N00236.001446
ALAMEDA POINT
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DOCUMENT NAME: WORK PLAN, NON-TIME CRITICAL REMOVAL ACTION, SITE 16 CANS C-2 AREA AND SITE 15-TSTA, NAVAL AIR STATION ALAMEDA, ALAMEDA, CALIFORNIA D.O.# 0037

DOCUMENT REVISION: 0

NOTE: PLEASE REMOVE PAGE 2-2 AND 2-3 AND REPLACE WITH ENCLOSED REVISED PAGES.

ISSUED TO AND LOCATION: MR GEORGE KIKUGAWA, CODE ~~0222GK~~ 1831.2, DEPARTMENT OF THE NAVY, EFA-WEST, NAVAL FACILITIES ENGINEERING COMMAND, 900 COMMODORE DRIVE, BLDG B208, SAN BRUNO CA 94066-2402

HAVE RECEIVED THE ABOVE LISTED DOCUMENTS

Name (Printed): GEORGE KIKUGAWA

Name (Signed): George Kikugawa

Company Name/Office: EFA WV

Date Received: 10-14-97

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MARTINEZ, CA 94553

1446

2.3 Excavation

Excavation activities will occur at both Site 16 and the TSTA, however, due to concerns about the potential for off-site migration of dust, initial excavation activities will begin at Site 16. Site 16 consists of an open area where large storage containers were used to store chemicals. These shipping containers reportedly corroded and leaked over the years. PCB oil was used for weed control in this storage yard until 1963.

All material will be removed using a track mounted excavator. Used concrete/asphalt will be excavated and recycled using an approved recycling facility. The perforated steel plates (PSP) will then be removed and loaded directly into trucks for transportation and disposal at an approved disposal facility. The contaminated soil to be excavated extends to a depth of 1 foot below ground surface (bgs). To the contaminated soil will be excavated and loaded directly onto trucks. Once loaded, the trucks will proceed to the temporary truck scales, weighed, and covered with tarps. Trucks which are overweight will return to the work area and have excess soil removed. Trucks which are determined to be too light will also return to the work area for additional loading. Once fully loaded and weighed, the trucks will be manifested and sent to the disposal facility.

The liner material used in the construction of the TSTA will be separated and loaded into bins for disposal at a Class II disposal facility. Once the liner has been removed, the soil in the TSTA will be profiled for disposal at an approved disposal facility. The electrical panel and water treatment system will be disconnected. Upon completion of these activities, the contaminated soil at the TSTA will be loaded into trucks and weighed and manifested for disposal at an approved disposal facility.

At all times during site work, dust will be controlled to prevent migration. In order to minimize any exposure to fugitive dust at Site 16, all soil excavation will be conducted during the weekends when school is not in session. If work extends into the school year, all work will be performed in the early morning hours prior to the start of the school day. Dust control at both sites will be accomplished through the use of a water truck and a hose. All excavation will cease when the wind gusts exceed 25 mph or constant wind speed is in excess of 10 mph. A wind speed indicator will be used at Site 16. Air particulate monitoring will be conducted during the removal action to comply with this restriction at Site 16.

Site security consisting of an exclusion zone, contamination reduction zone, and support zone will be established at both Site 16 and the TSTA. The zones will be established to include all work areas and will be marked with caution tape.

A personnel decontamination (decon) station will be established adjacent to the work area. The personnel decon station will consist of a step off area for donning and doffing protective clothing, and a series of tubs or buckets for washing boots, respirators, and washing hands and face. An equipment decon station will be established adjacent to each work area for the decontamination of the excavator used during soil excavation activities. The equipment decon station will consist of an area where the equipment will be brushed off with brooms.

2.4 Sampling and Analysis

Once the top 12 inches of contaminated soil have been removed, PRC will conduct the confirmation sampling to verify that all soil with PCB and lead concentrations exceeding the cleanup levels has been removed. Sample locations which exceed the cleanup levels will require additional excavation. Excavation will continue until analytical data verifies the site to be clean.

