

SUBJECT: HTW) BCT Meeting
September 30, 2004

9:00 a.m.

BRAC Conference Room

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E-mail address

Check (<input checked="" type="checkbox"/>)	Name	Organization	Phone	E-mail address
	Roman Racca	DTSC	916/255-6407	Rracca@dtsc.ca.gov
	Stewart Black	DTSC	916/255-3665	shblack@dtsc.ca.gov
	John Chesnutt	U.S. EPA	415/972-3005	Chesnutt.john@epa.gov
	Claire Trombadore	U.S. EPA	415/972-3013	Trombadore.Claire@epa.gov
	Martin Hausladen	U.S. EPA	415/972-3007	Hausladen.martin@epamail.epa.gov
	Grant Himebaugh	RWQCB	805/542-4636	Ghimebau@rb3.swrhc.ca.gov
	Gail Youngblood	Fort Ord BRAC	831/242-7918	gail.youngblood@monterey.army.mil
	George Siller	COE	916/557-7418	George.L.Siller@usace.army.mil
	Glen Mitchell	COE	916/557-7774 or 831/884-9925 ext. 232	Glen.Mitchell@usace.army.mil
	Peter Kelsall	Shaw E & I, Inc	831/883-5810 ext. 810	Peter.Kelsall@shawgrp.com
	David Eisen	COE	831/393-9692	David.Eisen@usace.army.mil
	Derek Lieberman	Fort Ord BRAC	831/242-4873	Derek.Lieberman@monterey.army.mil
	Ed Ticken	MACTEC E&C	415/884-3176	ejticken@mactec.com

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<i>h</i>	Carlene Merey	MACTEC E&C	415/884-3276	cmercy@mactec.com
<i>h</i>	Marc Edwards	COE	831/884-9925 ext 244	Marc.A.Edwards@usace.army.mil
<i>h</i>	Michael Taraszki	MACTEC E&C	415/884-3325	mdtaraski@mactec.com
<i>h</i>	John Guenza	Ahtna	707/553-1501	jguenza@ahtnagov.com
<i>h</i>	Mark Fisler	Ahtna	831/384-3735	mfisler@ahtna.gov
<i>h</i>	David Smith	HydroGeologic	916/614-8770	dsmith@hgl.com
<i>h</i>	Bob Parkins	HydroGeologic	916/614-8770	rparkins@hgl.com
<i>h</i>	Kris Escarda	DTSC	916/255-3651	kescarda@dtsc.ca.gov
<i>h</i>	<i>Genevieve Wimble</i>	MACTEC	916.364-0793	<i>gndimwimbo@mactec.com</i>
<i>h</i>	Beth Flynn	MACTEC	707-793-3834	<i>b3P.Flynn@mactec.com</i>
<i>h</i>	Jen Moseley	GIA	831 883-5812	<i>jen.moseley@shawgrp.com</i>
<i>h</i>	Tom Hare	TECH LAW	501-253-7987	<i>THA4 @ TECHLAWINC.COM</i>
<i>h</i>	Don Jones	HGL	216-614-8770	<i>d.Jones @ hgl.com</i>

**BCT Presentation
September 30, 2004**

Peter Kelsall, Shaw

Shaw Portal

- Web site with access to documents, contacts, etc
- Requires e-mail authorization

Basewide Range Assessment/Eco Risk Evaluation

- Schedule for completing range assessment and identifying remediation requirements (attachment)
- NEBA update
- Draft Final Eco Risk Assessment Work Plan to be issued in next month with responses to comments
- Work plan for recon and/or sampling of 25 ranges to be issued in next month as a variance to the Characterization SAP

Landfill Gas

- Landfill Gas Expansion work plan issued
- Additional probe monitoring (FWV 087 issued)
 - Monitor selected probes for 2 quarters to evaluate increase in vinyl chloride observed from 2003 to 2004 annual monitoring (attachment)
 - Monitor methane weekly in selected probes for one quarter to evaluate influence of barometric pressure)

Carbon tetrachloride SVE

- Indoor air report to be issued Draft Final with responses to comments today
- Latest probe data (attachments)
 - Probe on Preston Drive north of the SVE area ND for CT
 - Probes on northern edge of SVE area have CT about what would have been expected pre-SVE, and are on edge of zone of influence.
 - Some increases ("rebound") seen in selected probes after shutdown has leveled off or decreased
- SVE re-started 9/9 to evaluate if it is cost effective to remove residual CT; expect to run 4 to 6 weeks

OU2 and 2/12Groundwater

- Follow up activities to the *Technical Memorandum, Summary of Preferred Alternatives, Groundwater Exit Strategies*, presented at the last BCT
- OU2 drilling at eastern end of Upper 180 plume (attachment)
 - Work plan proposed 2 monitoring wells and later one or more extraction wells
 - One deep (420 ft) monitoring well will be installed as soon as driller can be scheduled. Second monitoring well will be installed as an extraction well (i.e. eliminating one well); currently determining if this well will be installed at same time as the first monitoring well or, more likely, we will wait for results of modeling
 - Currently surveying pipeline route to the shopette
- Will present schedule for other activities at next BCT, including list of documents.
 - Well abandonment/replacement work plan
 - Modeling
 - Conceptual design for OU2 expansion
 - Conceptual design for adding air stripper at 2/12 to treat vinyl chloride

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Documents for Army Review

Documents for Agency Review

Pictures

Lists

Contacts

Last Name	First Name	Business Phone	E-mail Address
Ghigliotto	Tom	(831) 883-8514	Tom.Ghigliotto@shawgrp.com
Johnson	Audrey	(831) 883-5809	Audrey.Johnson@shawgrp.com
Kelsall	Peter	(303) 793-5252	Peter.Kelsall@shawgrp.com
Luckie	Charles	(831) 883-5815	Charles.Luckie@shawgrp.com
Moser	Jen	(831) 883-5812	Jen.Moser@shawgrp.com
Nohrden	Dan	(831) 883-5813	Dan.Nohrden@shawgrp.com
Schmidt ! NEW	Eric	(831) 883-5802	eric.schmidt@shawgrp.com
Singleton	Brian	(925) 288-2073	Brian.Singleton@shawgrp.com
Sullivan	Ed	(831) 883-5818	Ed.Sullivan@shawgrp.com

