

JACOBS ENGINEERING GROUP INC.

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 MCAS EL TORO
 SSIC # 5090.3

CLEAN TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N-68711-89-D-9296

Doc. Control Number: CLE-C01-01F145-12-0079

TO: Ms. Robin Green, Contracting Officer
Southwest Division
Naval Facilities Engineering Command
Contracts Department, Room 131
1220 Pacific Highway
San Diego, California 92132-5187

DATE: 3-May-94
 CTO#: 145
 LOCATION: MCAS EI Toro
 TASK/WORK ELEMENT: _____

FROM: *John Dolegowski*
 John Dolegowski/Project Manager

John Caldwell
 John Caldwell/Quality Control Manager

DESCRIPTION: Project Note No. PN-0145-118, Contract Task Order (CTO) No. 145, Technical Exchange Meeting

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CATEGORY: _____ Preliminary Draft _____ Draft _____ Preliminary Final _____ Final

SCHEDULED DELIVERY DATE: _____ ACTUAL DELIVERY DATE: _____

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Delivered To: Contracting Officer _____ RPM/EIC _____ Date/Time Received

Name: _____ TITLE: TECHNICAL EXCHANGE MEETING

AUTHOR: CHUCK ELLIOT/CH2M HILL

DATE: 05/03/94

CATEGORY: 11.5

PROJECT NOTE NO.		PROJECT NO.	
PN-0145-118 CLE-C01-01F145-I2-0079		01-F145-H6	
CONFIRMATION OF:	CONFERENCE X	DATE HELD	28 April 1994
	TELECOM	DATE ISSUED	03 May 1994
	OTHER	RECORDED BY	Chuck Elliott
SUBJECT		PLACE	Santa Ana, California
<p>Contract Task Order (CTO) No. 145 Technical Exchange Meeting</p>			
PARTICIPANTS: (* DENOTES PART-TIME ATTENDANCE)			
<p>Andy Piszkin/Code 1831.AP Chrisa Mitchell/MCAS El Toro John Hamill/EPA John Broderick/RWQCB Joe Zarnoch/DTSC</p>		<p>ChuckElliott/CH2M HILL - SAC John Lovenburg/CH2M HILL - SCO Sebastian Tindall/Bechtel Wayne Mayer/Bechtel Dan Kuo/Bechtel</p>	
ACTION REQ'D. BY	ITEM		
	<p>A technical exchange meeting was held at CH2M HILL/Santa Ana on 28 April 1994. Participants represented the following organizations: the Naval Facilities Engineering Command, Southwest Division; Marine Corps Air Station (MCAS) El Toro; the U.S. Environmental Protection Agency, Region 9 (EPA); the California Regional Water Quality Control Board, Santa Ana Region; the California Environmental Protection Agency, Department of Toxic Substances Control; CH2M HILL (Navy Consultant); and Bechtel Corporation (EPA Consultant).</p> <p>The purpose of the meeting was to provide feedback to Bechtel Corporation, who are preparing a cost estimate to conduct field screening sampling of shallow soil at Remedial Investigation (RI) sites at MCAS El Toro. During the meeting, participants agreed on sites and strata for Bechtel Corporation to estimate field screening costs. Some of these strata had been proposed for field screening in the Draft Phase II RI Work Plan. Others were added to the list at the February 1994 Remedial Project Managers' Meeting. Others were still added to the list on 28 April 1994. After the cost estimate has been completed, the MCAS El Toro Team will evaluate whether to implement the field screening for shallow soil at selected strata during the Phase II RI at MCAS El Toro. Discussion of the constituents to be evaluated during field screening, as well as sample depths, was deferred until a later time. Bechtel's cost estimates will be based on sample depths of 0, 5, and 10 feet. These meeting notes summarize the main conclusions reached at the meeting on a site-by-site basis.</p> <p>Site 1 (Explosive Ordnance Disposal Range)</p> <ul style="list-style-type: none"> o Active site. Further investigation deferred pending final disposition of the property during the base closure process. May be necessary to place a deed restriction on the use of the property. 		



