

Southwest Division
Naval Facilities Engineering Command
Contracts Department
1220 Pacific Highway, Building 127, Room 112
San Diego, CA 92132-5190

N00236.001792
ALAMEDA POINT
SSIC NO. 5090.3

CONTRACT NO. N68711-98-D-5713
CTO No. 0087

FINAL
VEGETATION CLEARANCE PLAN
Revision 1
March 5, 2004

**RADIOLOGICAL SURVEY AT
INSTALLATION RESTORATION SITE 1
1943-1956 DISPOSAL AREA AND SITE 2 WEST BEACH LANDFILL
ALAMEDA POINT
ALAMEDA, CALIFORNIA**

DCN: FWSD-RAC-04-1278



TETRA TECH FW, INC.
1230 Columbia Street, Suite 500
San Diego, CA 92101

A handwritten signature in black ink, appearing to read 'Vincent Richards', written above a horizontal line.

Vincent Richards, R.G., C.E.G.
Project Geologist

A large, stylized handwritten signature in black ink, written above a horizontal line.

Abram S. Elskof, M.Eng., M.Sc., CIH
Project Manager



DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090
Ser 06CA.CD\0251
March 1, 2004

Mr. Mark Ripperda
US EPA
Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Ripperda:

Subj: FINAL VEGETATION CLEARANCE WORK PLAN FOR IR SITE 1 AND 2

This letter transmits the Final Vegetation Clearance Work Plan for IR Site 1 and 2. This work plan is a precursor for the Site 1 and 2 Radiological Survey Work Plan that will soon be following. It was the Navy's understanding that based on verbal agreement, your review of this document was unnecessary. This document is provided to you for informational purpose.

If you have any questions, please call Ms. Claudia Domingo, Remedial Project Manager at (619) 532-0935.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gregory Lorton".

GREGORY LORTON
Acting BRAC Environmental Coordinator
By direction of the Commander

5090
Ser 06CA.CD\0251
March 1, 2004

Copy to:
Ms. Marcia Liao
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710-2721

Ms. Judy Huang
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Ms. Penny Leinwander
DHS Environmental Health Branch
1616 Capitol Avenue MS 7405
P.O. Box 942732
Sacramento, CA 94234-7320

Ms. Rachel Hurt
U.S. Fish and Wildlife Service
P.O. Box 159
Alameda, CA 94501

Mr. Matthew L. Slack
NAVSEADET RASO
NWS P.O. Drawer 260
Yorktown, VA 23691-0260

Mr. Gregory Grace
ROICC SF Bay Area
2450 Saratoga Street, Suite 200
Alameda, CA 94501



TETRA TECH FW, INC.

TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N68711-98-D-5713 (RAC III)

Document Control No. 04-1278 Rev. 1

File Code: 5.0

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Ms. Beatrice Appling, 02R1.BA
1220 Pacific Highway
San Diego, CA 92132-5190

DATE: 03/11/04
CTO: 0087
LOCATION: Alameda Point

FROM: Neil Hart, Program Manager

DESCRIPTION: Final Vegetation Clearance Plan, Rev. 1, 03/05/04
Radiological Survey at Installation Restoration Site 1 1943-1956 Disposal Area and Site 2 West
Beach Landfill, Alameda Point, Alameda, California (Replacement Pages)

TYPE: Contract/Deliverable, CTO Deliverable, Notification, Other

VERSION: Final REVISION #: 1
(e.g. Draft, Draft Final, Final, etc.)

ADMIN RECORD: Yes, No, Category, Confidential

SCHEDULED DELIVERY DATE: 03/11/04 ACTUAL DELIVERY DATE: 03/11/04

NUMBER OF COPIES SUBMITTED: 0/4C/6E Copy of SAP to N. Ancog

COPIES TO: (Include Name, Navy Mail Code, and Number of Copies)

NAVY: C. Domingo (06CA.CD)O/3E
D. Silva (05GDS)3C/3E
Basic Contract File (02R1)
1C
TtFW: A. Eloskof
M. Schneider
V. Richards
OTHER: (Distributed by TtFW)

Date/Time Received



TETRA TECH FW, INC.

March 5, 2004
FWSD-RAC-04-1278
CTO No. 0087

Ms. Claudia Domingo
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division
Code 06CA.CD
1230 Columbia Street
San Diego, CA 92101-8517

Subject: **Final Vegetation Clearance Plan, Radiological Survey at Installation
Restoration Site 1 1943-1956 Disposal Area and Site 2 West Beach Landfill,
Alameda Point, Alameda, California, Revision 1, March 5**

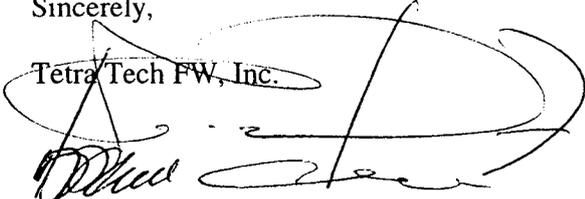
Reference: SWDIV Contract No. N68711-98-D-5713, CTO No. 0087,
Environmental Remedial Action Contract for Sites in Southern California,
Arizona, New Mexico, and Southern Nevada

Dear Claudia:

Enclosed is a set of replacement pages for the subject work plan. The replacement pages incorporate additional information regarding the site personnel and cover sheets for procedures that do not require signatures. If you have any questions please call me at (949) 756-7521.

Sincerely,

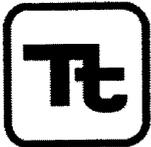
Tetra Tech FW, Inc.



Abram Eloskof, M.Eng., M.Sc., CIH
Project Manager

Attachment





TETRA TECH FW, INC.

TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N68711-98-D-5713 (RAC III)

Document Control No. 04-1278

File Code: 5.0

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Ms. Beatrice Appling, 02R1.BA
1220 Pacific Highway
San Diego, CA 92132-5190

DATE: 03/01/04

CTO: 0087

LOCATION: Alameda Point

FROM:

Neil Hart (signature)

Neil Hart, Program Manager

DESCRIPTION: Final Vegetation Clearance Plan, Rev. 0, 02/27/04

Radiological Survey at Installation Restoration Site 1 1943-1956 Disposal Area and Site 2 West
Beach Landfill, Alameda Point, Alameda, California

TYPE: [] Contract/Deliverable [x] CTO Deliverable [] Notification
[] Other

VERSION: Final
(e.g. Draft, Draft Final, Final, etc.)