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Reference Maps

Type Name

Directions to Shaw on former Fort Ord

Map of Current Projects with Shaw on former Fort Ord

Modified By

audrey.Johnson

audrey.Johnson

Links

[Shaw Fort Ord Intranet](#)

Add new link

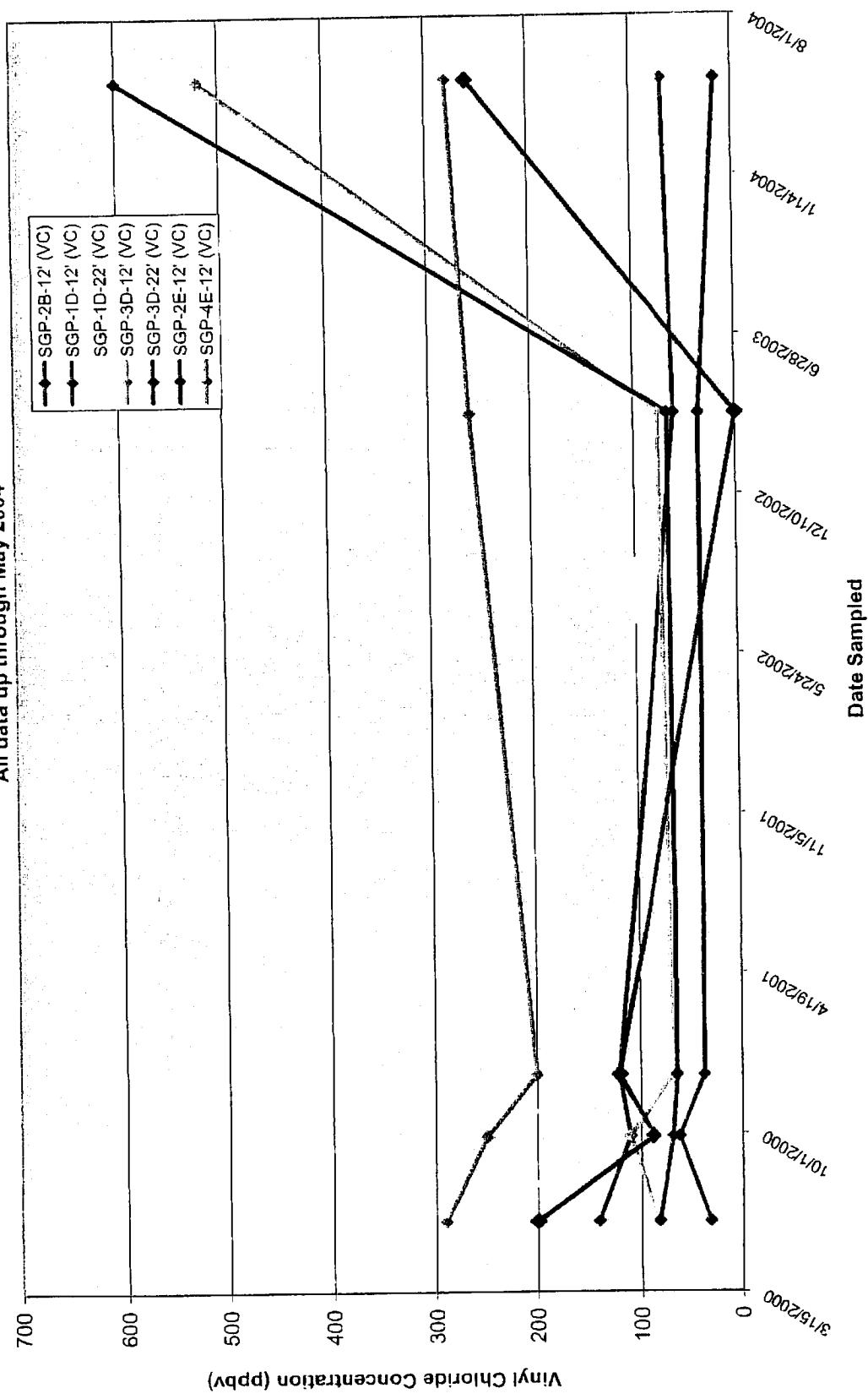
SubPortals

Cost & Schedule, and Billing

Task Tracking and Management

Add new link

Figure 1
Vinyl Chloride Concentration vs. Date
All data up through May 2004

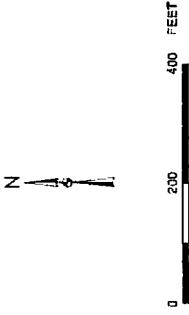


LEGEND

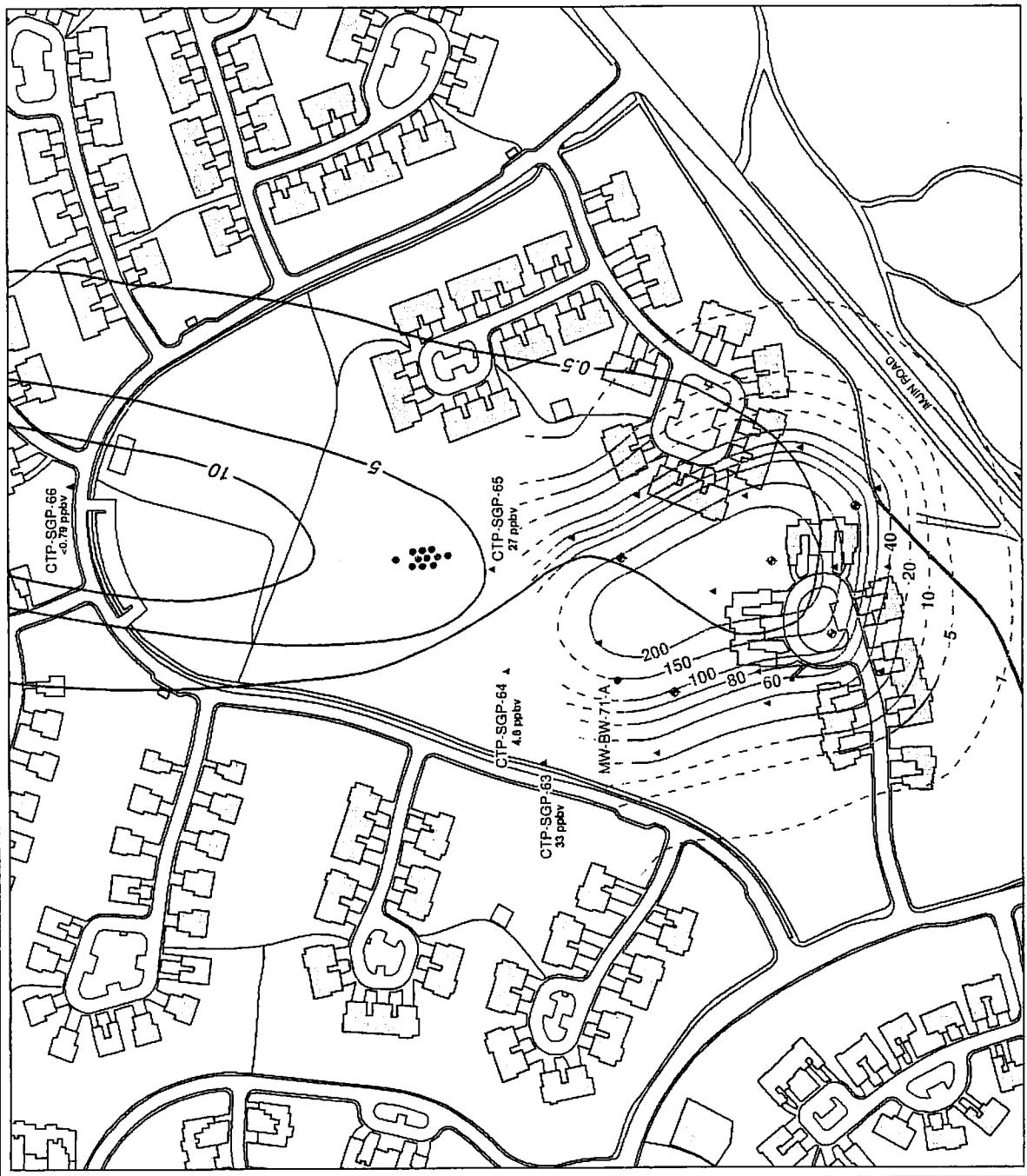
- ◆ SOIL VAPOR EXTRACTION WELL