PROJECT NOTE NO.
 PN-0145-118
 CLE-C01-01F145-I2-0079

PROJECT NO.
 01-F145-H6

ACTION REQ'D. BY	ITEM
	<p>Site 2 (Magazine Road Landfill)</p> <p><u>Stratum 1 (Landfill)</u></p> <ul style="list-style-type: none"> o Define boundaries by geophysical survey and trenching, if necessary. If trenches are dug, collect soil samples from the native soil beneath the landfill. o Collect soil gas samples at one depth in a grid on 100-foot centers across the landfill to locate potential volatile organic compound (VOC) source areas. Extend the grid beyond the landfill boundary and collect samples from multiple depths to evaluate potential VOC or methane migration from the landfill. o Do not collect field screening soil samples. o Eventually close the landfill according to Title 20, Chapter 15 procedures. <p><u>Stratum 2 (Stained Area)</u></p> <ul style="list-style-type: none"> o Define the landfill boundary first. If the landfill is found to encompass the area of Stratum 2, investigate as Stratum 1. Otherwise, collect field screening soil and soil gas samples. <p>Sites 3/4 (Original Landfill and Ferrocene Spill Area)</p> <p><u>Stratum 1 (Landfill)</u></p> <ul style="list-style-type: none"> o Define boundaries by geophysical survey and trenching, if necessary. If trenches are dug, collect soil samples from the native soil beneath the landfill. o Collect soil gas samples outside the landfill along the perimeter to evaluate potential VOC or methane migration from the landfill. o Do not collect field screening soil samples. o Consider deed restrictions in lieu of formal landfill closure. <p><u>Stratum 2 (Drainage Ditch)</u></p> <ul style="list-style-type: none"> o Removal Action. <p><u>SWMU/AOC 194 (Former Incinerator)</u></p> <ul style="list-style-type: none"> o Collect field screening soil and soil gas samples. <p>Site 5 (Perimeter Road Landfill)</p> <ul style="list-style-type: none"> o It is not necessary to further define the landfill boundaries. o Collect soil gas samples from multiple depths outside the landfill along the perimeter to evaluate potential VOC or methane migration from the landfill.

PROJECT NOTE NO.
 PN-0145-118
 CLE-C01-01F145-I2-0079

PROJECT NO.
 01-F145-H6

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	<ul style="list-style-type: none"> o Do not collect field screening soil samples. o Consider deed restrictions in lieu of formal landfill closure. <p>Site 6 (Drop Tank Drainage Area No. 1)</p> <p><u>Stratum 1 (Concrete Apron Edge)</u></p> <ul style="list-style-type: none"> o No further investigation. <p><u>Stratum 2 (Drainage Area)</u></p> <ul style="list-style-type: none"> o Expand stratum boundaries to include drainage originating from Solid Waste Management Unit/Areas of Concern (SWMU/AOCs) 204, 205, and 206 area to the north, and extend to the boundaries of Stratum 3 to the south. o Collect field screening soil and soil gas samples within the revised stratum. Tie into field screening at Stratum 3. <p><u>Stratum 3 (Storage Area)</u></p> <ul style="list-style-type: none"> o Collect field screening soil and soil gas samples in this recently expanded stratum. <p>Site 7 (Drop Tank Drainage Area No. 2)</p> <p>Note: Site 7 will be investigated by soil gas survey as part of Site 24.</p> <p><u>Stratum 1 (North Pavement Edge)</u></p> <ul style="list-style-type: none"> o Removal Action. <p><u>Stratum 2 (Old East Pavement Edge)</u></p> <ul style="list-style-type: none"> o No further investigation. <p><u>Stratum 3 (New East Pavement Edge)</u></p> <ul style="list-style-type: none"> o Expand field screening sampling to include soil samples. Sampling will extend east to include Stratum 4. o Bechtel will prepare an estimate of the cost to augment the Site 24 soil gas survey by adding additional soil gas samples. <p><u>Stratum 4 (Drainage Ditch)</u></p> <ul style="list-style-type: none"> o Stratum 3 samples will extend to encompass Stratum 4.

