



May 15, 2013

Mr. George Leyva
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject: First Quarter 2013 Installation Restoration Site 1 Landfill Post-Closure Monitoring Report,
Former Naval Fuel Depot Point Molate, Richmond, California

Dear Mr. Leyva,

On behalf of the City of Richmond and under direction from Upstream Point Molate, LLC, Terraphase Engineering Inc. has prepared the attached First Quarter 2013 Installation Restoration Site 1 (IR Site 1) Landfill Post-closure Monitoring Report. This report describes the activities and status for the ongoing monitoring and maintenance program for the IR Site 1 landfill on the former Naval Fuel Depot Point Molate located in Richmond, California. This report is intended to meet the requirements of Task 11 of the California Regional Water Quality Control Board (RWQCB) Order No. R2-2011-0087, which was adopted on December 19, 2011. This Order requires the continuance of long-term monitoring and maintenance for the IR Site 1 landfill in accordance with the June 2005 Record of Decision (ROD) for the IR Site 1 landfill.

If you have any question or comments regarding this report, please contact Ryan Janoch at (510) 645-1850.

Sincerely,
For Terraphase Engineering Inc.

A handwritten signature in blue ink that reads 'Ryan Janoch'.

Ryan Janoch, P.E. (C78735)
Senior Professional Engineer

cc: Carlos Privat, City of Richmond
Craig Murray, City of Richmond
Jim Levine, Upstream Point Molate
David Clark, BRAC Program Management Office
Michael Leacox, Nichols Consulting Engineers
Joan Garrett, PMCAC
Bruce Beyaert, PMCAC
Lori Braunesreither, Contra Costa County Environmental Health Services

Attachments: 1st Quarter 2013 IR Site 1 Monitoring Report

1st QUARTER 2013 LANDFILL MONITORING REPORT IR SITE 1, FORMER NAVAL FUEL DEPOT POINT MOLATE, RICHMOND, CALIFORNIA

Prepared on Behalf

City of Richmond
450 Civic Center Plaza
Richmond, California

Prepared for

Mr. Jim Levine
Upstream Point Molate LLC
2000 Powell Street, Suite 920
Emeryville, California

Prepared by

Terraphase Engineering Inc.
1404 Franklin Street, Suite 600
Oakland, California

May 15, 2013

Project Number 0001.001.026



12.A.4.3

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5301 S. DICKINSON DRIVE
CHICAGO, ILLINOIS 60637

CONTENTS

1.0	INTRODUCTION	1
1.1	Site Description	1
1.2	Applicable Regulations.....	2
1.3	Compliance Measures.....	2
1.4	Report Organization.....	3
2.0	SITE MONITORING	4
2.1	Signs and Gates	4
2.2	Erosion Control	4
2.3	Final Grading	5
2.4	Monitoring Systems	5
2.5	Drainage Features.....	6
2.6	Paving Stones.....	6
3.0	RECOMMENDATIONS	7
3.1	Signs and Gates	7
3.2	Erosion Control	7
3.3	Monitoring System.....	7
3.4	Drainage Features.....	7
4.0	TREATMENT SYSTEM MONITORING	8
5.0	REFERENCES	9

Tables

- 1 Summary of Influent and Effluent Total Petroleum Hydrocarbons Analytical Results

Figures

- 1 Site Location Map
- 2 IR Site 1 Location Map
- 3 IR Site 1 Features

Appendices

- A Site Inspection Forms
- B Contra Costa County Health Services Inspection Report

Acronyms and Abbreviations

BRAC PMO	Base Realignment and Closure Project Management Office
Cal Recycle	California Department of Resources Recycling and Recovery
CCR	California Code of Regulations
CTRM	composite turf reinforced matting
FPAL	fuel product action level
GAC	granulated activated carbon
IR	Installation Restoration
MCA	mitigation compensation area
Navy	United States Navy
NFD	Naval Fuel Depot
OWS	oil/water separator
PAH	polyaromatic hydrocarbon
PMMP	Post-closure Maintenance and Monitoring Plan
ROD	Record of Decision
SVOC	semi-volatile organic compound
Terraphase	Terraphase Engineering Inc.
TPH	total petroleum hydrocarbons
TPHg	total petroleum hydrocarbons as gasoline
TPHd	total petroleum hydrocarbons as diesel
TPHbc	total petroleum hydrocarbons as bunker fuel C
TPHjp5	total petroleum hydrocarbons as jet propellant 5
TPHmo	total petroleum hydrocarbons as motor oil
TtEMI	Tetra Tech EM Inc.
UST	underground storage tank
VOC	volatile organic compound

Certification

I am familiar with the Final Post-Closure Maintenance and Monitoring Plan (PMMP), Installation Restoration Site 1 Final Cover, Naval Fuel Depot Point Molate (TtEMI 2002). I certify that this Installation Restoration Site 1 Landfill Post-closure Monitoring Report has been prepared in accordance with good engineering practices and applicable federal and state requirements.



Ryan Janoch, PE

Senior Professional Engineer
California Professional Engineer (C78735)

5-15-2013

Date

1.0 INTRODUCTION

This 1st Quarter 2013 Installation Restoration (IR) Site 1 Landfill Post-closure Monitoring Report describes the activities and status for the ongoing monitoring and maintenance program for the IR Site 1 landfill at the former Naval Fuel Depot (NFD) Point Molate located in Richmond, California. This letter report is intended to meet the requirements of Task 11 of the California Regional Water Quality Control Board (RWQCB) Order No. R2-2011-0087, which was adopted on December 19, 2011. This Order requires the continuance of long-term monitoring and maintenance for the Site 1 landfill in accordance with the June 2005 Record of Decision (ROD; BRAC PMO, 2005) for the IR Site 1 landfill.

The site information included in this section was obtained from the Final Post-closure Maintenance and Monitoring Plan (PMMP), IR Site 1 Final Cover, Naval Fuel Depot Point Molate (TtEMI 2002).

1.1 Site Description

NFD Point Molate covers 413 acres in the Potrero Hills of Point San Pablo Peninsula northwest of Richmond in Contra Costa County, California (Figure 1). NFD Point Molate is a former bulk fuel storage and transfer facility operated by the United States Navy (Navy). The oil-handling facilities were built in 1942 during World War II and were capable of storing more than 40 million gallons of fuel in 20 underground storage tanks (USTs), with a capacity of two million gallons each connected by nine miles of buried fuel pipeline. Historically, base facilities also included an oily water treatment plant; aboveground storage tanks; a domestic wastewater treatment plant; an oil reclamation and storage facility; and a former waste disposal area, now designated as the IR Site 1 landfill.

The IR Site 1 landfill, as shown in Figure 2, is located approximately 1,000 feet east of San Francisco Bay, near the center of the former NFD Point Molate. From approximately 1957 until 1979, IR Site 1 was primarily used for disposal of construction and landscaping debris. The debris was deposited over a one-acre area. In 1998, an investigation was conducted to determine the general nature and extent of the waste in the landfill. The estimated volume of fill at IR Site 1 was 20,000 cubic yards (TtEMI 2001a). The soil cover for IR Site 1 was designed in 2001 and constructed in 2002. The soil cover is three feet thick, has drainage controls and a monitoring system, and was hydroseeded with an annual native grass for erosion protection. The area of the IR Site 1 soil cover is shown on Figure 3.