- ▲ DEEP (80-85 FT.) SOIL VAPOR MONITORING PROBE
- 27 ppbv SOIL GAS CARBON TETRACHLORIDE CONCENTRATION (ppbv); MEASURED 9/1/04
- SOIL GAS CARBON TETRACHLORIDE CONCENTRATION CONTOURS AT 85 FT. DEPTH (ppbv); DASHED WHERE INFERRED
- GROUNDWATER MONITORING WELL
- AQUIFER CARBON TETRACHLORIDE CONCENTRATION CONTOURS (ppbv)
- BUILDING

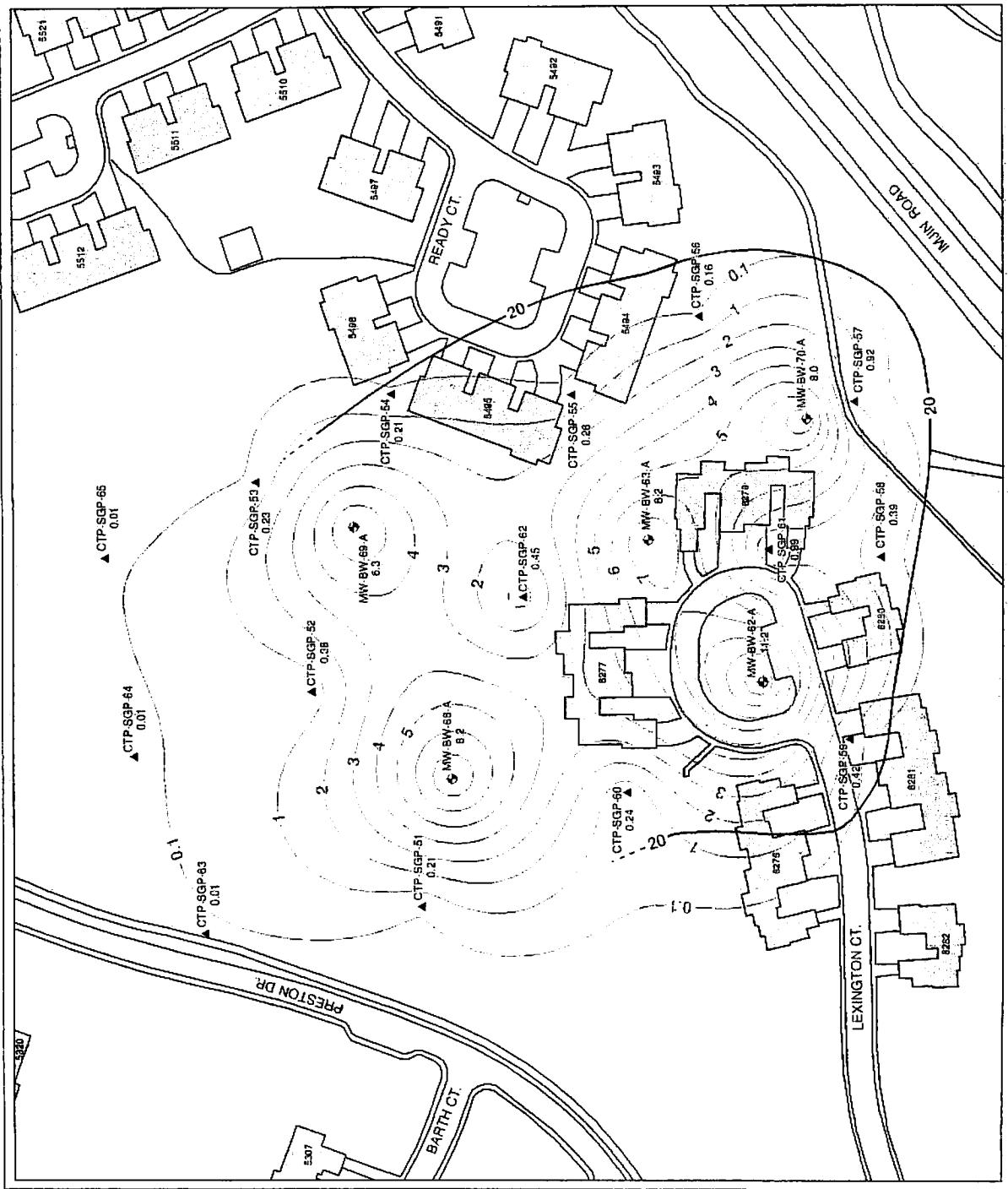
NOTES:

1. Soil gas concentration contours based on data collected prior to soil vapor extraction.
2. Groundwater concentration contours provided by Maciec and based on data collected December 2003.



