JACOBS ENGINEERING GROUP INC.

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MCAS EL TORO
SSIC # 5090.3

CLEAN TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-89-D-9296

Doc. Control Number: CLE-C01-01F145-I1-0107

TO: Southwest Division
Ms. Gena McClain, Code 0232
Head, Environmental ACO I Branch
Naval Facilities Engineering Command
Contracts Department, Building 131
1220 Pacific Highway
San Diego, California 92132-5187

DATE: 11 May 1995
CTO#: 145
LOCATION: MCAS El Toro
TASK/WORK ELEMENT:

John Dolegowski/Project Manager

Ken Tomeo/Resource Center Manager

DESCRIPTION: Project Note No. PN-0145-181, Contract Task Order (CTO) No. 0145, Marine Corps Air Station (MCAS), El Toro, Remedial Investigation and Feasibility Study, Additional OU-1 IAFS Alternatives Requested by OCWD

TYPE: ____ Contract Deliverable ____ CTO Deliverable X Request for Change/Project Note

VERSION: Final
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REVISION # 0

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(PjM to identify)

NEGOTIATED DELIVERY DATE: ____ **ACTUAL DELIVERY DATE:** ____

Number of Copies Submitted to Navy: ____

Copies To:

J. Rogers - Code 18C1 w/attach	M. Huddleston - CH2M HILL w/attach
A. Piszkin - Code 1831.AP w/attach	Mike Bitner - CH2M HILL/ABQ w/attach
J. Joyce - Code 1832.JJ w/attach	File - PMO w/attach
V. Parpiani - MCAS El Toro w/attach	File - CH2M HILL w/attach
K. Tomeo - CH2M HILL w/attach	

Delivered To: Contracting Officer ____ RPM/EIC ____

Date/Time Received

Name: ____

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JACOBS ENGINEERING GROUP INC.

PROJECT NOTE NO.	PROJECT NO.
PN-0145-181 CLE-C01-01F145-I1-0107	01-F145-H6

CONFIRMATION OF:	CONFERENCE		DATE HELD	25 and 27 April 1995
	TELECOM	X	DATE ISSUED	10 May 1995
	OTHER		RECORDED BY	Natasha Raykhman/CH2M HILL
			PLACE	Santa Ana, California

SUBJECT: Contract Task Order (CTO) No. 0145
MCAS El Toro Remedial Investigation and Feasibility Study
Additional OU-1 IAFS Alternatives Requested by OCWD

PARTICIPANTS: (* DENOTES PART-TIME ATTENDANCE)

Roy Herndon/OCWD
Hooshang Nezafati/CH2M HILL
Natasha Raykhman/CH2M HILL
Andy Piszkin/Code 1831.AP

ACTION REQ'D. BY	ITEM
	Per the Navy's direction, Hooshang Nezafati/CH2M HILL and Natasha Raykhman/CH2M HILL spoke with Roy Herndon/OCWD on Tuesday, April 25, 1995. The subject of conversation was to find out the details of OCWD's proposed "new alternative" for groundwater modeling. R. Herndon expressed that OCWD would like the Navy to try a "no-injection" alternative (which would be numbered "6a"). Under this new alternative, instead of reinjecting the groundwater (as in Alternative 5), it would be piped to the Desalter, for both the Shallow Groundwater and the Principal Aquifer. He added that the extraction rates from the Desalter wells could be reduced by an amount equal to the total injection flow rates planned for Alternative 5 (3200 gpm—1200 gpm from the Shallow Groundwater Unit and 2000 gpm from the Principal Aquifer). He suggested the following changes: Turn off TIC 110 (reduction of 1200 gpm) Turn off IDP2 (reduction of 400 gpm) Reduce the extraction rates of IDP1 and IDP3 by 350 gpm each, to 350 gpm each (combined reduction of 700 gpm) Use TIC 111 as a baseline well rather than a Desalter well (reduction of 900 gpm) H. Nezafati and Andy Piszkin/Code 1831.AP, after discussing CH2M HILL's concerns about eliminating the reinjection option for Alternative 5 and the advantages of reinjection in the downgradient location of the on-Station trichloroethylene (TCE) plume for the Shallow Groundwater, called R. Herndon on 27 April and raised these concerns. R. Herndon said that William Mills/OCWD is primarily concerned about reinjecting the groundwater because of its high level of total dissolved solids (TDS), and he wants to ask the Navy to evaluate a "no-reinjection" alternative to avoid any possible adverse impact on the groundwater quality. A. Piszkin agreed to look at this new alternative, but he also told OCWD that the Navy would want to simulate an additional alternative under which the "no-injection" applies to the Principal Aquifer