Steep topography bounds the IR Site 1 landfill on the north, east, and west, with the steepest slopes near the toe of the site, on the southwest side. A low-lying wetland area is located on the south side (down gradient) of the site, as shown on Figure 3.

1.2 Applicable Regulations

Non-hazardous solid waste disposal facilities in California are regulated under Title 27 of the California Code of Regulations (CCR). These regulations are administered by both the State Water Resources Control Board and the California Department of Resources Recycling and Recovery (Cal Recycle). The closure and post-closure maintenance requirements for closed landfills or disposal sites, such as IR Site 1, are defined in Title 27 CCR Chapter 3, Subchapter 5. The regulations require that a closed landfill or disposal site be maintained and monitored during the post-closure period to ensure that public health, public safety and the environment are protected and that wastes remaining on site do not pose a threat to water quality.

Section 21090 (Closure and Post-Closure Maintenance Requirements for Solid Waste Landfills) of Title 27 CCR Article 2, Subchapter 5 describes the performance standards and requirements for final cover systems, grading, erosion control, surface water drainage, and inspection and maintenance activities that are applicable to this site.

The IR Site 1 ROD indicates that monitoring of the landfill will continue in accordance with the PMMP (TtEMI 2002) as amended (Sullivan Consulting Group 2003).

1.3 Compliance Measures

The overall goal of the post-closure monitoring and maintenance program is to ensure the integrity, effectiveness and long-term maintenance and performance of the IR Site 1 soil cover and drainage system and associated institutional controls established for the site. A PMMP has been established for the former NFD Point Molate IR Site 1 landfill (TtEMI 2002). The requirement to implement the PMMP is specified in the Final ROD (BRAC PMO 2005).

The PMMP provides the following measures:

- Implementation of an inspection and maintenance program, including an emergency response plan, to maintain the integrity and long-term performance of the engineered soil cover and surface water drainage system were installed at IR Site 1;
- Performance of periodic inspection, monitoring, and reporting activities to document the long-term protection objectives;
- Performance of an annual topographic survey during the first three years for comparison with the baseline survey to detect areas of subsidence and monitor slope stability (since completed); and
- Performance of an annual inspection of the wetland mitigation compensation area (MCA) for the first three years to determine the success of the wetland vegetation establishment (since completed).

The results of the periodic inspections and surveys have been and will be compared with prior inspections to determine whether conditions of the soil cover system warrant reevaluation or repair.

1.4 Report Organization

This report is organized into six sections, including this introduction. Section 2 summarizes observations made during the monthly site visits. Section 3 discusses repair and maintenance activities recommended for the site. Section 4 discusses the wet season monthly sampling events. Section 5 lists references used during performance of the site inspection and preparation of this report.

Appendix A contains the site inspection forms and Appendix B contains documentation from the Contra Costa County Environmental Health Services quarterly inspection for the first quarter of 2013.

2.0 SITE MONITORING

On March 22, 2013, Kelly Wong of Terraphase and Lori Braunesreither, Contra Costa County Environmental Health Services Environmental Health Specialist II, conducted the 1st Quarter 2013 site monitoring of the IR Site 1 landfill cover. The monitoring included the quarterly and monthly inspection tasks established in the Final PMMP (TtEMI 2002) and the Final PMMP Revision 1 (Sullivan Consulting Group 2003). In addition, monthly monitoring was conducted by Terraphase on January 8, February 5, and March 7, 2013 because there had been a significant storm. In addition, the City of Richmond has a full-time security staff for the Former NFD Point Molate who performs periodic monitoring of the landfill's gates and locks.

The Final ROD (BRAC PMO 2005) specifies continuing monitoring per the Final PMMP as part of the selected remedy for the site. The purpose of the quarterly site monitoring is to assess the soil and vegetative cover and surface water drainage to identify evidence of erosion, cracking, and settlement that may warrant maintenance or repair. The purpose of the monthly monitoring was to assess site security and signage. Recommendations for repairs and further monitoring are provided in Section 3. The field notes from the site monitoring are included in Appendix A. The documentation from Contra Costa County Environmental Health quarterly site monitoring is include in Appendix B. Refer to Figure 3 for soil cover and drainage feature locations.

2.1 Signs and Gates

Signs at IR Site 1 were examined to verify they were posted, legible, and in good condition. Gate 17 (entrance gate) was secure and locked. The gates to the gas vent enclosures were locked. Signs were legible and in good condition. The signs near the paved area and at the northern boundary of the cover area were in good condition.

2.2 Erosion Control

Terraphase conducted visual monitoring of the vegetation, the composite turf reinforced matting (CTRM), and riprap by first inspecting the perimeter and then the interior areas of the soil cover. The vegetation was examined for signs of stress, stunted growth, wilting, changes in color, and bare spots. The CTRM was examined for loose areas, peeling, vegetation growth, and silt buildup. The riprap was examined for vandalism, displacement, vegetation, and sedimentation. The vegetation consisted primarily of grasses and low shrubs growing in various places on the landfill cover, particularly along the edges of the cover. Grasses have filled in between plugs and the paving stone area has well established vegetation. Rodent activity was observed during site visits, but the burrows were not significant. The CTRM was well secured to the ground and at the transition with the riprap, concrete, and paving stone.

2.3 Final Grading

Terraphase engineers conducted visual monitoring by walking the perimeter and traversing across the soil cover area. Terraphase examined the soil cover for the following:

- Erosion rills;
- Visible depressions;
- Ponded water;
- Exposed refuse;
- Cracks;
- Settlement and subsidence;
- Slope failure;
- Seeps; and
- Burrowing of animals.

No significant surface cracking (desiccation) was observed during the monitoring. The landfill cover will continue to be checked for surface cracks during future quarterly monitoring events. No ponding of water or any areas of subsidence were observed during the monthly site monitoring visits. Evidence of ponding will continue to be monitored.

During monitoring, there was evidence of burrowing animals on the north-central portion of the site, but the burrows were not significant. Rodent burrows will continue to be monitored.

No evidence of visible depressions, exposed refuse, settlement or subsidence, slope failure or seeps were observed during the quarterly monitoring.

Surveying of the settlement markers was conducted for three years following the final capping of the landfill.

2.4 Monitoring Systems

Terraphase engineers conducted visual monitoring of the groundwater monitoring wells, the soil gas monitoring wells, and the gas vents for structural integrity and general condition. The monitoring wells and gas vents were generally in good condition. Covers on the groundwater monitoring wells have bolts, but are not locked. All landfill gas turbines were observed to be turning and operational during the monthly site visits.

