Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	B-17	B-17	B-17	B-20	B-20	B-20	B-20	B-20	B-20	B-20	B-23	B-23	B-23	B-23	B-23	B-24	B-24
	Start Depth:	5	31_5	33	5	5	5	5	18	22	30	5	5	5	23	27	5	18_5
	End Depth:	5_5	32	33_5	5_5	5_5	5_5	5_5	18_5	22_5	30_5	5_5	5_5	5_5	23_5	27_5	5_5	19
	Collection Date:	4/16/2001	4/16/2001	4/16/2001	4/19/2001	4/19/2001	4/19/2001	4/19/2001	4/19/2001	4/19/2001	4/19/2001	4/18/2001	4/18/2001	4/18/2001	4/18/2001	4/18/2001	4/16/2001	4/16/2001
PARAMETER	UNITS																	
1,1,1-Trichloroethane	µg/kg	4	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,1,2,2-Tetrachloroethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,1,2-Trichloroethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,1-Dichloroethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,1-Dichloroethene	µg/kg	5.5	6	6.75	5.5	26.5	21.5	6	5.5	5.5	5	5.5	60	50	5.5	5	5	5.5
1,2,4-Trichlorobenzene	µg/kg	0.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,2-Dibromo-3-Chloropropane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,2-Dibromoethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,2-Dichlorobenzene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,2-Dichloroethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,2-Dichloropropane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,3-Dichlorobenzene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
1,4-Dichlorobenzene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
2-Butanone	µg/kg	5.5	6	6.75	5.5	1.5	2.25	2	5.5	3	5	5.5	6	5.5	5.5	3	5	5.5
2-Hexanone	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
4-Methyl-2-pentanone	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Acetone	µg/kg	13	8	8	5.5	10	2.25	6.75	10	4	14	6.75	6	9	5	13.5	19	9
Benzene	µg/kg	2	6	6.75	5.5	27	21	6	5.5	1	2	2	61	52	5.5	5	5	5.5
Bromodichloromethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Bromoform	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Bromomethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Carbon Disulfide	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Carbon Tetrachloride	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Chlorobenzene	µg/kg	5.5	6	6.75	5.5	27.5	22	6	5.5	5.5	5	5.5	62	51	5.5	5	5	5.5
Chloroethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Chloroform	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	2.5	5	5.5
Chloromethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
cis-1,2-Dichloroethene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
cis-1,3-Dichloropropene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Cyclohexane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	4	5	5.5
Dibromochloromethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Dichlorodifluoromethane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Ethylbenzene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Isopropylbenzene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Methyl Acetate	µg/kg	5.5	6	6.75	5.5	1.5	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Methyl tert-Butyl Ether	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Methylcyclohexane	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Methylene Chloride	µg/kg	1	1.5	2	5.5	2.25	2.25	1.5	1.5	1.5	1.5	2	6	5.5	2	1.5	2	2
Styrene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Tetrachloroethene	µg/kg	19	3	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Toluene	µg/kg	2	2	2	5.5	28.5	22.5	6	0.5	5.5	0.5	2	61	52	5.5	5	1	1
trans-1,2-Dichloroethene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
trans-1,3-Dichloropropene	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Trichloroethene	µg/kg	5.5	6	6.75	5.5	27.5	21.5	6	5.5	5.5	5	5.5	61	51	5.5	5	5	5.5
Trichlorofluoromethane	µg/kg	5.5	6	6.75	5.5	2.25	0.5	6	5.5	3	5	5.5	3	5.5	5.5	5	5	5.5
Vinyl Chloride	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Xylenes (total)	µg/kg	5.5	6	6.75	5.5	2.25	2.25	6	5.5	5.5	5	5.5	6	5.5	5.5	5	5	5.5
Total VOCs		**267**	**278.5**	**315.75**	**264**	**240**	**203.5**	**280.25**	**259.5**	**249**	**238**	**254.75**	**560**	**496**	**260**	**239.5**	**247**	**259.5**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	B-24	B-25	B-25	B-25	B-25	B-25	B-26	B-26	B-26	B-26	B-27	B-27	B-27	B-27	B-28	B-28	B-28
	Start Depth:	26_5	5	19	19	19	23	5	5	18	25	5	20_5	20_5	25	5	22	22
	End Depth:	27	5_5	19_5	19_5	19_5	23_5	5_5	5_5	18_5	25_5	5_5	21	21	25_5	5_5	22_5	22_5
	Collection Date:	4/16/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001
PARAMETER	UNITS																	
1,1,1-Trichloroethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,1,2,2-Tetrachloroethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,1,2-Trichloroethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,1-Dichloroethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	5	5.5	5.5	12
1,1-Dichloroethene	µg/kg	5.5	5.5	5.5	51	53	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,2,4-Trichlorobenzene	µg/kg	5.5	1	0.5	5	5.5	1.5	1	0.5	0.5	6	6.75	5.5	21.5	6	5.5	5.5	12
1,2-Dibromo-3-Chloropropane	µg/kg	5.5	5.5	5.5	5	5.5	0.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,2-Dibromoethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,2-Dichlorobenzene	µg/kg	5.5	5.5	5.5	5	5.5	0.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,2-Dichloroethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,2-Dichloropropane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,3-Dichlorobenzene	µg/kg	5.5	5.5	5.5	5	5.5	0.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
1,4-Dichlorobenzene	µg/kg	5.5	5.5	5.5	5	5.5	0.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
2-Butanone	µg/kg	5.5	5	5.5	5	5.5	5.5	3	4	6	6	6.75	5.5	23	5	6	69	21.5
2-Hexanone	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	23	5	6	5.5	4	3
4-Methyl-2-pentanone	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	12	2	6	5.5	5	2
Acetone	µg/kg	8	15	4	5	5.5	9	11	10	14	4	6	5.5	37.5	18.5	13.5	5.5	39.5
Benzene	µg/kg	5.5	5.5	5.5	49	52	5.5	7	5.5	6	6	6.75	510	21.5	4	1	280	12
Bromodichloromethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Bromoform	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Bromomethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Carbon Disulfide	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Carbon Tetrachloride	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Chlorobenzene	µg/kg	5.5	5.5	5.5	49	52	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Chloroethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Chloroform	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Chloromethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
cis-1,2-Dichloroethene	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	13	5.5	5.5	12
cis-1,3-Dichloropropene	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Cyclohexane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	87	12
Dibromochloromethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Dichlorodifluoromethane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Ethylbenzene	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	1	21.5	6	5.5	5.5	12