REVISION #: 0

ADMIN RECORD: Yes [x] No [] Category [] Confidential []
(PM to Identify)

SCHEDULED DELIVERY DATE: 03/01/04 ACTUAL DELIVERY DATE: 03/01/04

NUMBER OF COPIES SUBMITTED: 4/03C/3E Copy of SAP to N. Ancog []

COPIES TO: (Include Name, Navy Mail Code, and Number of Copies)

NAVY: C. Domingo (06CA.CD)O/3E
Basic Contract File (02R1)
1C

TtFW: A. Eloskof
M. Schneider
V. Richards

OTHER: (Distributed by TtFW)
See Attached Cover Letter for
Additional Distribution

Date/Time Received

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- Attachment 1 Definable Feature of Work and Quality Control Forms
- Attachment 2 Health and Safety Revisions
- Attachment 3 Personnel and Equipment Screening
- Attachment 4 Project Management Summary

ABBREVIATIONS AND ACRONYMS

BRAC	Base Realignment and Closure
DERP	Defense Environmental Restoration Program
DO	Delivery Order
EFANN	Engineering Field Activity Northwest
FWENC	Foster Wheeler Environmental Corporation
IR	Installation Restoration
NAS	Naval Air Station
PESM	Project Environmental and Safety Manager
PPE	personal protective equipment
PRC	PRC Environmental Management, Inc.
QC	quality control
RAC	Remedial Action Contract
RTC	Radiological Control Technician
SHSS	Site Health and Safety Specialist
SSPORTS	Supervisor of shipbuilding, Conversion and Repair, Portsmouth
SWDIV	Southwest Division Naval Facilities Engineering Command
TtFW	Tetra Tech FW, Inc.

1.0 INTRODUCTION

This Vegetation Clearance Plan describes the specific activities pertaining to the clearing of surface vegetation prior to conducting a radiological survey at Installation Restoration (IR) Site 1 1943-1956 Disposal Area (Site 1) and Site 2 West Beach Landfill (Site 2), Alameda Point, Alameda, California. The Southwest Division Naval Facilities Engineering Command (SWDIV) has authorized Tetra Tech FW, Inc. (TtFW), formerly Foster Wheeler Environmental Corporation (FWENC), to perform the subject radiological survey under Contract Task Order No. 0087 through the contracting mechanism of SWDIV, Remedial Action Contract (RAC) N68711-98-D-5713.

Prior to conducting the radiological survey, both sites will require a vegetation clearance that must be completed by March 15, 2004, to avoid an avian nesting season. TtFW intends to prepare a Radiological Survey Work Plan for each site that will describe the scope of the various survey activities. However, to avoid the possible avian nesting that may interfere with the surveys, the Navy has directed TtFW to perform the vegetation clearance prior to finalizing the survey Work Plans. Accordingly, TtFW will perform the vegetation clearance work in accordance with this plan and existing quality control (QC) measures and Health and Safety Plans used for previous work activities by TtFW for IR Sites 1 and 2 (FWENC, 2001a; 2001b; 2001c; 2002a; 2002b). Those work activities were completed under Engineering Field Activities Northwest (EFANW) RAC II No. N44255-95-D-6030, Delivery Order (DO) No. 0095, and were performed under the Defense Environmental Restoration Program (DERP) for Base Realignment and Closure (BRAC).

1.1 OBJECTIVE

The objective of the new work is to cut existing vegetation to within a minimum of 2 inches in the IR Site 1 and 2 areas in preparation for a radiological survey. The cut vegetation will be left in-place or may be required to be spread in a manner that ensures that all bare ground within the worksite is covered. The work will be conducted prior to the radiological survey to avoid an avian nesting season.

2.0 PLANNED ACTIVITIES

This section will briefly describe the specific field activities involved in the planned vegetation clearance. When appropriate, this section will refer to the existing QC Plan and Health and Safety Plans for IR Sites 1 and 2, prepared under preceding DOs.

2.1 VEGETATION CLEARANCE ACTIVITIES

Prior to the start of field activities at IR Sites 1 and 2, all on-site personnel will be briefed on the protection of natural resources, including compliance with the intent of Section 404 of the Clean Water Act, which requires compensating for all wetland areas impacted by investigation or remediation activities. A qualified TtFW biologist will perform the worker education briefing, emphasizing the need for minimizing impacts on sensitive biological resources, as well as methods for avoiding and minimizing potential impact on the species and communities of concern.

Prior to initiation of vegetation mowing, the TtFW biologist will examine all areas proposed for mowing. The biologist will also accurately delineate the wetland boundaries at IR Site 2, staking/pin flagging abrupt wetland boundaries. The staking/pin flagging will be established so that site personnel will be able to visually identify wetland and sensitive habitat areas, and avoid adverse impacts to the maximum extent possible. No active nests will be directly impacted during mowing activities. If potentially active nests are discovered, then these specimens will be temporarily avoided until nesting status can be determined. For the potentially active nests, two survey events (separated by a 24 hour interval) will be initiated to determine nesting status that will document animal behavior (nest building, eggs or young present, and so forth). If active nesting status is determined during vegetation removal activities, TtFW will not conduct any vegetation removal activity within 3 meters of nests and will immediately notify the appropriate regulatory agency (United States Fish and Wildlife Service). Inactive nests are those nests discovered from last season that are unoccupied and show no physical signs of recent activity (no whitewash, feathers, and so forth discovered). Inactive nests are void of fresh sign and typically contain cobwebs. These nest will be included as part of the vegetation clearance.

TtFW will clear the vegetation in the work area, as defined by the scope of work presented by the Navy. For the purpose of this plan, "clearing and grubbing" is defined as the cutting of grasses and brush to a height of 2 inches above the existing ground surface. Field crews will use a variety of equipment listed below (but not limited to) in a manner needed to meet the work objectives. Open field areas may be cut with power mowers. The TtFW biologist will assist the field crews on the identification of the appropriate vegetation to be removed and method of removal. All cut vegetation will remain in-place or hauled to bare ground areas within the site limits. Mature trees (dominant and co-dominant crown class) as identified by the TtFW site biologist will not be removed and some hand clearing may be required around them. Large

brush/woody multi-stemmed shrubs [stems 2-inches to 10-inches in diameter at breast height (DBH)] will be evaluated by the TtFW site biologist prior to removal. Large material (if required) will be mulched and cuttings broadcasted across site. No off-site disposal of vegetation is planned.

