

SUBJECT: HTW - JCT Meeting

January 13, 2004

1:00 p.m.

BRAC Conference Room

Check

(✓)

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Check	Name	Organization	Phone	E-mail address
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(GS)	GARY SANTOLO Scott Scholein	CITIZEN HILLS HGL	916/286-0283 703 736-4507	gsantolo@ch2m.com sscholein@hgl.com
(DR)	Dan R. Jones	HGL	916-614-9770	djones@hgl.com
(S)	STEVEN BLANKS RUTU	DTSC DTSC	(916) 255-3665	sblanks@dtsc.ca.gov

Former Fort Ord
Agency Meeting Agendas
January 2004

January 13, 2004 at 1:00 p.m.
HTW BCT Meeting
BRAC Conference Room

January 14, 2004 at 1:00 p.m.
OE BCT Meeting
BRAC Conference Room

HTW BCT Meeting
BRAC Conf. Room

January 13, 2004 1:00 p.m.

Item	Action	Comment
OUI New Contract	Status Update	
Operable Unit Carbon Tetrachloride Plume	Status Update	
Emergent Chemicals	Status Update	
Groundwater Treatment Systems	Status Update	
2 nd Avenue Project	Status Update	
FFA Schedule	Review / Status Update	
Site 39 Eco Risk Work	Status Update	
Operable Unit 2 Landfill Gas	Status Update	
Basewide Range Assessment	Status Update	
Range 36A Closure Activities	Status Update	
FOST/FOSL/FOSET Issues	Status Update	
Calendar	Update	

Item	Action	Comment
Action Items	Update	
Fieldwork Update	Update	
Fieldwork Variances	Update	
SHAW Work	Update	First Tee and Eucalyptus Fire areas
MMRP terminology	Update	
Track 1	Update	
R43-48 prescribed burn after action report	Update	

**FORMER FORT ORD
OPERABLE UNIT 1 FIXED PRICE REMEDIATION W/ INSURANCE (FPRI)**

INTRODUCTION

- **Project Team**
 - HydroGeoLogic, Inc. – Prime Contractor with CH2MHill and Enviro Con as team subs
 - Don Jones, PE (HGL) - Program Manager
 - Dave Smith, RG - Project Manager

- **HydroGeoLogic, Incorporated**
 - Founded in 1987 primary as a groundwater modeling firm
 - Progressed from there into our current five service areas
 - Remediation Services
 - A/E Services
 - Planning
 - Modeling
 - Forensics

- **FPRI Contract Overview**
 - FPRI Contract Purpose

DoD acting in response to the Congress has instituted performance based contracting for the purpose of accelerating closure of sites, relieving the government of the management responsibility of cleanup, and providing a basis for accurate cost projection of site closures.
Fast tract of cleanups is the progressive goal of performance based contracting.

 - Contract Type
 - Fixed Price Remediation w/ Insurance
 - Cost to Government is Capped
 - HydroGeoLogic & Insurer Assume Financial Risk

 - Contract Scope
 - Operate and Maintain Existing System at OU1
 - Conducting quarterly groundwater monitoring for OU1
 - Modify the Operation of the OU1 Final Remedy
 - Conduct Long-Term Monitoring
 - Close the site on schedule and within budget
 - Coordinate, negotiate with and gain approval of the Regulatory Agencies
 - Support Community Participation Activities

PROJECT OBJECTIVE

- **To obtain closure at OU-1**
 - Contain Existing TCE Plume
 - Operate Pump & Treat System to Reach ROD Cleanup Targets
 - Facilitate team cooperation / communication with Army/Feds/State/local
 - Minimize Impact to UCA Nature Reserve System
 - Monitor Groundwater Quality / System Performance
 - Augment Pump & Treat System to Accelerate Cleanup
 - Obtain Regulatory Concurrence for Site Closure