Terraphase is conducting a monitoring program for methane in soil gas and impacts of landfill constituents to groundwater and conducting site maintenance in accordance with the oil/water separator (OWS) PMMP, as required by the Final ROD (BRAC PMO 2005). The scheduled sampling and analysis program assesses whether concentrations of chemicals in groundwater

and OWS effluent, and concentrations of methane in soil gas samples at or immediately down gradient of IR Site 1, exceed applicable action levels and require additional action as a compliance activity. A complete description of the required monitoring activities can be found in the IR Site 1 PMMP (Tetra Tech 2002), and its subsequent revision (Sullivan Consulting Group 2003). The results of the monitoring are summarized in Section 5.0.

2.5 Drainage Features

The purpose of the surface water drainage system is to provide surface drainage to minimize infiltration through the landfill cover and to reduce and control erosion. The surface water drainage system consists of two cast-in-place concrete V-ditches located on the western and eastern sides of the IR Site 1 soil cover, grassed channels located on the east and west sides of the IR Site 1 soil cover, a natural drainage outlet on the north side of the IR Site 1 soil cover, pipes and a culvert near the paving stone area and two tailwater basins at the southern end of the IR Site 1 soil cover. The locations of the drainage features are shown on Figure 3. Construction details are described in the Final Cover Design, Design Basis Report, Design Drawings, and Specifications (TtEMI 2001b).

Terraphase engineers walked the surface water drainage features to monitor areas for discharge water, standing water, blockage of drainage channels, and the condition of the drainage features. The flow paths of the drainage channels and culvert were generally clear of blockages (some minor presence of vegetation). The condition of the concrete V-ditches showed some minor cracking; however, the V-ditches appeared to be stable.

The tailwater basins were in good condition with some vegetation growth. The natural drainage outlet was clear of significant buildup of silt and weeds. The OWS was intact. Standing water was noted in the tank. No flowing discharges were evident at the time of site inspection. The flow paths of the eastern and western grassed channels were free of debris, blockages, or other trash. No standing water was observed behind the terrace berm.

2.6 Paving Stones

Terraphase conducted visual monitoring of the paving stone area for signs of buckling or displacement. The paving stone area is located on the southeast side of the soil cover, north of the tailwater basin. The paving stones appeared to be sound without appreciable silt buildup. The vegetation is well established between the stones and the stones are secure. No broken stones were visible.

3.0 RECOMMENDATIONS

Recommendations for repairs that could not be completed during the site monitoring visits and further monitoring are provided below.

3.1 Signs and Gates

None.

3.2 Erosion Control

Continue monitoring rodent holes during the next inspection to determine if the cover is being compromised. Actions will be taken if significant erosion is evident or refuse is exposed.

3.3 Monitoring System

None.

3.4 Drainage Features

Continue monitoring vegetation and maintain height of vegetation in the drainage features between 6 and 12 inches per PMMP Section 2.3.4.2.

- Cleared vegetation from sides of drainage ditches; and
- Swept drainage ditches.

4.0 TREATMENT SYSTEM MONITORING

During the wet season (November through April), monthly influent and effluent sampling is conducted on the treatment system. This section summarizes the monthly monitoring results and significant storm monitoring results from the first quarter of 2013 at the treatment system. Treatment system influent and effluent monitoring for total petroleum hydrocarbons (TPHs) was conducted at IR Site 1 by Terraphase. Monitoring for TPH as gasoline (TPHg), TPH as jet propellant 5 (TPHjp5), TPH as diesel (TPHd), TPH as motor oil (TPHmo), and TPH as bunker fuel C (TPHbc) was conducted on January 8, February 5, and March 7, 2013. A summary of the analytical results from influent and effluent monitoring can be found in Table 1, which is attached to this report.

Data on the influent to the OWS collected during the 2013 first quarter sampling events was reviewed in comparison to previous sampling events and action levels (fuel product action levels [FPALs]). Review of water sample results indicates that concentrations of constituents are consistent with previous sampling events.

TPHg was detected in the influent to the OWS at concentrations ranging from 89 to 140 µg/L. TPHg was detected in the effluent from the OWS at concentrations ranging from 13 µg/L to 32 µg/L. The concentrations of TPHg in the effluent were below the applicable cleanup goal (ROD IR Site 1) of 448 µg/L.

TPHd was detected in the influent to the OWS at concentrations ranging from 270 to 400 µg/L. TPHd was detected in the effluent from the OWS at a concentrations ranging from 13 µg/L to 19 µg/L. The concentrations of TPHd in the effluent were below the applicable cleanup goal (ROD IR Site 1) of 640 µg/L.

TPHjp5 was detected in the influent to the OWS at concentrations ranging from 260 to 430 µg/L. TPHjp5 was detected in the effluent from the OWS at concentrations ranging from 6.8 to 11 µg/L. The concentrations of TPHjp5 in the effluent were below the applicable cleanup goal (ROD IR Site 1) of 640 µg/L.

TPHbc was detected in the influent to the OWS at concentrations ranging from 680 to 1,000 µg/L. TPHbc was not detected in the effluent from the OWS above the reporting limit of 290 µg/L, which is below the applicable cleanup goal (ROD IR Site 1) of 640 µg/L.

A two-pod sand filter, capable of treating up to 144 gallons per minute, was installed in January 2013. The sand filter was installed in the treatment system after the settling tank but prior to the GAC and organo-clay units. The sand filter reduces the presence of suspended sediment in the influent water to the GAC and organo-clay units, increasing their effectiveness by reducing their rate of occlusion.

TPHmo was not detected in the influent to the OWS or in the effluent from the OWS above the reporting limit of 300 µg/L, which is below the applicable cleanup goal (ROD IR Site 1) of 640 µg/L.

5.0 REFERENCES

Base Realignment and Closure Project Management Office (BRAC PMO) 2005. Final Record of Decision, Installation Restoration Site 1, Naval Fuel Depot Point Molate, Richmond, California. June.

Regional Water Quality Control Board (RWQCB). 2011. Updated Site Cleanup Requirements for the Former Naval Fuel Depot Point Molate. December.

Sullivan Consulting Group. 2003. Final Oil Water Separator Post-Closure Maintenance and Monitoring Plan Revision 1, Naval Fuel Depot Point Molate, Richmond, California. September.

Tetra Tech EMI (TtEMI). 2001a. IR Site 1 Action Memorandum, Naval Fuel Depot Point Molate, Richmond, California. June.

TtEMI. 2001b. Final Cover Design, Design Basis Report, Design Drawings, and Specifications. August.

TtEMI. 2002. Final Postclosure Maintenance and Monitoring Plan (PMMP), IR Site 1 Final Cover, Naval Fuel Depot Point Molate. August.