2.2 EQUIPMENT

The following equipment may be mobilized to the site for the vegetation clearance:

- “Brush Hog” mowers (2)
- Mulcher (1)
- Rubber-tired 4-wheeled drive backhoe (1)
- 6-yard dump truck (1)
- 2000 gallon water truck (1)
- D-5 tractor (1)
- Portable toilets and sinks (2)
- Brush trimmers (3)

Equipment mobilized to the site will be inspected by TtFW field personnel for work suitability in accordance with established health and safety procedures

2.3 QUALITY CONTROL REQUIREMENTS

Attachment 1 of this document presents the additional definable feature of work activity and provides QC forms to document work. TtFW will use the existing QC Plan (FWENC, 2002b) as the basis for the work.

2.3.1 Organization and Responsibilities

Additional key project personnel are described in the following paragraphs:

Project Health Physicist

The TtFW Project Health Physicist is responsible for implementing, directing, and supervising all radiological project-related activities. The Project Health Physicist has the authority to approve the site Radiological Control Technician (RTC) based on the proposed RTC’s past experience and training. The Project Health Physicist is responsible for:

- Assisting in the development of the site SSHP plan, and approving the plan;
- Assisting in identifying project radiological analyses needs and provide technical support in contractors selection;
- Providing health physics guidance on an as-needed basis;

- Providing radiological control/protection technician services, if required;
- Conducting required radiological safety training;
- Reviewing and approving project field procedures that involve the handling of radioactive materials or access to radiological areas;
- Conducting radiation incident investigations; and
- Conducting radiological project inspections

Radiological Control Technician

The TtFW Radiological Control Technician (RCT) is responsible for supervising all radiological field-related activities. The RTC acts as the field representative for the Project Health Physicist on all radiological-related activities. The RTC is responsible for the following field activities:

- Monitoring radiological and environmental conditions
- Performing radiation surveys of personnel, equipment, and areas
- Performing daily checks of the survey instruments
- Maintaining radiation protection log

2.4 HEALTH AND SAFETY REQUIREMENTS

As stated earlier, the proposed work will be performed in accordance to existing Health and Safety Plans referenced above. Attachment 2 constitutes Revision 6 to the *Final Site-Specific Health and Safety Plan, Ordnance and Explosives Waste Characterization, and Geotechnical and Seismic Evaluations at Installation Restoration Site 1, Alameda Point, Alameda, California* (FWENC, 2001c).

The TtFW Project Health Physicist will provide a radiological training briefing to the crew members prior to starting vegetation clearance work activities. The briefing will include:

- Sources of radiation
- Non-ionizing/ionizing radiation
- Risks in perspective
- Radiological controls
- Monitoring/dosimetry
- Emergency procedures
- As low as reasonably achievable results
- Exposure reports

The personal protective equipment (PPE) required for each task on this project is listed in Table 1 of Attachment 2. This table is prepared based on data provided prior to the start of the project. As additional testing, monitoring, and background information become available, the Site Health and Safety Specialist (SHSS) may adjust the action levels and PPE accordingly. Any changes to PPE require approval by the Project Environmental and Safety Manager (PESM). PPE levels were selected based on the presumption that there are low-level radiological contaminants at the site.

The required Level D PPE will include shoe covers (rubber totes) over steel-toed boots. Additional protective clothing may be required based on field conditions. Likewise, at a minimum, a whole-body survey will be performed on each individual exiting the landfill using a portable pancake Geiger Muller detector attached to a survey meter. Additional radiological personnel surveys may be required based on field conditions. The procedure for performing personnel surveys is provided in Attachment 3.

Attachment 4 provides a revised project management summary and points of contact for use during the work activity.

2.5 WASTE MANAGEMENT REQUIREMENTS

The proposed work will generate only PPE waste for off-site disposal. Off-site vegetation disposal is not required.

The TtFW Site Superintendent is a Radiological Control Technician (RCT) and is responsible for providing RCT support during this phase of work.

As crew members egress from the work areas on a daily basis, they will remove their rubber totes and secure them in a 55-gallon drum for either reuse or disposal. The RTC will survey the totes frisk the crewmembers using a pancake G-M detector as discussed above. At the completion of the work activities the non-contaminated totes will be disposed as non-hazardous waste at a TtFW-approved Class II landfill. In the event that radiological contamination is found on the totes, TtFW will contact the Navy's Radiological Affairs Support Office representative, Project Health Physicist, and Project Manager for the purpose of determining the disposition of contaminated material.

Equipment used during the vegetative clearance activity will also be surveyed prior to leaving the controlled area. The procedure for the release survey is provided in Attachment 3. At the completion of the project, equipment will not leave site until approved by the Project Health Physicist.

2.6 DOCUMENT PREPARATION

This document, in conjunction with the following attachments, constitutes the Work Plan for the proposed work:

- Attachment 1
 - Definable Feature of Work Table
 - Contractor Quality Control Report
 - Contractor Production Report
- Attachment 2
 - Site Safety Plan Change Approval form, Revision 6
 - Activity Hazard Analysis for Clearing and Grubbing
 - Personal Protective Equipment Table
 - Emergency Information
- Attachment 3
 - Personnel Survey
 - Unconditional Release Survey
- Attachment 4
 - Project Management Summary

3.0 REFERENCES

- Foster Wheeler Environmental Corporation (FWENC). 2001a. *Final Focused Remedial Investigation Work Plan, Ordnance and Explosives Waste Characterization, and Geotechnical and Seismic Evaluations at Installation Restoration Site 1, Revision 1, Alameda Point, Alameda, California*. September 28
- _____. 2001b. *Base-Wide Health and Safety Plan, Alameda Point, Alameda, California*. October 30.
- _____. 2001c. *Final Site-Specific Health and Safety Plan, Ordnance and Explosives Waste Characterization, and Geotechnical and Seismic Evaluations at Installation Restoration Site 1, Alameda Point, Alameda, California*. October 30 and including Revisions 1 through 5.
- _____. 2002a. *Final Explosives Safety Remediation Plan (ESRP), Ordnance and Explosives Waste Characterization, Time-Critical Removal Action, and Geotechnical and Seismic Evaluations at Installation Restoration Site 2, Alameda Point, Alameda, California*. February 8.
- _____. 2002b. *Final Focused Remedial Investigation Work Plan Addendum, Ordnance and Explosives Waste Characterization, Time-Critical Removal Action, and Geotechnical and Seismic Evaluations at Installation Restoration Site 2, Alameda Point, Alameda, California*. June 21.
- Supervisor of Shipbuilding, Conversion and Repair, Portsmouth (SSPORTS). 1998. *Final Radiological Survey Report*. August.