TECHNICAL APPROACH SUMMARY MODIFY PUMP & TREAT SYSTEM

- Consistent with current ROD remedy
- ROD allows for modification (including addition of wells) to existing remedy to accelerate cleanup
- No ESD documentation would be required to accommodate modification of the system since the chosen remedy technology remains the same.
- The modified design would be reviewed and approved by the interested agencies
- Workplans will be reviewed and approved by the interested agencies
- The construction modifications would be coordinated with UCA to Minimize UCNRS Impact
- Monitor System Performance for 18 months
- If further modifications are needed, initiate Focused Feasibility Study to Assess Alternatives
 - Consider Aerobic Enhancements
 - Consider ERD Injection
 - Transition to Natural Attenuation impacts
- If feasible enhancements are identified
 - Obtain Regulatory Concurrence
 - Implement Enhancements
 - Long Term Management/Monitoring
 - Close site upon meeting cleanup levels
- If Monitored Natural Attenuation implemented
 - Modify cleanup goals/adopt closure standards based on MNA
 - Negotiate end points
 - Monitor
 - Close site

FIRST QUARTER KEY ACTIVITIES / ACTIONS

- Data Review & Plume Assessment
- Plan Preparations

PROJECT SCHEDULE

- **Cleanup Target Goals**
 - Modify System Operating by January 2005
 - Site Closure by March 2012

- **Key Milestones**
 - Submission of Draft Plans
 - Submission of Draft Remedial Design
 - Implementation of Modified Pump & Treat System
 - 5 Year ROD Review

PROJECT SUMMARY OVERVIEW - KEY TASKS

- **Prepare Supporting Plans**
 - Project Management Plan
 - Sampling & Analysis Plan
 - Site Health & Safety Plan
 - Quality Assurance Management Plan
 - Data Management Plan
 - Operation & Maintenance Plan
 - Security / Emergency Response / Contingency Plan
 - Waste Management & Minimization Plan
 - Annual Updates

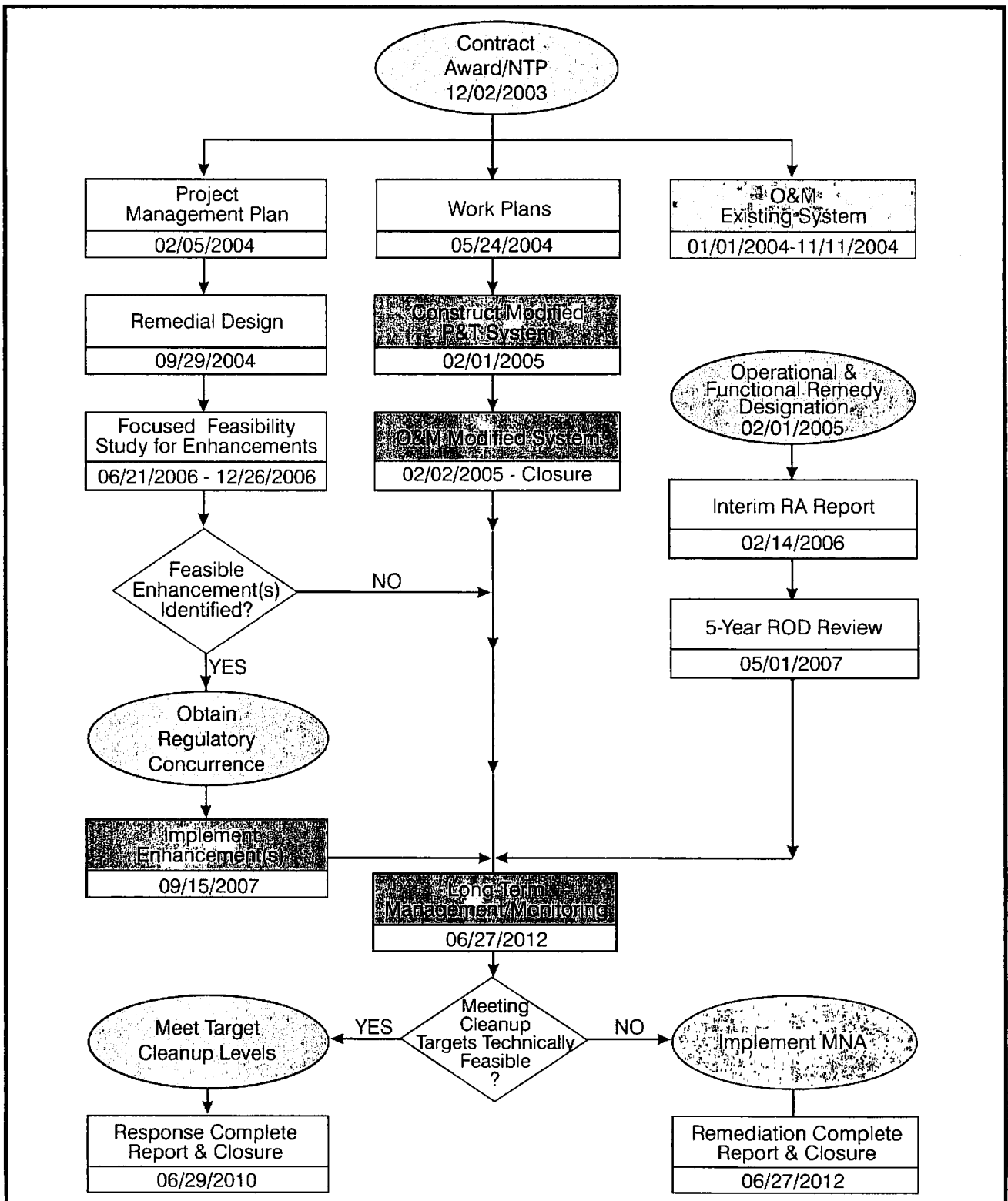
- **Proposed Remedial Design Concept**
 - Modify Extraction Well Network to remediate existing TCE plume
 - Concept - Space New Wells Along Plume Axis
 - Utilize groundwater modeling to optimize recovery well locations
 - Concept - Increase Treatment Capacity
 - Concept - Discharge Treated Water to infiltration gallery/injection wells, or some combination.
 - Concept - Automate System for Remote Operation
 - Minimize UCNRS Impact

