



California Regional Water Quality Control Board
Los Angeles Region



Matthew Rodriguez
Secretary for
Environmental Protection

320 W. 4th Street, Suite 200, Los Angeles, California 90013
(213) 576-6600 • FAX (213) 576-6640
<http://www.waterboards.ca.gov/losangeles>

Edmund G. Brown Jr.
Governor

March 9, 2012

Joseph Chrisman, Esquire
The Hathaway Law Firm
5450 Telegraph Road, Suite 200
Ventura, CA 93003

**CLOSURE AND POSTCLOSURE MAINTENANCE WASTE DISCHARGE REQUIREMENTS -
TAYLOR RANCH OIL WASTE DISPOSAL SITE (CALTRANS/BURMA SUMP), VENTURA,
CA (FILE NO. 56-020)**

Dear Mr. Chrisman:

Reference is made to our letter dated January 9, 2012, that transmitted a tentative order for closure and postclosure maintenance of the Taylor Ranch Oil Waste Disposal Site. Pursuant to Division 7 of the California Water Code, the Regional Board at a public hearing held on March 1, 2012, reviewed the tentative order, considered all factors in the case, and adopted Order No. R4-2012-0057 (copy attached) to regulate closure and postclosure maintenance activities at the site.

Should you have any questions, please contact Dr. Enrique Casas at (213) 620-2299 (ecasas@waterboards.ca.gov).

Sincerely,

Wen Yang, Ph.D.
Senior Engineering Geologist
Land Disposal Unit

Attachment: Order No. R4-2012-0057

cc: Ms. Leslie Graves, State Water Resources Control Board
Mr. George Ghebraniou, California Department of Transportation
Mr. Jeff Damron, Padre Associates, Inc.

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

ORDER NO. R4-2012-0057

**WASTE DISCHARGE REQUIREMENTS
FOR
CLOSURE AND POSTCLOSURE MAINTENANCE**

**WOOD-CLAEYSENS FOUNDATION
(TAYLOR RANCH OIL WASTE DISPOSAL SITE)
(FILE NO. 56-020)**

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

BACKGROUND

1. On February 16, 1956, the Regional Water Pollution Control Board, Los Angeles, the Regional Board's predecessor agency, adopted Resolution No. 56-2 containing waste discharge requirements (WDRs) for an oilfield waste dump (hereinafter, "Sump") on the Taylor Ranch in Ventura County. The Sump is located on the Taylor Ranch above the west bank of the Ventura River and approximately 1.5 miles north of the U.S. 101 Freeway (Figure 1).
2. The WDRs contained in Resolution No. 56-2 were issued to Mr. Adrian G. Wood who owned Taylor Ranch at the time. Following Mr. Wood's death, his wife, Ailene created the Wood-Claeyssens Foundation (Foundation). The Foundation currently owns Taylor Ranch.
3. The Sump was a former California Department of Transportation (Caltrans) borrow pit. The WDRs contained in Resolution No. 56-2 allowed the Sump to be filled with "all types of oilfield wastes from existing sumps that were removed because of construction of the Ventura-Ojai Freeway (Highway 33), and oilfield wastes from adjacent oil fields."
4. The Sump is approximately 500-feet long by 250-feet wide (Figure 2) and contains oily waste material to a depth of approximately 30 to 40 feet. The Sump is bounded by a 350-foot long earthen berm on the eastern side. The Sump is uncovered.
5. On September 23, 1970, the Regional Board terminated the WDRs in Resolution No. 56-2 completely by adopting Resolution No. 70-67.
6. On September 30, 1999, AERA, the operating oil producer who leased the mineral rights on the land on which the Sump is located, notified CalTrans and the Department of Fish and Game that the Sump was discharging wastes that were migrating downgradient toward the Ventura River. At the time of notification, the waste was several hundred feet from the Ventura River. The cause of the waste discharge was a breach in the Sump berm. AERA staff reported that the berm was under risk of more extensive failure by washout from rain events.
7. On October 12, 1999, Regional Board staff participated in a joint inspection of the Sump with Ventura County Flood Control District staff. Regional Board staff noted that:
 - The berm was in very poor condition;