ATTACHMENT 1

**DEFINABLE FEATURE OF WORK
AND QUALITY CONTROL FORMS**

DEFINABLE FEATURES OF WORK

ACTIVITY	PREPARATORY	DONE	INITIAL	DONE	FOLLOW-UP	DONE
Biological Clearance	<ul style="list-style-type: none"> • Verify that the ROICC has been notified • Verify biologist qualifications • Verify that ORR has been conducted and all punch lists items have been completed. • Review proposed areas for mowing • Verify that radiological training has been provided and documented • Review AHAs and PPE requirements • Review personnel survey and unconditional release survey procedures (Attachment 3) 		<ul style="list-style-type: none"> • Verify that survey is being conducted in the proposed area for mowing • Inspect field documentation 		<ul style="list-style-type: none"> • Verify that potential active nests are survey twice, separated by 24 hours • Verify that personnel survey and unconditional release survey procedures are being followed. • Inspect field documentation • Verify that all delineated areas are properly flagged. 	
Vegetation Clearance	<ul style="list-style-type: none"> • Verify that applicable procurements for products and subcontracted services have been awarded and submittals approved. • Verify that ORR has been conducted and all punch lists items have been completed • Verify that all site personnel, including subcontractors, have submitted health and safety documentation. • Verify that Site-Specific Health and Safety Plan has been approved and reviewed by each field member. • Verify that radiological training has been provided and documented. • Verify that ORR has been conducted and all punch lists items have been completed • Verify that the RIOCC has been • Review AHA(s) and PPE requirements for this activity. • Review project documents and verify that all meetings have been conducted and documented and that all notifications have been made. • Verify that all active nests identified during survey are marked • Verify that sensitive locations at the site are delineated and work crews are aware of restricted areas. • Verify that site ingress and egress routes have been approved. 		<ul style="list-style-type: none"> • Verify field documentation (field logbook etc.). • Check for compliance with the Site-Specific Health and Safety Plan and with task AHA(s). • Verify that equipment delivered to the site is as identified in the Work Plan and procurement documents. • Verify that decontamination is in accordance with the Work Plan and Site-Specific Health and Safety Plan. • Verify that crews are avoiding restricted areas and identifying sensitive species in work area, if applicable. • Verify that photographic documentation is occurring • Verify that PPE is being screened for radiological contamination. • Verify that PPE drums are being stored properly. • Verify that vegetation clearance is being conducted at least 3 meters from the identified active nests 		<ul style="list-style-type: none"> • Verify PPE screening procedure. • Verify field documentation (field logbook, etc.). • Verify that vegetation clearance is conducted according to the Work Plan. • Verify that temporary facilities have been installed as per the Work Plan and appropriate specifications. • Check for compliance with the Site-Specific Health and Safety Plan and with task AHA(s). • Inspect unconditional release log for completeness. • Verify that personnel survey and unconditional release survey procedures are being followed • Verify that all active nests identified have been notified to the agencies. • Verify that vegetation clearance is being conducted at least 3 meters from the identified active nests 	

DEFINABLE FEATURES OF WORK

ACTIVITY	PREPARATORY	DONE	INITIAL	DONE	FOLLOW-UP	DONE
	<ul style="list-style-type: none"> • Verify proper PPE with crew. • Verify that the site biologist has conducted site orientation for sensitive species. • Review personnel survey and unconditional release survey procedures (Attachment 3) 					

Notes:

AHA – Activity Hazard Analysis

PPE – personal protective equipment

CONTRACTOR PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE

CONTRACT NO
N68711-98-D-5713

TITLE AND LOCATION
CTO 087, Vegetation Clearance, IR Sites 1&2 Alameda Point, Alameda, California

REPORT NO

CONTRACTOR
Tetra Tech FW, Inc.

SUPERINTENDENT

AM WEATHER

PM WEATHER

MAX TEMP (F)

MIN TEMP (F)

WORK PERFORMED TODAY

WORK LOCATION AND DESCRIPTION	EMPLOYER	NUMBER	TRADE	HRS

JOB SAFETY	WAS A JOB SAFETY MEETING HELD THIS DATE? (if YES attach copy of the meeting minutes)	<input type="checkbox"/> YES	<input type="checkbox"/> NO	TOTAL WORK HOURS ON JOB SITE, THIS DATE, INCL CONT SHEETS
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (if YES attach copy of completed OSHA report)	<input type="checkbox"/> YES	<input type="checkbox"/> NO	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELEC/HIGH WORK/HAZMAT WORK DONE? (if YES attach statement or checklist showing inspection performed.)	<input type="checkbox"/> YES	<input type="checkbox"/> NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION

WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT?
 (if YES attach description of incident and proposed action.)

 SAFETY REQUIREMENTS HAVE BEEN MET.

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Submittal #	Description of Equipment/Material Received

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY, INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Owner	Description of Construction Equipment Used Today (incl Make and Model)	Arrival	Off Rent Date	Actual Demob Date	Hours Idle	Hours Used	Reason for Idle

REMARKS

_____ CONTRACTOR/SUPERINTENDENT _____ DATE

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE Enter (DD/MMM/YY)

REPORT NO Enter Rpt # Here

PHASE	CONTRACT NO N68711-98-D-5713, CTO No. 87	CONTRACT TITLE Alameda Point	
PREPARATORY	WAS PREPARATORY PHASE WORK PERFORMED TODAY? YES <input type="checkbox"/> NO <input type="checkbox"/> IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.		
	Schedule Activity No.	Definable Feature of Work	
	Index #		
INITIAL	WAS INITIAL PHASE WORK PERFORMED TODAY? YES <input type="checkbox"/> NO <input type="checkbox"/> IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.		
	Schedule Activity No.	Definable Feature of Work	
	Index #		
FOLLOW-UP	WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES <input type="checkbox"/> NO <input type="checkbox"/> WORK COMPLIES WITH SAFETY REQUIREMENTS? YES <input type="checkbox"/> NO <input type="checkbox"/>		
	Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present	
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)	
Schedule Activity No.	Description	Schedule Activity No.	Description
REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO", Manuf. Rep On-Site, etc.)			
Schedule Activity No.	Description		
AUTHORIZED QC MANAGER AT SITE			DATE
GOVERNMENT QUALITY ASSURANCE REPORT			DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT			
Schedule Activity No.	Description		
GOVERNMENT QUALITY ASSURANCE MANAGER			DATE

ATTACHMENT 2
HEALTH AND SAFETY REVISIONS



TETRA TECH FW, INC.

