

Environmental
Restoration
Contractor **ERC Team**
Meeting Minutes

0049952

040678

Job No. 22192
Written Response Required? NO
Close CCN: N/A
OU: 200-ZP-2
TSD: N/A
ERA: CCI4
Subject Code: 4170; 4170

SUBJECT 200-ZP-1 and 200-ZP-2 Status

TO Distribution

FROM V. J. Rohay

DATE January 14, 1997

ATTENDEES

DISTRIBUTION

V. J. Rohay H9-11

J. R. Freeman-Pollard H9-12

M. A. Buckmaster H0-19

G. R. Chiaramonte H9-12

A. C. Tortoso H0-12

D. A. Faulk B5-01

Attendees

Document and Info Services H0-09



A meeting on the above subject was held on January 13, 1997, at Sigma II, Husky Room. The agenda is included as Attachment 1.

200-ZP-2 Rebound Study

The 200-ZP-2 rebound study began as planned on November 4, 1996 when the soil vapor extraction systems were turned off. V. J. Rohay provided summary tables of the carbon tetrachloride baseline and rebound data as of 1/3/97 (Attachment 2). During the first nine weeks of the rebound study, carbon tetrachloride concentrations have remained less than 3 ppmv at monitoring points between the ground surface and approximately 45 ft depth in the area remediated using soil vapor extraction. The highest carbon tetrachloride concentrations, between 200 and 500 ppmv, have been observed at wells and monitoring probes between approximately 90 and 130 ft below ground surface, near the Plio-Pleistocene fine-grained soils and "caliche layer." Carbon tetrachloride vapor concentrations near the water table, between 185 and 210 ft below ground surface, have not exceeded 30 ppmv.

Weekly carbon tetrachloride monitoring continued through December. During January and February 1997, all wells and soil gas probes identified for use in the rebound study will be monitored once per month. In addition, 15 wells/probes with widely fluctuating carbon tetrachloride concentrations will be monitored twice per month (Attachment 1).

It was agreed that the next 200-ZP-2 status meeting would include a discussion of when to resume operation of the soil vapor extraction systems, based on the rebound study objectives that have been met and those that still remain.

200-ZP-1

M. A. Buckmaster provided an update on the 200-ZP-1 pump-and-treat remediation (Attachment 3). To date, the 200-ZP-1 Treatment System has removed 221 kg of carbon tetrachloride. During the past week, the flow

rate from the three extraction wells averaged 160 gallons per minute, or 1.3 million gallons per week; and current (1/8/97) carbon tetrachloride influent concentrations (Tank T-01) averaged 3400 ppb. No significant change in the influent carbon tetrachloride concentration has been observed since the 200-ZP-2 soil vapor extraction systems were shut down. The problem with the leak detection system, reported at the last meeting, has been corrected, and 24-hour-per-day operations have resumed. The treatment system was shut down as planned during the December holidays, due to lack of resources. Field work is progressing ahead of schedule on installation of the extraction and injection piping system for Phase III operations.

Future Status Meetings

The next status meeting on the 200-ZP-1 and 200-ZP-2 projects will be held on February 10, 1997.

040678

AGENDA
200-ZP-1 and 200-ZP-2 STATUS
JANUARY 13, 1997

200-ZP-2 Rebound Study

- Review of Rebound Study Data
 - Changes in Sampling Frequency
- 1/13 15 wells/probes* with fluctuating carbon tetrachloride concentrations
- 1/27-1/31 All wells/probes
- 2/10 15 wells/probes* with fluctuating carbon tetrachloride concentrations
- 2/24-2/28 All wells/probes

200-ZP-1 Pump-and-Treat Remediation

*	Z-9	Z-1A
	W15-217	W18-174
	W15-86	W18-167
	W15-9L	W18-248
	W15-219SST/70	W18-89
	W15-219SST/130	W18-252U
	W15-219SST/155	W18-7
	CPT-21/86	W18-252SST/145
		W18-252SST/210

040678

Carbon Tetrachloride Data Table for 11/4/96 - 1/3/97					
		1	2	3	4
		Depth	Maximum	Maximum	Minimum
			Rebound	Baseline	Baseline
		(feet)	(ppmv)	(ppmv)	(ppmv)
Zone 1		0 to 5	0	0	0
Zone 2					
	Z-9 "core"	25 to 86	87	29	0
	"perimeter"	40 to 87	183	350	18
	Z-1A/18/12 "core"	68 to 80	22	4.5	0
	"perimeter"	30 to 91	5	0	0
Zone 3	Z-9	91 to 115	368	72	16
	Z-1A/18/12	100 to 132	492	21	0
Zone 4	Z-9	118 to 130	215	42	2
	Z-1A/18/12	145	94	N/A	N/A
Zone 5	Z-9	155	32	N/A	N/A
	Z-1A/18/12	No samples			
Zone 6	Z-9	185-189	22	14	10
	Z-1A/18/12	203-210	29	0	0
Explanation of columns:					
Column 1	Depths of sampling points in each zone.				
Column 2	Maximum rebound CCl4 concentration observed in each zone.				
Column 3	Maximum baseline CCl4 concentration observed in each zone.				
Column 4	Minimum baseline CCl4 concentration observed in each zone.				



200-ZP-1 WEEKLY OPERATION SUMMARY

System Runtime (hrs)	Avg. Flow (gpm)	Avg. Flow (gpm)	Avg. Flow (gpm)	Weekly Process (gals)	Avg. RH (%)	Avg. Airflow (scfm)	Avg Air Temp (F)	CCI ₄ Removed kg/ (lbs)	Sys. Avail Week Total (%)	Sys. Avail Oct.TD Total (%)	Sys. Avail YTD Total (%)	CCI ₄ YTD Total kg/ (lbs)	Groundwater Treated YTD Total (gals)
135.0	<u>WE01</u> 31.2	<u>WE02</u> 45.6	<u>WE03</u> 83.5	1,298,430	29.7	578	71.0	16.8/ (36.9)	99.6	76.1	75.0	221.2/ (486.7)	21,857,490

040678



**200-ZP-1
WEEKLY SAMPLING SUMMARY**

Sample Date	WE01 W15-33 Conc. (ppb)	WE02 W15-34 Conc. (ppb)	WE03 W15-35 Conc. (ppb)	T-01 Ext Tank Conc. (ppb)	V-01 Stripper Conc. (ppb)	T-02 Inj. Tank Conc. (ppb)	H-01 Inf. Vapor Conc. (ppm)	A-3 Eff. Vapor Conc. (ppm)
1-8-97	4800 CCl4 21 TCM 8.9 TCE	2600 CCl4 13 TCM 9.7 TCE	3400 CCl4 16 TCM 4.3 TCE	3400 CCl4 15 TCM 6.8 TCE	3.5 CCl4 <2 TCM <2 TCE	3.0 CCl4 <2 TCM <2 TCE	14	<1

NOTE: Please note the sampling date. Last available sample data, refer to note above.