- **Remedy Construction / Implementation**
 - Coordinate Work Schedule w/ UCA
 - Approximately 3 months for Construction

- **Operation & Maintenance of Pump & Treat System**
 - Maintain Existing P&T During Design / Construct
 - Integrate Modified System w/ Minimal Down Time

- **Regulatory Coordination & Reporting**
 - Participate in BCT Meetings
 - Design Concurrent w/ ROD Update
 - 5 Year ROD Review
 - Interim Remedial Action Report

- **Community Outreach**
 - Participate in Public Meetings / Open House
 - Community Involvement Workshops
 - Assist in Public Involvement
 - Technical Review Committee Meetings



X:\OMA009\FT_Ord\TO_2010\Map8
Project_Mgmt_Plan\flowchart2.cdr
01/06/03 ASC



Legend

- Report
- Remedial Action
- Major Milestone
- Decision Point

Ongoing Tasks

- Project Management
- CIW/TRC Meetings

Figure 3.3
Key Project Activities and Milestones

Draft FFA Timetable
OU-1, Former Fort Ord

Deliverable/Event	Current Deadlines (Previous Deadlines)	Deadline Revision Rationale
Draft Plans (inclusive of SAP, HSP, QAPP, O&M)	2/04	
Comments due	4/04	
Draft Final/Final Plans	5/04	
Draft RA Design	5/04	
Comments due	7/04	
Draft Final/Final RA Design	9/04	
Draft RA Report	10/05	
Comments Due	12/05	
Final RA Report	2/06	
Draft FFS - Study for Enhancements Report	1/07	FFS – Study to be conducted between 6/06-12/06
Comments due	3/07	
Draft Final/Final FFS Report	5/07	

**OU CTP RI/FS Update
Former Fort Ord
January 13, 2004**

○ OU CTP Remedial Investigation Update

➤ On-going work

- Soil gas investigation
 - CT, CF, PCE, and TCE concentration contours added to GIS
 - CT contours available for various depths (6 feet to greater than 66 feet)
 - Initial risk assessment conducted using site-specific criteria => lower risk values; reduces the incentive to collect indoor air samples
 - SVE pilot study – tentatively scheduled to begin operation in 03/2004
- Bio-treatability pilot study
 - VOC profile samples collected from the 10 pilot study monitoring wells; CT concentrations range from ~4 ppb to ~12 ppb
 - Bromide tracer test completed; inconclusive results
 - Bench-scale/microcosm test in progress; initial, t=6 weeks, and t=12 weeks samples collected; waiting for t=12 week sample results; lactate samples have 'gone black' indicating anoxic or highly reduced conditions (not necessarily an indication of CT dechlorination)
 - Anticipating that t=12 week results will be conclusive so the field program can begin in February or March 2004; alternatively, a third sample set will be collected prior to field application
 - Bio-treatability pilot study – field phase tentatively scheduled to begin in February/March 2004 (pending results from microcosm test)
- Monitoring well hunt in Marina
 - Two sites found with wells
 - 215-C Reservation Road (three wells, Don's 1-Hour Dry Cleaner, PCE site)
 - 3044 Del Monte Blvd. (four wells, 76 Gas Station, TPH/BTEX site)