SITE SAFETY PLAN CHANGE APPROVAL FORM

RE: *Final Site-Specific Health and Safety Plan, Ordnance and Explosives Waste Characterization, and Geotechnical and Seismic Evaluations at Installation Restoration Site 1, Alameda Point, Alameda, California.* Including Revisions 1 through 5. Prepared under Engineering Field Activities Northwest (EFANW) Remedial Action Contract (RAC) II No. N44255-95-D-6030 DO 095

Revised Contract No. N68771-98-D-5713

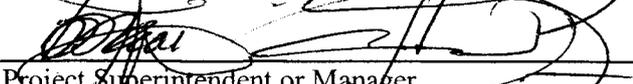
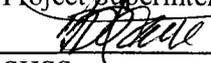
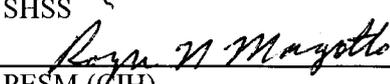
Date 2/26/04 Amendment Number REV. 6

Revised Project Name: Vegetation Clearance at Installation Restoration (IR) Site 1 1943-1956 Disposal Area and Site 2 West Beach Landfill, Alameda Point, Alameda, California Revised Project Number: 1990.087D

Section of SHSP: Activity Hazard Analysis (AHA) Page Number: N/A
Personal Protection Equipment (PPE)
Emergency Information

Change to read: See additional AHA for vegetation clearance, PPE, and Emergency Information

Reason for change: In preparation for a radiological survey at IR Sites 1 and 2, vegetation must be cut within 2 inches of the surface. Vegetation clearance can only be conducted prior to avian nesting season. Navy has approved work to be conducted under the existing Work Plans and Health and Safety Plans.

Approvals: 
Project Superintendent or Manager
for 
SHSS

PESH (CIH)

ACTIVITY HAZARD ANALYSIS (AHA)
Clearing and Grubbing
Installation Restoration Site 1
1943-1956 Disposal Area and 2 West Beach Landfill
Alameda Point, Alameda California

Job Steps	Possible Hazards	Protection Against Hazards
1. Park contractor vehicles at site.	Vehicles could hit someone or something.	Use spotters when positioning vehicle, if needed. Ensure that spotters know how to communicate with driver of vehicle.
	Location could create a hazard to other vehicles in the area.	Designate where vehicles will park.
2. Unload equipment from vehicle.	Lifting of equipment from vehicle could cause strain to worker.	Use proper lifting techniques such as keeping the back straight, lifting with legs, limiting twisting, and getting help when moving bulky/heavy materials and equipment. Use hand truck if needed. For loads greater than 50 pounds, use two people to lift.
	Equipment could fall off trailer as it is driven off.	Use spotter as needed to unload equipment from trailer. Ensure that all workers are wearing high-visibility vests or shirts. Drive equipment slowly off trailer.
3. Inspect all equipment before use following manufacturers' directions. Document inspection using inspection report forms.	Failure to inspect could cause equipment to operate improperly causing injury to workers or damage to the equipment or other property.	Verify that inspections have been performed properly. Remove and do not use any equipment that is defective. Ensure that there is an operator's manual for each piece of equipment on site (backhoe, mowers, tractors, etc.)
4. Move equipment to designated location.	Handling of equipment could cause strain to worker.	Carry equipment as required by the manufacturer of the equipment. Use straps when provided and adjust for comfort. Use care when walking so that there are no sudden jerks or mis-steps that can cause the worker to strain to maintain control of the equipment. Get assistance from other workers if several items, such as weed cutters, chainsaws or other tools must be carried. For loads greater than 50 pounds, use two people to carry.

ACTIVITY HAZARD ANALYSIS (AHA)		
Clearing and Grubbing		
Installation Restoration Site 1		
1943-1956 Disposal Area and 2 West Beach Landfill		
Alameda Point, Alameda California		
Job Steps	Possible Hazards	Protection Against Hazards
4. Continued	Slip, trip, and fall hazards could be present.	Visually inspect work areas and mark, barricade, or eliminate slip, trip, and fall hazards. Only work on walking/working surfaces that have the strength and integrity to support employees safely. Openings 18 inches or more in diameter must be covered and marked. All openings less than 18 inches in diameter and all holes must be marked or barricaded.
5. Begin site operations.	Workers could be exposed to dust, insects, snakes, animals, fuels from or with use of equipment and low-level radioactivity.	Use dust control. Workers should be familiar with the MSDS for fuels and other chemical materials brought to the site.
		Carefully walk through work in area. Be observant for snakes and animals. Never touch snakes or other animals and be prepared to handle an emergency. Watch where you step!
		Avoid disturbing any bees, hornets or wasps. Wear insect repellent if fleas, chiggers, or mosquitoes are expected.
		Wear leather work gloves when handling any vegetation or debris. Wear other protective PPE for the tasks described in this AHA.
		Workers will be scanned and frisked for potential radioactive dust or material that they may have inadvertently come in contact with, as required by the CHP (follow the Work Plan).
6. Use power and hand tools.	There is a potential for strains from use of tools, such as shovels, axes, chainsaws, weed cutters.	Maintain steady pace when using tools and take adequate rest periods.
		Use appropriate tools for the task and maintain tools in good condition.
	Workers may be exposed to noise from power equipment – chain saws, weed cutters, vehicles	Wear hearing protection.

ACTIVITY HAZARD ANALYSIS (AHA)
Clearing and Grubbing
Installation Restoration Site 1
1943-1956 Disposal Area and 2 West Beach Landfill
Alameda Point, Alameda California

Job Steps	Possible Hazards	Protection Against Hazards
6. Continued	Workers may be struck by or against chainsaw, mowers, weed cutters, etc.	Follow safe work practices.
		Wear cutting chaps.
		Ensure that saw and any other power tool has not been "rigged" in the stay "on" position. The saw or other power tools must automatically shut off when the trigger or switch is released.
	Workers may be struck by flying debris from chain saws or weed eaters, or airborne dust.	Wear required safety gear – hard hat, steel-toe boots, safety glasses, hearing protection. Wear dust masks and use dust control methods.
		Only trained personnel will operate saw or other power tools. At no time will tools be used at a level higher than the chest level of the operator.
		Stand as far away as possible from other workers in the same area.
		Wear PPE. When using weed cutters, wear leg protection or wear heavy fabric pants such as denim or canvas.
	Avoid actions that cause debris to fly higher or further.	
	When refueling any power equipment, workers could be exposed to fuel causing an inhalation or skin contact hazard. Fire or explosion is possible. Spills could cause damage to environment.	Do not refuel power equipment in the site area. Do not refuel any equipment that is located on a pickup truck or trailer. Refuel equipment on a level surface such as concrete. Cleanup all spills immediately using readily available spill control materials. Report any spills.
		Do not refuel hot equipment. Allow the engine to cool.
Smoking is never allowed during any fueling operation.		
Wear PPE and chemical protective gloves, such as nitrile gloves when refueling equipment.		