Isopropylbenzene	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Methyl Acetate	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Methyl tert-Butyl Ether	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Methylcyclohexane	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	2	21.5	6	5.5	5.5	12
Methylene Chloride	µg/kg	1.5	1.5	2	5	5.5	1.5	2	2	0.5	1.5	2	5.5	21.5	1.5	2	5.5	12
Styrene	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Tetrachloroethene	µg/kg	5.5	5.5	3	2	5.5	9	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Toluene	µg/kg	1	1	1	48	50	5.5	2	1	6	6	6.75	27	21.5	6	1	8	12
trans-1,2-Dichloroethene	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
trans-1,3-Dichloropropene	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Trichloroethene	µg/kg	5.5	5.5	5.5	50	53	5	7	5.5	14	34	6.75	5.5	21.5	6	5.5	5.5	12
Trichlorofluoromethane	µg/kg	5.5	5.5	5.5	6	6	5.5	7	5.5	6	6	6.75	5.5	21.5	6	5.5	5.5	12
Vinyl Chloride	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	5.5	21.5	7	5.5	5.5	12
Xylenes (total)	µg/kg	5.5	5.5	5.5	5	5.5	5.5	7	5.5	6	6	6.75	3	21.5	6	5.5	2	12
Total VOCs		**258**	**260**	**247**	**460**	**497**	**242.5**	**320**	**254**	**293**	**309.5**	**318.5**	**803.5**	**1013.5**	**300**	**260**	**680.5**	**594**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	B-28	B-28	B-29	B-29	B-29	B-29	B-29	B-30	B-30	B-30	B-30	B-30	B-30	B-31	B-31	B-31	B-31	B-32
	Start Depth:	25	25	5	5	23	26	26	5	5	23_5	26	26	26	5	5	18_5	23_5	5
	End Depth:	25_5	25_5	5_5	5_5	23_5	26_5	26_5	5_5	5_5	24	26_5	26_5	26_5	5_5	5_5	19	24	5_5
	Collection Date:	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/17/2001	4/16/2001	4/16/2001	4/16/2001	4/16/2001	4/16/2001	4/16/2001	4/16/2001	4/16/2001	4/16/2001	4/16/2001	4/17/2001
PARAMETER	UNITS																		
1,1,1-Trichloroethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,1,2,2-Tetrachloroethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	560	5.5	5.5	5.5	5.5	5.5
1,1,2-Trichloroethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,1-Dichloroethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,1-Dichloroethene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	7100	7000	5.5	5.5	5.5	5.5	5.5
1,2,4-Trichlorobenzene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	140	600	600	5.5	5.5	5.5	5.5	5.5
1,2-Dibromo-3-Chloropropane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,2-Dibromoethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,2-Dichlorobenzene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,2-Dichloroethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,2-Dichloropropane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,3-Dichlorobenzene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
1,4-Dichlorobenzene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	140	600	600	5.5	5.5	5.5	5.5	5.5
2-Butanone	µg/kg	30	7	5.5	5.5	47	6	15	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
2-Hexanone	µg/kg	3	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
4-Methyl-2-pentanone	µg/kg	36	2.5	6	5.5	3	1	2	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Acetone	µg/kg	170	85	5.5	5	5.5	6	28	7	9	11	650	600	600	5.5	5.5	5.5	5.5	7.5
Benzene	µg/kg	12	30.5	1	5.5	9	390	2	6.75	7	5.5	1900	8400	8600	0	13	5.5	5.5	2
Bromodichloromethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Bromoform	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Bromomethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	150	600	600	5.5	5.5	5.5	5.5	5.5
Carbon Disulfide	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Carbon Tetrachloride	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Chlorobenzene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	6000	6000	5.5	5.5	5.5	5.5	5.5
Chloroethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Chloroform	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Chloromethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
cis-1,2-Dichloroethene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
cis-1,3-Dichloropropene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Cyclohexane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	4990	0	0	0	190	5.5	5.5	5.5
Dibromochloromethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Dichlorodifluoromethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Ethylbenzene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Isopropylbenzene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Methyl Acetate	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Methyl tert-Butyl Ether	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Methylcyclohexane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	190	230	250	5.5	5.5	5.5	5.5	5.5
Methylene Chloride	µg/kg	2.5	30.5	2.5	1.5	5.5	6	16.5	2	2	1.5	650	600	600	5.5	5.5	5.5	1.5	2
Styrene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Tetrachloroethene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	2 R	2	9	18	5
Toluene	µg/kg	270	30.5	2	1	5.5	7	16.5	2	7	1	170	6200	6200	0.5	1	5.5	2	5.5
trans-1,2-Dichloroethene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
trans-1,3-Dichloropropene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Trichloroethene	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	5900	5900	5.5	5.5	5.5	5.5	5.5
Trichlorofluoromethane	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	4	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Vinyl Chloride	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	650	600	600	5.5	5.5	5.5	5.5	5.5
Xylenes (total)	µg/kg	6	30.5	5.5	5.5	5.5	6	16.5	6.75	7	5.5	150	600	600	0.5	1	5.5	5.5	5.5
Total	**VOCs**	**769.5**	**1467**	**253.5**	**255**	**306.5**	**668**	**773**	**314.75**	**330**	**261**	**33830**	**58430**	**58510**	**237.5**	**443.5**	**267.5**	**269**	**258.5**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	B-32	B-32	B-33	B-33	B-33	B-34	B-34	B-34	B-34	B-35	B-35	B-35	B-35	B-36	B-36	B-36	B-37	B-37
	Start Depth:	23	29_5	5	21	24_5	5	5	22_5	23_5	5	18	18	27_5	5	17_5	27_5	6	33_5
	End Depth:	23_5	30	5	21_5	26	5_5	5_5	23	24	5	18_5	18_5	28	5_5	17_5	27_5	6_5	35
	Collection Date:	4/17/2001	4/17/2001	11/7/2001	11/7/2001	11/7/2001	11/8/2001	11/8/2001	11/8/2001	11/8/2001	11/7/2001	11/7/2001	11/7/2001	11/7/2001	11/7/2001	11/7/2001	11/7/2001	11/8/2001	11/8/2001
PARAMETER	UNITS																		
1,1,1-Trichloroethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,1,2,2-Tetrachloroethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,1,2-Trichloroethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,1-Dichloroethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,1-Dichloroethene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,2,4-Trichlorobenzene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,2-Dibromo-3-Chloropropane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,2-Dibromoethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,2-Dichlorobenzene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,2-Dichloroethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,2-Dichloropropane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,3-Dichlorobenzene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
1,4-Dichlorobenzene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
