

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION**

ORDER NO. R2-2014-00XX

RESCISSION OF SITE CLEANUP REQUIREMENTS ORDER NO. 00-027 for:

**CITY OF DALY CITY
MUSSEL ROCK LANDFILL
DALY CITY, SAN MATEO COUNTY**

The California Regional Water Quality Control Board, San Francisco Bay Region (Water Board) finds that:

Site Description and History

1. The City of Daly City (City or Discharger) owns the Mussel Rock Landfill (landfill or site), which is located adjacent to the Pacific Ocean at the northern terminus of Westline Drive (Figure 1). The landfill encompasses approximately 29 acres and is located in a major landslide area and fault zone. The landfill was built within a depression at the toe of the main landslide.
2. The Daly City Scavenger Company accepted municipal waste at the site from 1957 until 1978, when the City took ownership of the site. There are two disposal areas (upper and lower) that collectively contain approximately one million cubic yards of refuse. The lower disposal area is protected from the Pacific Ocean by a rock seawall, approximately 2,500 feet long, which was installed in 1970.

Regulatory History

3. The Water Board issued Waste Discharge Requirements (WDR) for the landfill on August 19, 1965, in Resolution No. 694, after complaints were received about trash on the adjacent beaches.
4. Cease and Desist Orders were adopted in Resolutions Nos. 68-68 and 69-58, mandating improvements to the landfill and maintenance of drainage to separate all surface draining and groundwater from refuse. These Orders were likely rescinded before issuance of Order No. 77-019.
5. WDR Order No. 77-6 required the landfill to stop accepting municipal refuse, and subsequent Cease and Desist Order No. 77-119 required closure of the landfill on February 15, 1978.
6. On June 23, 1978, Cleanup and Abatement Order No. 78-013 was issued for violation of requirements in Order No. 77-6 pertaining to the seawall.
7. On July 21, 1982 the Water Board issued WDR Order No. 82-43, which required improved site maintenance, including extension of the seawall to protect the site from wave action, and additional clean soil to provide a minimum final cover of three feet across the disposal areas.
8. On October 19, 1983 the Water Board issued a Revised Cease and Desist Order No. 83-41, and reiterated requirements made in Cease and Desist Order No. 82-44, which required the City of Daly

City and the Daly City Scavenger Company to stop discharging wastes in violation of requirements in Order No. 82-43. The time schedule in which to comply was also extended based on a large winter storm event damaging much of the work the Discharger had accomplished to that point.

9. The Water Board adopted Site Cleanup Requirements (SCR) Order No. 00-027 on April 19, 2000. The SCR ordered the Discharger to develop an emergency response contingency plan; install and monitor groundwater and leachate monitoring wells; evaluate the adequacy of the existing landfill final cover; and to study the stability of slopes that surround the landfill and have the potential to compromise the landfill's stability. All tasks of the SCR were successfully completed. This order rescinds SCR Order No. 00-027.

Summary of Site Impacts

10. *Geologic Impacts:* The landfill was constructed within a very active geologic area that includes a very large composite landslide and the active San Andreas Fault, which forms the boundary between the North American and Pacific tectonic plates. The landslide deposits are active and are creeping westward toward the Pacific Ocean at a rate of a few inches per year. A large earthquake on the San Andreas Fault in this area, which has a maximum magnitude potential of 7.9, would induce massive slope displacement.
11. *Impacts to Water Quality:* Routine groundwater and surface water (outfall) monitoring has been conducted at the site since April 2001, as required by SCR Order No. 00-027. Groundwater monitoring has shown evidence of some volatile organic compound (VOC) impacts above drinking water environmental screening levels, and some metals above drinking water maximum contaminant levels. Surface water, when present, shows little to no impact from the landfill. Groundwater and surface water will continue to be monitored under the WDR Order No. 82-43, which remains in effect for the site.