ACTIVITY HAZARD ANALYSIS (AHA)
Clearing and Grubbing
Installation Restoration Site 1
1943-1956 Disposal Area and 2 West Beach Landfill
Alameda Point, Alameda California

Job Steps	Possible Hazards	Protection Against Hazards
7. Use mowing or cutting equipment.	Refueling may cause spills or fire.	Do not refuel lawn mowers or other equipment in the site area. Do not refuel any equipment that is located on a pickup truck or trailer. Refuel equipment on a level surface such as concrete. Cleanup all spills immediately using readily available spill control materials. Report any spills.
		Do not refuel hot equipment. Allow the engine to cool.
		Smoking is never allowed during any fueling operation.
		Wear PPE and chemical protective gloves, such as nitrile gloves when refueling equipment.
	Operation may cause debris to fly out from mower.	Wear proper PPE, especially safety glasses and hearing protection (most cutting equipment produces noise of at least 92 dBA) when operating equipment.
		Perform a foreign object and debris check prior to using any mowing or lawn cutting equipment.
		Ensure that other people are not within the vicinity of cutting equipment. Other people must maintain a safe clearance distance.
		Inspect all equipment before use, especially any cutting blades and the attachments.
	Mower or tractor may tip while being operated.	Never ride a mower along the horizontal plane of a steep slope. Ride perpendicular to the grade when riding a mower up or downhill.
		Operate mower at a safe speed.
	Workers clearing clogged debris in mower or cutting parts of attachments to tractor may be injured while removing debris.	Ensure that power is off and that lockout/tagout procedures are followed before inspecting blades and cutting parts of equipment.
		Be observant for pits, depressions, large rocks, and any other object that could destabilize the mower.
	Workers may be exposed to dust.	Wear dust masks and use dust control methods

ACTIVITY HAZARD ANALYSIS (AHA)
Clearing and Grubbing
Installation Restoration Site 1
1943-1956 Disposal Area and 2 West Beach Landfill
Alameda Point, Alameda California

Job Steps	Possible Hazards	Protection Against Hazards
8. Load trucks with equipment.	Trucks entering and leaving, site create traffic hazard and may hit other vehicles.	Devise and follow a plan to control vehicular/equipment traffic.
	Equipment may hit truck while loading the truck.	Ensure that all workers are wearing required PPE, including high-visibility vests or shirts. Ensure that workers know the rules regarding work near the equipment, such as maintaining eye contact with the operator of the vehicle.
	Truck driver inside vehicle may be struck by debris.	Load truck only from the sides. Ensure that cab of truck is equipped with falling object protection, if the driver stays in the truck. If the driver stays in the truck, close truck windows to avoid exposure to debris and dust. If there is no falling object protective system, the truck driver must exit the truck and stand away from the loading operation.
	Nearby workers could be struck by debris, operating equipment, or trucks.	Nearby workers also must stand away from a truck being loaded. No workers or personnel will enter the dump part of the truck at any time and will not walk or climb on any debris in the truck. Workers will not climb truck, unless truck is equipped with steps for that purpose. (Fall protection is required, if climb is more than 6 feet and ladders are not used).

Notes:

AHA – Activity Hazard Analysis

CHP – Certified Health Physicist

dBA – decibels, A-scale

MSDS – Material Safety Data Sheet

PPE - personal protective equipment

TABLE 1
PERSONAL PROTECTIVE EQUIPMENT

Task	EPA Level	Respiratory Protection	Head	Hand	Clothing	Boots	Face	Eye	Hearing	Additional
Clearing and grubbing	D	None required, unless dust exceed action levels.	Hard hat	Leather work gloves or puncture/cut-resistant gloves.	Long pants and sleeved shirts to keep clean. Reflective safety vest.	Steel toe, leather, with rubber booty (tote)	N/A	Safety glasses	Protection when noise levels exceed 84 dBA.	

Notes:

dBA – decibels, A-scale

EPA – U.S. Environmental Protection Agency

N/A – not applicable

EMERGENCY INFORMATION

REPORT ALL FIRES, SERIOUS INJURY, OR UNCONTROLLED SPILLS IMMEDIATELY: 911
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Hospital:	Alameda Hospital (510) 522-3700 2070 Clinton Avenue Alameda, CA		
Directions:	Exit east out of site onto Main Street, heading south. Turn left onto Atlantic Avenue, heading east. Turn left onto Webster Street, heading south to Central Avenue. Turn left onto Central Avenue, heading east to Encinal Avenue. Turn right on Encinal Avenue, heading southwest to Grand Street. Turn right on Grand Street, heading southeast to Clinton Avenue. Turn left onto Clinton Avenue, heading south to Alameda Hospital (2070 Clinton Avenue)		
Clinic:	Concentra Medical Center (510) 465-9565 384 Embarcadero West Oakland, CA		
Directions:	Exit east out of site onto Main Street, heading south. Turn left onto Atlantic Avenue, heading east. Turn left onto SR-61 (Webster Street) for 0.6 miles, bear right onto Posey Tube for 0.6 miles, and continue north on Harrison Street for about 150 yards, left onto 6 th Street for about 100 yards, left onto Webster Street for 0.3 miles, and right onto Embarcadero West for 80 yards to Concentra Medical Clinic.		
Fire/Police/EMS:	911. This number will connect you to emergency dispatch. <i>911 calls from a cellular telephone go directly to the California Highway Patrol.</i>		
TtFW Contacts:	Project Manager Abram Eloskof (949) 756-7521 cell: (714) 620-5530	Project PESM (CIH) Roger Margotto (619) 471-3503 pager: (714) 810-3742	Project Superintendent Lance Humphrey cell: (619) 988-5974
RPM:	Claudia Domingo (619) 532-0935		
Environmental Liaison:	Doug DeLong (510) 772-8832		
BRAC Environmental Coordinator	Tom Macchiarella (619) 532-0940		
Poison Control Center:	Emergency Phone: (800) 876-4766 [All of CA]		
CHEMTREC:	(800) 424-9300		
National Response Center:	(800) 424-8802		
RCRA Hotline:	(800) 424-9346		

Notes:

BRAC	-	Base Realignment and Closure
CIH	-	Certified Industrial Hygienist
EMS	-	Emergency Medical Services
PESM	-	Project Environmental and Safety Manager
RCRA	-	Resource Conservation and Recovery Act
RPM	-	Remedial Project Manager
TtFW	-	Tetra Tech FW, Inc.

