

Table 9-1  
Volatile Organic Compounds Detected in Surface Water Samples  
(Most Common VOCs)  
Hookston Station Remedial Investigation  
Pleasant Hill, California

Sample Location	Date	Sample Depth/ Screened Interval (ft bws)	Analytical Laboratory	PCE (µg/L)	TCE (µg/L)	c-1,2-DCE (µg/L)	t-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	1,1,1-TCA (µg/L)	1,1,2-TCA (µg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYLBENZENE (µg/L)	MTBE (µg/L)
RWQCB Final Surface Water Screening Level <sup>(A)</sup>				5	5	6	10	3.2	0.5	62	5	1	40	30	5
RWQCB Lowest (Chronic) Fresh Water Habitat Goal <sup>(B)</sup>				120	360	590	590	25	780	62	4,700	46	130	290	66,000
RWQCB Maximum (Acute) Fresh Water Habitat Goal <sup>(C)</sup>				NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	120,000
RWQCB Bioaccumulation and Human Consumption Standards <sup>(D)</sup>				8.9	81	NE	140,000	3.2	530	NE	42	71	200,000	29,000	NE
Surface Water Samples															
FC-154-L	6/20/2002	0-1 ft	STL	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
FC-1905-L ("FC-1")	6/25/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
FC-2210-L	9/14/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	N/A
FC-2210-R	9/14/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	N/A
FC-2270-L	9/14/2001	0 Ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5
FC-2270-R	9/14/2001	0 Ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5
FC-2630-L ("FC-2")	6/25/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
FC-2830-L	9/14/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5
FC-3030-L	9/14/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5
FC-3230-L	9/14/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
FC-3430-L	9/14/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5
FC-3430-R	9/14/2001	0-1 ft	CTBERK	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5
FC-3630-L	9/14/2001	0-1 ft	CTBERK	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5
FC-3830-L	9/14/2001	0-1 ft	CTBERK	< 0.5	0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5
FC-3940-L ("FC-3")	6/25/2001	0-1 ft	CTBERK	< 0.5	3.3	1.4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
FC-3940-L ("FC-3")	7/20/2001	0-1 ft	CTBERK	< 0.5	2.5	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
FC-3940-L ("FC-3") Dup	7/20/2001	0-1 ft	CTBERK	< 0.5	2.8	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
FC-3940-L	9/14/2001	0-1 ft	CTBERK	< 0.5	1.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5
FC-3940-L	4/19/2002	0-1 ft	CTBERK	< 0.5	UJ	1.7	J	0.5	UJ	< 0.5	< 0.5	UJ	< 0.5	UJ	< 0.5
FC-3940-R	9/14/2001	0-1 ft	CTBERK	< 0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5
FC-4060-L ("FC-4")	7/20/2001	0-1 ft	CTBERK	< 0.5	2.7	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
FC-4095-L	6/20/2002	0-1 ft	STL	< 1.0	1.8	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1
FC-4630-L	9/14/2001	0-1 ft	CTBERK	< 0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5
FC-5041-L	6/20/2002	0-1 ft	STL	2.6	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.3
FC-5570-L	9/14/2001	0-1 ft	CTBERK	< 0.5	0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5
FC-5570-L	4/19/2002	0-1 ft	CTBERK	< 0.5	UJ	1.2	J	0.5	UJ	< 0.5	< 0.5	UJ	< 0.5	UJ	1.2
FC-5570-L	6/20/2002	0-1 ft	STL	< 1.0	1.7	0.60 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1
FC-7200-L	4/19/2002	0-1 ft	CTBERK	< 0.5	UJ	1	J	0.5	UJ	< 0.5	< 0.5	UJ	< 0.5	UJ	< 0.5
FC-8848-L	6/20/2002	0-1 ft	STL	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1

Notes:

Table includes results of most commonly detected VOCs in ground water; see Analytical Reports for complete results.

Concentrations are reported in micrograms per liter (µg/L).

(A) Freshwater Surface Water Bodies Environmental Screening Levels from Table F of the San Francisco Bay Regional Water Resources Quality Control Board's *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater*, Interim Final July 2003 (updated 4 February 2004).

(B) Chronic Freshwater Aquatic Habitat Goals from Appendix 1, Table F-4a of the San Francisco Bay Regional Water Quality Control Board's *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater*, Interim Final July 2003 (updated 4 February 2004).

(C) Maximum (acute) Freshwater Aquatic Habitat Goals from Appendix 1, Table F-4b of the San Francisco Bay Regional Water Quality Control Board's *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater*, Interim Final July 2003 (updated 4 February 2004).

(D) Surface Water Quality Standards for Bioaccumulation and Human Consumption of Aquatic Organisms from Appendix 1, Table F-4d of the San Francisco Bay Regional Water Quality Control Board's *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater*, Interim Final July 2003 (updated 4 February 2004).

J = The result is an estimated value

UJ = The compound was not detected at an estimated limit

N/A = Not available

(dup) = Duplicate sample

"<" = Less than; compound not detected at method detection limit

ft bws = feet below water surface

na = not applicable

CTBERK = Curtis & Tompkins, Berkeley

STL = Severn Trent Laboratories

PCE

TCE

c-1,2-DCE

t-1,2-DCE

1,1-DCE

VC

Tetrachloroethene

Trichloroethene

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

1,1-Dichloroethene

Vinyl chloride

1,1,1-TCA

1,1,2-TCA

BZ

TOL

EB

MTBE

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Benzene

Toluene

Ethylbenzene

Methyl Tert-Butyl Ether