- Second dry cleaner (Peninsula Dry Cleaners) also located in Albertson shopping center; lithologic and groundwater quality data (of dubious quality) available from County (not yet received)
 - Previous Exxon gas station (3144 Del Monte) also indicated presence of PCE in groundwater; severe error in groundwater direction led to potentially improper site closure; unclear on future direction – recommend constructing a letter to the RWQCB stating Army's concerns
 - Potential PRP situation since PCE has been detected at MP-BW-37 (Lower 180-Foot Aquifer)
 - Groundwater elevation and quality data will be requested by property owners with wells when available – Army will not collect it's own samples
- Future work/characterization
- Plume Delineation
- A-Aquifer – quarterly data confirm that the CT is present off-site beneath the city of Marina (concentrations of about 2-3 µg/L at MW-BW-49-A and MW-BW-65-A along DeForest Avenue). December data still indicates only low concentrations of CT at the new source area wells (MW-BW-61-A through MW-BW-64-A) although concentrations have increased from ND at MW-BW-62-A (still ND at MW-BW-61-A)
 - Upper 180-Foot Aquifer – two narrow plumes emanating from two discrete vertical conduits, confirmed by results from upgradient wells MW-BW-54-180 and MW-BW-55-180. Conduits appear to include MW-B-13-180 and possibly the mini-storage well. Downgradient data indicate that at least one plume commingles with the OU 2 plume at MW-OU2-61-180
 - Lower 180-Foot Aquifer – highest concentrations continue to be defined by the mini-storage well and its immediate vicinity. Presence of PCE at MP-BW-37 is disconcerting

MDT\OU CTP update.doc

GWTP O&M

- SAP and Sites 2/12 Annual to go out final in January
- Fourth Q 2003 report due to agencies-March 6
- Sites 2/12 GWTP operating at 302 gpm
- OU 2 GWTP operating at 690 gpm
 - Ice plant issue at INF-OU2-02-180
- GW Stats (attached)
- Mass removed (attached)

COC Mass (lbs) Removed

- **OU 1:**
 - cumulative thru 12/2002: 25.71
 - cumulative thru 9/2003: 25.83
 - Jan - Sept 2003: 0.124
- **OU 2**
 - cumulative thru 12/2002: 350.9
 - cumulative thru 9/2003: 396.26
 - Jan - Sept 2003: 45.36
- **Sites 2/12**
 - cumulative thru 12/2002:232.3
 - cumulative thru 9/2003: 29.67
 - Jan – Sept 2003: 261.97

Former Fort Ord Groundwater Treatment Systems Operational Data

Project	Category	Status/Update	Schedule
OU-1			
	<u>O & M</u>	<p><u>Stats for the month of December (11-29-03 to 12-26-03)</u> Plant operating at 8.69 gpm (avg.) * Influent concentration of 6.3ppb (TCE) 351,160 gallons treated</p> <p><u>Cumulative Stats:</u> 109.514 million gallons of water treated * OU1 influent concentrations based on samples collected 12-08-03</p>	
OU-2			
	<u>O & M</u>	<p><u>Stats for the month of December (11-29-03 to 1-02-04)</u> Plant operating at 697 gpm (avg.) Average influent concentration of 7.98ppb (TCE) 35.142 million gallons treated</p> <p><u>Cumulative Stats:</u> 2.597 billion gallons of water treated</p>	
Sites 2/12			
	<u>O & M</u>	<p><u>Stats for the month of December (11-29-03 to 1-02-04)</u> Plant operating at 291gpm (avg.) Average influent concentration of 19.38ppb (TCE) 14.81 million gallons treated</p> <p><u>Cumulative Stats:</u> 591.036 million gallons of water treated</p>	