SHAW San Enviro Prod. Inc.		DATE	DEPARTMENT	SHC NUMBER
Prepared by:	P. KEL SALL	12/04/04	Environmental	SHC-100
Review by:	J. SPENCER	12/04/04	Environmental	SHC-100
Approved by:	K. BLACK	12/04/04	Environmental	SHC-100
Chemical:	CARBON TETRACHLORIDE			
Former:	Former Env. Contractor			
Submitted by:	P. KEL SALL	12/04/04	Environmental	SHC-100
File No.:				
Date:				
Page:				
Total:				





LEGEND

φ	SVE WELL
▲	MONITORING
8.2	VACUUM (I)
—	VACUUM C
□	EFFECTIVE
- - -	CARBON T.
—	CONTOURS
—	DASHED W.
■	BUILDING

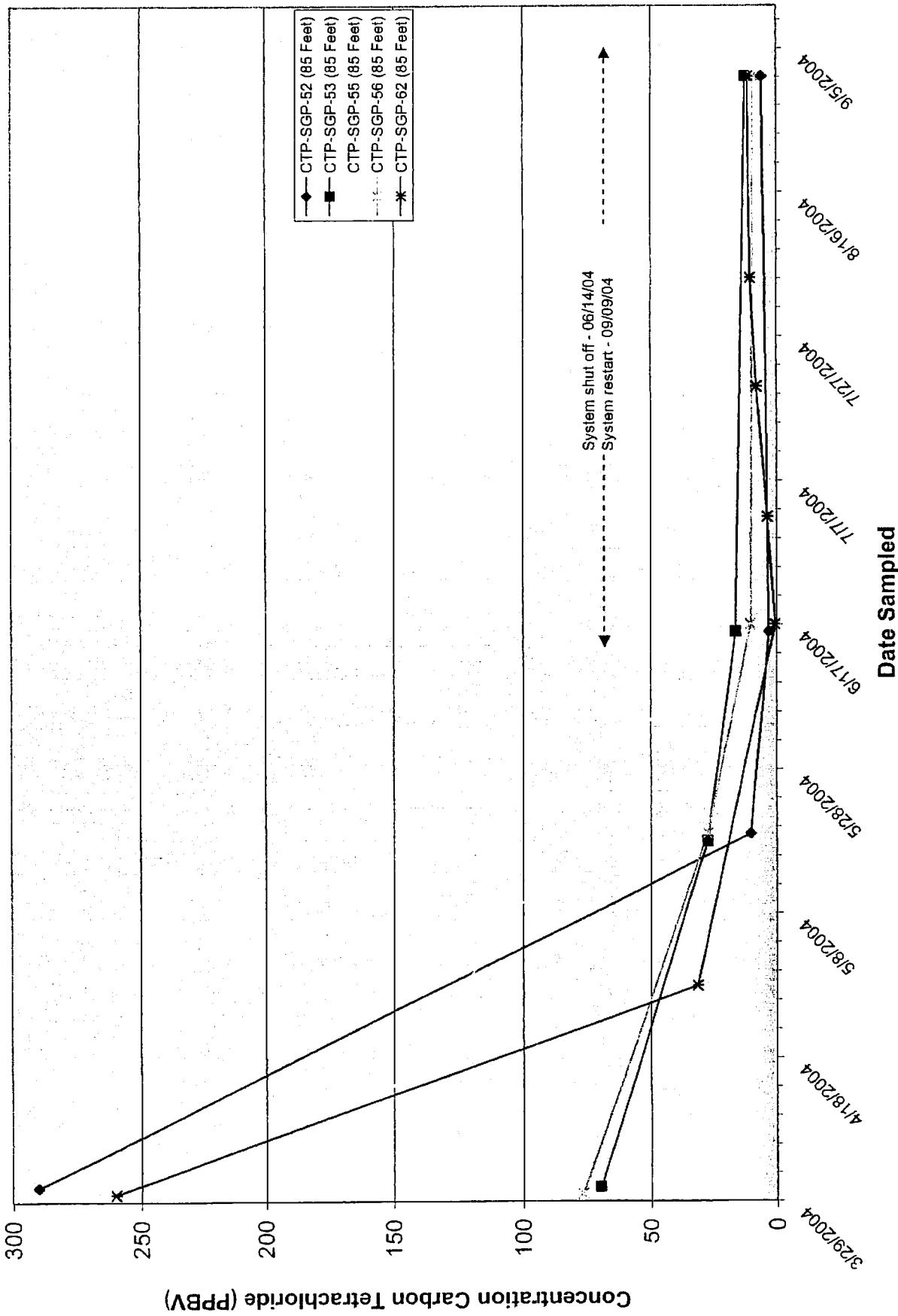
NOTE 5

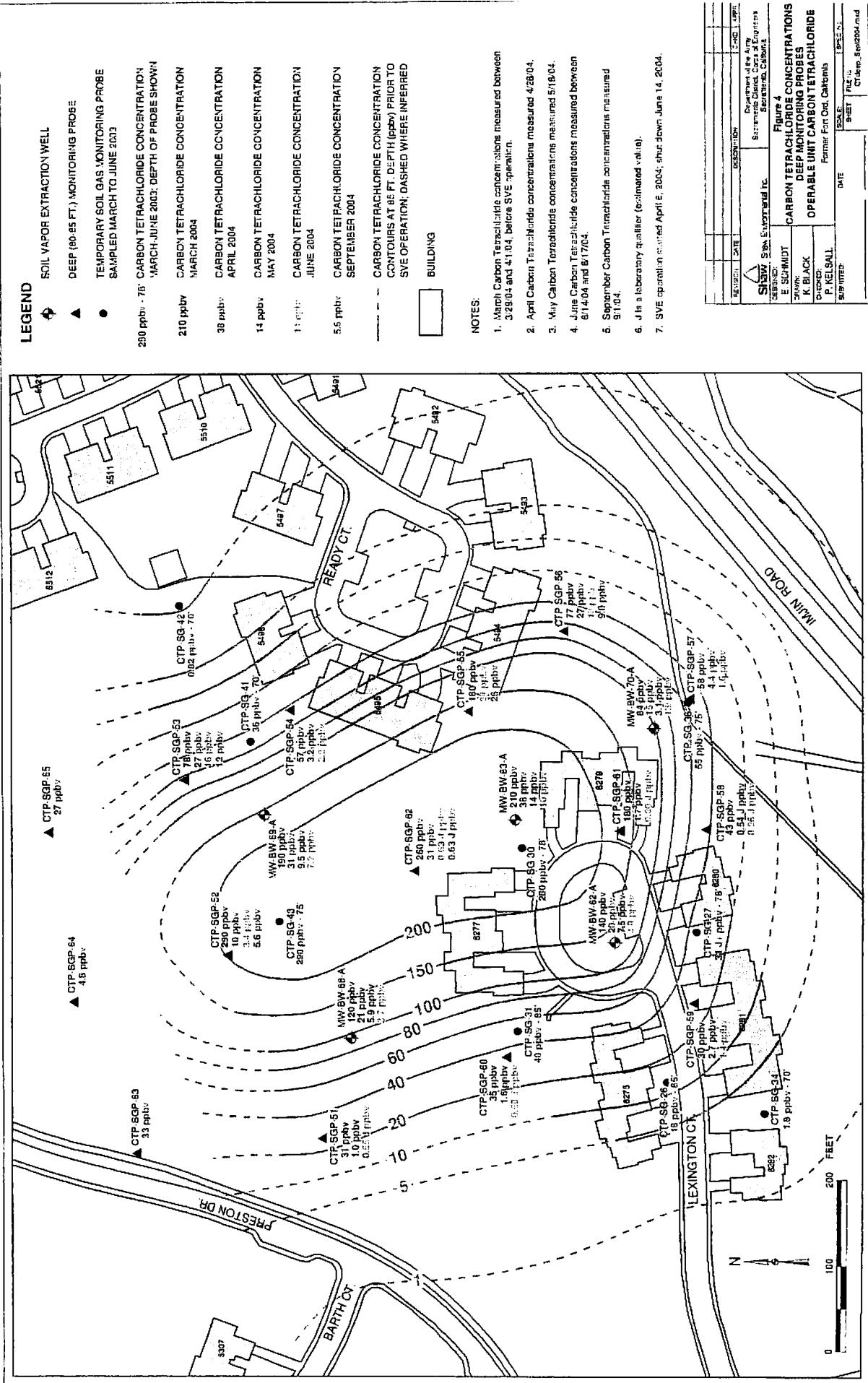
1. Carbon Tetrachloride concentration contours provided by Maciac and based on data collected March to July 2003.

