The LCP, which has been approved by the Executive Officer, includes procedures for material acceptance and tracking, load inspection, employee training, and large source verification.

16. On December 20, 2005, the City of Irwindale approved Resolution No. 2005-89-2106 that adopted technical guidelines for the backfilling of open-pit mines within the City, including: Guidelines for Stability Analyses of Open-pit Mine Slopes, Guidelines for Drainage and Erosion Control for Open-pit Mines, Guidelines for Underwater Backfilling of Open-Pit Mines, and Guidelines for Above-Water Backfilling of Open-Pit Mines. Reclamation backfilling of the quarry is subject to the guidelines.

17. Pursuant to section 402 (p) of the Clean Water Act (33 USC §1342(p)) and title 40 of the Code of Federal Regulations (40 CFR) parts 122, 123, and 124, the California State Water Resources Control Board (State Board) adopted a National Pollutant Discharge Elimination System (NPDES) General Permit to regulate storm water discharges associated with industrial activities in California (State Board Order 2014-0057-DWQ). Storm water runoff from the mining facility is currently regulated under the general NPDES permit (WDID No. 4 19I020379, Notice of Intent filed on June 22, 2015). The Discharger is implementing a Storm Water Pollution Prevention Plan (SWPPP) at the Site as required by the general NPDES permit.

18. 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 Main San Gabriel Basin: municipal and domestic supply, agricultural supply, industrial process supply, and industrial service supply. The requirements in this Order, as they are met, are consistent with the Basin Plan.

19. On December 20, 2005, the City of Irwindale, as the lead agency, certified an Environmental Impact Report (EIR, SCH No. 2003011084) pursuant to the California Environmental Quality Act (CEQA, Public Resource Code, Section 21000 et seq.) in connection with the review and approval of CUP No. 10-05 for the mining facility. The Regional Board is a responsible agency with respect to the WDRs. The revision of these WDRs does not result in expansion of the existing operations of the facility or new potentially significant impacts not previously considered in the EIR. Therefore, the Regional Board's renewal of existing WDRs for an existing facility that involves negligible or no expansion beyond the previously permitted activity is exempt from CEQA in accordance with the CEQA Guidelines, 14 Cal. Code Regs. §15301.

20. 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 written comments and make oral comments at a hearing..

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

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

A. Acceptable Materials:

1. Wastes disposed of at the Landfill shall be limited to inert wastes as proposed in the ROWD, including inert earth, rock, gravel, broken concrete, and inert mining wastes that are generated from on and offsite aggregate mining operations.

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.

3. Unless otherwise permitted by the Executive Officer, all waste disposal activities shall be within the 40-acre disposal area as illustrated in Figure 2.

B. Prohibitions:

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

2. No 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 be deposited at the Landfill.

3. No materials of a toxic nature such as insecticides and poisons shall 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.

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C. Groundwater Monitoring:

1. The Discharger shall implement the attached Monitoring and Reporting Program (MRP) No. CI-6446, 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-6446 is designed to satisfy both federal and state regulatory monitoring requirements.

2. At any time, the Discharger may file a written request, including appropriate supporting documents, with the Executive Officer, proposing modifications to MRP No. CI-6446. 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.

3. Unless otherwise approved by the Executive Officer, all analyses shall be conducted at a laboratory certified by the State Board, Division 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.

4. 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).

5. 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.

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6. 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

7. 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.

8. 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).

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	450
Sulfate	mg/L	300
Chloride	mg/L	100
Nitrate (as NO_3)	mg/l	45
Boron	mg/L	1.5

* Based on the water quality objectives in the Basin Plan for the western area of the Main San Gabriel Basin

2. Groundwater protection standards for other inorganic and organic pollutants for the site are the water quality objectives to protect the beneficial uses, including MCLs, promulgated in Title 22 of California Code of Regulations and incorporated into the Basin Plan by reference.

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-6446, which is incorporated herein by reference.

E. Provisions:

1. The Discharger shall take any and all necessary measures to prevent unauthorized disposal of wastes at the Landfill. Such measure shall be included in a load checking program approved by the Executive Officer.

2. The Discharger shall furnish, under penalty of perjury, technical or monitoring program reports in accordance with CWC section 13267. Failure or refusal to furnish

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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 by, or under the supervision of, 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.
        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;

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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."

8. The Discharger shall maintain copies of this Order at the Landfill so as to be available at all times to personnel operating the Landfill.

