039092

Environmental Restoration Contractor **ERC Team**

Meeting Minutes

Job No. 22192
Written Response Required? N0
Closes CCN: N/A
OU: 200-ZP-2
TSD: N/A
ERA: N/A
Subject Code: 4170; 4170

SUBJECT 200-ZP-2 Rebound Study Status

TO Distribution

FROM V. J. Rohay VJR 11/20/96

DATE November 20, 1996

ATTENDEES

V. J. Rohay H9-11
J. R. Freeman-Pollard H9-12
M. A. Buckmaster H0-19
B. H. Ford H0-02
A. C. Tortoso H0-12
D. A. Faulk B5-01

DISTRIBUTION

Attendees

Document and Info Services H0-09

A meeting on the above subject was held on November 13, 1996, at Sigma II, Husky Room. The agenda is included as Attachment 1.

DQO Meeting Commitments

A. C. Tortoso (DOE) and D. A. Faulk (EPA) approved and signed a Class III Change Control Form, provided by M. A. Buckmaster, which adds a TPA milestone (M-15-36) to restart the vapor extraction systems no later than 4/30/97 (Attachment 2). It was agreed at the data quality objectives (DQO) workshop held 10/31/96 that this Class III Change Form would be signed by 11/15/96.

V. J. Rohay provided copies of the "Test Plan for the FY 1997 Rebound Study at the Carbon Tetrachloride Soil Vapor Extraction Site, BHI-00947, Rev. 0," to A. C. Tortoso and D. A. Faulk, as agreed to at the 10/31/96 DQO workshop. This test plan is considered to be the final version (Rev. 0). However, D. A. Faulk will review the test plan and provide any comments, which will be evaluated for incorporation into the test plan.

The draft minutes of the DQO workshop will be prepared by V. J. Rohay and provided to A. C. Tortoso for review by the close of business 11/15/96. The finalized DQO workshop minutes will be transmitted with the test plan.

D. A. Faulk reported that EPA was very pleased with the DQO meeting held for the 200-ZP-2 rebound study, with the exception that he would have liked EPA's involvement earlier in the process. B. H. Ford noted that the test plan was greatly improved by the inclusion of the DQO process results.

Finally, M. A. Buckmaster provided an estimate of the rebound study cost to D.A. Faulk, per his request at the DQO workshop.

Status of Rebound Study

V.J. Rohay reported that the soil vapor extraction (SVE) systems were used to collect baseline characterization data at the wells and were turned off as planned on 11/4/96. Rebound monitoring began 11/4/96.

Review of Rebound Study Data

V. J. Rohay provided summary tables of the carbon tetrachloride baseline and rebound data as of 11/12/96; the barometric pressure data for November 1996; and a summary table of the duplicate sample analyses (Attachment 3). The meeting participants agreed that the current sampling frequency (every other day) would be continued for another week (through 11/22/96) after which the data would be reviewed for adjustments to the sampling frequency. It is anticipated that after 11/22/96, sampling locations with consistent trends in concentration data could be sampled once a week. D. A. Faulk would like monitoring to continue as needed to meet the study objectives.

Future Status Meetings

Updates on the status of the rebound study will continue on a bi-monthly schedule. The next rebound study status will be presented to DOE and EPA during the Unit Managers Meeting on 11/20/96. Also, a bi-monthly status meeting will be held on December 12.

AGENDA
200-ZP-2 REBOUND STUDY STATUS
NOVEMBER 13, 1996

DQO Commitments

- BHI-00947 Rev. 0 (test plan)
- TPA milestone change package

Status of Rebound Study

- SVE Systems shutdown 11/4
- Rebound Monitoring started 11/4

Review of Rebound Data

- variability
- repeatability
- not enough data to trend or justify change in sampling frequency
- some points too tight to sample; will substitute alternates
- no Zone 1 sampling yet; will accelerate selected probes (1996 detections)
- may add (by substitution) Zone 2 probes in areas of greater rebound as trends become clearer

Change Number	Federal Facility Agreement and Consent Order Change Control Form	Date
M-15-96-12	Do not use blue ink. Type or print using black ink.	October 4, 1996

Originator: A. C. Tortoso

Phone: (509) 373-9631

Class of Change

[ ] I - Signatories [ ] II - Project Manager [x] III - Unit Manager

Change Title

200-ZP-2 REBOUND STUDY RESTART

Description/Justification of Change

Approval of this change request would result in the addition of one TPA milestone (M-15-36) to restart the vapor extraction systems no later than April 30, 1997. A rebound study will be initiated November 4, 1996 and continue through April 30, 1997. Data collected during the study will be used to evaluate the extent of the CCL4 plume, source distribution, groundwater influence, enhancement of system operations, plume control, cleanup goals, and final remedy selection. The study will be initiated per the test plan presented to EPA during the October 31, 1996 DQO meeting and finalized as Rev. 0. The TPA milestone date may be modified based on the results of the rebound study. The 90 day change notification will not apply.

Impact of Change: Approval of this change request will result in the addition of one 200-ZP-2 TPA milestone.

Affected Documents: Hanford Federal Facility Agreement and Consent Order Action Plan.