2-Butanone	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
2-Hexanone	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
4-Methyl-2-pentanone	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Acetone	µg/kg	4	14.5	5	14	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Benzene	µg/kg	2	23	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Bromodichloromethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Bromoform	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Bromomethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Carbon Disulfide	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Carbon Tetrachloride	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Chlorobenzene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Chloroethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Chloroform	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Chloromethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
cis-1,2-Dichloroethene	µg/kg	5.5	94	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
cis-1,3-Dichloropropene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Cyclohexane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Dibromochloromethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Dichlorodifluoromethane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Ethylbenzene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Isopropylbenzene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Methyl Acetate	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Methyl tert-Butyl Ether	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Methylcyclohexane	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Methylene Chloride	µg/kg	2	2.5	13.5	13.5	18.5	10.5	10.5	14.5	13.5	18.5	24.5	16.5	12.5	24.5	7.5	12	10.5	12
Styrene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Tetrachloroethene	µg/kg	14	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Toluene	µg/kg	1	2	5	5.5	5	5	5	5	5.5	5.5	5.5	2 R	5	3	1	6	4.5	0.5
trans-1,2-Dichloroethene	µg/kg	5.5	2	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
trans-1,3-Dichloropropene	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Trichloroethene	µg/kg	5.5	4	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	2	27	4.5	5.5
Trichlorofluoromethane	µg/kg	5.5	6	3	16	3	15	13	12	2	4	16	29 R	2	6	4	2	11	9
Vinyl Chloride	µg/kg	5.5	3	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Xylenes (total)	µg/kg	5.5	6	5	5.5	5	5	5	5	5.5	5.5	5.5	5.5	5	6	5	6	4.5	5.5
Total VOCs		**259.5**	**385**	**246.5**	**291**	**251.5**	**255.5**	**253.5**	**256.5**	**268.5**	**275.5**	**293.5**	**264**	**244.5**	**303.5**	**234.5**	**311**	**228.5**	**269**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	B-37	B-38	B-38	B-38	B-39	B-39	B-39	B-39	B-39	B-39	B-39	B-39	MW-05	MW-05	MW-05	MW-06	MW-06	MW-06
	Start Depth:	33_5	31_5	33_5	5	5	5	17_5	17_5	17_5	30	30	30	5	14_5	23	5	5	15
	End Depth:	35	32	34	5_5	5_5	5_5	18	18	18	30_5	30_5	30_5	5_5	15	23_5	5_5	5_5	15_5
	Collection Date:	11/8/2001	1/10/2002	1/10/2002	1/10/2002	11/8/2001	11/8/2001	11/8/2001	11/8/2001	11/8/2001	11/8/2001	11/8/2001	11/8/2001	3/21/2001	3/21/2001	3/21/2001	3/22/2001	3/22/2001	3/22/2001
PARAMETER	UNITS																		
1,1,1-Trichloroethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,1,2,2-Tetrachloroethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5	31.65	33.4	28.4	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,1,2-Trichloroethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,1-Dichloroethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,1-Dichloroethene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	57	48	6.75	63	70	6.75	6.75	6	6.75	5.5	5.5
1,2,4-Trichlorobenzene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,2-Dibromo-3-Chloropropane	µg/kg	5	6.35	6.7	5.7	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,2-Dibromoethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,2-Dichlorobenzene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,2-Dichloroethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,2-Dichloropropane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,3-Dichlorobenzene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
1,4-Dichlorobenzene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
2-Butanone	µg/kg	5	31.65	33.4	28.4	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
2-Hexanone	µg/kg	5	31.65	33.4	28.4	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
4-Methyl-2-pentanone	µg/kg	5	31.65	33.4	28.4	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Acetone	µg/kg	5	26	46	24	5.5	5	5	5	4.5	7.5	14	6.75	15	13	7	8	5.5	4
Benzene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	40	34	16	66	74	6.75	6.75	6	6.75	5.5	5.5
Bromodichloromethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Bromoform	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Bromomethane	µg/kg	5	31.65	33.4	28.4	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Carbon Disulfide	µg/kg	5	31.65	1.1	28.4	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Carbon Tetrachloride	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Chlorobenzene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	35	30	6.75	41	67	6.75	6.75	6	6.75	5.5	5.5
Chloroethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Chloroform	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Chloromethane	µg/kg	5	15.85	16.7	14.2	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
cis-1,2-Dichloroethene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
cis-1,3-Dichloropropene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Cyclohexane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	11	3	5	6.75	6.75	6	6.75	5.5	5.5
Dibromochloromethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Dichlorodifluoromethane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Ethylbenzene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Isopropylbenzene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Methyl Acetate	µg/kg	5	63.5	67	17	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Methyl tert-Butyl Ether	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Methylcyclohexane	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Methylene Chloride	µg/kg	14	31.65	33.4	4	10.5	8	10.5	7	8	12.5	18.5	13	1	6.75	0.5	1.5	1	1
Styrene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Tetrachloroethene	µg/kg	5	3.15	3.35	0.63	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Toluene	µg/kg	5	3.15	3.35	0.57	5.5	5	5	39	33	6.75	49	69	6.75	2	6	6.75	5.5	5.5
trans-1,2-Dichloroethene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
trans-1,3-Dichloropropene	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Trichloroethene	µg/kg	5	3.15	3.35	0.285	5.5	5	5	39	33	6.75	53	63	6.75	6.75	6	6.75	5.5	5.5
Trichlorofluoromethane	µg/kg	13	31.65	33.4	28.4	16	2	14	6	8	3	8	4	6.75	6.75	6	6.75	5.5	5.5
Vinyl Chloride	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Xylenes (total)	µg/kg	5	3.15	3.35	2.85	5.5	5	5	5	4.5	6.75	6.75	6.75	6.75	6.75	6	6.75	5.5	5.5