Summary of Completed Tasks

12. *Emergency Response Contingency Plan:* The City submitted an Emergency Response Contingency Plan in response to SCR Order No. 00-027. This plan identified emergency situations that could result in a release of waste to the environment, and included specific procedures the City would undertake to minimize hazards and response actions in the event waste is exposed. The Water Board approved this Plan on October 16, 2000.
13. *Installation of Groundwater and Leachate Monitoring Wells:* A total of five monitoring wells were installed in response to Order No. 00-027. Two groundwater wells were installed upgradient of the upper disposal area and three leachate wells were installed in the lower disposal area (Figure 2). The Water Board approved the installation of these wells on June 11, 2001.
14. *Adequacy of the Existing Final Landfill Cover:* As required by Order No. 00-027, the City assessed the extent and thickness of the existing landfill cover, and tested physical properties of the cover at selected locations. The results of this evaluation indicated that the average cover thickness across the landfill is approximately four feet and consists of silty sand. The City also imported additional clean soil to increase cover thickness by two feet on the landfill side slopes,

and three feet on the flatter portions (completed December 16, 2002). The Water Board approved this evaluation on June 11, 2001.

15. *Geologic and Slope Stability Evaluation Report*: The City submitted a Geologic and Slope Stability Evaluation, which detailed the geologic subsurface conditions within the landfill and evaluated the slope stability of the west-facing landfill slopes. The static and seismic slope stability of the three cross sections of the landfill was analyzed. Under static conditions, when groundwater is at 20 feet or more below the ground surface (bgs), the site is stable. Depth to groundwater in the upper disposal area is approximately 9 to 20 feet bgs, and depth to groundwater in the lower disposal area is approximately 30 to 40 feet bgs. However, under seismic conditions the landfill is not stable, and significant movement can be expected. In the event of a slope failure, the City plans to follow the Emergency Response Contingency Plan. The Water Board approved this report on June 11, 2001.

Summary

16. The Discharger has successfully achieved the tasks required in SCR Order No. 00-027. Thus, SCR Order No. 00-027 is no longer necessary and should be rescinded.