9. 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.

10. 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.

11. 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.

12. 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.

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The report shall be prepared under the direct supervision of a California registered geologist or professional civil engineer, or a California-certified engineering geologist.

13. 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.

14. 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.

15. 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.

16. 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.

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.

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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. Any person aggrieved by this action of the Regional Board may petition the State Water Board to review the action in accordance with California Water Code (CWC) section 13320 and 23CCR section 2050 and following. The State Water Board must receive the petition by 5:00 p.m., thirty 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 or will be provided upon request.

22. This Order becomes effective on the date of adoption by this Regional Board.

F. Termination

Except for purposes of enforcement of violations,, Regional Board Order No. 93-076, adopted December 6, 1993, is hereby terminated.

I, Samuel Unger, 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 February 11, 2016.

_____
Samuel Unger, P.E
Executive Officer

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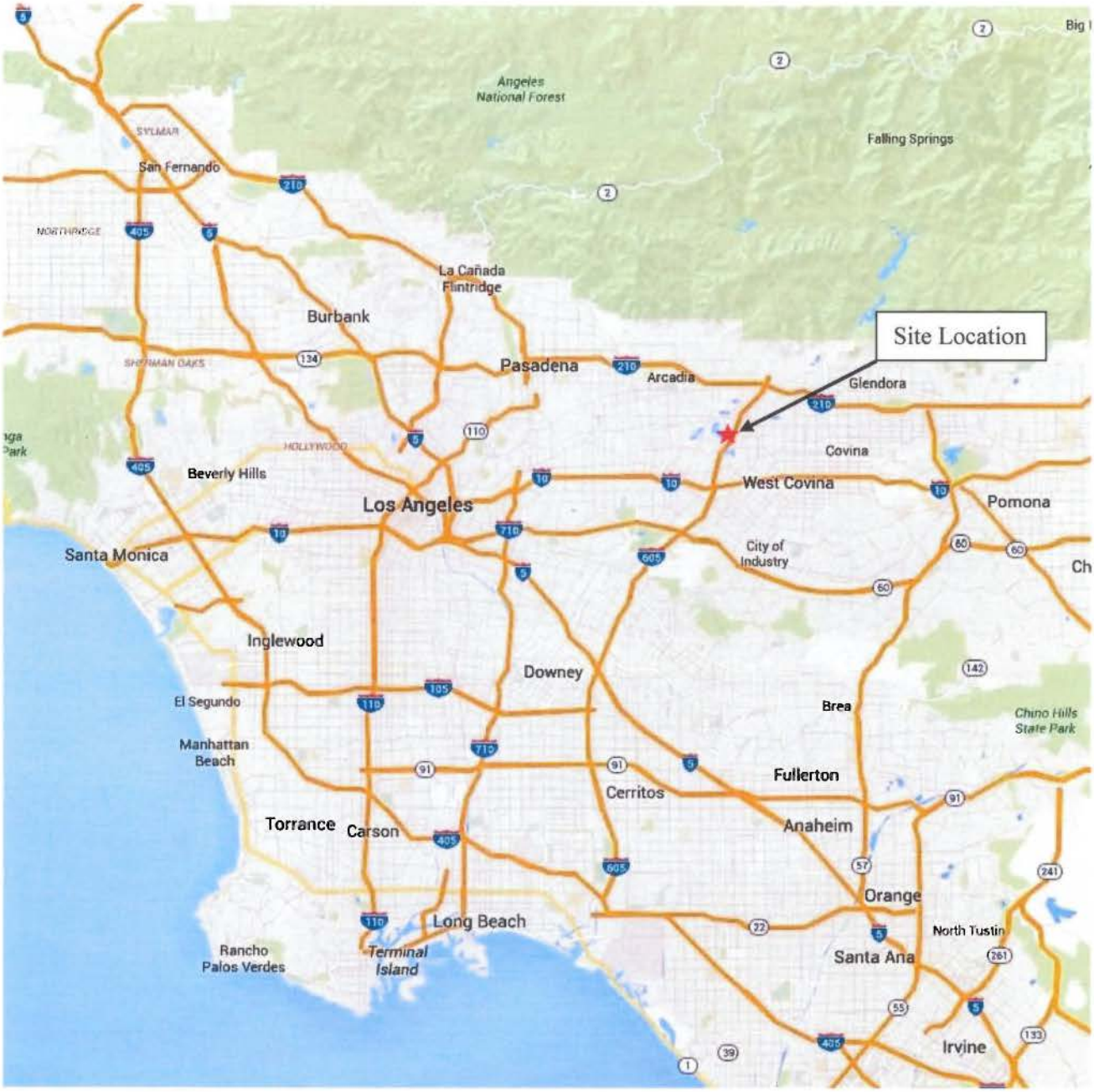