Total	**VOCs**	**257**	**478.3**	**491.9**	**359.235**	**279.5**	**240**	**254.5**	**428**	**378.5**	**340.25**	**578.75**	**635**	**326.5**	**325.5**	**283.5**	**320**	**259.5**	**258**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	MW-06	MW-06	MW-06	MW-06	MW-06	MW-07	MW-07	MW-07	MW-07	MW-07	MW-08	MW-08	MW-08	MW-08	MW-09	MW-09	MW-09	MW-09
	Start Depth:	24_5	25_5	25_5	25_5	34_5	5	14_5	22_5	34_5	34_5	5	15	24_5	34_5	5	14_5	24_5	34_5
	End Depth:	25	25_5	25_5	25_5	35	5_5	15	23	35	35	5_5	15_5	25	35	5_5	15	25	35
	Collection Date:	3/22/2001	3/22/2001	3/22/2001	3/22/2001	3/27/2001	3/22/2001	3/22/2001	3/22/2001	3/26/2001	3/26/2001	3/28/2001	3/28/2001	3/28/2001	3/28/2001	3/30/2001	3/30/2001	3/30/2001	3/30/2001
PARAMETER	UNITS																		
1,1,1-Trichloroethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,1,2,2-Tetrachloroethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,1,2-Trichloroethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,1-Dichloroethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,1-Dichloroethene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,2,4-Trichlorobenzene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,2-Dibromo-3-Chloropropane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,2-Dibromoethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,2-Dichlorobenzene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,2-Dichloroethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,2-Dichloropropane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,3-Dichlorobenzene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
1,4-Dichlorobenzene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
2-Butanone	µg/kg	54	98	550	8.5	6.75	5	6.75	6	7	6.75	6	5	6	6.75	6	6.75	6.75	6
2-Hexanone	µg/kg	12	32	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
4-Methyl-2-pentanone	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Acetone	µg/kg	75	130	550	19.5	21	6	7	6	7.5	6.75	4	6.75	13.5	27	23	10	17	20
Benzene	µg/kg	6	4100	55	210	8	5	6.75	6	7	6.75	1	5	6	1	6	1	6.75	6
Bromodichloromethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Bromoform	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Bromomethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Carbon Disulfide	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Carbon Tetrachloride	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Chlorobenzene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Chloroethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Chloroform	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Chloromethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
cis-1,2-Dichloroethene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
cis-1,3-Dichloropropene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Cyclohexane	µg/kg	6	18000	550	5.5	4	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Dibromochloromethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Dichlorodifluoromethane	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Ethylbenzene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Isopropylbenzene	µg/kg	6	6	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Methyl Acetate	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Methyl tert-Butyl Ether	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Methylcyclohexane	µg/kg	6	280	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Methylene Chloride	µg/kg	6	530	550	5	1.5	1	1	1	1	1	1	1.5	1.5	1.5	8	10	11	3.5
Styrene	µg/kg	6	180	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Tetrachloroethene	µg/kg	6	1	550	0.5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Toluene	µg/kg	27	1800	550	30.5	1	5	6.75	6	1	6.75	6	2	6	6.75	6	1	6.75	6
trans-1,2-Dichloroethene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
trans-1,3-Dichloropropene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Trichloroethene	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Trichlorofluoromethane	µg/kg	6	5	550	2.5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Vinyl Chloride	µg/kg	6	5	550	5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Xylenes (total)	µg/kg	6	36	550	1.5	6.75	5	6.75	6	7	6.75	6	6	6	6.75	6	6.75	6.75	6
Total VOCs		**432**	**25373**	**25905**	**478.5**	**325.75**	**237**	**318.5**	**283**	**324.5**	**318.25**	**276**	**278.25**	**291**	**333.25**	**307**	**319**	**338.5**	**299.5**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13	MW-13	MW-13
	Start Depth:	5	15	24_5	34_5	5	14_5	24_5	34_5	5	14_5	24_5	34_5	34_5	5	14_5	24_5	24_5	34_5
	End Depth:	5_5	15_5	25	35	5_5	15	25	35	5_5	15	25	35	35	5_5	15	25	25	35
	Collection Date:	4/2/2001	4/2/2001	4/2/2001	4/2/2001	3/29/2001	3/29/2001	3/29/2001	3/29/2001	4/3/2001	4/3/2001	4/3/2001	4/3/2001	4/3/2001	4/4/2001	4/4/2001	4/4/2001	4/4/2001	4/4/2001
PARAMETER	UNITS																		
1,1,1-Trichloroethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,1,2,2-Tetrachloroethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5.5	6	5	5	5.5	2	5	1	6	5.5	6	5.5	6	5	6	5	5	6
1,1,2-Trichloroethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,1-Dichloroethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,1-Dichloroethene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,2,4-Trichlorobenzene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,2-Dibromo-3-Chloropropane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,2-Dibromoethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,2-Dichlorobenzene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,2-Dichloroethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,2-Dichloropropane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,3-Dichlorobenzene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
1,4-Dichlorobenzene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
2-Butanone	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
2-Hexanone	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
4-Methyl-2-pentanone	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Acetone	µg/kg	13.5	6.75	13.5	3	33	32	12	7	6.75	6.75	3.5	15	40.5	8.5	13	3.5	5	5.5
Benzene	µg/kg	5.5	6	5	5	4	5	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Bromodichloromethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	2	5	5	6
Bromoform	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Bromomethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Carbon Disulfide	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Carbon Tetrachloride	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Chlorobenzene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Chloroethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Chloroform	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Chloromethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
cis-1,2-Dichloroethene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
cis-1,3-Dichloropropene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Cyclohexane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Dibromochloromethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Dichlorodifluoromethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Ethylbenzene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Isopropylbenzene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Methyl Acetate	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Methyl tert-Butyl Ether	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Methylcyclohexane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Methylene Chloride	µg/kg	0.5	1	1.5	1.5	4	7	3	3	1	0.5	0.5	5.5	6	5	6	5	0.5	6