- A 20-foot breach was present in the eastern portion of the berm;
 - Oily, tar-like material was flowing through the breach, down a narrow wash, towards the Ventura River;
 - A portion of the flow may have reached the river channel;
 - No effective drainage controls were present;
 - Silt and sediment, washed onto the Sump from up-stream, covered a significant portion of the Sump; and
 - At least nine deceased large birds (raptors) were observed trapped in the oily waste.
8. On or about November 14, 1999, AERA initiated repairs of the failed berm. The repair consisted of filling an area of the eastern berm with soil borrowed from an area nearby the Sump. AERA staff informed Regional Board staff that the repairs were temporary. Ventura County Flood Control District personnel estimated that the repair consisted of placement of 285 cubic yards of new fill in the berm.
 9. On December 29, 1999, the Regional Board issued Cleanup and Abatement Order (CAO) No. 99-120 to the Foundation requiring the cleanup and abatement of the Sump. Order No. 99-120 mistakenly referenced the WDRs in Resolution No. 56-2, because such WDRs were actually terminated by Resolution No. 70-67 in 1970.
 10. On January 11, 2000, Regional Board staff conducted another inspection at the site and noted that the repaired dike did not appear to be uniformly compacted and observed areas where vegetation and organic debris were incorporated into the fill. Regional Board staff documented this information in an inspection report dated January 13, 2000.
 11. Regional Board staff concluded that, unless the berms of the waste Sump are maintained in good repair, it is likely that oil field wastes will continue to be discharged to the waters of the State in violation of the *Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties* (Basin Plan), as adopted on June 13, 1994 by this Regional Board and amended on January 27, 1997 by Regional Board Resolution No. 97-02.
 12. On January 27, 2000, the Foundation petitioned CAO No. 99-120 to the California State Water Resources Control Board (State Board) on the basis that some Findings in CAO No. 99-120 were factually incorrect.
 13. On February 9, 2000, the State Board held in abeyance the petition by the Foundation for two years following a request by the Foundation in order to work with Regional Board staff towards a resolution to comply with CAO No. 99-120 requirements.
 14. On February 9, 2000, this Regional Board issued CAO No. R4-2000-0013 to clarify that the WDRs for the Sump were terminated by Resolution No. 70-67 and to add CalTrans, the generator of wastes disposed in the Sump, as an additional responsible party. CAO No. R4-2000-0013 terminated CAO No. 99-120.
 15. On March 10, 2000, CalTrans petitioned CAO No. R4-2000-0013 to the State Board stating that the order incorrectly identified CalTrans as a responsible party for cleanup of the Sump.

16. On April 12, 2000 the State Board rejected the CalTrans petition as untimely under California Water Code (CWC) section 13220.
17. On October 17, 2000 the Regional Board issued a Notice of Violation to the Foundation and CalTrans for failure to submit reports of cleanup activities, work plans, or a Report of Waste Discharge (ROWD) pursuant to requirements of CAO No. R4-2000-0013.
18. On December 8, 2000 the Foundation submitted "Site Investigation Geologic Report" and "Report of Grading Observation and Field Density Testing" to the Regional Board in partial compliance of CAO No. R4-2000-0013.
19. On February 2011, the Foundation submitted a "Hydrology Study and Hydraulic Report for Caltrans/Burma Sump Area of Taylor Ranch" and proposed to create access to the Sump, close the Sump through the construction of a five-foot thick clean soil cover, improve surface drainage and install a subdrain system with an oil/water separator at the outlet, and use the area for an agricultural orchard where regular activity in the area will result in less opportunity for erosion from the upslope drainage. The cap, drainage and subdrain systems are proposed to comply with waste management unit closure requirements of title 27 of the California Code of Regulations as applicable to a surface impoundment.
20. On October 19, 2011 the Foundation submitted "Geotechnical Assessment Activities", "Post-Closure Maintenance and Monitoring Plan", and "Post-Closure Subdrain Effluent Monitoring Plan" to the Regional Board in partial compliance of CAO No. R4-2000-0013. In a letter dated November 2, 2011, the Regional Board Executive Officer determined that these documents met the requirements for the submittal of a ROWD for the closure and postclosure maintenance of the Sump.