2

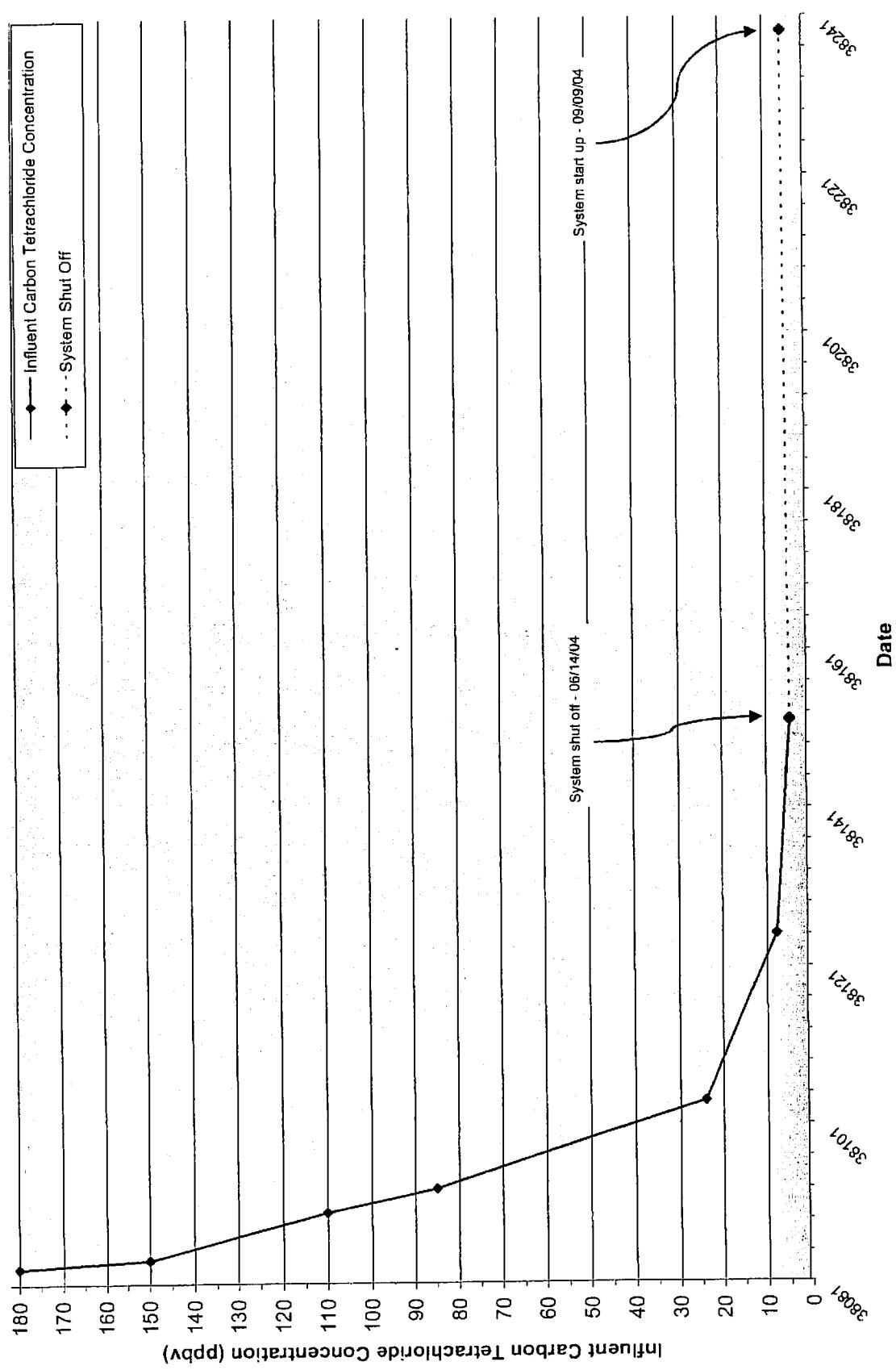
0 100 200 FEET

Carbon Tetrachloride Concentration in Selected Probes vs. Time





Influent Carbon Tetrachloride Concentration



LEGEND

●	EXTRACTION WELL - UPPER 180' FOOT AQUIFER
●	EXTRACTION WELL - A AQUIFER
●	MONITORING WELL
●	PROPOSED MONITORING WELL
●	PROPOSED EXTRACTION WELL LOCATION
+	TCE CONCENTRATION CONTOURS (g/L) UPPER 180' FOOT AQUIFER
+	TCE CONCENTRATION CONTOURS (g/L) A AQUIFER
—	GROUNDWATER EXTRACTION PIPELINE
···	PIPELINE EXTENSION - OPTIONAL ROUTE #1
—	PIPELINE EXTENSION - OPTIONAL ROUTE #2



Shaw Site Environmental, Inc. Date: 10/17/2006, Drawn by: J. W. Williams

Office: P. O. Box 1000, Suite 100, San Jose, California

Proposed Monitoring Well Locations

Proposed Extraction Well Locations

Groundwater Extraction Pipeline

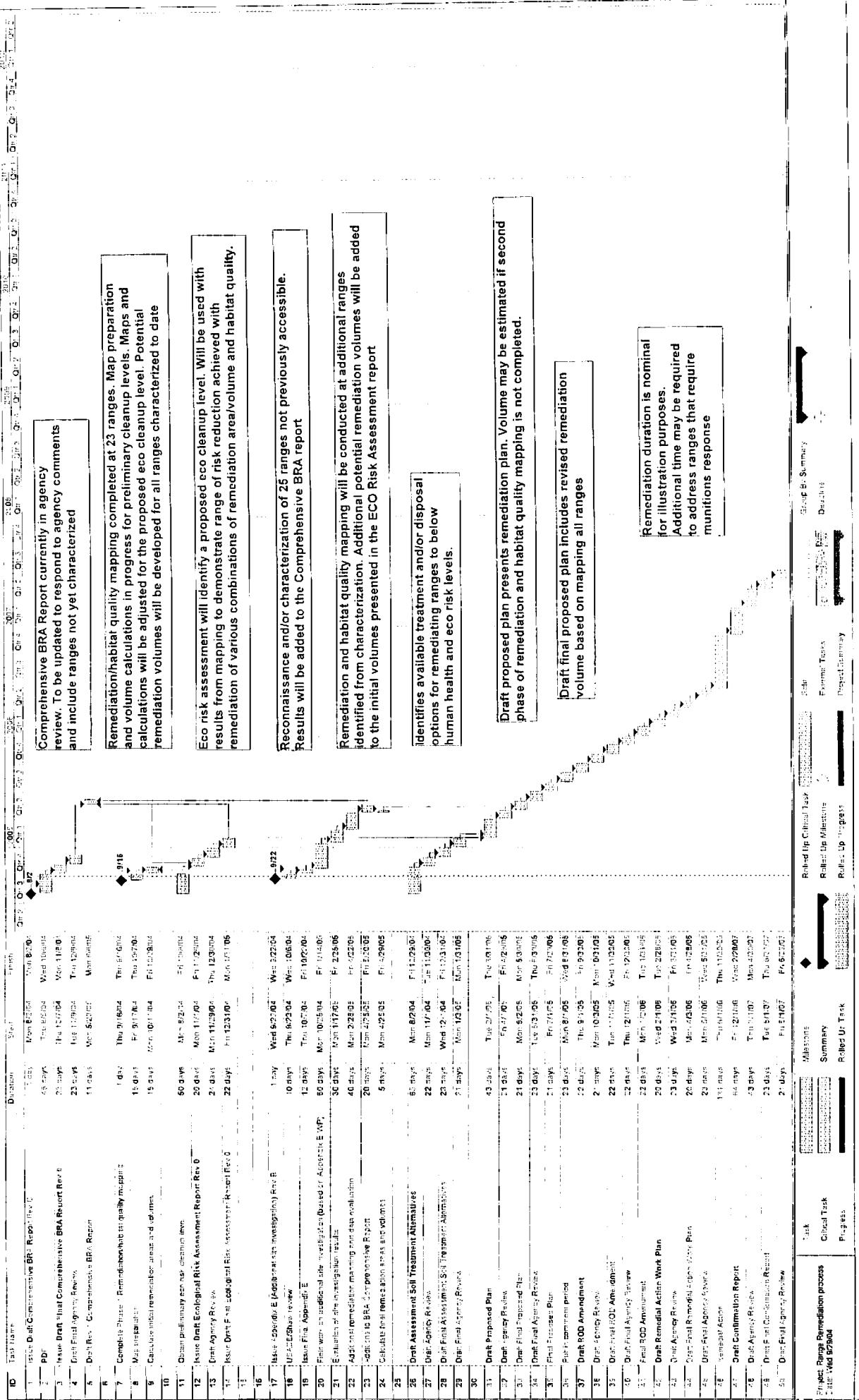
Possible OU2 Well Location and Pipeline Routes

Finalized OU2 Well Locations

Groundwater Extraction Pipeline

Proposed Extraction Well Locations

Proposed Monitoring Well Locations



BCT Meeting
OU-1 Groundwater Remediation
HydroGeoLogic, Inc.
Sept 30, 2004

1. Document Status:

- a. **Draft Remedial System Modification Plan:** Comments were officially due Sept 20. Comments received from DTSC , RWQCB and Peter deFur (technical advisor to FOEJN). Awaiting balance of comments.
- b. **Final Remedial System Modification Plan:** Distribution date to be determined after receipt of all comments. A Rare Plant Monitoring Program and an Invasive Weed Monitoring Program are also being developed for incorporation into the final. They are being coordinated with FONR staff.
- c. **Quarterly Groundwater Monitoring Report, Quarter 1, 2004:** Comments for draft report were officially due Sept 20. Comments received from RWQCB. Awaiting balance of comments before submitting Final.
- d. **Quarterly Groundwater Monitoring Report, Quarter 2, 2004:** Draft will be distributed as soon as comments for the first quarter draft are received and analyzed.
- e. **Quarterly Groundwater Monitoring Report, Quarter 3, 2004:** Groundwater samples were collected 20 -23 Sep. They have been sent to the testing lab. Validation will follow.