ATTACHMENT 3
PERSONNEL AND EQUIPMENT SCREENING



TETRA TECH FW, INC.

ALAMEDA SITE 1 & 2 PROCEDURE

TITLE: Personnel Survey

1.0 INTRODUCTION

This procedure provides instructions for performing personnel radiological surveys when exiting the restricted area.

2.0 EQUIPMENT

2.1 A beta-gamma count rate instrument equipped with a hand-held detector with a maximum window thickness of 2 milligrams per square centimeter (mg/cm^2) (Ludlum Model 3 with a Model 44-9 probe or equivalent).

3.0 PRECAUTIONS

3.1 Ensure that radiological control survey instruments have been response checked and have current calibration.

3.2 The background count rate in the survey area will be less than 100 counts per minute (cpm) when using beta-gamma count rate instrument with a GM detector of approximately 15.5 square centimeters (cm^2) active area.

3.4 When using a beta-gamma count rate instrument, the detector should be held within 1/2 inch of the surface being surveyed and moved no faster than 2 inches per second.

4.0 PROCEDURE

A personnel survey will be performed prior to exiting the controlled area. The personal survey includes the following steps:

- 4.1 Hold probe approximately 1/2 inch from surface being surveyed.
- 4.2 Move probe slowly over surface, approximately 1 inch per second.
- 4.3 Head (pause at mouth and nose for approximately 5 seconds).
- 4.4 Neck and shoulders.
- 4.5 Hands (back and palms).
- 4.6 Arms (pause at each elbow).
- 4.7 Chest and abdomen.
- 4.8 Back, hip pockets and seat of pants.
- 4.9 Legs (pause at knees).

4.10 Shoe tops.

4.11 Shoe bottoms.

If the count rate increases, pause 5 to 10 seconds over the area to determine if above background activity is present.

If a worker finds contamination while surveying outside of the controlled area, they are to stop and notify the Project Health Physics. The potentially contaminated worker will stay at the control area entrance to minimize potentially spreading contamination. The Project Health Physics personnel will assist the worker in decontaminating the affected areas using standard decontamination techniques.

Release limits for personnel and clothing will not exceed 100 cpm above background.

5.0 ACTION LEVELS

A. 100 cpm above background beta/gamma.

6.0 RECORDS

6.1 Field logbook.



TETRA TECH FW, INC.

ALAMEDA SITE 1 & 2 PROCEDURE

TITLE: Unconditional Release Survey

1.0 INTRODUCTION

This procedure provides instructions for performing radiological surveys of equipment, tools, personal vehicles and miscellaneous items to determine their unconditional release from the restricted area.

2.0 EQUIPMENT

- 2.1 A beta-gamma count rate instrument equipped with a hand-held detector with a maximum window thickness of 2 milligrams per square centimeter (mg/cm^2) (Ludlum Model 3 with a Model 44-9 probe or equivalent).
- 2.2 Alpha count rate instrument Ludlum Model 3 with a Model 43-5 probe or equivalent).

3.0 PRECAUTIONS

- 3.1 Ensure that radiological control survey instruments have been response checked and have current calibration.
- 3.2 The background count rate in the survey area will be less than 100 counts per minute (cpm) when using beta-gamma count rate instrument with a GM detector of approximately 15.5 square centimeters (cm^2) active area.
- 3.3 Minimize materials, tools, or personal items taken into controlled areas to prevent the potential contamination of items and reduce the need for their release.
- 3.4 When using a beta-gamma count rate instrument, the detector should be held within 1/2 inch of the surface being surveyed and moved no faster than 2 inches per second.
- 3.5 When using an alpha count rate instrument, the detector should be held within 1/4 inch of surface being surveyed and moved no faster than 2 inches per second.
- 3.6 Care should be taken to not spread contamination.

4.0 PROCEDURE

4.1 Unconditional Release

- 4.1.1 Items will be surveyed for release using appropriate radiological detection instrumentation to ensure that the levels do not exceed 500 dpm/100 cm^2 (beta/gamma) and 20 disintegrations per minute (dpm/100 cm^2) (alpha).

4.1.2 Survey and release of items by radiation protection is documented in the field logbook, the Tetra Tech FW, Inc. (TtFW) survey form, and in the unconditional release log.

4.1.3 Items that cannot be released due to surface contamination levels in excess of limits will be:

- A. Decontaminated below release limits or
- B. Returned to a radiological contamination control area or
- C. Bagged and tagged as radioactive material.

4.2 Nominal Release

4.2.1 The contamination monitoring using portable survey instruments or laboratory measurements should be performed with instrumentation and techniques (e.g., survey scanning speed, counting times, background radiation levels) necessary to detect 5000 dpm/100 cm² total and 1000 dpm/100 cm² removable beta-gamma contamination.

4.2.2 If alpha contamination is suspected, appropriate surveys and/or laboratory measurements capable of detecting 100 dpm/100 cm² fixed and 20 dpm/100 cm² removable alpha activity should be performed.

4.3 Vehicle Surveys

4.3.1 Vehicles for unconditional release that will leave or may leave the Mixed Waste Facility site are surveyed in accordance with the following:

- A. Vehicles will be surveyed prior to being released from the site.
- B. Limits for contamination will be in accordance with Section 4.1.
- C. Particular attention should be given to the following:
 - 1. Tires
 - 2. Wheel wells
 - 3. Forks/buckets/blades, as applicable
 - 4. Seats
 - 5. Steering wheel
 - 6. Floor board