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Figure 1. Location Map

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Figure 2. Site Map

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. CI 6446
for
Hanson Aggregates LLC
Irwindale Quarry Inert Landfill
(File No. 78-023)

This Monitoring and Reporting Program (MRP, No. CI-6446) is issued by the California Regional Water Quality Control Board, Los Angeles Region (Regional Board) to Hasson Aggregates LLC (Discharger) for the Irwindale Quarry Inert Landfill (Landfill) pursuant to California Water Code (CWC) section 13267(b). This MRP is incorporated by reference into Regional Board Order No. **R4-2016-0xxx** (Order), adopted on February 11, 2016. The Discharger shall begin implementing this MRP following the adoption of the Order. This MRP is required to assure compliance with the conditions of the Order and is issued to the Discharger, which is the owner and operator of the Landfill. The first monitoring report under this program is due by August 15, 2016.

T E N T A T I V E

I. Reporting

A. Monitoring reports shall be submitted by the dates in the following schedule:

Reporting Period	Report Due
1st Semi-Annual Report (for the period from January 1 to June 30)	August 15
2nd Semi-Annual Report (for the period from July 1 to December 31)	February15

The semi-annual reports shall include both groundwater monitoring data as required in Section II and the waste disposal information as required in Section III of this MRP. The 2nd Semi-Annual report shall include an annual summary of the data obtained during the calendar year.

B. A transmittal letter that contains the essential points of the report shall accompany each report. Such a letter shall include a discussion of any violations found since the last such report was submitted, and shall describe actions taken or planned for correcting those violations. If the Discharger has previously submitted a detailed time schedule for correcting said violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the transmittal letter. Monitoring reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer at the level of vice president or above, or by his/her duly authorized representative, if such a representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall be signed and certified as required by Provision E.7 of the Order.

C. The Discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.

D. In the event that hazardous or other unacceptable wastes are detected, the Regional Board shall be notified by telephone or facsimile within 24 hours and by writing within 7 days. The type, source, and final disposition of those wastes shall also be reported.

E. If the Discharger performs analyses for any parameter more frequently than required by this MRP, using approved analytical methods, the results shall be included in the monitoring report.

F. The Discharger may submit additional data to the Regional Board that are not required by this MRP in order to simplify reporting to other agencies.

G. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation, and copies of all data submitted to regulatory agencies, for a period of at least five years. This period may be extended by request of the Regional Board at any time, and shall be extended during the course of any unresolved litigation regarding all or any part of the entire Landfill.

H. The reporting period and the compliance file number (CI-6446) must be clearly displayed on the title page to facilitate routing to the appropriate staff and file.

I. Unless it is otherwise required by the Executive Officer, all reports required under this MRP shall be submitted to the State Water Resources Control Board (State Board) Geotracker database system in the form of searchable Portable Document Format (PDF) files. In addition, any groundwater monitoring data shall also be submitted to Geotracker in Electronic Deliverable Format (EDF). A hard copy of the report, including all original laboratory reports and field records that are used in preparation of the reports, must be kept in the Landfill's Operating Record and be available for review by Regional Board staff.

II. Water Quality Monitoring

A. The groundwater monitoring network of the Landfill shall include monitoring wells 1S/11W-01H (upgradient),1S/11W-12C01 (down gradient), and 1S/11W-11C04 (down gradient) and a surface sampling point for the exposed groundwater in the mining quarry, at a location down gradient and as close as practical to the 40 acre Landfill area (Figure T-1). All groundwater monitoring points must be monitored semi-annually. The Executive Officer may require the Discharger to install additional groundwater monitoring points, including the installation of monitoring wells, with the progress of landfill operations at the Landfill.

B. All water samples shall be analyzed for the following constituents:

Parameter	Units
pH	pH units
Electrical conductivity	umhos/cm
Alkalinity	mg/l
Chemical oxygen demand	mg/l[1]
Total dissolved solids	mg/l
Total Hardness	mg/l
Chloride	mg/l

[1] ml/l = milligram per litter.