Styrene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Tetrachloroethene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Toluene	µg/kg	1	2	1	5	3	3	5	6	6	5.5	6	5.5	6	5	6	5	5	6
trans-1,2-Dichloroethene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
trans-1,3-Dichloropropene	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Trichloroethene	µg/kg	5.5	6	5	5	5.5	2	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Trichlorofluoromethane	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Vinyl Chloride	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Xylenes (total)	µg/kg	5.5	6	5	5	5.5	6	5	6	6	5.5	6	5.5	6	5	6	5	5	6
Total VOCs		**262.5**	**279.75**	**241**	**234.5**	**286**	**303**	**245**	**281**	**283.75**	**260.25**	**280**	**273.5**	**322.5**	**243.5**	**291**	**238.5**	**235.5**	**287.5**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-17	MW-17	MW-17	MW-18
	Start Depth:	5	5	15	25	35	5	15	25	35	5	15	25	35	5	15	25	5
	End Depth:	5_5	5_5	15_5	25_5	35_5	5_5	15_5	25_5	35_5	5_5	15_5	25_5	35_5	5_5	15_5	25_5	5_5
	Collection Date:	11/14/2001	11/14/2001	11/14/2001	11/14/2001	11/14/2001	11/19/2001	11/19/2001	11/19/2001	11/19/2001	11/15/2001	11/15/2001	11/15/2001	11/15/2001	11/26/2001	11/26/2001	11/26/2001	11/16/2001
PARAMETER	UNITS																	
1,1,1-Trichloroethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,1,2,2-Tetrachloroethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,1,2-Trichloroethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,1-Dichloroethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,1-Dichloroethene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,2,4-Trichlorobenzene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,2-Dibromo-3-Chloropropane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,2-Dibromoethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,2-Dichlorobenzene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,2-Dichloroethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,2-Dichloropropane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,3-Dichlorobenzene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
1,4-Dichlorobenzene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
2-Butanone	µg/kg	5	5	6	5	5	4.5	5.5	550	230	5.5	650	750	465	5	5.5	55	4.5
2-Hexanone	µg/kg	5	5	6	5	5	4.5	5.5	25	420	5.5	650	500	465	5	5.5	650	4.5
4-Methyl-2-pentanone	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Acetone	µg/kg	5	5	3	5	5	4.5	7	3000	500	5.5	650	19000	465	5	5.5	550	4.5
Benzene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Bromodichloromethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Bromoform	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Bromomethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Carbon Disulfide	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Carbon Tetrachloride	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Chlorobenzene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Chloroethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Chloroform	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Chloromethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
cis-1,2-Dichloroethene	µg/kg	5	5	6	5	2	4.5	1	445	420	5.5	650	500	120	5	16	810	4.5
cis-1,3-Dichloropropene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Cyclohexane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Dibromochloromethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Dichlorodifluoromethane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Ethylbenzene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Isopropylbenzene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Methyl Acetate	µg/kg	5	5	6	5	5	4.5	5.5	445	330	5.5	650	500	465	5	5.5	650	4.5
Methyl tert-Butyl Ether	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Methylcyclohexane	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Methylene Chloride	µg/kg	23.5	15	13.5	18.5	12	19	51	200	175	10.5	1800	1750	850	14	24.5	115	12.5
Styrene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Tetrachloroethene	µg/kg	5	5	6	5	5	1	5.5	445	420	5.5	650	500	465	5	2	650	1
Toluene	µg/kg	1	0.5	6	5	1	1	3	2000	420	5.5	650	1800	465	2	5.5	650	4.5
trans-1,2-Dichloroethene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
trans-1,3-Dichloropropene	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Trichloroethene	µg/kg	5	5	6	2	5	4.5	5.5	445	310	5	650	500	710	4.5	150	1200	16
Trichlorofluoromethane	µg/kg	22	7.5	5	16	2	6	8	445	420	1	650	500	465	2	5.5	650	2
Vinyl Chloride	µg/kg	5	5	6	5	5	4.5	5.5	280	420	5.5	650	500	465	5	5.5	650	4.5
Xylenes (total)	µg/kg	5	5	6	5	5	4.5	5.5	445	420	5.5	650	500	465	5	5.5	650	4.5
Total	**VOCs**	**271.5**	**248**	**291.5**	**261.5**	**237**	**225**	**306.5**	**24745**	**19605**	**264**	**32350**	**45300**	**22605**	**242.5**	**434.5**	**30680**	**229.5**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19	GP-VS-01	GP-VS-01	GP-VS-01	GP-VS-02	GP-VS-02	GP-VS-02	GP-VS-03	GP-VS-03	GP-VS-03	GP-VS-04	GP-VS-04
	Start Depth:	15	15	25	5	15	25	5	25	33	5	25	31	5	25	28	5	22
	End Depth:	15_5	15_5	25_5	5_5	15_5	25_5	5.5	26	33.5	5.5	25.5	31.5	5.5	25.5	29	5.5	22.5
	Collection Date:	11/16/2001	11/16/2001	11/16/2001	11/27/2001	11/27/2001	11/27/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/22/2001	2/22/2001
PARAMETER	UNITS																	
1,1,1-Trichloroethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	86	3	1	1	2	1	5	5
1,1,2,2-Tetrachloroethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,1,2-Trichloroethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,1-Dichloroethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	3	1	5.5	5.5	1	5.5	5	5
1,1-Dichloroethene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,2,4-Trichlorobenzene	µg/kg	550	5.5	590	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,2-Dibromo-3-Chloropropane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,2-Dibromoethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,2-Dichlorobenzene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,2-Dichloroethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,2-Dichloropropane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,3-Dichlorobenzene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
1,4-Dichlorobenzene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
2-Butanone	µg/kg	550	5.5	2300	5	5	220	5	6	6	5	6	5.5	5.5	5	5.5	4	3
2-Hexanone	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
4-Methyl-2-pentanone	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Acetone	µg/kg	700	5.5	1200	2	5	550	5	6	6	5	6	5.5	12.5	5	5.5	10.5	6.75
Benzene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	3	2
Bromodichloromethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Bromoform	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Bromomethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Carbon Disulfide	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Carbon Tetrachloride	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Chlorobenzene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Chloroethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Chloroform	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Chloromethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
cis-1,2-Dichloroethene	µg/kg	550	5.5	3300	5	5	650	5	6	6	5	6	5.5	3	1	5.5	5	5
cis-1,3-Dichloropropene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Cyclohexane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	3	5	5.5	5	5
Dibromochloromethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Dichlorodifluoromethane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Ethylbenzene	µg/kg	550	5.5	2300	5	5	650	5	3	4	5	6	2	6	3	6	5	5
Isopropylbenzene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Methyl Acetate	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Methyl tert-Butyl Ether	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Methylcyclohexane	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	4	5	5.5	5	5
Methylene Chloride	µg/kg	490	18	650	19	30.5	25	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Styrene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Tetrachloroethene	µg/kg	550	5.5	2300	5	5	650	2	6	6	9	9	5.5	12	5	2	1	5
Toluene	µg/kg	550	1	2300	1	5	650	5	6	6	5	6	5.5	5.5	5	5.5	1	5
trans-1,2-Dichloroethene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
trans-1,3-Dichloropropene	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Trichloroethene	µg/kg	550	17	2000	3.5	14	250	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Trichlorofluoromethane	µg/kg	550	4	2300	1	5	650	6	3	2	3	2	2	3	2	2	5	5
Vinyl Chloride	µg/kg	550	5.5	2300	5	5	650	5	6	6	5	6	5.5	5.5	5	5.5	5	5
Xylenes (total)	µg/kg	550	5.5	2300	5	5	650	19	9	12	23	23	5	23	14	26	5	2
Total	**VOCs**	**26490**	**282**	**106640**	**241.5**	**274.5**	**29645**	**252**	**285**	**288**	**339**	**296**	**252**	**282**	**233**	**273.5**	**234.5**	**233.75**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	GP-VS-04	GP-VS-04	GP-VS-05	GP-VS-05	GP-VS-05	GP-VS-06	GP-VS-06	GP-VS-06	GP-VS-06	GP-VS-07	GP-VS-07	GP-VS-07	GP-VS-07	GP-VS-08	GP-VS-08	GP-VS-09	GP-VS-09	GP-VS-09
	Start Depth:	30.5	30.5	5	27	27	5	25	25	29	5	25	29	5	5	21	5	22	34.5
	End Depth:	31	31	5.5	28	28	5.5	26	26	29.5	5.5	25.5	30	5.5	5.5	22	5.5	22.5	35
	Collection Date:	2/22/2001	2/22/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/19/2001	2/20/2001	2/20/2001	2/20/2001	2/20/2001	2/22/2001	2/22/2001	2/22/2001	2/22/2001	2/22/2001
PARAMETER	UNITS																		
1,1,1-Trichloroethane	µg/kg	5.5	6	6	5	4	2	6.75	2	79	1	5	6.75	5	5.5	1	6.75	5.5	7.5
1,1,2,2-Tetrachloroethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,1,2-Trichloroethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,1-Dichloroethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	53	5.5	5	39	5	5.5	6	6.75	5.5	43
1,1-Dichloroethene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	400	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,2,4-Trichlorobenzene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,2-Dibromo-3-Chloropropane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,2-Dibromoethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,2-Dichlorobenzene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,2-Dichloroethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,2-Dichloropropane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,3-Dichlorobenzene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
1,4-Dichlorobenzene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
2-Butanone	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	8	6	6.75	5.5	18
2-Hexanone	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
4-Methyl-2-pentanone	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	2	5	5.5	6	6.75	5.5	18
Acetone	µg/kg	8	7	6	5	4	5.5	6.75	6	6.75	5.5	5	320	5	15	16.5	16.5	22.5	110
Benzene	µg/kg	1	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5	4	46	5.5	51
Bromodichloromethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Bromoform	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Bromomethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Carbon Disulfide	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	2
Carbon Tetrachloride	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Chlorobenzene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Chloroethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Chloroform	µg/kg	5.5	6	6	5	4	5.5	6.75	6	17	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Chloromethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
cis-1,2-Dichloroethene	µg/kg	8	9	6	5	4	5.5	6.75	6	7	5.5	5	4	5	5.5	6	6.75	5.5	36
cis-1,3-Dichloropropene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Cyclohexane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Dibromochloromethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Dichlorodifluoromethane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Ethylbenzene	µg/kg	5.5	6	7	20	3	8	6	5	7	17	4	22	10	1	6	6.75	5.5	5
Isopropylbenzene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Methyl Acetate	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Methyl tert-Butyl Ether	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Methylcyclohexane	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Methylene Chloride	µg/kg	5.5	6	6	5	4	5.5	6.75	6	54	5.5	5	6.75	5	5.5	6	6.75	5.5	2
Styrene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Tetrachloroethene	µg/kg	5.5	6	2	5	2	6	6.75	3	2000	2	5	6.75	1	9	34	2	5.5	7.5
Toluene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	1	5	1	2	4	5.5	40
trans-1,2-Dichloroethene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	2	5	5.5	6	6.75	5.5	7.5
trans-1,3-Dichloropropene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Trichloroethene	µg/kg	5.5	6	6	5	4	5.5	6.75	6	15	5.5	5	6.75	5	5.5	6	6.75	5.5	7.5
Trichlorofluoromethane	µg/kg	5.5	6	6	7	2	2	3	2	6.75	5	1	4	3	5.5	6	6.75	5.5	7.5
Vinyl Chloride	µg/kg	5.5	6	6	5	4	5.5	6.75	6	6.75	5.5	5	4	5	5.5	6	6.75	5.5	5
Xylenes (total)	µg/kg	5.5	6	30	87	12	36	29	23	170	74	22	93	46	3	3	6.75	5.5	8
Total	**VOCs**	**264.5**	**292**	**309**	**339**	**195**	**290.5**	**341.75**	**293**	**3058.5**	**335.5**	**252**	**747.5**	**280**	**267.5**	**312.5**	**365.5**	**281**	**608**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	GP-VS-10	GP-VS-10	GP-VS-10	GP-VS-10	GP-VS-10	GP-VS-11	GP-VS-11	GP-VS-11	GP-VS-12	GP-VS-12	GP-VS-12	GP-VS-13	GP-VS-13	GP-VS-13	GP-VS-14	GP-VS-15	GP-VS-15	GP-VS-15
	Start Depth:	22	34	34	5.5	16	5	22	26	5	22.5	35	5	23	27.5	4	13.5	5	25
	End Depth:	22.5	35	35	6	16.5	5.5	22.5	26.5	5.5	23	36	5.5	24	28	4.5	14	5.5	25.5
	Collection Date:	2/20/2001	2/20/2001	2/20/2001	2/20/2001	2/20/2001	2/19/2001	2/19/2001	2/19/2001	2/22/2001	2/22/2001	2/22/2001	2/16/2001	2/16/2001	2/16/2001	2/20/2001	2/16/2001	2/23/2001	2/23/2001
PARAMETER	UNITS																		