CEQA, NOTIFICATION, AND PUBLIC HEARING

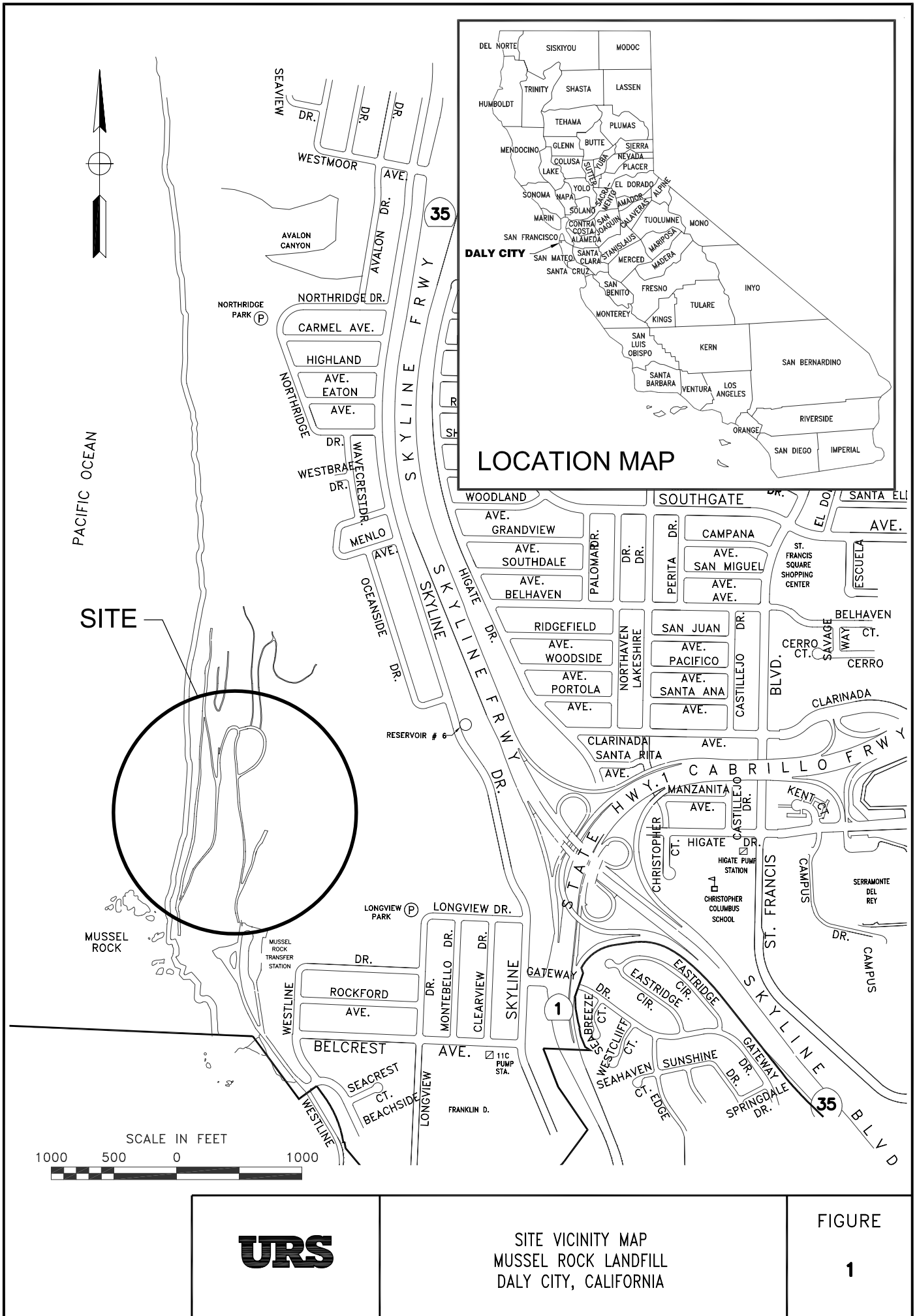
17. This action rescinds SCR Order No. 00-027 because the requirements of the order have been completed. Rescission of the Order is not a project as defined in the California Environmental Quality Act (CEQA). There is no possibility that the activity in question may have a significant effect on the environment. (Cal. Code Regs., tit. 14 §§ 15378 and 15061, subd. (b) (3).)
18. The Water Board has notified the Discharger, and interested agencies and persons of its intent to rescind site cleanup requirements contained in SCR Order No. 00-027, and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
19. The Water Board, in a public meeting, heard and considered all comments pertaining to the rescission of site cleanup requirements for the site.

IT IS HEREBY ORDERED that SCR Order No. 00-027 is rescinded.