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Sulfate	mg/l
Nitrate (as NO_3)	mg/l
Boron	mg/l
Cadmium	µg/l[2]
Chromium	µg/l
Iron	µg/l
Lead	µg/l
Nickel	µg/l
Volatile organic compounds (VOCs) (USEPA Method 8260B)	µg/l

C. Semi-annual sampling shall be performed during the months of May and November. In the event sampling is not performed as above because of unforeseen circumstances, substitute sampling shall be performed as soon as possible after these times, and the reason for the delay shall also be given.

D. The groundwater-monitoring program is to be continued even during periods when no wastes are deposited at the Landfill, and throughout the active life of the Landfill.

E. All analyses shall be conducted at a laboratory certified for such analyses by the State Board Division of Drinking Water Environmental Laboratory Accreditation Program, or approved by the Executive Officer. Laboratory analyses must follow methods approved by the United States Environmental Protection Agency (EPA), and the laboratory must meet EPA Quality Assurance/Quality Control criteria.

F. For any analyses performed for which no procedure is specified in the EPA guidelines, or in this Order, the constituent or parameter analyzed, and the method or procedure used, must be specified in the report.

G. Analytical data reported as "less than" shall be reported as less than a numeric value, or below the limit of detection, for that particular analytical method.

H. All analytical samples obtained for this MRP shall be grab samples. The water quality monitoring report must also include the following:

1. Sampling protocol and analytical methods used;

2. Chain of custody documentation;

3. Well purge data;

4. If any required samples were omitted during the reporting period, a statement to that effect shall be made and reasons given for any omission;

5. Groundwater elevations measured to the nearest 0.01 foot relative to mean sea level. The velocity and direction of ground water flow under the Landfill shall be determined after each monitoring event and reported;

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[2] µg/l = microgram per litter.

6. For any monitored waste parameter which is listed as such by the EPA or by the State of California, the discharger shall compare such data to the most stringent allowable concentrations under all existing Federal and State regulations;

7. An evaluation of the results of the testing signed by a California professional geologist or professional civil engineer.

III. Waste Disposal Reporting

All semi-annual reports to the Regional Board shall include the following information:

A. A map showing the areas at the landfill where wastes were deposited during the monitoring period.

B. A tabular list of the estimated average monthly quantities (in cubic yards or tons) of materials deposited each month and the methods of disposal.

C. Quantities (in tons or cubic yards) of unacceptable materials (such as household trash, wood, etc.) that were removed and sent out from the Landfill in each month. The places where these unacceptable materials were sent to shall also be reported.

D. Quantities (in tons or cubic yards) of recycled materials (such as steal, crashed concrete, asphalt, etc.) that were sent out from the Landfill in each month.

E. An estimate of the remaining life of the Landfill in years and months.

F. A certification that all wastes disposal operations at the Landfill were in compliance with the Regional Board's requirements.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by: _____ Date: February 11, 2016
Samuel Unger, P.E.,
Executive Officer