D. Document survey in field logbook and on the TtFW survey report and in the unconditional release log

5.0 ACTION LEVELS

5.1 Unconditional release levels

A. 500 dpm/100 cm² total

B. 20 dpm/100 cm² removable

6.0 RECORDS

6.1 Field logbook

6.2 TtFW survey reports

6.3 Unconditional release log

**ATTACHMENT 3 – PERSONNEL AND EQUIPMENT
SCREENING**

**ALAMEDA SITE 1 & 2 PROCEDURE
UNCONDITIONAL RELEASE SURVEY
PAGE 5 OF 5**

FINAL VEGETATION CLEARANCE PLAN

**THE ABOVE IDENTIFIED PAGE IS NOT
AVAILABLE.**

**EXTENSIVE RESEARCH WAS PERFORMED BY
NAVFAC SOUTHWEST TO LOCATE THIS PAGE.
THIS PAGE HAS BEEN INSERTED AS A
PLACEHOLDER AND WILL BE REPLACED
SHOULD THE MISSING ITEM BE LOCATED.**

QUESTIONS MAY BE DIRECTED TO:

**DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132**

TELEPHONE: (619) 532-3676

Unconditional Release Log (Example)

Date	Time	Description of Item	Total $\beta\gamma$ dpm/probe	Removable $\beta\gamma$ dpm/100 cm ²	Fixed α dpm/probe	Removable α dpm/100 cm ²	Disposition	Surveyed By

Instrumentation									
Model	S/N	% Eff.	Cal Due	Background	Model	S/N	% Eff.	Cal Due	Background
RP Supervisor Review						Date			

ATTACHMENT 4
PROJECT MANAGEMENT SUMMARY

PROJECT MANAGEMENT SUMMARY

The project management team will be responsible for all technical and administrative aspects of the vegetation clearance. Included among the team's responsibilities are the project schedule, staffing, document control, project meetings, and reporting.

PROJECT RESPONSIBILITIES

The Southwest Division Naval Facilities Engineering Command (SWDIV) Remedial Project Manager (RPM) for this project is Ms. Claudia Domingo, who is responsible for project management, budget control, schedule maintenance, regulatory agency contacts, and community relations. Mr. Doug DeLong, the Environmental Compliance Manager, will coordinate the field activities with different Navy departments and personnel and will also ensure that the field activities are in compliance with the applicable rules and regulations. Mr. Gregory Grace is the Resident Officer in Charge of Construction (ROICC) and is responsible for the technical oversight of field activities and quality control (QC). The Tetra Tech FW, Inc. (TiFW) Project Manager (PjM), Mr. Abram Eloskof, will be responsible for general project administration. Mr. Eloskof oversees budget, schedule, document preparation, and will ensure the quality of all project activities and deliverables. The Project Superintendent, Mr. Lance Humphrey, will manage fieldwork and provide oversight to the subcontractors. Mr. Humphrey will coordinate the field activities with the senior technical staff and the Quality Control Program Manager, Ms. Mary Schneider, to ensure that all field activities are in compliance with the project specifications. Mr. Humphrey will also coordinate these activities with the Site Health and Safety Specialist (SHSS), interact with Navy's personnel, and coordinate efforts among all subcontractors. Mr. Lenny Malo will coordinate the wetland delineation work and conduct the site orientation required for each field crew member.

The following is a list of the key contacts:

Agency	Contact	Project Title
Code 06CA.CD Commander Southwest Division, Naval Facilities Engineering Command 1230 Columbia St., Suite 1100 San Diego, CA 92101	Ms. Claudia Domingo (619) 532-0935	RPM
Code 06CA.TM Commander Southwest Division, Naval Facilities Engineering Command 1230 Columbia St., Suite 1100 San Diego, CA 92101	Mr. Thomas Macchiarella (619) 532-0940	Base Realignment and Closure (BRAC) Environmental Coordinator

Agency	Contact	Project Title
Caretaker Site Office – San Francisco Bay Area 410 Palm Ave., Building 1, Suite 161 San Francisco, CA 94130-1802	Mr. Doug DeLong (415) 743-4713 (510) 772-8832 (cellular)	BRAC Environmental Compliance Manager
ROICC San Francisco Bay Area Engineering Field Activities 2450 Saratoga Street, Building 110, Suite 200 Alameda Point, Alameda, CA 94501	Mr. Gregory Grace (510) 749-5940	Resident Officer in Charge of Construction (ROICC)
ROICC San Francisco Bay Area Engineering Field Activities 2450 Saratoga Street, Building 110, Suite 200 Alameda Point, Alameda, CA 94501	Mr. Robert Perricone (510) 749-5942	ROICC Construction Management Technician (CMT)
Radiological Affairs Support Office Building 1971 NWS P.O. Drawer 260 Yorktown, VA 23691-0260	Mr. Matthew Slack (757) 887-4692	Radiological Affairs Support Office (RASO)
U.S. Environmental Protection Agency 75 Hawthorne Street (SFD-8-2) San Francisco, CA 94105-3901	Mr. Mark Ripperda (415) 972-3029	U.S. Environmental Protection Agency (EPA)-RPM
U.S. Fish and Wildlife Service P.O. Box 159 Alameda, CA 94501	Ms. Rachel Hurt (510) 377-8375	U.S. Fish and Wildlife Service (USFWS)
Tetra Tech FW, Inc. 1940 E. Deere Avenue, Suite 200 Santa Ana, CA 92705	Dr. Jamshid Sadeghipour (949) 756-7519	Deputy Program Manager
Tetra Tech FW, Inc. 1940 E. Deere Avenue, Suite 200 Santa Ana, CA 92705	Mr. Abram Eloskof (949) 756-7521 (714) 620-5530 (cellular)	PjM
Tetra Tech FW, Inc. 1940 E. Deere Avenue, Suite 200 Santa Ana, CA 92705	Mr. Lenny Malo (949) 756-7556	Project Biologist
Tetra Tech FW, Inc. 1940 E. Deere Avenue, Suite 200 Santa Ana, CA 92705	Ms. Mary Schneider (949) 756-7586	Quality Control Program Manager
Tetra Tech FW, Inc. 1230 Columbia St., Suite 500 San Diego, CA 92101	Mr. Lance Humphrey (RCT) (619) 471-3519	Project Superintendent

Agency	Contact	Project Title
Tetra Tech FW, Inc. 3200 George Washington Way, Suite G Richland, WA 99352-3429	Mr. Cliff Stephan (509) 371-0140	Project Health Physicist
Tetra Tech FW, Inc. 1230 Columbia St., Suite 500 San Diego, CA 92101	Mr. Roger Margotto (360) 981-2232 (cellular)	Project Environmental and Safety Manger
Tetra Tech FW, Inc. 3947 Lennane Drive, Suite 200 Sacramento, CA 95834-1957	Mr. Craig Rice (510) 579-1964 (cellular)	Project Quality Control Manager/Site Health and Safety Manger