ENVIRONMENTAL SETTING

21. The Sump property is located adjacent to the Lower Ventura River Groundwater Basin, less than two miles from the Pacific Ocean.
22. The Sump is situated within a canyon that is confined by steep slopes ascending to the north, south and west and descending to the east towards the Ventura River.
23. The Sump area is underlain by Quaternary alluvium containing weakly consolidated floodplain deposits of silts, sands, and gravels overlying sandstone/claystone of the Pico Formation. The north, south and west sides of the Sump containment berm consist of cuts into native materials, with small amounts of fill material generated during re-grading of the access road at the top of the berm.
24. Groundwater was not encountered during coring investigations conducted by the Foundation as part of the ROWD development to a maximum depth of 70 feet below ground surface (95 feet above mean sea level). The groundwater flow direction is believed to mimic surface drainage easterly towards the Ventura River.
25. The Basin Plan contains water quality objectives and beneficial uses for groundwater of the Lower Ventura River Groundwater Basin, which lies immediately to the south of the Sump. The designated

existing or potential beneficial uses of groundwater include municipal, domestic and agricultural supply, industrial service and process supply. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Basin Plan.

26. The Basin Plan designates beneficial uses for inland surface waters for the Lower Ventura River Watershed. The Basin Plan designates potential or existing beneficial use of municipal and domestic supply, industrial process supply, agricultural supply, groundwater recharge, freshwater replenishment, water contact recreation, and non-contact water recreation, warm and cold freshwater habitat, wildlife habitat, rare, threatened or endangered species, migration of aquatic organisms, spawning, reproduction, and/or early development, and wetland habitat, for the Lower Ventura River Watershed. The beneficial uses of surface waters in the canyon of the Sump are not individually designated in the Basin Plan; however application of the tributary rule requires the beneficial uses of any specifically designated water body apply to its tributary streams. The requirements in this Order, as they are met, are in conformance with beneficial uses designated in the Basin Plan for canyons/streams at the Sump that are tributary to the Lower Ventura River Watershed.

ENVIRONMENTAL PROTECTION AND MONITORING SYSTEMS

27. The Sump is nestled in the lower part of a canyon. The main tributary areas of the canyon above flow mostly easterly on an existing agricultural road and ditch, and away from the Sump itself. The site's runoff comes mostly from a southerly slope and from the site itself.
28. As part of the proposed closure operations, the Foundation has proposed to improve the Sump area with an underdrain system and final cover system (Figure 3). The final cover system will consist of a five-foot thick layer of clean soil on top of a sub-drain system and a geotextile barrier blanket over the area with currently exposed sump wastes. The geotextile blanket is designed to isolate the materials below from the overlying clean soils. The sub-drain system will keep the area dry and draining throughout the year.
29. The underdrain system will be placed within the clean soil final cover within one foot from the top of Sump wastes. Because water captured by the underdrain has the potential to contact the petroleum hydrocarbon wastes, the underdrain system will include an oil-water separator at the outlet to reduce the potential of discharging petroleum hydrocarbons to offsite and to allow for the sampling of water collected in the system.
30. The lower slopes surrounding the Sump will be graded to a more stable 2:1 (Horizontal:Vertical) gradient with swales along the toe to collect the runoff and prevent it from entering the Sump area. The runoff will then be piped to surrounding ditches in a non-erosive manner.
31. Storm drain system improvements have been design to keep runoff within the ditch and perimeter road to minimize any impact to the Sump.
32. Once a final cover system is constructed, the Sump area will be planted with crops that will be best suited for its unique micro-climate.