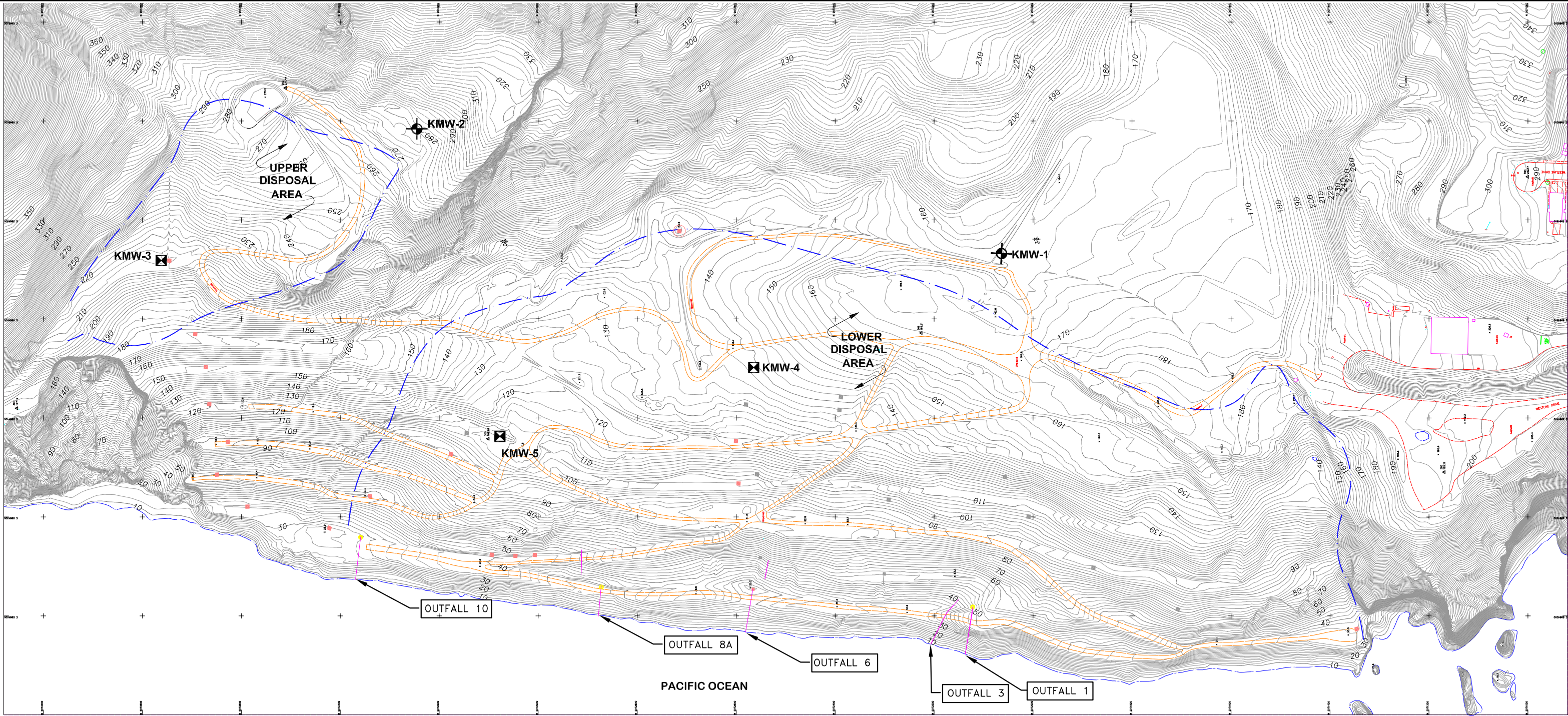
I, Bruce H. Wolfe, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Region on XXXX.

Bruce H. Wolfe
Executive Officer

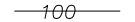
Attachments: Figure 1, Site Location Map
Figure 2, Site Map



Jul 28, 2011 - 10:32am
X:\x_env\waste\Mussel Rock Landfill\Groundwater Monitoring Reports\June 2011 Report\Draft Report_061311\Figures\CAD\Figure 2 - Site Plan_072811.dwg

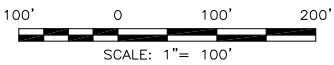


LEGEND

-  GROUNDWATER MONITORING WELL
-  LEACHATE MONITORING WELL
-  CATCH BASIN
-  LIMITS OF REFUSE DISPOSAL (APPROX. LOCATION)
-  SURFACE WATER MONITORING LOCATION
-  TOPOGRAPHIC CONTOUR (feet)

NOTES:

1. THIS MAP WAS PREPARED USING PHOTOGRAMMETRIC METHODS BY TETRA TECH GEOMATIC TECHNOLOGIES IN LAFAYETTE, CALIFORNIA FOR URS CORPORATION IN DEC 2010. IN AREAS OF DENSE VEGETATION, ACCURACY OF CONTOURS MAY DEVIATE FROM ACCEPTED ACCURACY STANDARDS. THE GRID IS BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 1983. ELEVATIONS ARE BASED ON NAVD 88. CONTROL SURVEY PERFORMED BY URS CORPORATION, PLEASANT HILL, CA.
2. WELLS SURVEYED BY KISTER, SAVIO AND REI INC. ON MARCH 30, 2001.
3. DRAIN PIPE NETWORK SHOWN IS BASED ON THE ORIGINAL BASEMAP REFERENCE PROVIDED BY CITY OF DALY CITY. ONLY THOSE CATCH BASINS THAT COULD BE VERIFIED USING THE DEC 2010 AERIAL IMAGE WERE UPDATED.



URS

SITE PLAN
MUSSEL ROCK LANDFILL
DALY CITY, CALIFORNIA

FIGURE
2