Table 1
Summary of Influent and Effluent Total Petroleum Hydrocarbons Analytical Results
Former Naval Fuel Depot Point Molate, Richmond, California

Constituent	Analytical Method	Units	Sample Frequency ⁽¹⁾	Cleanup Goals ⁽²⁾	Sample Date																			
					1/8/2013			2/5/2013			3/7/2013													
					Influent	Effluent		Influent	Effluent		Influent	Effluent												
Result	RL	MDL	Date Analyzed	Result	RL	MDL	Date Analyzed	Result	RL	MDL	Date Analyzed													
TPHg ⁽³⁾	EPA 801.5B	µg/l	M	-	89 Y ⁽⁴⁾	50	13	11-Jan	14 J ⁽⁴⁾	50	13	6-Feb	32 J ⁽⁴⁾	50	13	6-Feb	110 Y ⁽⁴⁾	50	5.7	12-Mar	13 J ⁽⁴⁾	50	5.7	12-Mar
TPHj ⁽⁵⁾	EPA 801.5B	µg/l	M	640	260	50	10	12-Jan	ND	50	10	7-Feb	6.8 J	49	5.6	7-Feb	430	49	5.5	12-Mar	11 J	49	5.5	12-Mar
TPHd ⁽⁶⁾	EPA 801.5B	µg/l	M	640	270 Y	50	16	12-Jan	19 J	50	16	7-Feb	14 J	49	12	7-Feb	400 Y	49	7.5	12-Mar	13 J	49	7.5	12-Mar
TPHmo ⁽⁷⁾	EPA 801.5B	µg/l	M	640	ND	300	84	12-Jan	ND	300	84	7-Feb	ND	290	79	7-Feb	ND	290	80	12-Mar	ND	290	80	12-Mar
TPHbc ⁽⁸⁾	EPA 801.5B	µg/l	M	640	680 Y	300	100	12-Jan	ND	300	100	7-Feb	930 Y	290	--	7-Feb	1000 Y	290	--	12-Mar	ND	290	--	12-Mar

Notes:

(1) Sampled monthly during wet season (November through April).
 (2) Based on FPAL from Final Fuel Product Action Level Development Report (TREM1, 2001).
 (3) Silica gel cleanup used for TPH analysis.

(4) Analyte detected in Trip Blank and/or Method Blank

-- = not measured/not applicable

ASTM = American Society for Testing and Materials

BOLD = analyte detected

EPA = Environmental Protection Agency

M = Monthly

J = Estimated value

Y = Sample exhibits chromatographic pattern, which does not resemble standard.

ND = Not Detected (Analyte was not detected above the RL)

MDL = Method Detection Limit

RL = Reporting Limit

TPHbc = total petroleum hydrocarbons quantified as bunker C

TPHd = total petroleum hydrocarbons quantified as diesel

TPHg = total petroleum hydrocarbons quantified as gasoline

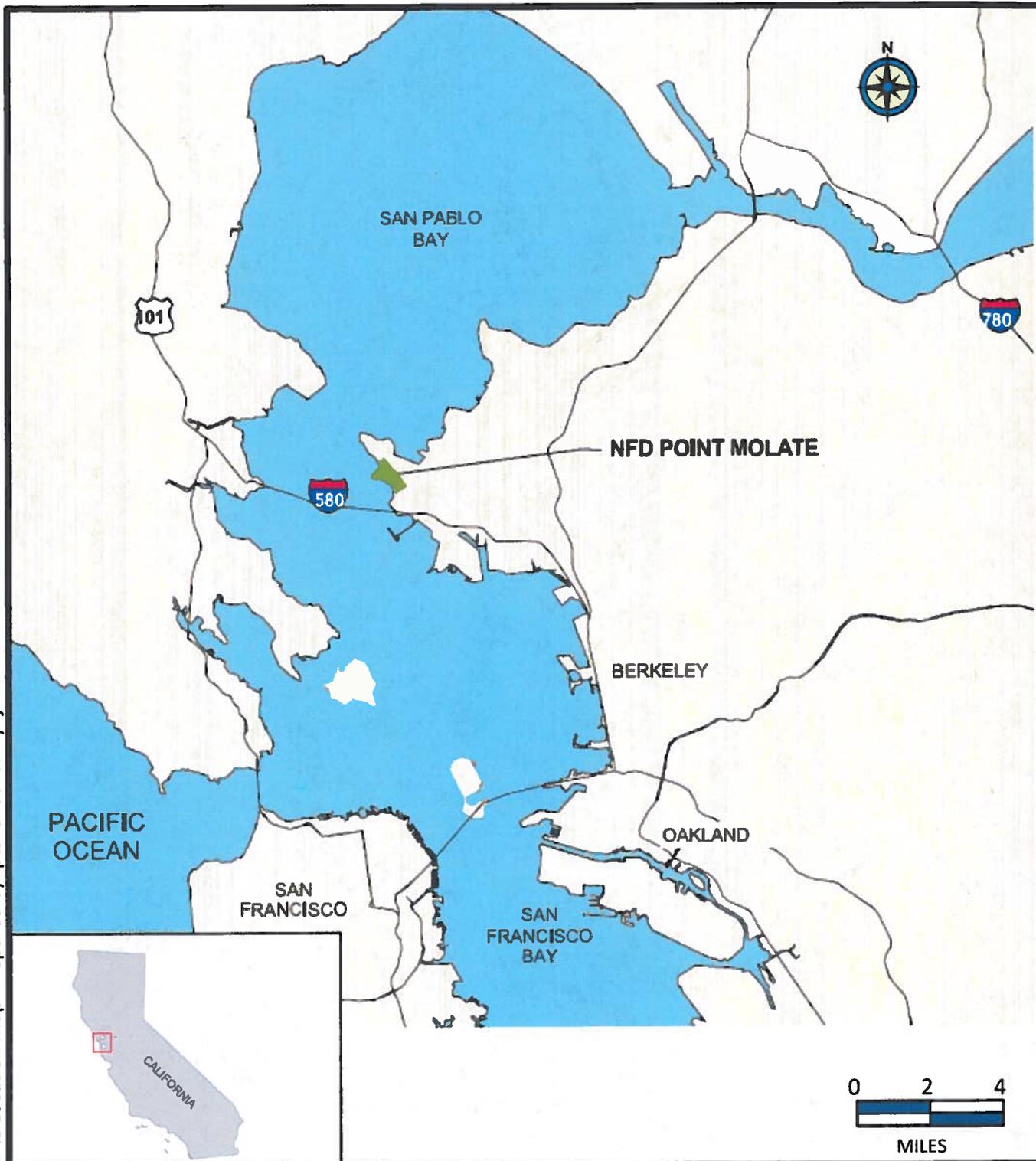
TPHj⁽⁵⁾ = total petroleum hydrocarbons quantified as jet propellant 5

