

EPFS GROUNDWATER SITES 2004 ANNUAL GROUNDWATER REPORT



Sandoval GC A #1A Meter Code: 89620

SITE DETAILS

Legal Description:	Town:	30N	Range:	9W	Sec:	35	Unit:	С
NMOCD Haz Ranking:	10	Land Type:	Federal	Operator:	Amoco) Produ	ction Con	npany
PREVIOUS ACTIVI	TIES							
Site Assessment:	5/94	Excavatio	n:	9/94 (50 cy)	Soil Bo	oring:		5/95
Monitor Well:	5/95	Geoprobe	:	NA*	Additi	onal M	IWs:	NA*
Downgradient MWs:	NA	Replace N	ſW:	8/97	Quart	erly In	itiated:	4/96
ORC Nutrient Injection:	10/01	Re-Excava	ation:	7/97 (504cy)	PSH R Initiat	emova ed:	ıl	NA
Annual Initiated:	4/99	Quarterly	Resumed:	NA				

*Downgradient monitoring wells were attempted in 1995, but met with drilling refusal. In 1997, geoprobe borings were attempted, but were again met with drilling refusal.

SUMMARY OF 2004 ACTIVITIES

MW-1: Annual groundwater sampling and dissolved oxygen measurements were conducted in November 2004. Oxygen releasing compound (ORC) socks in MW-1 were replaced during November 2004.

Site-Wide Activities: No other activities were performed at this site during 2004.

SITE MAP

A site map (November) is attached in Figure 1.

SUMMARY TABLES AND GRAPHS

- Analytical data for 2004 are summarized in Table 1, and historic data are presented graphically in Figure 2.
- Analytical reports are presented in Attachment 1.
- Field documentation is presented in Attachment 2.







Federal Groundwater Site Map



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GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2004.

DISPOSITION OF GENERATED WASTES

No wastes were generated at this site during 2004.

ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this site, however, the attached site map presents the analytical data collected during 2004.

CONCLUSIONS

- Regional groundwater flow is estimated to be toward the south.
- The dissolved oxygen concentration in MW-1 was 2.8 mg/L in September, indicating that the ORC is providing oxygen to enhance natural biodegradation and that the oxygen is being used up in the process.
- The benzene concentration in MW-1 continues to be elevated with a measured concentration of 2,490 μ g/L in 2004. However, benzene concentrations continue to decrease from the historic high concentration of 10,400 μ g/L in 1996.
- Previous attempts to install downgradient monitoring wells in December 1995 resulted in drilling refusal. Therefore, additional wells are not considered to be feasible at this site.

RECOMMENDATIONS

- EPFS will continue annual groundwater sampling (including dissolved oxygen measurements) at MW-1.
- EPFS will continue to inspect the ORC socks installed in MW-1, and will replace them annually.











TABLE 1

SUMMARY OF BTEX COMPOUNDS IN 2004 GROUNDWATER SAMPLES SANDOVAL GC A #1A (METER #89620)

Site Name	Monitoring Well	Samnle Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Depth to Water
			(ug/L)	(ug/L)	(ng/L)	(ug/L)	(ft btoc)
Sandoval GC A #1A	MW-1	11/16/2004	2,490	30.9	346	2,860	34.84
< = Analyte not detected at Met	hod Detection Limit (MDL	.). Value shown is MD	DL.				

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J = Value estimated



2004 Sandoval.xls, Sandoval MW1