2.5 Hauling of Contaminated Soil

All contaminated soil as well as the PSP will be excavated and loaded directly onto trucks for transportation and disposal at the Altamont Landfill in Livermore. The trucks will exit the base from the East Gate and leave the city through the Posey Tube. The trucks will then immediately enter the 880 freeway using the Harrison Street on-ramp in Oakland for southbound destinations or Broadway Street on-ramp for northbound destinations. Once loaded, the trucks will be weighed, covered with a tarp, and manifested. Signature on the manifest by the Navy representative will be obtained prior to transportation. A hazardous waste manifest will be provided by IT.

2.6 Backfill and Compaction

Once the removal actions have been completed at Site 16 and the TSTA, the excavations will be backfilled with clean fill placed in 6-inch lifts compacted to 90 percent or greater relative compaction. Prior to placement, the backfill will be certified as clean. Compaction testing will be performed using nuclear density method. The clean backfill will be brought to the surface at both sites. Since the removal action at Site 16 will not extend greater than 12 inches below ground surface and the removal action at the TSTA consists of removing a stockpile, it is

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Name (Signed): George Kikugawa

Company Name/Office: EFA W

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4585 PACHECO BLVD
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3.0 Environmental Protection Plan

The Environmental Protection Plan for the project has been developed to prevent the spread of contamination from Site 16 and the TSTA, with special emphasis to protect the high school located adjacent to Site 16.

Temporary six-foot fencing will be used to provide site security at the TSTA and Site 16. A utility survey will be conducted at Site 16 prior to beginning field work to verify utility locations which may interfere with the planned excavation activities. In the event that utility relocation is required, the Resident Officer in Charge of Construction will be contacted for direction. At Site 16, the fence to the east of the CANS will be covered with plastic to help control dust.

The storm drains will be covered with hay bales to prevent fugitive runoff from entering the storm drain system.

Excavated soil will be loaded into trucks and transported to an approved disposal facility. The soil will not be stockpiled before excavation. Dust control will be accomplished with the use of a water truck and hose. The spraying of water will be directed by the project superintendent based on wind velocity and site observations. Dust control will be performed at both Site 16 and the TSTA.

Excavation equipment and the trucks used for transportation will be brushed off prior to leaving the base. A street sweeper will be used to keep the roadways clean and free from dirt accumulation.

Site restoration at Site 16 will consist of backfilling the excavation with clean imported fill material and gravel from the TSTA. The TSTA will be restored by removal of the stockpiles. Both Site 16 and the TSTA will be graded to the original grade and will provide drainage to prevent water from ponding. No concrete/asphalt resurfacing will be done at either location.

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DOCUMENT NAME: SAMPLING AND ANALYSIS PLAN, NON-TIME CRITICAL REMOVAL ACTION, SITE 16 CANS C-2 AREA AND SITE 15-TSTA, NAVAL AIR STATION ALAMEDA, ALAMEDA, CALIFORNIA D.O.# 0037

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Name (Signed): George Kikugawa

Company Name/Office: EFAXX

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MARTINEZ, CA 94553

2.0 Sampling Objectives

Sampling and analysis of the materials generated during the excavation activities will be performed to determine proper disposal of the solid wastes. Solid wastes will be characterized for disposal at an appropriate off-site landfill. The analytical results will be evaluated to determine the most cost effective offsite disposal facility. The analytical data will be reviewed by the Project Manager (PM) and designated technical personnel to determine the proper disposal method for the generated wastes. This data will be available to the Navy, regulatory agencies and off-site landfill personnel.

IT will sample the sand and gravel at the TSTA to verify it as clean. Five samples will also be collected from the trench and sump at the TSTA to verify the native soil as not being impacted by the contaminated soil stockpiles.

Sampling and analysis of remaining soil after initial excavation activities will be conducted by PRC EMI to determine the extent of the excavation and to confirm that soil containing hazardous substances at concentrations that meet the project remediation goals are removed. Excavated soil will be sampled and analyzed to determine proper disposal. Since results of the sampling and analysis will be used to determine the ultimate disposition of the generated waste, definitive data is required. Only a Navy and IT Corporation (IT) approved analytical laboratory will be subcontracted to perform the required analyses. Analytical results will be submitted to IT in a standard laboratory report as described in Section C.1, Task 8.0 of IT's Navy RAC Analytical Services subcontract, February 1995.