PROJECT NOTE NO.
 PN-0145-118
 CLE-C01-01F145-I2-0079

PROJECT NO.
 01-F145-H6

ACTION REQ'D. BY	ITEM
	<p><u>Stratum 5 (Open Dirt Area)</u></p> <ul style="list-style-type: none"> o Collect field screening soil and soil gas samples. <p><u>Site 8 (DRMO Storage Yard)</u></p> <p>Note: Site 8 will be investigated by soil gas survey as part of Site 24. However, Bechtel will prepare an estimate of the cost to augment the survey at Site 8 by adding additional soil gas sample points. Also, because of the nature of the contaminants, it may only be necessary to collect soil samples at this site at depths of 0 and 2 feet.</p> <p><u>Stratum 1 (East Storage Yard)</u></p> <ul style="list-style-type: none"> o Collect field screening soil samples. Include Stratum 4 (PCB Spill Area), which is surrounded by Stratum 1. <p><u>Stratum 2 (West Storage Yard)</u></p> <ul style="list-style-type: none"> o Collect field screening soil samples. This stratum will be investigated concurrently with Strata 1 and 4. However, a larger grid spacing (i.e., fewer samples) may be desirable because of the lower level of contamination in Phase I samples and the large size of this stratum. <p><u>Stratum 3 (Refuse Pile)</u></p> <ul style="list-style-type: none"> o Removal Action. <p><u>Stratum 4 (PCB Spill Area)</u></p> <ul style="list-style-type: none"> o Collect field screening soil samples. This stratum will be investigated concurrently with Stratum 1. However, because of the small size of this stratum, consider increasing the grid density in this area over the density in Stratum 1. <p><u>Stratum 5 (Old Salvage Yard)</u></p> <ul style="list-style-type: none"> o If it can be documented that the fill that underlies this parking lot was imported <u>after</u> the yard stopped being used, then no further investigation. Otherwise, conduct field screening soil sampling of <u>surface</u> soil only. <p><u>Site 9 (Crash Crew Pit No. 1)</u></p> <p>Note: Site 9 will be investigated by soil gas survey as part of Site 24. Since the grid density will be dense, no further soil gas sampling will be specified at this time pending the results of the Site 24 soil gas investigation.</p> <ul style="list-style-type: none"> o Collect field screening soil samples, including the area identified with flowing fluids on historical aerial photographs. Depending on the results of the soil samples, it may be desirable to collect soil samples for dioxin/furan analysis.



PROJECT NOTE NO.
 PN-0145-118
 CLE-C01-01F145-I2-0079

PROJECT NO.
 01-F145-H6

ACTION REQ'D. BY	ITEM
	<p>Site 10 (Petroleum Disposal Area)</p> <p>Note: Site 10 will be investigated by soil gas survey as part of Site 24.</p> <p><u>Stratum 1 (Aircraft Matting Area)</u></p> <ul style="list-style-type: none"> o Collect field screening soil samples. o Bechtel will prepare an estimate of the cost to augment the Site 24 soil gas survey at Stratum 1 by including soil gas sample points. <p><u>Stratum 2 (Concrete Apron Area)</u></p> <ul style="list-style-type: none"> o Unresolved. Wait for the results of the Site 24 soil gas survey before collecting soil samples. Consider possible deed restrictions. o Bechtel will prepare an estimate of the cost to augment the Site 24 soil gas survey at Stratum 2 by adding soil gas sample points. <p>Site 11 (Transformer Storage Area)</p> <p>Note: Create a new stratum (Stratum 3) to encompass the remainder of the fenced storage yard not occupied by Strata 1 and 2. Conduct field screening soil sampling over Stratum 3. Because of the nature of the contaminants (PCBs), consider sampling at shallow depths only. Consider using immunoassay analytical methods.</p> <p><u>Stratum 1 (Concrete Pad and Perimeter)</u></p> <ul style="list-style-type: none"> o Removal action. <p><u>Stratum 2 (Drainage Ditch)</u></p> <ul style="list-style-type: none"> o Removal action. <p>Site 12 (Sludge Drying Beds)</p> <p><u>Stratum 1 (West Sludge Drying Beds)</u></p> <ul style="list-style-type: none"> o Field screening soil gas sampling. o Field screening soil gas sampling. <p><u>Stratum 2 (East Sludge Drying Beds)</u></p> <ul style="list-style-type: none"> o Field screening soil gas sampling. o Field screening soil gas sampling.