TPHmo = total petroleum hydrocarbons quantified as motor oil

µg/l = micrograms per liter

12.A.4.18

File Name: Figure 1 – Site Location Map Prepared by: ptz Checked by: jrr

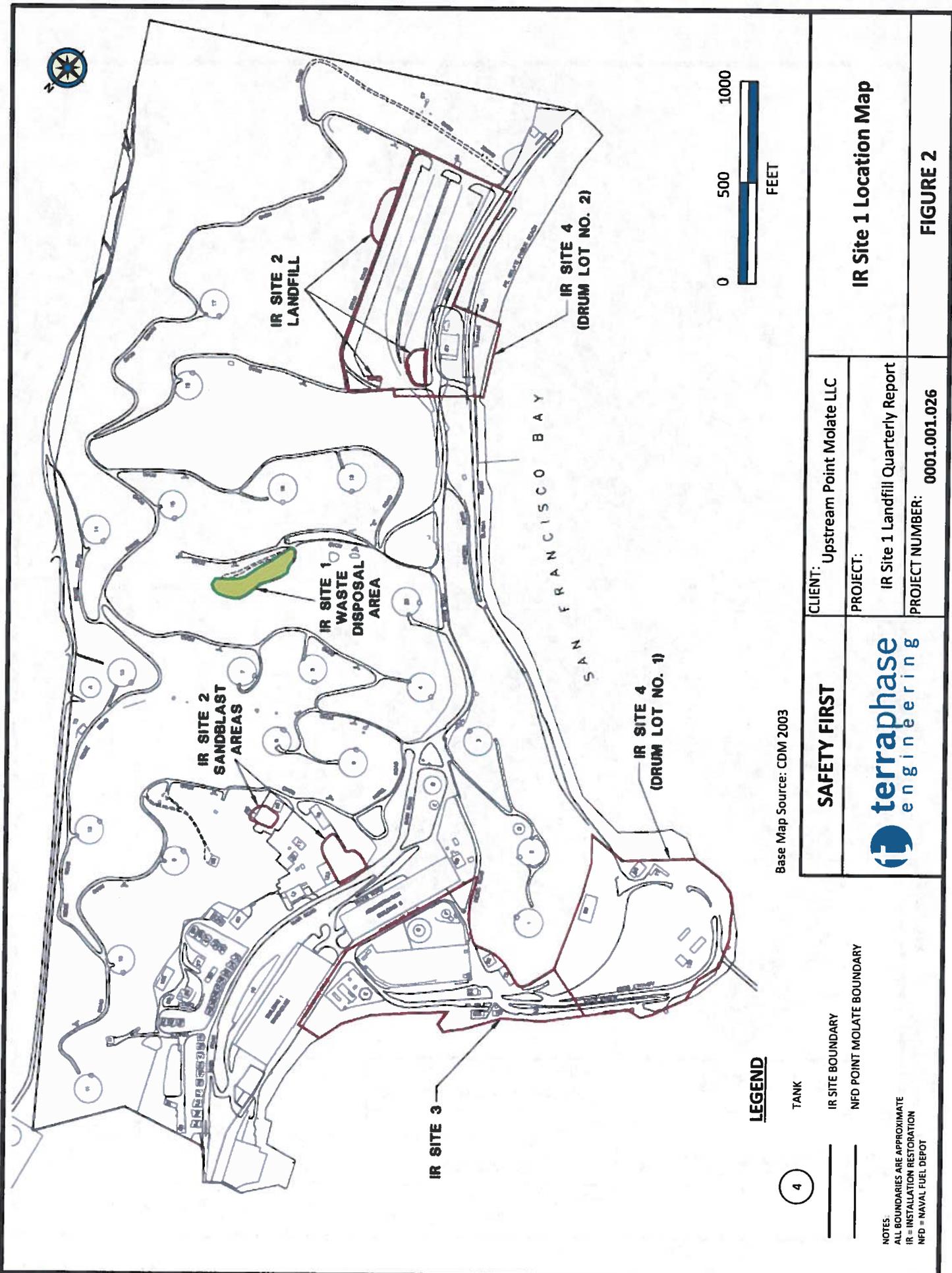


SAFETY FIRST	CLIENT: Upstream Point Molate LLC	Site Location Map
	PROJECT: IR Site 1 Landfill Quarterly Report	
	PROJECT NUMBER: 0001.001.0026	

FIGURE 1

12.A.4.19

12.A.4.20



Base Map Source: CDM 2003

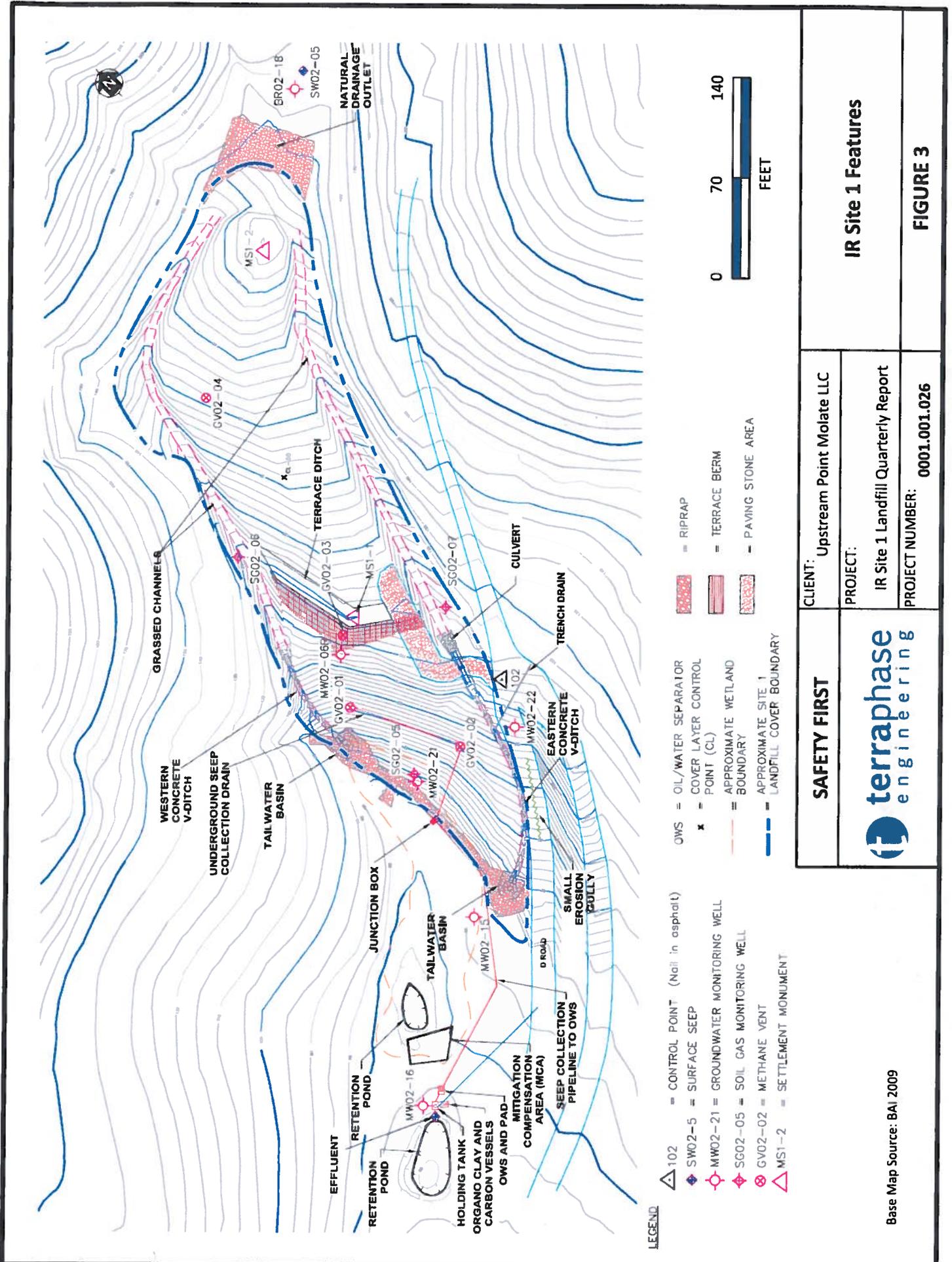
LEGEND

-  TANK
 -  IR SITE BOUNDARY
 -  NFD POINT MOLATE BOUNDARY
- NOTES:
 ALL BOUNDARIES ARE APPROXIMATE
 IR = INSTALLATION RESTORATION
 NFD = NAVAL FUEL DEPOT