FOST/FOSL/FOSET Status Update

Title/Description	PARCELS	Comments
FOST 1 through FOST 5	Parcels have been or will be incorporated into more recent transfer/lease documents.	Not completed and are now obsolete.
FOST 6 Track 0 Parcels (Version 0/October 2001) (Version 0.1/January 2002) (Version 1/August 2002) (Version 1.1/March 2003) (Version 2.0/May 2003)	E11b.1, E11b.2, E11b.3, E11b.4, E15.1, E2b.1.1.1, E2b.1.1.2, E2b.1.2, E2b.1.3, E2b.1.4, E2b.1.5, E2b.2.1, E2b.2.2, E2b.2.3, E2b.2.4, E2b.2.5, E2b.3.1.1, E2b.3.2, E2c.1, E2c.2, E2c.3.1, E2c.3.2, E2c.3.3, E2c.4.1.1, E2c.4.2.1, E2d.1, E2d.2, E2e.1, E2e.2, E4.5, E8a.1.2, E8a.1.3, E8a.1.4, E8a.1.5, F2.7.2, F7.2, L1.1, L12.2.2, L12.2.3, L12.3, L15.1, L19.2, L19.3, L19.4, L2.2.1, L20.9, L20.10.1.1, L20.10.1.2, L20.10.2, L20.10.3, L20.14.1.2, L20.16.1, L20.16.2, L20.16.3, L20.17.1, L20.19.2, L 20.20, L20.21.1, L20.21.2, L20.22, L23.1.1, L23.1.2, L23.1.3, L23.1.4, L23.1.5, L23.3.1, L23.3.2.1, L23.4, L23.6, L27, L32.2.1, L32.2.2, L32.3, L32.4.1.1, L32.4.2, L33.1, L33.2, L35.1, L35.2, L35.3, L35.5, L35.6, L35.7, L35.8, L36, L5.10, L5.8.1, L5.8.2, L7.8, L7.9, S1.3.3, S1.5.1.2, S2.1.4.2, S4.1.2.1, S4.1.2.2, S4.1.3, S4.1.4, S4.1.5	Signed May 27, 2003. Public Notice published and deeds in the process of being recorded. CRUP for parcel F2.7.2 Site 33 was sent to agencies for signature 12/31/03 CRUP for remaining parcels in progress.
FOST 7 Brostrom Park (V.1/October 2002) (V1.2/November 2002) (V2/January 2003)	Parcel L27	Signed January 9, 2003. Deed recorded. Public Notice published 1/31/03. (Parcel extracted from Track 0 FOST after public review period completed. No public comments on Track 0 FOST were received regarding parcel L27.)
FOST 8 (proposed) Track 1 Parcels	E11b.6, E15.2, E2a, E4.1.2.1, E4.1.2.2, E4.1.2.3, E4.3.2.1, E4.6.1, E4.6.2, L20.14.1.1, L20.14.2, L20.15, L20.2.3.2, L20.6, L23.3.3, L23.5, L31, L5.6.1, L5.6.2, L9.1.1.2, L9.1.2.2, S3.1.1, S3.1.2, S3.1.3, S3.1.4, S3.2.1, S3.2.2, S4.1.1	Not drafted yet. Parcels are proposed to be included in the Track 1 ROD process.
FOST 9 (proposed) Track 0 Plug-In Parcels	E8a.1.1, E2d.3.1, E4.3.1.2, E4.3.2.2, E4.7.1, E4.7.2, E5a, E8a.2, E18.2.1, E18.2.2, E18.3, E20c.1.2, E20c.2.2, L23.3.2.2, L5.10, L35.4, L35.5, S2.1.2, S4.3	Not drafted yet. Parcels are proposed to be included in the Track 0 Plug-in process.
FOST 10 (proposed) Track 1 Plug-In Parcels	E2c.4.1.2, E2c.4.2.2, E2c.4.3, E2c.4.4, E2d.3.2, L2.2.2, L5.9.2, L20.17.2	Not drafted yet. Parcels are proposed to be included in the Track 1 Plug-in process.