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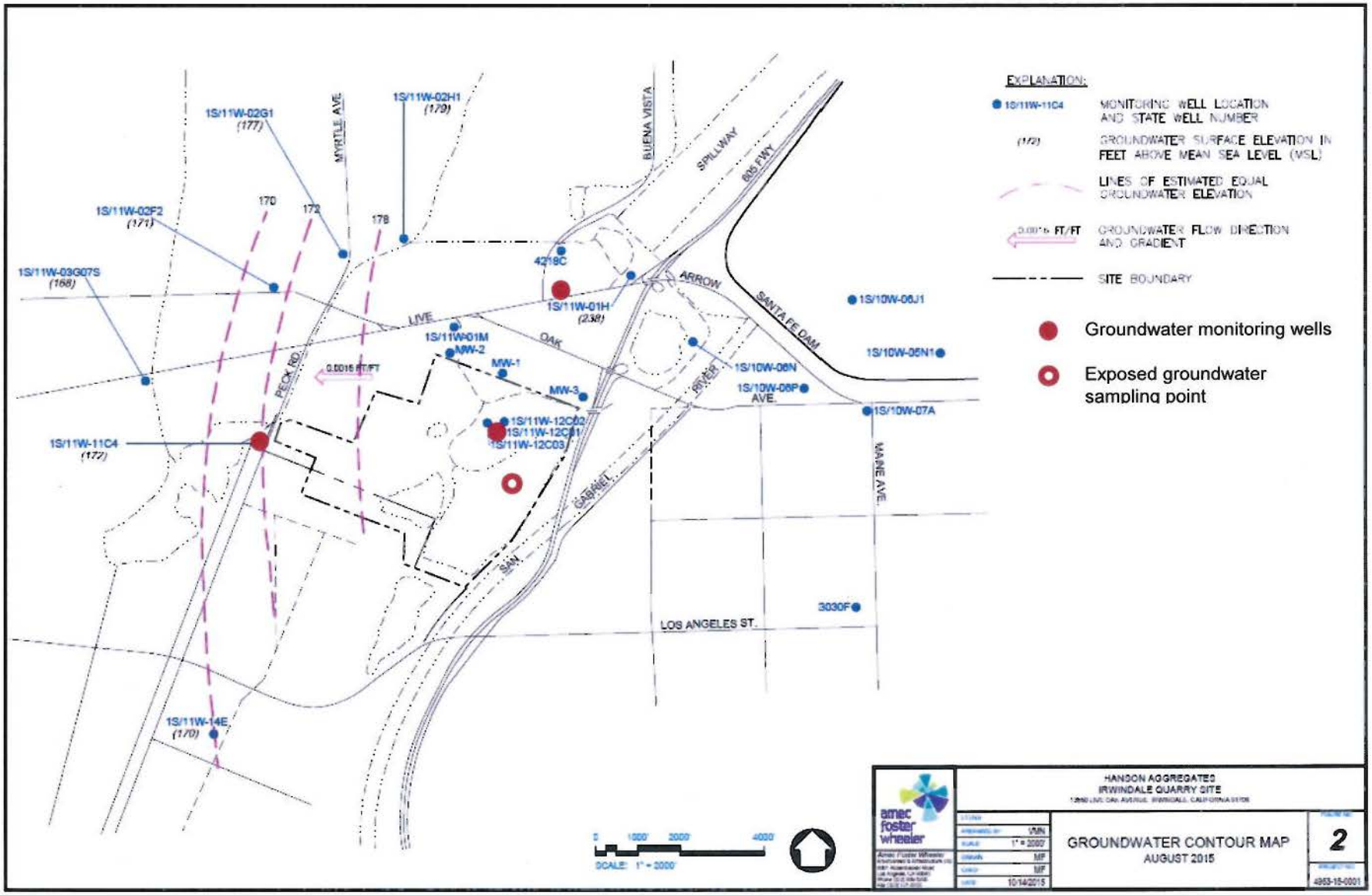

Figure T - 1. Groundwater Monitoring Network

STANDARD PROVISIONS
APPLICABLE TO WASTE DISCHARGE REQUIREMENTS

1. DUTY TO COMPLY

The discharger must comply with all conditions of these waste discharge requirements. A responsible party has been designated in the Order for this project, and is legally bound to maintain the monitoring program and permit. Violations may result in enforcement actions, including Regional Board orders or court orders requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board. (Water Code, Sections 13261, 13263, 13265, 13268, 13300, 13301, 13304, 13340, and 13350). Failure to comply with any waste discharge requirement, monitoring and reporting requirement, or other order or prohibition issued, reissued or amended by the Los Angeles Water Board or State Water Resources Control Board is a violation of these waste discharge requirements and the Water Code, which can result in the imposition of civil liability. (Water Code, Section 13350, subdivision (a).)

2. GENERAL PROHIBITION

Neither the treatment nor the discharge of waste shall create a pollution, contamination or nuisance, as defined by California Water Code section 13050. In addition, the discharge of waste classified as hazardous, as defined in California Code of Regulations, Title 23, Section 2521, subdivision (a) is also prohibited.

3. AVAILABILITY

A copy of these waste discharge requirements shall be maintained at the discharge facility and be available at all times to operating personnel. (Water Code, Section 13263)

4. CHANGE IN OWNERSHIP

The discharger must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current discharger and the new discharger. This agreement shall include an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable from the transfer date forward. (Water Code, Sections 13267 and 13263)

5. CHANGE IN DISCHARGE

In the event of a material change in the character, location, or volume of a discharge, the discharger shall file with this Regional Board a new Report of Waste Discharge. (Water Code, Section 13260, subdivision (c)). A material change includes, but is not limited to, the following:

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(a) Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the waste.