33. Adoption of WDRs for the Facility constitutes an existing project as defined in title 14 of the California Code of Regulations section 15301 and is therefore exempt from the provisions of the California Environmental Quality Act (Public Resources Code section 21000 et seq.).
34. The Regional Board has notified interested agencies and all known interested parties of its intent to issue requirements for waste disposal for the Sump. The Regional Board in a public meeting on March 1, 2012 heard and considered all comments pertaining to the closure and post-closure maintenance of the Sump.

Any person aggrieved by this action of the Regional Board may petition the State Board to review the action in accordance with CWC section 13320 and title 23 of the California Code of Regulations 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.

IT IS HEREBY ORDERED, that the Foundation shall comply with the following requirements pertaining to the Sump:

A. Specifications

1. The Sump is closed. No waste shall be received at the Sump for disposal purposes.
2. The Foundation shall remove any unacceptable wastes that arrive at the site in violation of the requirements in this Order and discharge such removed waste at a classified waste management unit.

B. Prohibitions

1. The discharge of waste to land, as a result of inadequate closure and post-closure maintenance practices that have not been specifically described to the Regional Board and for which valid WDRs are not in force, is prohibited.
2. The discharge of waste shall not:
 - a. cause the occurrence of coliform or pathogenic organisms in waters pumped from a groundwater basin;
 - b. cause the occurrence of objectionable tastes or odors in waters pumped from a groundwater basin;
 - c. cause waters pumped from a groundwater basin to foam;
 - d. cause the presence of toxic materials in waters pumped from a groundwater basin;

- e. cause the pH of waters pumped from a groundwater basin to fall below 6.0, or rise above 9.0;
 - f. cause the Regional Board's objectives for the groundwaters or surface waters as established in the Basin Plan to be exceeded; or
 - g. cause pollution, contamination, or nuisance, as defined in CWC section 13050, or adversely affect beneficial uses of groundwaters or surface waters as established in the Basin Plan.
- 3. The discharge of waste or waste by-products to surface drainage courses or to usable groundwater is prohibited.
 - 4. Releases from the Sump that cause any Basin Plan objective to be exceeded at any location under, or in the vicinity of, the Sump, are prohibited.
 - 5. Basin Plan prohibitions shall not be violated.

C. Requirements for Containment Systems

- 1. The Sump final cover shall be designed, constructed, and maintained to prevent, to the greatest extent possible, ponding, infiltration, inundation, erosion, slope failure, and washout that could occur as a result of precipitation from a 100-year, 24-hour frequency storm. This shall be accomplished by, at a minimum, the following:
 - a. Top deck surfaces shall be constructed to achieve a minimum of three percent (3%) slope, including structures which direct water to downdrains;
 - b. Downdrains and other necessary drainage structures must be constructed for all sideslopes as necessary; and
 - c. All components of the Sump drainage system must be designed and constructed to withstand site-specific maximum intensity precipitation (peak flow) from a 100-year, 24-hour storm.
- 2. The Foundation shall design, construct, and maintain:
 - a. A run-on drainage control system to prevent flow from off-site sources onto the Sump and to collect and divert both the calculated volume of precipitation and the peak flow from off-site sources that result from a 100-year, 24-hour storm. When necessary, temporary structures shall be installed as needed to comply with this requirement;
 - b. A runoff drainage control system to collect and divert both the calculated volume of precipitation and the peak flow from on-site surface runoff that results from a 100-year, 24-hour storm; and

- c. Drainage control structures to divert natural seepage from native ground and to prevent such seepage from entering the Sump.
- d. All drainage structures shall be protected and maintained continuously to ensure their effectiveness.
3. Periodic inspection of the Sump, the drainage control system, and all containment structures shall be performed to assess the conditions of these facilities and to maintain compliance with this Order.
4. All containment structures and erosion and drainage control systems at the Sump shall be designed and constructed under direct supervision of a California-registered civil engineer or certified engineering geologist.
5. The Foundation shall submit detailed preliminary plans, specifications, and descriptions for all proposed containment structures and construction features for the Executive Officer's approval at least 90 days prior to construction.
6. Construction reports, including drawings documenting "as-built" conditions, shall be submitted within 60 days after the completion of construction. If the "as-built" conditions are virtually identical to the approved preliminary plans and specifications, only change sheets need be submitted in lieu of a complete set of drawings.