Approvals

Arlene C. Tortoso — DOE — 11/13/96 — Date

✓ Approved ___ Disapproved

[signature] — EPA — 11-13-96 — Date

✓ Approved ___ Disapproved

N/A — Ecology — ___ — Date

___ Approved ___ Disapproved

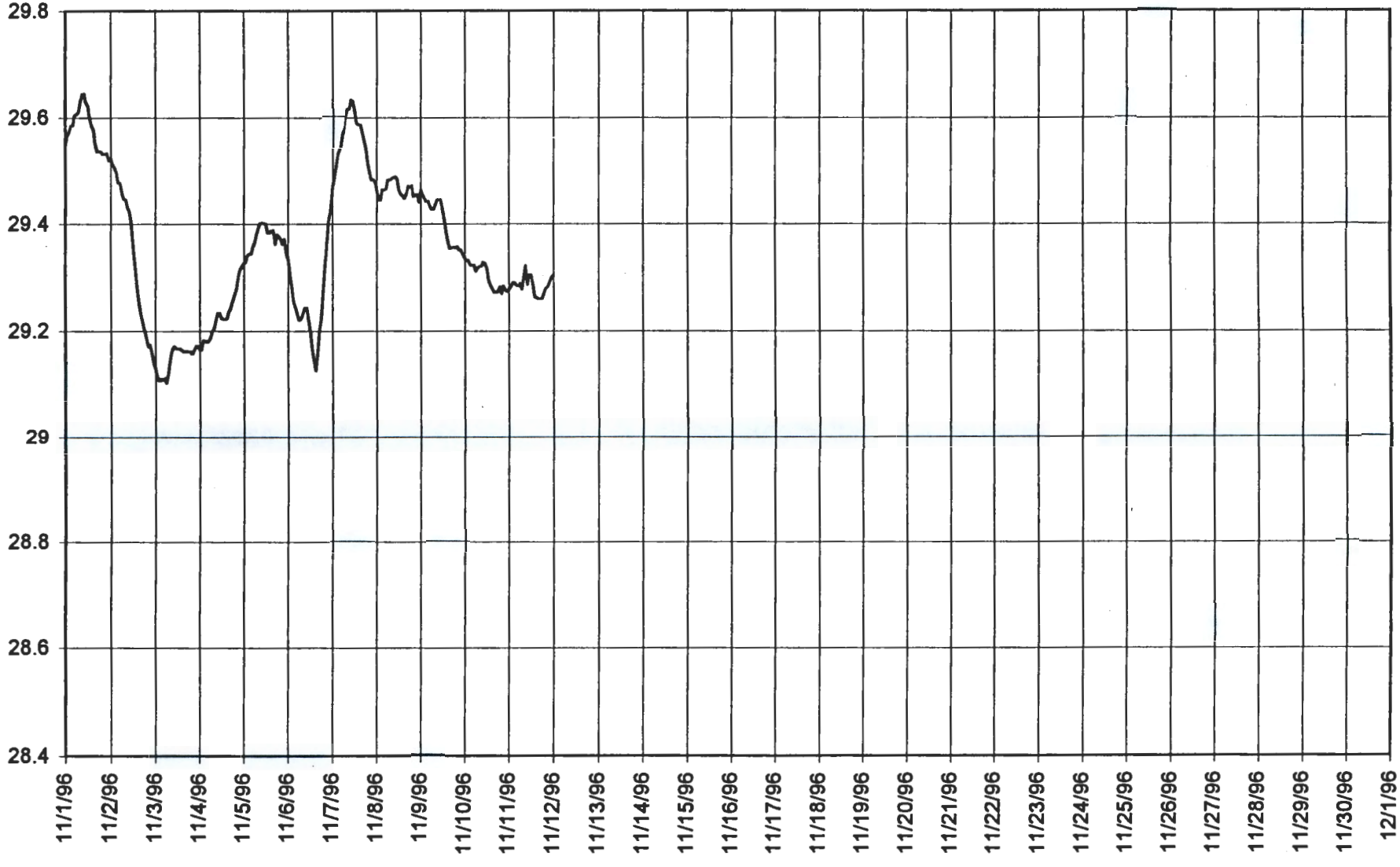
Wells/Deep Soil Gas Probes				Baseline			Baseline			Rebound			Rebound			Rebound			Rebound			Rebound			Rebound			Rebound		
				5/13-16/96			10/29/96			11/4/96			11/5/96			11/6/96			11/7/96			11/8/96			11/11/96			11/12/96		
Wellfield	**ft bgs**	**Zone**	**Comment**	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*
Z-9																													
CPT-27/10	33	2	near bottom of trench										-	0.5	d				-	0.1							-	0.5	
CPT-28/12	40	2	perimeter	0	99.0								-	19.0					-	23.7					+	27.0				
CPT-21A/14	45	2		0	21.0								-	4.8					-	5.3							-	5.3	
W15-220SST/16	52	2											0	0.6								0	0.5					-	0.6	
CPT-9A/18	60	2	perimeter	0	18.0								0	38.9								+	40.2					-	40.7	
W15-219SST/23	70	2											-	9.3					-	2.8							-	20.5	
W15-82	83	2	historic high					28.5								+	28.9					-	21.3					-	19.1	
W15-218SST/26	86	2											-	-	t								-	t					-	t
CPT-21A/26	86	2	high in 1996 s.g. survey	0	100.0								-	22.7					-	22.2							-	25.5	
CPT-28/27	87	2	perimeter	0	350.0	r							-	105.0					-	114.0					+	133.0				
CPT-9A/28	91	3	perimeter	-	70.0								-	87.0								0	92.9					-	90.4	
CPT-24/29	95	3		0	0.04	j							-	8.0	t								-	t					-	t
W15-218U	108	3						15.6								+	39.8					-	18.0					-	19.0	
W15-217	115	3						71.7								+	91.7					-	0.6					-	159.0	
CPT-8AEX	112	4																	-	0.0	t							-	0.0	
W15-220SST/36	118	4											-	8.8								-	13.2					-	16.1	
CPT-24/36	118	4		-	2.0	d							-	27.1								-	26.2					-	27.6	
W15-86	121	4						41.8								+	30.9					-	80.8					-	54.6	
W15-219SST/39	130	4											-	1.2					-	0.7							-	1.3	
W15-219SST/47	155	5																	-	15.4							-	30.9	
W15-220SST/56	185	6											-	8.3								-	9.5					-	12.4	
W15-9L	189	6						9.7								+	14.7					-	5.4					-	12.0	d
W15-6L	189	6						14.2								+	1.4	t				+	0.5	t	-	-	t	+	0.0	t