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ACTION REQ'D. BY	ITEM

only, leaving the Shallow Groundwater reinjection scenario the same as in Alternative 5. A. Piszkin stressed that comparing the two simulations would be helpful in evaluating the advantages of the reinjection in the Shallow Groundwater. R. Herndon agreed and stated that, if the simulation results show that the shallow TCE plume is contained more effectively with the planned reinjection option, then OCWD would more than likely go along with that. A. Piszkin offered to share the simulation results with OCWD.

These results will be evaluated for possible inclusion in the Interim-Action Feasibility Study Report.

Alternative 6a

- o Locations and flowrates of Navy extraction wells are similar to those of Alternative 5.
  - Twenty-nine shallow wells are pumped at a flowrate of 40 gpm, and two shallow wells are pumped at 50 gpm. Total flow from the Shallow Groundwater unit is 1260 gpm.
  - Two wells in the Principal Aquifer are pumped at 1000 gpm each. Total flow from the Principal Aquifer is 2000 gpm.
- o Injection wells are not simulated; groundwater from the Navy wells is conveyed to the Desalter treatment facility.
- o Total production of the Desalter wells is decreased by 3260 gpm. The following modifications to the Desalter wells in the model are proposed:
  - Cease pumping of Well TIC111 to the Desalter treatment facility (reduction of 830 gpm). TIC111 will be simulated as a "baseline" irrigation well and pumped seasonally.
  - Cease pumping of TIC110 (reduction of 1100 gpm).
  - Cease pumping of IDP-2 (reduction of 370 gpm).
  - Decrease pumping of IDP-1 and IDP-3 from about 740 gpm* each to about 260 gpm* each (a combined reduction of 960 gpm*).

Alternative 6b

- o Locations and flowrates of Navy extraction wells are similar to those of Alternative 5.

*Note that these flow rates are slightly different from those used by R. Herndon. The differences are from adapting the annual production amounts to the modeling flow rates.

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- Twenty-nine shallow wells are pumped at a flow rate of 40 gpm, and two shallow wells are pumped at 50 gpm. Total flow from the Shallow Groundwater unit is 1260 gpm.

- Two wells in the Principal Aquifer are pumped at 1000 gpm each. Total flow from the Principal Aquifer is 2000 gpm.

o Locations and injection rates of Navy shallow injection wells are similar to those of Alternative 5. Principal Aquifer injection wells are not simulated; groundwater from the Navy Principal Aquifer wells is conveyed to the Desalter treatment facility.

o Total production of the Desalter wells in the Principal Aquifer is decreased by 2160 gpm. The following modifications to the Desalter wells in the model are proposed:

- Cease pumping of Well TIC111 to the Desalter treatment facility (reduction of 830 gpm). TIC111 will be simulated as a "baseline" irrigation well and pumped seasonally.

- Cease pumping of IDP-2 (reduction of 370 gpm).

- Decrease pumping of IDP-1 and IDP-3 from about 740 gpm* each to about 260 gpm* each (a combined reduction of 960 gpm*).

Nonparticipant Distribution

John Dolegowski
John Lovenberg
Boumediene Hadj-Kaddour
Davi Richards/CVO

*Note that these flow rates are slightly different from those used by R. Herndon. The differences are from adapting the annual production amounts to the modeling flow rates.