D. Monitoring Requirements

1. The Foundation shall implement the attached monitoring and reporting program (M&RP) No. CI-9798, which is incorporated herein by reference, and revisions thereto.
2. At any time, the Foundation may file a written request with the Executive Officer that proposes modifications to M&RP No. CI-9798, and which includes appropriate supporting documents. The Foundation shall implement any changes in the revised M&RP approved by the Executive Officer upon receipt of a signed copy of the revised M&RP.
3. The Foundation 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 Foundation 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 M&RP No. CI-9798, as directed by the Executive Officer. M&RP No. CI-9798 is subject to periodic revisions, as warranted and approved by the Executive Officer.
4. The Foundation shall provide for proper handling and disposal of water collected from the underdrain system.

5. The Foundation shall install any groundwater or monitoring devices necessary to comply with M&RP No. CI-9798 as adopted or as revised by the Executive Officer.

E. Requirements for Reporting Scheduled Activities

1. The Foundation shall comply with all reporting requirements included in M&RP No. CI-9798.
2. The Foundation shall notify Regional Board staff at least thirty days prior to any maintenance activities, for approval by the Executive Officer, which could alter existing surface drainage patterns or change existing slope configurations. These activities may include, but not be limited to, significant grading activities, the importation of fill material, the design and installation of soil borings and other devices for Sump investigation purposes.
3. The Foundation 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 Foundation shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.
4. If the Foundation becomes aware that the Foundation failed to submit any relevant facts in any report to the Regional Board, it shall submit such facts or information within seven days of its discovery of the omission.
5. The Regional Board shall be notified of any incident resulting from Sump post-closure management that may endanger the environment, by telephone within twenty-four hours, and in writing within seven days. 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. 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.
6. All applications, reports, or information submitted to the Executive Officer shall be signed and certified as follows:
 - a. The applications, reports, or information 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;
 - 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 known violations."

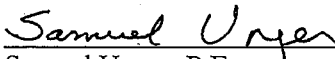
F. General Provisions

- 1. This Order does not authorize violation of any federal, state, or local laws or regulations.
- 2. The Foundation shall maintain a copy of this Order at its local offices and shall ensure that all site-operating personnel are familiar with its content and that it is available to operating personnel at all times.
- 3. The Foundation shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the Foundation'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 shall 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 purpose of assuring compliance with this Order or as otherwise authorized by the CWC, any substances or parameters at this location.
4. All regulated disposal systems shall be readily accessible for sampling and inspection.
5. The Foundation shall notify the Executive Officer, in writing, at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage between the Foundation and a new owner of the Sump. Any transfer agreement between the Foundation and a new owner shall include an acknowledgement that the Foundation is liable for violations up to the transfer date and that the new owner is liable from the transfer date on. The agreement shall include an acknowledgement that the new owner shall accept responsibility for compliance with this Order post closure maintenance of the Sump.
6. The Foundation shall immediately notify the Regional Board of any flooding, fire, slope failure or other change in Sump conditions, which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.
7. This Order is subject to Regional Board review and updating as necessary to comply with changing state or federal laws, regulations, policies, or guidelines.
8. The Foundation is the responsible party for the WDRs and M&RP No. CI-9798 for the Sump. The Foundation 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, including Regional Board orders or court orders, requiring corrective action or imposing civil monetary liability;
 - b. Termination, revocation and reissuance, or modification of this Order; or
 - c. Denial of a ROWD in application for new or revised WDRs.
9. The Foundation shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance.