(b) Significant change in disposal method, e.g., change from a land disposal to a direct discharge to water, or change in the method of treatment which would significantly alter the characteristics of the waste.

(c) Significant change in the disposal area, e.g., moving the discharge to another drainage area, to a different water body, or to a disposal area significantly removed from the original area potentially causing different water quality or nuisance problems.

(d) Increase in flow beyond that specified in the waste discharge requirements.

(e) Increase in the area or depth to be used for solid waste disposal beyond that specified in the waste discharge requirements. (California Code of Regulations, Title 23, Section 2210)

6. REVISION

These waste discharge requirements are subject to review and revision by the Regional Board. (Water Code, Sections 13263)

7. NOTIFICATION

Where the discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information. (Water Code, Sections 13260 and 13267)

8. VESTED RIGHTS

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, do not protect the discharger from his liability under Federal, State or local laws, nor do they create a vested right for the discharger to continue the waste discharge. (Water Code, Section 13263, subdivision (g).)

9. SEVERABILITY

Provisions of these waste discharge requirements are severable. If any provisions of these requirements are found invalid, the remainder of the requirements shall not be affected.

10. OPERATION AND MAINTENANCE

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The discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order. (Water Code, Section 13263, subdivision (f).)

11. NOTIFICATION REQUIREMENT

Except for a discharge which is in compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Article 3.7 (commencing with Section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of Section 13271 of the Water Code unless the discharger is in violation of a prohibition in the applicable Water Quality Control plan. (Water Code, Section 13271, subdivision (a).)

12. OIL OR PETROLEUM RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Article 3.5 (commencing with Section 8574.1) of Chapter 7 of Division 1 of Title 2 of the Government Code. This provision does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Section 311 of the Clean Water Act or the discharge is in violation of a prohibition in the applicable Water Quality Control Plan. (Water Code, Section 13272)

13. INVESTIGATIONS AND INSPECTIONS

The discharger shall allow the Regional Board, or an authorized representative upon the presentation of credentials and other documents as may be required by law, to:

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(a) Enter upon the discharger's premises where a regulated facility or activity is located or conducted, or 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 conditions of this Order;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and

(d) Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order, or as otherwise authorized by the California Water Code, any substances or parameters at any location. (Water Code, Section 13267)

(e) Except for material determined to be confidential in accordance with applicable law, all reports prepared in accordance with the terms of this Order shall be available for public inspection at the office of the Los Angeles Water Board. Data on waste discharges, water quality, geology, and hydrogeology shall not be considered confidential.

14. MONITORING PROGRAM AND DEVICES

The discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer, which specifications are subject to periodic revisions as may be warranted. (Water Code, Section 13267)

All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year, or more frequently, to ensure continued accuracy of the devices. Annually, the discharger shall submit to the Executive Office a written statement, signed by a registered professional engineer, certifying that all flow measurement devices have been calibrated and will reliably achieve the accuracy required.

The analysis of any material required pursuant to Division 7 of the Water Code shall be performed by a laboratory that has accreditation or certification pursuant to Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101 of the Health and Safety Code. However, this requirement does not apply to field tests, such as test for color, odor, turbidity, pH, temperature, dissolved oxygen, conductivity, and disinfectant residual chlorine. (Water Code, Section 13176). Unless otherwise permitted by the Regional Board Executive officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Water Resources Control Board's Division of Drinking Water. All analyses shall be required to be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" (40CFR Part 136) promulgated by the United States, Environmental Protection Agency (USEPA). (California Code of Regulation, Title 23, Section 2230)

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The Quality Assurance-Quality Control Program must conform to the USEPA Guidelines "Laboratory Documentation Requirements for Data Validation", January 1990, USEPA Region 9) or procedures approved by the Los Angeles Regional Water Quality Control Board.

All quality assurance and quality control (QA/QC) analyses must be run on the same dates when samples were actually analyzed. All QA/QC data shall be reported, along with the sample results to which they apply, including the method, equipment, analytical detection and quantitation limits, the percent recovery, and explanation for any recovery that falls outside the QC limits, the results of equipment and method blanks, the results of spiked and surrogate samples, the frequency of quality control analysis, and the name and qualifications of the person(s) performing the analyses. Sample results shall be reported unadjusted for lank results or spike recoveries. In cases where contaminants are detected in QA/QC samples (e.g., field, trip, or lab blanks); the accompanying sample results shall be appropriately flagged.