Perimeter air monitoring for airborne PCB's and lead will take place during all excavation activities at Site 16.

All sampling activities will be performed in accordance with Section 9 of the Program Contractor Quality Control Plan (PCQCP) for Environmental Remedial Actions, Revision 1, September 1995.

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DOCUMENT NAME: HEALTH AND SAFETY PLAN, NON-TIME CRITICAL REMOVAL ACTION, SITE 16 CANS C-2 AREA AND SITE 15-TSTA, NAVAL AIR STATION ALAMEDA, ALAMEDA, CALIFORNIA D.O.# 0037

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Table 8-2

Air Monitoring Frequency and Location

WORK ACTIVITY	INSTRUMENT	FREQUENCY[1]	LOCATION
Task 1			
Mobilization	PID or FID Miniram O2/LEL Detector Tube	N/A N/A N/A N/A	N/A N/A N/A N/A
Task 2			
Site Preparation	PID Miniram O2/LEL Detector Tube	N/A N/A N/A N/A	N/A N/A N/A N/A
Task 3			
Utility clearance and survey	PID Miniram O2/LEL Detector Tube (Benzene)	N/A N/A N/.A N/A	N/A N/A N/A N/A
Task 4			
Soil sampling and characterization	PID Miniram O2/LEL Detector Tube (Benzene)	Periodically Continuously N/A If Required	BZ of employees BZ of employees N/A BZ of employees
Task 5			
Excavation of contaminated soils	PID Miniram O2/LEL Personal Sampling Pumps for lead and PCBs at Sites 15/16 Detector Tube (Benzene)	Periodically Continuously N/A Full Shift If required	BZ of employees BZ of employees and perimeter N/A BZ of employees and perimeter BZ of employees
Task 6			
Loading and disposal of contaminated soils	PID Miniram O2/LEL Personal Sampling Pumps for lead and PCBs at Sites 15/16 Detector Tube (Benzene)	Periodically Continuously N/A If required; Full Shift If required	BZ of employees BZ of employees and perimeter N/A BZ of employees and perimeter BZ of employees
Task 7			
Equipment decontamination	PID Miniram O2/LEL Detector Tube (Benzene)	Periodically Continuously N/A If required	BZ of employees BZ of employees N/A BZ of employees
Task 8			
Backfill/compaction	PID Miniram O2/LEL Detector Tube (Benzene)	N/A Periodically N/A N/A	N/A BZ of employees N/A N/A
Task 9			
Site restoration	PID Miniram O2/LEL Detector Tube (Benzene)	N/A N/A N/A N/A	N/A N/A N/A N/A
Task 10			
Demobilization	PID Miniram O2/LEL Detector Tube (Benzene)	N/A N/A N/A N/A	N/A N/A N/A N/A

[1] Frequency of air monitoring may be adjusted by the CIH after sufficient characterization of site conditions has been completed. Periodic is defined as at least once an hour unless sampling data demonstrates a less frequent monitoring schedule is justified

Occupational Physician Environmental Medicine Resources	Elayne Theriault, M.D. (800) 229-3674 (770) 455-0818
Medical Incident Reporting Environmental Medicine Resources Case Manager	Lea R. Bessey, RN, OHN (800) 229-3674 (770) 455-0818
Navy Contact ROICC	Jones Tong (510) 302-2273
Hospital	Alameda Hospital 2070 Clinton Ave. (510) 523-4357

Directions to Medical Care,

From the East Gate,
Take Atlantic Avenue to Webster street (Highway 61),
Turn right,
Continue to Central Avenue, to left (Highway 61),
Continue to Willow street,
Turn right to hospital,
Corner of Clinton and Willow.

FINAL
WORK PLAN
CONTRACTOR QUALITY CONTROL PLAN
ENVIRONMENTAL PROTECTION PLAN
SAMPLING AND ANALYSIS PLAN
SITE HEALTH AND SAFETY PLAN
NON-TIME CRITICAL REMOVAL ACTION
SITE 16-CANS C-2 AREA AND SITE 15-SOIL REMOVAL AT TSTA

DATED 12 SEPTEMBER 1997

IS ENTERED IN THE DATABASE AND FILED AT ADMINISTRATIVE RECORD NO. **N00236.001434**