10. This Order may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:
 - a. Violation of any terms or conditions of this Order;
 - b. Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts; or
 - c. A change in any condition that requires either a temporary or permanent reduction, or elimination of the authorized discharge.
11. This Order is not transferable to any person except after notice to the Executive Officer. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the Foundation and incorporate such other requirements as may be necessary under the CWC. The Foundation shall submit notice of any proposed transfer of this Order's responsibility and coverage as described under Specification E.6. of this Order.
12. 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.
13. The filing of a request by the Foundation for the modification, revocation and reissuance, or termination of this Order or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.
14. 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.
15. Pursuant to CWC section 13263(e) these requirements are subject to periodic review and revision by this Regional Board.
16. This Order becomes effective on the date of adoption by this Regional Board.

I, Samuel Unger, Executive Officer, do 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 March 1, 2012.



Samuel Unger, P.E.
Executive Officer

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

MONITORING AND REPORTING PROGRAM (NO. CI-9798)

FOR
WOOD-CLAEYSSSENS FOUNDATION
(TAYLOR RANCH OIL WASTE DISPOSAL SITE)

A. GENERAL

1. Monitoring responsibilities of the Wood-Claeyssens Foundation (Foundation) for the Taylor Ranch Oil Waste Disposal Site (Sump) are specified in California Water Code (CWC) section 13225(a), section 13267(b), and section 13387(b). This self-monitoring program is issued pursuant to California Regional Water Quality Control Board, Los Angeles Region (Regional Board) Order No. R4-2012-0057. The principal purposes of a self-monitoring program by a discharger are:
 - a. To document compliance with discharge requirements and prohibitions established by the Regional Board;
 - b. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge; and
 - c. To prepare water quality analyses.
2. The Foundation shall implement this monitoring and reporting program (M&RP) at the Sump during the first monitoring period immediately following adoption of this Order.
3. The Foundation shall submit all scheduled reports required in Regional Board Order No. R4-2012-0057 and this M&RP electronically to the State Water Resources Control Board GeoTracker database in accordance with section 3890 et seq. of the 23 CCR, division 3 or as directed by the Executive Officer.

B. REPORTING

A written monitoring report shall be submitted semi-annually by May 15 (for the period from November 1 to April 30) and November 15 (for the period from May 1 to October 31) of each year. Any reporting or tabulation requirements less than semi-annual in length (i.e., monthly or quarterly) shall be submitted in the semi-annual reports. Semi-annual reports shall include, but shall not be limited to, the following items and sequence:

1. Transmittal Letter: A letter transmitting the essential points shall accompany each report. The 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 Foundation has previously submitted a 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 contain a certification statement as required per section E.6.c of Order No. R4-2012-0057.

2. Summary of Non-Compliance – The report shall contain a summary of non-compliance that discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. Significant aspects of any on-going corrective action measures conducted during the monitoring period shall also be summarized. This section shall be located at the front of the report and shall clearly list all non-compliance with discharge requirements, as well as all exceedances of water quality protection standards.
3. Site Conditions: General discussion of site conditions (climate, 100-year 24-hour storm, and watershed specifics, postclosure maintenance, etc.).
4. Narrative Description – A narrative discussion of the site's various monitoring activities and results.
5. Laboratory Test Results: Laboratory test results and statements demonstrating compliance with this Monitoring and Reporting Program. Results of additional water sampling and analyses performed at the Sump, outside of the requirements of this M&RP, shall be summarized and reported. If the results of such additional sampling and analyses have or will be reported under separate cover, a statement as such shall be included in the monitoring report.
6. Management of Liquids: A summary of the total volumes, on a monthly basis, of contaminated subdrain water extracted at the site, and how these liquids are handled.

C. REQUIRED MONITORING AND INSPECTIONS

The Foundation shall conduct the following monitoring and inspections at the Sump.

1. Underdrain Monitoring

The Foundation shall monitor the quality of water in the underdrain system underlying the final cover soils at the Sump at least once per quarter (January – March, April – June, July – September, October - December), if discharge is present. Water samples collected from the underdrain system shall be analyzed for the presence of total petroleum hydrocarbons (TPH), with carbon chain breakdown in accordance with standard test method EPA 8015 modified. If analytical results indicate the presence of TPH, the sample will also be analyzed for the presence of the metals arsenic, barium, chromium, and lead, as well as benzene, toluene, ethylbenzene, and xylenes (BETX) in accordance with standard test method EPA 8020. Water samples collected from the underdrain system shall also be analyzed for the following general parameters:

- Nitrate, nitrogen
- Chemical oxygen demand (COD)
- Total dissolved solids (TDS)

2. Site Inspections

The Foundation shall inspect the Sump in accordance with the following requirements.