2. Remedial Activities:

- a. Resistivity surveys are being performed Sept 29 – Oct 1 on the northern part of the site (see Site Map, Proposed Resistivity Survey, Operable Unit 1, Former Fort Ord, CA) to help identify low spots in the SVA. This information will then be used to develop a detailed subsurface map to help identify the best places to locate monitoring wells for plume delineation.
- b. A well permit application and Work Plan was issued for the Phase II drilling operations, which will include the Remedial System wells in addition to the general locations for the new monitoring wells for plume boundary definition. The exact locations will be identified after completion of the subsurface map.
- c. Assuming application approval, the well drilling contractor for Phase II operations will mobilize on 4 Oct. Drilling is projected to take about five weeks and will include two to three drilling rigs. An Environmental Monitor, geologists and other HGL personnel will be in the field during this time.
- d. Construction of the pipeline and treatment plant will follow the well placement and will commence in November. The construction is scheduled to be completed by mid-December.

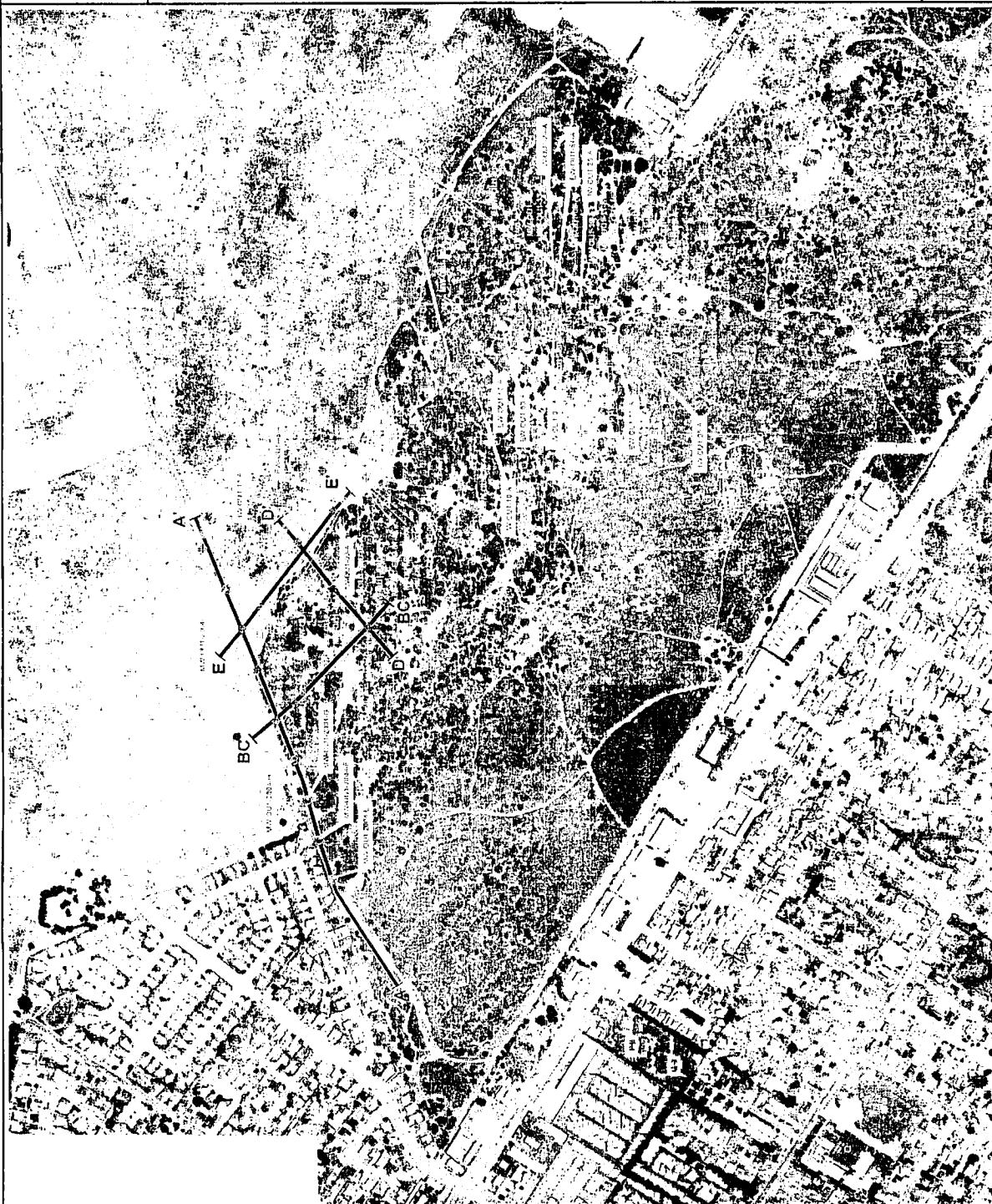
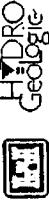
3. GWETS operations: The O&M contract with AHTNA has been extended for operation and maintenance of the existing groundwater treatment system.

Site Map
Proposed Resistivity Survey
Operable Unit I
Former Fort Ord, CA

Legend

- Phase II Extraction Well
- Phase II Injection Well
- Phase III Proposed Monitoring Well
- Quarterly Monitoring Well
- Monitoring Well
- Twice Yearly Monitoring Well
- Extraction Well
- ERD Pilot Study Well
- ERD Injection Well
- Piezometer
- Access Routes
- Proposed Resistivity Line

N



Range 36A Closure Activities

- Draft MR work plan completed, comments from internal review were due 9/24/04.
- MACTEC will add MR work plan to Closure Plan as an appendix.
- Revised schedule:
 - Estimated submission to DTSC of Draft Closure Plan: October 2004
 - Estimated completion of Closure Certification Report: June 2005
 - Possible disruptions of schedule:
 - Seasonal wetlands on site.
 - California tiger salamander.
- Issue: how will MR portion of Closure Plan be certified?
 - MACTEC's PE will certify Closure Plan with the exception of MR Work Plan.
 - Shaw's RG will certify MR Work Plan.
 - Army will certify Closure Plan in its entirety.