Attachment 3

Wells/Deep Soil Gas Probes				Baseline			Baseline			Rebound			Rebound			Rebound			Rebound			Rebound			Rebound			Rebound		
				5/13-16/96			10/29/96			11/4/96			11/5/96			11/6/96			11/7/96			11/8/96			11/11/96			11/12/96		
Wellfield	ft bgs	Zone	Comment	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*	dP	CCl4	*
Z-1A																														
CPT-13A/9	30	2	perimeter																-	0.3					+	0.6				
CPT-1A/11	35	2	perimeter	0	0.5					-	0.3								0	0.4					+	0.5				
CPT-2EX	40	2	perimeter																-	0.3					+	0.3				
CPT-34/12	40	2	perimeter	0	0.9					-	0.2								0	0.5					-	0.5				
CPT-7A/16	52	2	perimeter							0	0.3								-	0.6					+	0.3				
CPT-30/21	68	2		0	0.1											+	0.6					+	1.0					-	0.6	
CPT-13A/21	70	2	perimeter							-	2.1								0	4.5					+	4.1				
CPT-32/21	70	2		-	0.2					-	0.1					+	0.5					+	0.5		+	0.5				
CPT-4C/23	75	2								-	0.2								-	0.6					+	0.8				
CPT-4E/23	75	2								-	0.1								-	0.2					+	0.4				
CPT-4F/23	75	2		0	<0.05					-	0.3								-	0.6					+	0.8				
CPT-31/23	76	2	high in 1996 s.g. survey	-	4.5					-	0.7								-	1.0								-	1.1	
CPT-33/24	80	2		+	1.1	d,r				-	0.3								-	0.6					+	0.9				
CPT-34/26	86	2	perimeter	-	0.6					-	0.3								-	0.5					+	0.6				
CPT-1A/28	91	2	perimeter	+	0.02	j,d				-	1.9								-	2.6					+	2.7				
W18-252SST/31	100	3																	-	0.4					+	1.7				
CPT-4E/31	103	3								-	0.4								+	0.7					+	1.1				
CPT-4C/33	107	3								-	0.3								-	0.9	d				+	2.0				
CPT-4F/33	109	3		0	0.1	d				-	0.3								-	0.8					+	2.3				
W18-89	115	3						20.8								+	7.7					+	5.7		+	14.8				
W18-252U	118	3						10.4								+	17.4		-	22.3		+	16.1	d	+	18.2				
W18-174	121	3						0.0	t							+	2.0	t				+	7.7					+	5.3	
W18-167	126	3						18.9								+	250.0					+	269.0					-	195.0	
W18-248	132	3						8.4								+	48.2					-	56.2					-	111.0	
W18-252SST/44	145	4																	-	9.5					-	19.7				
W18-7	203	6						0.0								+	13.0					-	15.1					-	14.7	
W18-252SST/64	210	6																	-	87.3	t				+	93.8	t			

	*	j	estimated
	*	d	maximum of duplicates
	*	r	maximum of replicates
	*	t	no flow (SVE) or tight

November 1996 Barometric Pressure



Duplicate Samples					
Date	**Probe**	**ft bgs**	**Zone**	**CCl4-1**	**CCl4-2**
11/5/96	CPT-27/10	33	2	0.37	0.47
11/7/96	CPT-4C/33	107	3	0.85	0.84
11/8/96	W18-252U	118	3	15.6	16.1
11/11/96	CPT-34/26	86	2	0.6	0.6
11/12/96	W15-9L	189	6	11.8	12.0

Figure 1. Carbon Tetrachloride Vapor Extraction Site.