<p>SAFETY FIRST</p> 	<p>CLIENT: Upstream Point Molate LLC</p>
	<p>PROJECT: IR Site 1 Landfill Quarterly Report</p>
	<p>PROJECT NUMBER: 0001.001.026</p>

IR Site 1 Location Map

FIGURE 2



APPENDIX A
SITE INSPECTION FORMS

Landfill Inspection

**Site 1 Post Closure Monitoring and Maintenance
Former Naval Fuel Depot Point Molate, Richmond**

Date: <u>1-8-2013</u>		Time: <u>1115</u>		Logged by: <u>KW, CT</u>	
Project Number: <u>0001.001.026</u>					
Weather Conditions: <u>Sunny, 50s°F</u>					
Frequency	Task	PMP Section	Action Needed	Action Completion Date	
Monthly	Inspection Signs and Gates	2.3.1	<u>None</u>		
Quarterly	Inspect Vegetation	2.3.4	<u>None</u>		
	Inspect Composite Turf Reinforced Matting	2.3.4	<u>None</u>		
	Inspect Riprap	2.3.4	<u>None</u>		
	Site Walk (Animal Burrows, Poned Water, Erosion, etc.)	2.3.4, 2.3.5	<u>None</u>		
	Inspect OWS	Revision 1, Section 2.0	<u>None</u>		
	Inspect Vents, Pipes, and Wells	2.3.2	<u>None</u>		
	Inspect Drainage Discharge Water	2.3.3	<u>None</u>		
	Inspect Drainage for Trash, Blockage, and Condition	2.3.3	<u>None</u>		
	Inspect Drainage Standing Water	2.3.3	<u>None</u>		
	Inspect Paving Stone	2.3.6	<u>Stones are broken and moved replace</u>		
Annual	Inspect Wetlands	2.4	<u>None</u>		
	Inspect OWS	Revision 1, Section 2.0	<u>None</u>		
Significant Wind/Storm	Inspect Vegetation	2.3.4	<u>---</u>		
	Inspect OWS	Revision 1, Section 2.0	<u>---</u>		
	Inspect Standing Water	2.3.3	<u>---</u>		
	Inspect Composite Turf Reinforced Matting	2.3.4	<u>---</u>		

Notes:

- Flow totalizer: 4065291 gallons
- White tank with open top is about 75% full
- Animal burrows are present Page 1 of 1 on site.

12.A.4.23

Landfill Inspection

Site 1 Post Closure Monitoring and Maintenance
Former Naval Fuel Depot Point Molate, Richmond

Date: 2-5-2013		Time: 1200		Logged by: CS, KW	
Project Number: 0001.001.026					
Weather Conditions: Sunny					
Frequency	Task	PMP Section	Action Needed	Action Completion Date	
Monthly	Inspection Signs and Gates	2.3.1	<i>None</i>		
Quarterly	Inspect Vegetation	2.3.4	<i>None</i>		
	Inspect Composite Turf Reinforced Matting	2.3.4	<i>None</i>		
	Inspect Riprap	2.3.4	<i>None</i>		
	Site Walk (Animal Burrows, Poned Water, Erosion, etc.)	2.3.4, 2.3.5	<i>None</i>		
	Inspect OWS	Revision 1, Section 2.0	<i>None</i>		
	Inspect Vents, Pipes, and Wells	2.3.2	<i>None</i>		
	Inspect Drainage Discharge Water	2.3.3	<i>None</i>		
	Inspect Drainage for Trash, Blockage, and Condition	2.3.3	<i>None</i>		
	Inspect Drainage Standing Water	2.3.3	<i>None</i>		
	Inspect Paving Stone	2.3.6	<i>Broken Stones</i>		
Annual	Inspect Wetlands	2.4	<i>-</i>		
	Inspect OWS	Revision 1, Section 2.0	<i>-</i>		
Significant Wind/Storm	Inspect Vegetation	2.3.4	<i>-</i>		
	Inspect OWS	Revision 1, Section 2.0	<i>-</i>		
	Inspect Standing Water	2.3.3	<i>-</i>		
	Inspect Composite Turf Reinforced Matting	2.3.4	<i>-</i>		

*Animal Burrows
Tank 1/2 full
Flow Totalizer 4087481 gal*

Landfill Inspection

Site 1 Post Closure Monitoring and Maintenance
Former Naval Fuel Depot Point Molate, Richmond

Date: 3-7-13	Time: 1515	Logged by: CT		
Project Number: 0001.001.026				
Weather Conditions: Overcast				
Frequency	Task	PMP Section	Action Needed	Action Completion Date
Monthly	Inspection Signs and Gates	2.3.1	<i>None</i>	
Quarterly	Inspect Vegetation	2.3.4	<i>None</i>	
	Inspect Composite Turf Reinforced Matting	2.3.4	<i>None</i>	
	Inspect Riprap	2.3.4	<i>None</i>	
	Site Walk (Animal Burrows, Ponded Water, Erosion, etc.)	2.3.4, 2.3.5	<i>None</i>	
	Inspect OWS	Revision 1, Section 2.0	<i>None</i>	
	Inspect Vents, Pipes, and Wells	2.3.2	<i>None</i>	
	Inspect Drainage Discharge Water	2.3.3	<i>None</i>	
	Inspect Drainage for Trash, Blockage, and Condition	2.3.3	<i>None</i>	
	Inspect Drainage Standing Water	2.3.3	<i>None</i>	
	Inspect Paving Stone	2.3.6	<i>None</i>	
Annual	Inspect Wetlands	2.4	<i>—</i>	
	Inspect OWS	Revision 1, Section 2.0	<i>—</i>	
Significant Wind/Storm	Inspect Vegetation	2.3.4	<i>—</i>	
	Inspect OWS	Revision 1, Section 2.0	<i>—</i>	
	Inspect Standing Water	2.3.3	<i>—</i>	
	Inspect Composite Turf Reinforced Matting	2.3.4	<i>—</i>	

Landfill Inspection

Site 1 Post Closure Monitoring and Maintenance
Former Naval Fuel Depot Point Molate, Richmond