FOST/FOSL/FOSET Status Update

Title/Description	PARCELS	Comments
	Parcels have been or will be incorporated into more recent transfer/lease documents.	Not completed and are now obsolete.
FOSL 3, FOSL 6 and FOSL 7		
FOSL 1 Lightfighter Lodge (V.2/Apr 2000)	E17	FOSL signed 6/22/00 Public Notice published 9/29/00. Agencies provided copy. Amendment to Preston Park Housing Lease completed Sept 2001. E17 see FOSET 2
FOSL 2 Abrams Housing (V.2/May 19, 2000)	E4.3.2.1, E4.3.2.2, Part of E4.3.1	FOSL signed 7/7/00 Public Notice published 9/29/00. Agencies provided copy. Amendment to Preston Park Housing Lease completed Sept 2001. E4.3.2.1 see FOSET 3
FOSL 4 York School (V.0/Aug 7, 2000) (V1.1/Nov 27, 2000) (V2/Dec 21, 2000)	31 acres plus 2.3 acre sliver (not including South Boundary Road)	FOSL signed 3/9/01. Statement of Clearance signed, original on file at DENR. Public Notice published 7/2/01. Agencies provided copy. Lease signed 9/14/01.
FOSL 5 Imjin Shoppette (V1.0/Sept 25, 2000) (V2.0/Jan 11, 2001) (V2.1/Feb 2, 2001)	approximately 3 acres, including buildings 6160, 6161, 6165A within a portion of parcels E8a.1 and E4.6.2	FOSL signed 4/30/01. Public Notice published 7/2/01. Agencies provided copy. Lease signed 6/18/01.
FOSL 8 FORA Expansion FOSL (V0/May 2001) (V2/July 2001)	Building 2925 and parking lot within parcel E2b1.1.1, and parcel L35.1	FOSL signed 8/20/01. Agencies provided copy. Public notice published 7/15/02. Amendment to existing FORA Outgrant Lease completed Jan 31, 2002.
FOSL 9 First Tee Youth Golf Course	approximately 120 acres in parcels E20c.1.1.1 and E20c.1.1.2	Not drafted yet. Still being considered.
FOSL 10 Granite Construction Batch Plant	approximately 6 acres near intersection of 8th Street and Gigling	Not drafted yet. Still being considered.
FOSL 11 Veterans Transition Center Phase II Parcels (V0/August 2002) (V1/October 2002) (V2/January 2003)	Buildings 8732 - 8735 in parcel L9.1.2.2 Buildings 8714 - 8719 in parcel L9.1.1.2	FOSL signed 7/29/03. Agencies provided link to PDF online. Public notice published 8/21/03.

FOST/FOSL/FOSET Status Update

Title/Description	PARCELS	Comments
FOSET 1 FAAF Phase II	L5.1.1-10, L5.2, L5.3	FOSET and CRUP signed. Public Notice published 7/2/01. Agencies provided copy.
FOSET 2 Housing Areas and Former Garrison (Category B parcels) (V.1/Oct 25, 1999) (FOSET B March 2000) (Final December 2000) (Final January 2001) (Final Revised August 2001) (Final-Final December 2001)	L2.1, E4.1.1, E4.2, E4.3.1, L2.4.2, L2.4.3.1, L2.4.3.2, L32.4.1.2, L37, S1.3.1, S1.5.2, S1.4, S1.5.1.1, E17, S2.1.3, S2.1.4.1, S2.5.1.1, S2.5.1.2, S2.5.2.1, S2.5.2.2	FOSET signed by TRADOC Dec 3, 2001. FOSET packet approved by EPA 1/4/02. Governor's concurrence received circa 4/23/02. CRUP and deeds being recorded. Public Notice ran in newspapers 7/18/02.
FOSET 3	Parcels have been or will be incorporated into more recent transfer/lease documents.	Not completed and is now obsolete.
FOSET 4 Del Rey Oaks (V.0/Oct 24, 2000) (V.0.1/Jan 2001) (V.0.2/Apr 2001) (V.0.3/Sept 2001) (V.0.4/Nov 2001) (V.0.6/Apr 2003) (V1.0/June 2003)	E29a, E31a, E31b, E31c, E36, E29b.1	FOSET 4 and responses to public comments were revised and resubmitted to DTSC in October per DTSC comments. In Dec '03 a small portion ("Habitat Area") of Parcel E29a was carved out and will be retained by the Army at this time. New portion is now parcel E29a.1