- a. During the wet season (October through April), following each storm of at least 0.5-inch or more rain and that produces storm water runoff, or on a monthly basis if no storm produces runoff during the month. Based on site conditions, observations, or any other relevant information the Executive Officer may revise the 0.5-inch threshold.
- b. During the dry season, a minimum of one inspection shall be performed every three months.
- c. Observations during a site inspection shall include any evidence of any soil erosion, settlement or subsidence, exposed sump materials, cracks, seeps, ponded water or slope failure. The drainage system will be inspected for the presence of soil erosion, scour, obstructions to flow, cracks, seeps, and ponded water. The underdrain oil-water separator shall be inspected for the presence of discharge from the underdrain system, sheen on the water surface and sediment.
- d. Any deficiencies shall be evaluated to assess the severity of the problem and determine the best method of repair. Best management practices (temporary berms, ditches, or erosion control measures) shall be used until repairs are completed.
- e. The Foundation shall maintain a record of inspections and maintenance activities for the Sump.

D. SAMPLING AND ANALYTICAL PROCEDURES

1. Sampling and Analytical Methods

Sample collection, storage, and analysis shall be performed according to the most recent version of Standard USEPA Methods (USEPA publication "SW-846"), and in accordance with a sampling and analysis plan acceptable to the Executive Officer. A State of California certified laboratory shall perform water analysis. Specific methods of analysis must be identified. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign reports of such work submitted to the Regional Board. In addition, the Foundation is responsible for seeing that the laboratory analysis of samples from all Monitoring Points meets the following restrictions:

- a. The methods of analysis and the detection limits used must be appropriate for the expected concentrations.
- b. Trace results (results falling between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL)) for organic compounds shall be reported as such.
- c. MDL and PQL shall be derived by the laboratory for each analytical procedure, according to State of California laboratory accreditation procedures. Both limits shall reflect the detection and quantitation capabilities of the specific analytical procedure and equipment used by the laboratory. If the laboratory suspects that, due to a change in matrix or other effects, the true detection limit or quantitation limit for a particular analytical run differs significantly from the laboratory-derived values, the results shall be flagged accordingly, and an estimate of the limit actually achieved shall be included.

- d. Quality assurance and quality control (QA/QC) data shall be reported along with the sample results to which it applies. Sample results shall be reported unadjusted for blank results or spike recovery. The QA/QC data submittal shall include:
 - i. The method, equipment, and analytical detection limits.
 - ii. The recovery rates, including an explanation for any recovery rate that is outside the USEPA-specified recovery rate.
 - iii. The results of equipment and method blanks.
 - iv. The results of spiked and surrogate samples.
 - v. The frequency of quality control analysis.
 - vi. The name and qualifications of the person(s) performing the analyses.
- e. QA/QC analytical results involving detection of common laboratory contaminants in any sample shall be reported and flagged for easy reference.

2. Records to be Maintained

Analytical records shall be maintained by the Foundation or laboratory, and shall be retained for a minimum of five years. The period of retention shall be extended during the course of any unresolved litigation or when directed by the Executive Officer. 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. Such records shall show the following for each sample:

- a. Identity of sample and the actual Monitoring Point designation from which it was taken, along with the identity of the individual who obtained the sample.
- b. Date and time of sampling.
- c. Date and time that analyses were started and completed, and the name of personnel performing each analysis.
- d. Complete procedure used, including method of preserving the sample, and the identity and volumes of reagents used.
- e. Results of analyses, and Method Detection Limit and Practical Quantitation Limit for each analysis.

ORDERED BY: Samuel Unger
Samuel Unger, P.E.
Executive Officer

DATE: March 1, 2012