Date: 3-22-2013		Time: 1400		Logged by: KW	
Project Number: 0001.001.026					
Weather Conditions: Sunny					
Frequency	Task	PMP Section	Action Needed	Action Completion Date	
Monthly	Inspection Signs and Gates	2.3.1	None		
Quarterly	Inspect Vegetation	2.3.4	None		
	Inspect Composite Turf Reinforced Matting	2.3.4	None		
	Inspect Riprap	2.3.4	None		
	Site Walk (Animal Burrows, Poned Water, Erosion, etc.)	2.3.4, 2.3.5	None		
	Inspect OWS	Revision 1, Section 2.0	None		
	Inspect Vents, Pipes, and Wells	2.3.2	None		
	Inspect Drainage Discharge Water	2.3.3	None		
	Inspect Drainage for Trash, Blockage, and Condition	2.3.3	None		
	Inspect Drainage Standing Water	2.3.3	None		
	Inspect Paving Stone	2.3.6	Broken paving stones should be replaced		
Annual	Inspect Wetlands	2.4	—		
	Inspect OWS	Revision 1, Section 2.0	—		
Significant Wind/Storm	Inspect Vegetation	2.3.4	—		
	Inspect OWS	Revision 1, Section 2.0	—		
	Inspect Standing Water	2.3.3	—		
	Inspect Composite Turf Reinforced Matting	2.3.4	—		

Notes:

- White tank with open top is almost full
- Animal burrows are present on the site
- Flow totalizer: 4,123,585 gallons

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**APPENDIX B
CONTRA COSTA COUNTY ENVIRONMENTAL HEALTH
SERVICES INSPECTION REPORT**

WILLIAM B. WALKER, M.D.
HEALTH SERVICES DIRECTOR
RANDALL L. SAWYER
CHIEF ENVIRONMENTAL HEALTH & HAZMAT OFFICER
MARILYN C. UNDERWOOD, PH.D. REHS
DIRECTOR OF ENVIRONMENTAL HEALTH



CONTRA COSTA
ENVIRONMENTAL HEALTH

2120 Diamond Blvd., Suite 200
Concord, California 94520
Ph (925) 692-2500
Fax (925) 692-2502
www.cchealth.org/eh

March 26, 2013

Ryan Janoch
Terraphase Engineering, Inc.
1404 Franklin Street, Suite 600
Oakland, California 94612

Subject: *LEA Inspection Report for the Naval Fuel Depot Point Molate,
Richmond, Facility No. 07-CR-0042*

Dear Mr. Janoch:

Contra Costa Environmental Health, as the Local Enforcement Agency (LEA) for solid waste, conducted a routine inspection of the above referenced closed site on **March 22, 2013**. A copy of the inspection report is enclosed for your records.

If you have any questions regarding the content of the enclosed inspection report or related compliance issues, please contact me at (925) 692-2528.

Sincerely,

Lori Braunesreither, REHS
Environmental Health Specialist II

Enclosure

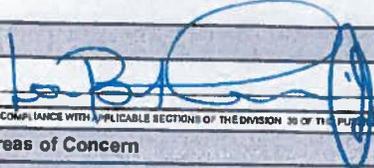
cc: Joe Doser, Supervising Environmental Health Specialist
Frank Davies, CalRecycle
Adriana Constantinescu, CA RWQCB SF Bay Region
Jim Levine, Upstream Point Molate, LLC
Bruce Goodmiller, Richmond Assistant City Attorney

LB:tf



12.A.4.29

Closed Disposal Site Inspection Report (188)

Enforcement Agency:		County of Contra Costa			
SWIS Facility File Number (99-xx-9999)		Inspection Date		Program Code	
07-CR-0042		3/22/2013		LEA Periodic	
Time In	1:45	Time Out	3:30	Inspection Time	1.75
Facility Name			Received By		
Naval Fuel Depot Point Molate Site 1			U.S. Department of the Navy-SW Div NFEC		
Facility Location			Owner Name		
NFD Point Molate / 330 - 25th Street, Richmond 94804					
Inspector			Also Present (Name)		
Lori Braunesreither 			Kelly Wong - City of Richmond, Kim Smith & Takeya		
<small>THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF THE DIVISION 39 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 14 AND TITLE 27 CALIFORNIA CODE OF REGULATIONS (CCR)</small>					
<input checked="" type="checkbox"/>	No Violations or Areas of Concern				
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Regulations			
Inspection Report Comments:					
1st Quarter 2013 Routine Inspection					

12.A.4.30

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12.A.4.31

12.A.4.32



12.0.1.2

glen-cove FNL-1.jpg

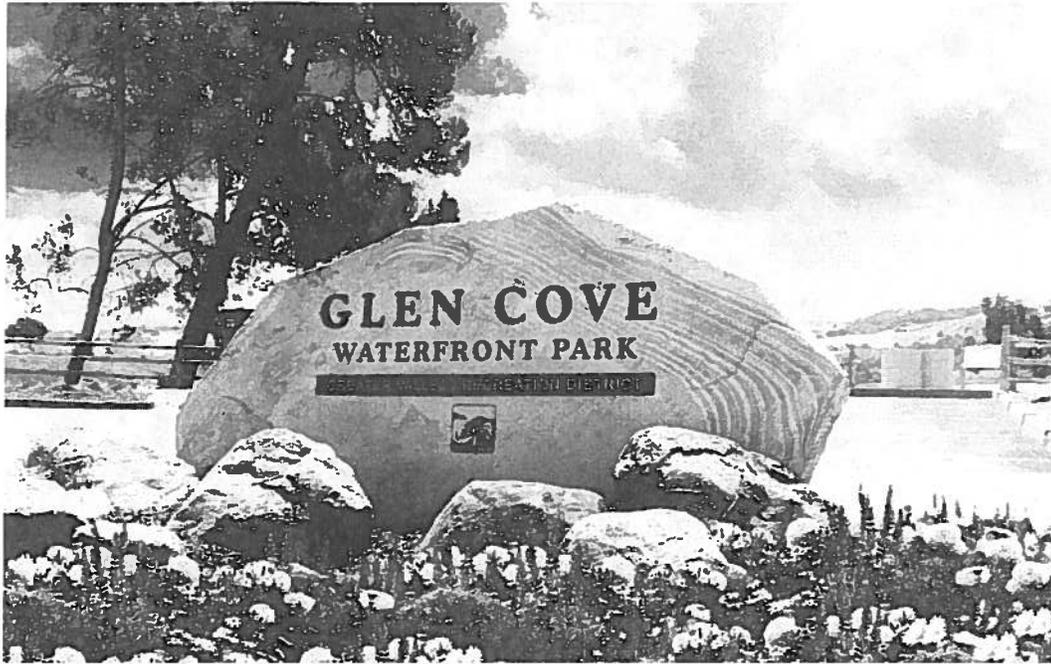
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SIGN IN