PROJECT NOTE NO. PN-0145-118 CLE-C01-01F145-I2-0079	PROJECT NO. 01-F145-H6
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ACTION REQ'D. BY	ITEM
	<p><u>Stratum 3 (Drainage Ditch)</u></p> <ul style="list-style-type: none"> o Field screening soil gas sampling. o Field screening soil sampling. <p><u>SWMU/AOC 90 (Former Wastewater Treatment Plant)</u></p> <ul style="list-style-type: none"> o Field screening soil gas sampling. o Field screening soil sampling. <p><u>Former Industrial Wastewater Treatment Plant</u></p> <ul style="list-style-type: none"> o Field screening soil gas sampling. o Field screening soil sampling. <p>Site 13 (Oil Change Area)</p> <p>Note: Because of the relatively small size of the two strata at this site, the Navy will consider a removal action. Bechtel will estimate the cost of field screening sampling in both Strata 1 and 2 to support a cost-effective decision.</p> <p>Site 14 (Battery Acid Disposal Area)</p> <p><u>Stratum 1 (Edge of Pavement)</u></p> <ul style="list-style-type: none"> o Removal Action. <p><u>Stratum 2 (Drainage Ditch)</u></p> <ul style="list-style-type: none"> o Removal Action. <p>Site 15 (Suspended Fuel Tanks)</p> <p>Note: Because of the relatively small size of the stratum at this site, the Navy will consider a removal action. Bechtel will estimate the cost of field screening sampling here to support a cost-effective decision.</p> <p>Site 16 (Crash Crew Pit No. 2)</p> <p><u>Stratum 1 (Disturbed-Ground Area)</u></p> <ul style="list-style-type: none"> o Collect field screening soil gas and soil samples. <p><u>Stratum 2 (Main Fire-Fighting Pit)</u></p> <ul style="list-style-type: none"> o Collect field screening soil gas and soil samples (as previously proposed). Consider increasing the grid density over that in Stratum 1.



PROJECT NOTE NO.
PN-0145-118
CLE-C01-01F145-I2-0079

PROJECT NO.
01-F145-H6

ACTION
REQ'D. BY

ITEM

Stratum 3 (Drainage Channel)

- o No further investigation.

Site 17 (Communication Station Landfill)

Stratum 1 (Landfill Area)

- o Define boundaries by geophysical survey and trenching, if necessary. If trenches are dug, collect soil samples from the native soil beneath the landfill.
- o Collect soil gas samples at one depth in a grid at 100-foot centers across the landfill to locate potential VOC source areas. Extend the grid beyond the landfill boundary to evaluate potential VOC or methane migration from the landfill; collect these samples at multiple depths.
- o Do not collect field screening soil samples.
- o Eventually close the landfill according to Title 20, Chapter 15 procedures.

Stratum 2 (Stained Area)

- o Eliminate this stratum. Include its area as part of Stratum 1 and investigate as outlined above.

Site 19 (ACER Site)

Stratum 1 (Northeast Stained Area)

- o Collect field screening soil gas and soil samples.

Stratum 2 (Excavated Area)

- o Removal Action (fill in excavated area and grade).

Stratum 3 (Stained Area Around Excavation)

- o No further investigation. Grade along with Stratum 2.

Site 20 (Hobby Shop)

Stratum 1 (East Drainage Ditch)

- o No further investigation.

Stratum 2 (South Drainage Ditch)

- o Removal action.

PROJECT NOTE NO.
 PN-0145-118
 CLE-C01-01F145-I2-0079

PROJECT NO.
 01-F145-H6

ACTION REQ'D. BY	ITEM
	<p><u>Stratum 3 (Stained Area)</u></p> <ul style="list-style-type: none"> o Removal action. <p><u>Stratum 4 (Courtyard and Front Slope)</u></p> <ul style="list-style-type: none"> o Collect field screening soil gas and soil samples. <p>Site 21 (Materials Management Group)</p> <ul style="list-style-type: none"> o Unresolved. Bechtel will provide a cost estimate of field screening samples to assist the team to decide whether further investigation is warranted. <p>Site 22 (Tactical Air Fuel Dispensing System)</p> <p>Note: Site 22 will be investigated by soil gas survey as part of Site 24.</p> <p><u>Stratum 1 (Western Area)</u></p> <ul style="list-style-type: none"> o Collect field screening soil samples. o Bechtel will prepare an estimate of the cost to augment the Site 24 soil gas survey at Stratum 1 by including soil gas samples points. <p><u>Stratum 2 (Eastern Area)</u></p> <ul style="list-style-type: none"> o Unresolved. Bechtel will provide a cost estimate of field screening samples, including augmenting the Site 24 soil gas survey, to assist the team to decide whether further investigation is warranted.