1,1,1-Trichloroethane	µg/kg	550	1	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,1,2,2-Tetrachloroethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,1,2-Trichloroethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,1-Dichloroethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	40	5	500	9	4	2350	5	7
1,1-Dichloroethene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	5	5	500	5.5	4	2350	5	5
1,2,4-Trichlorobenzene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,2-Dibromo-3-Chloropropane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,2-Dibromoethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,2-Dichlorobenzene	µg/kg	550	5	6	5	95	6	0.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,2-Dichloroethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,2-Dichloropropane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,3-Dichlorobenzene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
1,4-Dichlorobenzene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
2-Butanone	µg/kg	550	5	6	5	20000	6	5.5	6	12	5	13	12	500	5.5	2	2350	4	5
2-Hexanone	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
4-Methyl-2-pentanone	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	8	500	5.5	4	2350	5	5
Acetone	µg/kg	550	5	6	5	11000	6	5.5	65	27	5	63	83	310	41	4	2350	12	12
Benzene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	1	6	5	500	10	4	2350	5	2
Bromodichloromethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Bromoform	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Bromomethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Carbon Disulfide	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	3	5	500	3	4	2350	5	5
Carbon Tetrachloride	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Chlorobenzene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Chloroethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Chloroform	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Chloromethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
cis-1,2-Dichloroethene	µg/kg	550	3	5	5	95	6	5.5	6	6.75	5	110	5	500	5.5	4	2350	5	5
cis-1,3-Dichloropropene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Cyclohexane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Dibromochloromethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Dichlorodifluoromethane	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Ethylbenzene	µg/kg	4900	13	18	6	61000	14	11	430	2	5	2	5	170	21	2	2400	5	3
Isopropylbenzene	µg/kg	330	5	6	5	1200	6	5.5	6	6.75	5	8	5	500	1	4	750	5	5
Methyl Acetate	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Methyl tert-Butyl Ether	µg/kg	550	5	6	5	95	6	3	5	6.75	5	8	5	500	5.5	4	2350	5	5
Methylcyclohexane	µg/kg	1100	1	1	5	16000	6	5.5	6	6.75	5	8	6	150	7	4	4000	5	5
Methylene Chloride	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Styrene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Tetrachloroethene	µg/kg	550	2	6	5	95	6	5.5	6	6.75	5	8	3	500	5.5	4	2350	5	5
Toluene	µg/kg	550	2	3	5	98000	6	5.5	3	6.75	5	2	33	230	2	4	3400	5	5
trans-1,2-Dichloroethene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	5	5	500	5.5	4	2350	5	5
trans-1,3-Dichloropropene	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	8	5	500	5.5	4	2350	5	5
Trichloroethene	µg/kg	550	11	2	5	95	6	5.5	2	6.75	5	180	5	500	5.5	4	2350	5	5
Trichlorofluoromethane	µg/kg	550	4	4	2	95	6	6	2	6.75	5	8	5	500	5.5	1	2350	5	5
Vinyl Chloride	µg/kg	550	5	6	5	95	6	5.5	6	6.75	5	7	5	500	5.5	4	2350	5	5
Xylenes (total)	µg/kg	11000	52	78	22	430000	58	51	740	5	5	5	25	1200	23	7	18000	5	10
Total	**VOCs**	**41530**	**284**	**357**	**255**	**641095**	**348**	**308**	**1493**	**343**	**236**	**721**	**375**	**23560**	**331.5**	**188**	**129600**	**246**	**249**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	GP-VS-15	GP-VS-16	GP-VS-16	GP-VS-16	GP-VS-16	GP-VS-17	GP-VS-17	GP-VS-17	GP-VS-18	GP-VS-18	GP-VS-18	GP-VS-19	GP-VS-19	GP-VS-19	GP-VS-19	GP-VS-21	GP-VS-21	GP-VS-21
	Start Depth:	34.5	5.5	20	29	15	5.5	21.5	31	5.5	28	32	5	5	18	27	5	5	18.5
	End Depth:	35	6	20.5	29.5	16	6	22	31.5	6.5	29	32.5	6	6	18.5	27.5	5.5	5.5	19
	Collection Date:	2/23/2001	2/16/2001	2/16/2001	2/16/2001	2/16/2001	2/20/2001	2/20/2001	2/20/2001	2/14/2001	2/14/2001	2/14/2001	2/21/2001	2/21/2001	2/21/2001	2/21/2001	2/26/2001	2/26/2001	2/26/2001
PARAMETER	UNITS																		
1,1,1-Trichloroethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,1,2,2-Tetrachloroethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,1,2-Trichloroethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,1-Dichloroethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,1-Dichloroethene	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	2	5	5.5	6	500	5	5	5.5
1,2,4-Trichlorobenzene	µg/kg	5	5	0.6	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,2-Dibromo-3-Chloropropane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,2-Dibromoethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,2-Dichlorobenzene	µg/kg	5	5	0.2	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,2-Dichloroethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,2-Dichloropropane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,3-Dichlorobenzene	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
1,4-Dichlorobenzene	µg/kg	5	5	0.3	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
2-Butanone	µg/kg	8	3	5.5	6.75	850	5.5	5	4	6	4	4.5	5	5.5	3	540	5	5	5.5
2-Hexanone	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
4-Methyl-2-pentanone	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Acetone	µg/kg	23.5	12.5	12	14	850	5.5	5	6	41.5	8.5	75	34	14.5	14.5	7500	5	5	5.5
Benzene	µg/kg	5	5	5.5	3	850	5.5	5	6	6	2	4.5	2	5.5	6	500	5	5	5.5
Bromodichloromethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Bromoform	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Bromomethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Carbon Disulfide	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	1	4.5	5	5.5	6	500	5	5	5.5
Carbon Tetrachloride	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Chlorobenzene	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Chloroethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Chloroform	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Chloromethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
cis-1,2-Dichloroethene	µg/kg	29	5	5.5	260	850	5.5	5	6	6	140	130	5	5.5	6	500	5	5	1
cis-1,3-Dichloropropene	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Cyclohexane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	33	5	5.5	6	500	5	5	5.5
Dibromochloromethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Dichlorodifluoromethane	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Ethylbenzene	µg/kg	5	3	19	5	1600	4	2	20	3	2	4	2	2	6	500	2	2	3
Isopropylbenzene	µg/kg	5	5	5.5	6.75	13000	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Methyl Acetate	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Methyl tert-Butyl Ether	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Methylcyclohexane	µg/kg	5	5	5.5	6.75	1300	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Methylene Chloride	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Styrene	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Tetrachloroethene	µg/kg	5	3	5.5	9	850	5.5	5	6	7	2	3	5	5.5	6	500	5	5	5.5