Comments

Share

100%



12.0.1.3

12.0.1.4

Point Molate mock up.jpg

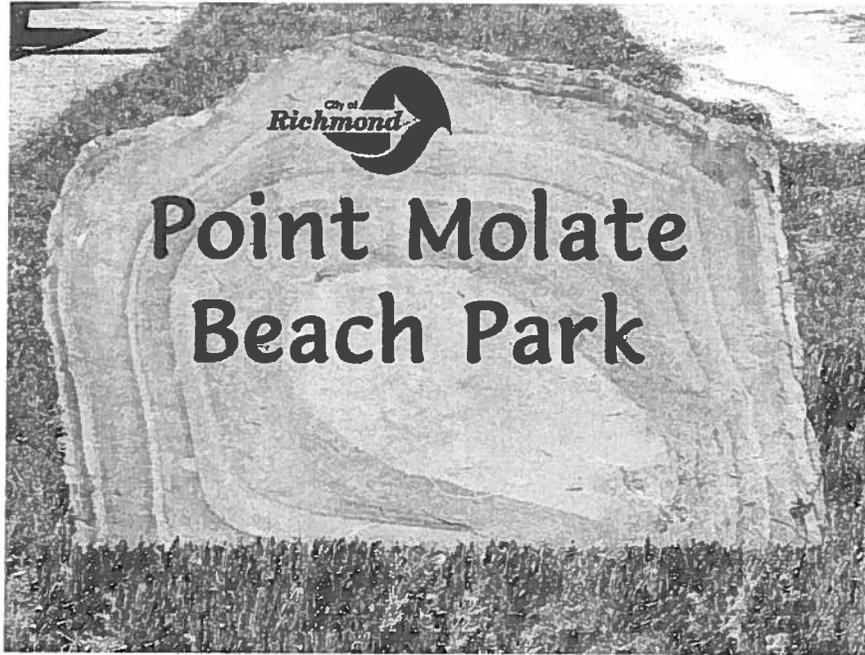
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Comments

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12.0.1.5

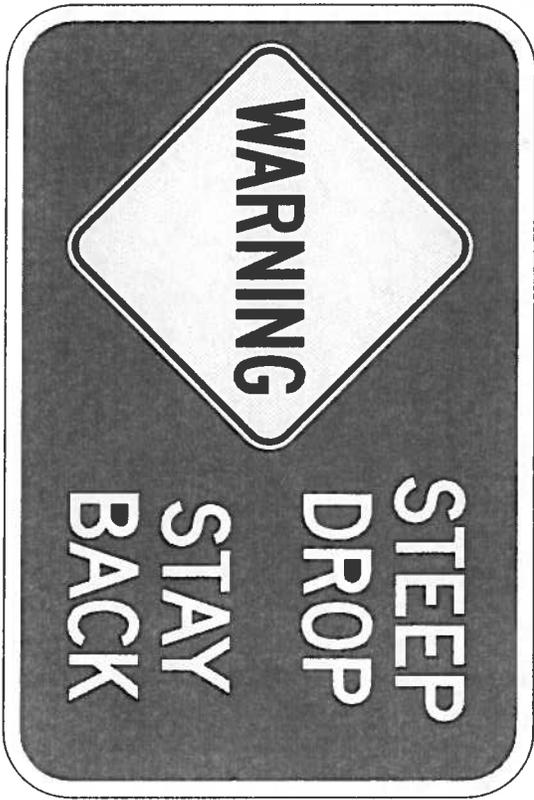
12.D.1.6

18" X 12"



12.D.1.7

12.D.1.8



18" X 12"

12.D.1.10

CITY OF RICHMOND PARK RULES:

Park Closed
Sunset to Sunrise
(except by permit)

- * No Alcoholic Beverages
- * Dogs Must Be on Leash
- * Pick up After Your Dog
- * No Motorized Vehicles
- * Zone of Quiet

- (No Amplified Sound May Be Heard
More Than 30 Feet From Source).

PD Dispatch 510-233-1214

RMC 10.24.020, 7.64.030

& 10.24.030



PROPERTY OF CITY OF RICHMOND REV. 04

12.D.1.11

12.D.1.12

Craig Murray

From: Ian Wren <ian@baykeeper.org>
Sent: Friday, June 14, 2013 11:26 AM
To: Craig Murray
Subject: Pt. Molate Update - Baykeeper

Hi Craig,

If you need anything else to present to the Committee let me know:

Baykeeper would like to thank all the members of the committee for their engagement in the Pt. Molate Marine Debris Removal Project. This project is being carried out by Baykeeper, with the support of the National Oceanic and Atmospheric Administration (NOAA) and Pacific Automated/Brix Beverage, a local business that has offered to provide technical assistance during the final phase of the marine debris removal efforts.

- Since March Baykeeper and local volunteers have mobilized hundreds of contaminated pilings and other debris for removal.
- The large pier section along the beach has been sectioned for removal, along with rusted pipe, tires, and other debris.
- Next week, the week of June 17, removal operations will begin, at which time a skip steer (Bobcat) will be used to remove large material from the beach and re-locate it closer to the parking lot for subsequent removal via debris bins.
- The City has generously offered to assist in disposal of non-creosote contaminated material. All contaminated material shall be disposed of at a landfill in Pittsburg authorized to receive treated wood waste.
- In total, Baykeeper hopes to remove approximately 100 tons of material from the Pt. Molate Beach Park and surrounding shoreline by August of this year.

--

Ian Wren

Staff Scientist

San Francisco Baykeeper

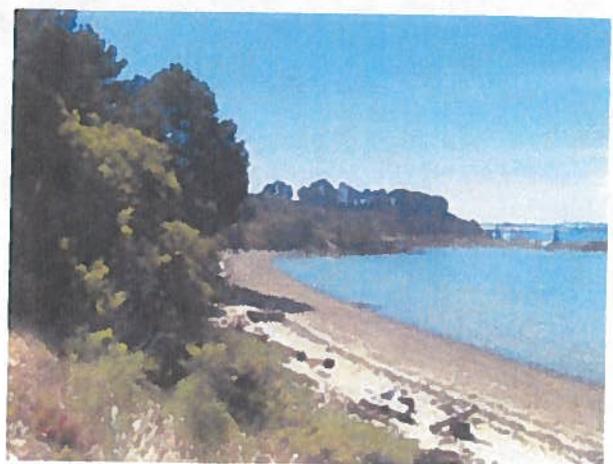
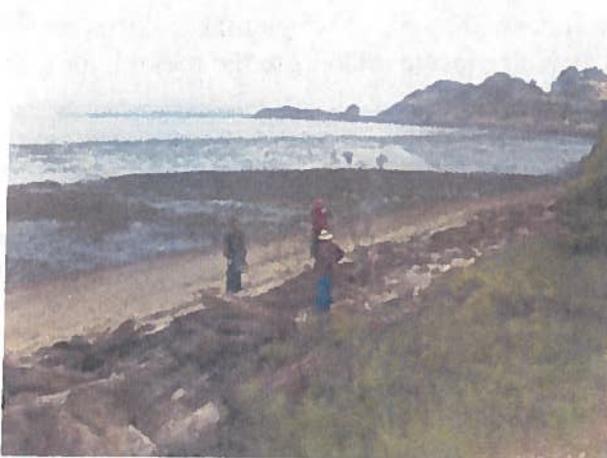
785 Market St., Suite 850

San Francisco, CA 94103

t: (415) 856-0444 x108

Baykeeper - PMCAC May 20, 2013 Item 12d

Pt Molate Beach Marine Debris Clean-Up



12.D.2.1

12.D.2.2