Former Fort Ord Property Transfer Status

- FOST 6 (Track 0)
- FOST _____ (Track 0 Plug-in)
- FOST _____ (Track 1)
- FOSL 9 (First Tee)
- FOSL 12 (MOUT)
- FOSL _____ (Monterey Horse Park)
- FOSL _____ (Del Rey Oaks/Native Plant Society Habitat Area)
- FOSL _____ (Marina Heights)
- FOSET 4 (Del Rey Oaks)

Title/Description	Parcels	Comments
FOST 6 Track 0 Parcels 95 Parcels ~1,223 acres (Version 0/October 2001) (Version 0.1/January 2002) (Version 1/August 2002) (Version 1.1/March 2003) (Version 2.0/May 2003)	<u>E11b.1, E11b.2, E11b.3, E11b.4,</u> 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, <u>F7.2</u> , L1.1, L12.2.2, L12.2.3, L12.3, <u>L15.1</u> , L19.2, L19.3, L19.4, L2.2.1, L20.9, <u>L20.10.1.1</u> , <u>L20.10.1.2</u> , <u>L20.10.2</u> , L20.10.3, <u>L20.14.1.2</u> , L20.16.1, L20.16.2, L20.16.3, L20.17.1, <u>L20.19.2</u> , <u>L20.20</u> , <u>L20.21.1</u> , <u>L20.21.2</u> , <u>L20.22</u> ,	<p>Signed May 27, 2003. Public Notice published and deeds in the process of being recorded.</p> <p>CRUP 1 (groundwater) for 17 parcels (127 acres); recorded 9/17/03.</p> <p>CRUP 2 (groundwater) for 38 parcels (489 acres); recorded 9/22/03.</p> <p>CRUP 3 (residential) for parcel F2.7.2 (2.17 acres); recorded 3/22/04.</p> <p>CRUP 4 (groundwater) for 37 parcels (562 acres); recorded 9/28/04. This CRUP includes East Garrison parcels (deeds signed but not recorded for 15 parcels (261 acres)).</p> <p>Issue with salamander.</p> <p>77 parcels transferred by deed as of 9/1/04 (956 acres).</p> <p><u>Parcels not yet transferred.</u></p>

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FOST 6 (Track 0) – Parcel L23.3.1

(East Garrison Trap and Skeet Range)

GOAL: TRANSFER BY END OF FISCAL YEAR (30 SEPTEMBER 2004)

WORK COMPLETED

JUNE:

- Developer removed buildings.
- Army collected lead shot.
- Army excavated clay target debris and collected excavation area confirmation samples.

JULY – AUGUST:

- Excavation completed. Estimated total of 9,000 cy excavated.
- Sampled for stockpile characterization.

SEPTEMBER:

- Received validated analytical results and preparation of draft letter report.
- Army signature on CRUP 4.
- Deeds signed.

WORK REMAINING

OCTOBER:

- Internal review of letter report.
- Complete letter report and submit to DTSC.

OCTOBER – ?:

- Disposal of stockpile material.
- Recording of deeds and transfer of parcels.

Title/Description	Parcels	Comments
Proposed FOST Track 0 Plug-in Parcels 37 Parcels ~ 579 acres (V0/November 2004)	E11a.1, E18.2.1, E18.2.2, E18.3, E20c.1.2, E20c.2.2, E29b.3, E29e, E2d.3.1, E4.3.1.2, E4.3.2.2, E4.7.1, E4.7.2, E8a.1.1, E8a.2, L20.13.1, L20.13.2, L20.13.3, L20.13.4, L20.13.5, L20.7.1, L20.7.2, L20.7.3, L20.7.4, L20.7.5, L23.3.2.2, L3.1, L35.4. L35.5, S2.1.2, S3.2.1, S3.2.2, S4.2.1, S4.2.2, S4.2.3, S4.2.4, S4.3	Not drafted yet. Includes parcels with no evidence of military munitions use. ROD complete.
Proposed FOST Track 1 Parcels 29 Parcels ~1,982 acres (V0/January 2005)	E2a, E4.1.2.1, E4.1.2.2, E4.1.2.3, E4.3.2.1, E4.6.1, E4.6.2, E11a, E11b.6, E15.2, E20c.2.1, L5.6.1, L5.6.2, L9.1.1.2, L9.1.2.1, L9.1.2.2, L20.6, L20.14.1.1, L20.14.2, L20.15, L20.19.1, L23.3.3, L23.5, L31, S3.1.1, S3.1.2, S3.1.3, S3.1.4, S4.1.1	Not drafted yet. Includes parcels where military munitions were suspected to have been used, but none were found. ROD in January 2005.

Title/Description	Parcels	Comments
FOSL 9 First Tee Youth Golf Course 3 Parcels ~ 123 acres (V0/February 2004) (V1/March 2004) (V1.1/April 2004) (Final/April 2004)	E20c.1.1.1 and portions of E20c.1.1.2 and E20c.1.3	FOSL signed 5/5/04. Agencies provided with electronic copy, hard copy and public notice pending signature of lease. Lease signed 9/2/04. Public notice published in local newspapers 9/23/04.

Title/Description	Parcel	Comments
FOSL 12 Military Operations on Urban Terrain (MOUT) Site 1 Parcel ~54 acres (V0/July 2004)	F1.7.2	<p>Draft FOSL in preparation.</p> <p>Received letter request from Monterey Peninsula College (MPC) for lease.</p> <p>Some wooden structures that burned in the Eucalyptus Fire may have ACM – Army will sample soil. Further action pending biological opinion for tiger salamander and asbestos sampling results.</p> <p style="text-align: right;">6</p>

Title/Description	Parcels	Comments
FOSL — Monterey Horse Park 3 Parcels ~ 340 acres	Portion of E19a.1, E19a.2 (habitat area) and E19a.3	Not started. No official request for property yet.
FOSL — Marina Heights Development 4 Parcels ~ 78 acres	Portions of E4.3.1.2, E5a, L5.6.1 and L5.6.2 (OU 2 Landfill Area A)	Not started. May be preceded by ROE for making roadway and utility improvements.

Title/Description	Parcels	Comments
FOSET 4 Del Rey Oaks 6 Parcels ~ 324 acres (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) (V1.3/Apr 2004)	E29a, E29b.1, E31a, E31b, E31c, E36	FOSET signed 7/28/04. FOSET package is on the way to the Governor's office.
FOSL — Del Rey Oaks/Native Plant Society Habitat Reserve Area 1 Parcel ~ 5 acres	E29a.1	Not started. No official request for property yet.