The Discharger shall make all QA/QC data available for inspection by Regional Board staff and submit the QA/QC documentation with its respective quarterly report. Proper chain of custody procedures must be followed and a copy of that documentation shall be submitted with the quarterly report.

15. TREATMENT FAILURE

In an enforcement action, it shall not be a defense for the discharger that it would have been necessary to halt or to reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the discharger shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies, for example, when the primary source of power of the treatment facility fails, is reduced, or is lost. (Water Code, Section 13263, subdivision (f).)

16. DISCHARGE TO NAVIGABLE WATERS

A person who discharges pollutants or proposes to discharge pollutants or proposes to discharge pollutants to the navigable waters of the United States within the jurisdiction of this state or a person who discharges dredged or fill material or proposes to discharge dredged or fill material into the navigable waters of the United States within the jurisdiction of this state shall file a report of waste discharge in compliance with the procedures set forth in Water Code section 13260. (Water Code, Section 13376)

17. ENDANGERMENT TO HEALTH AND ENVIRONMENT

The discharger shall report any noncompliance which may endanger health or the environment. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time the discharger becomes aware of the circumstances. A written submission shall also be provided within five days of the time the discharger becomes aware of the circumstances. The written submission 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 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. The following occurrence(s) must be reported to the Executive Office within 24 hours:

(a) Any bypass from any portion of the treatment facility.

(b) Any discharge of treated or untreated wastewater resulting from sewer line breaks, obstruction, surcharge or any other circumstances.

(c) Any treatment plan upset which causes the effluent limitation of this Order to be exceeded. (Water Code, Sections 13263 and 13267)

18. MAINTENANCE OF RECORDS

The discharger shall retain records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies off all reports required by this Order, and record of all data used to complete the application for this Order. Records shall be maintained for a minimum of three years from the date of the sample, measurement, report, or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

Records of monitoring information shall include:

(a) The date, exact place, and time of sampling or measurement;

(b) The individual(s) who performed the sampling or measurement;

(c) The date(s) analyses were performed;

(d) The individual(s) who performed the analyses;

(e) The analytical techniques or method used; and

(f) The results of such analyses.

19. (a) All application reports or information to be submitted to the Executive Office shall be signed and certified as follows:

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(1) For a corporation – by a principal executive officer or at least the level of vice president.

(2) For a partnership or sole proprietorship – by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency – by either a principal executive officer or ranking elected official.

(b) A duly authorized representative of a person designated in paragraph (a) of this provision may sign documents if:

(1) The authorization is made in writing by a person described in paragraph (a) of this provision.

(2) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and

(3) The written authorization is submitted to the Executive Officer.

Any person signing a document under this Section shall make the following certification:

> "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Water Code Sections 13263, 13267, and 13268)"

20. <u>OPERATOR CERTIFICATION</u>

Supervisors and operators of municipal wastewater treatment plants and privately owned facilities regulated by the Public Utilities Commission, used in the treatment or reclamation of sewage and industrial waste shall possess a certificate of appropriate grade in accordance with California Code of Regulations, title 23, section 3680. State Boards may accept experience in lieu of qualification training. (California Code of Regulations, Title, 23, Sections 3680 and 3680.2.) In lieu of a properly certified wastewater treatment plant operator, the State Board may approve use of a water treatment plant operator of appropriate grade certified by the State Department of Public Health where reclamation is involved. (California Code of Regulations, Title, 23, Section 3670.1, subdivision (b).)

ADDITIONAL PROVISIONS APPLICABLE TO

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PUBLICLY OWNED TREATMENT WORKS' ADEQUATE CAPACITY

21. Whenever a regional board finds that a publicly owned wastewater treatment plant will reach capacity within four years, the board shall notify the discharger. Such notification shall inform the discharger that the regional board will consider adopting a time schedule order pursuant to Section 13300 of the Water Code or other enforcement order unless the discharger can demonstrate that adequate steps are being taken to address the capacity problem. The notification shall require the discharger to submit a technical report to the regional board within 120 days showing how flow volumes will be prevented from exceeding existing capacity or how capacity will be increased. A copy of such notification shall be sent to appropriate local elected officials, local permitting agencies and the press. The time for filing the required technical report may be extended by the regional board. An extension of 30 days may be granted by the executive officer. Longer extensions may be granted by the regional board itself. (California Code of Regulations, Title, 23, Section 2232.)

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