Toluene	µg/kg	5	1	5	2	31000	5.5	5	4	2	2	1	1	5.5	6	570	5	5	5.5
trans-1,2-Dichloroethene	µg/kg	5	5	5.5	33	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
trans-1,3-Dichloropropene	µg/kg	5	5	5.5	6.75	850	5.5	5	6	6	6	4.5	5	5.5	6	500	5	5	5.5
Trichloroethene	µg/kg	5	5	5.5	420	850	5.5	5	5	54	230	3300	5	5.5	9	500	5	5	4
Trichlorofluoromethane	µg/kg	5	5	2	6.75	850	4	2	5	6	6	3	5	5.5	6	500	5	5	5.5
Vinyl Chloride	µg/kg	7	5	5.5	2	850	5.5	5	6	6	6	12	5	5.5	6	500	5	5	5.5
Xylenes (total)	µg/kg	5	14	76	21	27000	13	7	79	13	7	18	8	7	6	500	6	9	11
Total	**VOCs**	**287.5**	**246.5**	**335.1**	**1025.5**	**110450**	**268.5**	**236**	**369**	**372.5**	**626.5**	**3747.5**	**262**	**271**	**296.5**	**31110**	**238**	**241**	**261**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	GP-VS-21	GP-VS-22	GP-VS-22	GP-VS-22	GP-VS-23	GP-VS-23	GP-VS-23	GP-VS-23	GP-VS-24	GP-VS-24	GP-VS-24	GP-VS-24	GP-VS-25
	Start Depth:	25	5	5	20.5	5.5	25	33.5	33.5	5	22	33	33	5
	End Depth:	25.5	5.5	5.5	21	6	25.5	34.5	34.5	5.5	23	34.5	34.5	5.5
	Collection Date:	2/26/2001	2/23/2001	2/23/2001	2/23/2001	2/20/2001	2/20/2001	2/20/2001	2/20/2001	2/16/2001	2/16/2001	2/16/2001	2/16/2001	2/26/2001
PARAMETER	UNITS													
1,1,1-Trichloroethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,1,2,2-Tetrachloroethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,1,2-Trichloroethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,1-Dichloroethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	5	5	6.75
1,1-Dichloroethene	µg/kg	2	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,2,4-Trichlorobenzene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,2-Dibromo-3-Chloropropane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,2-Dibromoethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,2-Dichlorobenzene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,2-Dichloroethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,2-Dichloropropane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,3-Dichlorobenzene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
1,4-Dichlorobenzene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
2-Butanone	µg/kg	4	6	2	4	5.5	5.5	5	5.5	1	3	5	5.5	6.75
2-Hexanone	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
4-Methyl-2-pentanone	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	2	5.5	6.75
Acetone	µg/kg	6.75	8.5	7	8	5.5	5.5	13.5	21.5	5.5	78	22.5	18	6.75
Benzene	µg/kg	4	2	1	3	5.5	5.5	5	5.5	5.5	5.5	5	6	6.75
Bromodichloromethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Bromoform	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Bromomethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Carbon Disulfide	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Carbon Tetrachloride	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Chlorobenzene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Chloroethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Chloroform	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Chloromethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
cis-1,2-Dichloroethene	µg/kg	2100	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
cis-1,3-Dichloropropene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Cyclohexane	µg/kg	4	6	5	5.5	5.5	5.5	6	14	5.5	5.5	6.75	5.5	6.75
Dibromochloromethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Dichlorodifluoromethane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Ethylbenzene	µg/kg	1	6	1	5.5	5.5	5.5	4	5.5	4	19	10	13	2
Isopropylbenzene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Methyl Acetate	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Methyl tert-Butyl Ether	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Methylcyclohexane	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	1	5.5	6.75	5.5	6.75
Methylene Chloride	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	1
Styrene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Tetrachloroethene	µg/kg	6	6	5	2	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Toluene	µg/kg	3	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	14	8	6.75
trans-1,2-Dichloroethene	µg/kg	14	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
trans-1,3-Dichloropropene	µg/kg	4	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Trichloroethene	µg/kg	2600	6	5	2	5.5	3	12	48	5.5	5.5	6.75	5.5	6.75
Trichlorofluoromethane	µg/kg	3	6	5	5.5	2	2	4	5.5	5.5	7	6.75	5.5	7
Vinyl Chloride	µg/kg	7	6	5	5.5	5.5	5.5	5	5.5	5.5	5.5	6.75	5.5	6.75
Xylenes (total)	µg/kg	4	2	3	2	2	3	14	2	17	73	270	89	7
Total	**VOCs**	**4894.75**	**282.5**	**229**	**252**	**257**	**255.5**	**263.5**	**327.5**	**265**	**416.5**	**603.5**	**370**	**314**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	GP-VS-25	GP-VS-25	GP-VS-26	GP-VS-26	GP-VS-26	GP-VS-27	GP-VS-27	GP-VS-27	GP-VS-27	GP-VS-28	GP-VS-28	GP-VS-29	GP-VS-29
	Start Depth:	25	34.5	5	18	25.5	5	17	34.5	34.5	5	25.5	4.5	22
	End Depth:	25.5	35	5.5	18.5	26	5.5	17.5	35	35	5.5	26	5	22.5
	Collection Date:	2/26/2001	2/26/2001	2/23/2001	2/23/2001	2/23/2001	2/26/2001	2/26/2001	2/26/2001	2/26/2001	2/26/2001	2/26/2001	2/21/2001	2/21/2001
PARAMETER	UNITS													
1,1,1-Trichloroethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5	6	5	5.5
1,1,2,2-Tetrachloroethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,1,2-Trichloroethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,1-Dichloroethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5	6	5	5.5
1,1-Dichloroethene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,2,4-Trichlorobenzene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,2-Dibromo-3-Chloropropane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,2-Dibromoethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,2-Dichlorobenzene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,2-Dichloroethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,2-Dichloropropane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,3-Dichlorobenzene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
1,4-Dichlorobenzene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
2-Butanone	µg/kg	5.5	5	6	5	3	5.5	5	5.5	5.5	5.5	6	3	3
2-Hexanone	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
4-Methyl-2-pentanone	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Acetone	µg/kg	6.75	250	30.5	5.5	6	5.5	5	23.5	12.5	5	19	8	6.75
Benzene	µg/kg	5.5	5	5.5	2	6	5.5	5	5.5	5.5	5	6	2	2
Bromodichloromethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5	6	5	5.5
Bromoform	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Bromomethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Carbon Disulfide	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Carbon Tetrachloride	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Chlorobenzene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Chloroethane	µg/kg	9	5	5.5	5.5	6	5.5	5	5.5	5.5	5	6	5	5.5
Chloroform	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Chloromethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
cis-1,2-Dichloroethene	µg/kg	240	380	5.5	5.5	2	5.5	5	14	5	5.5	6	5	5.5
cis-1,3-Dichloropropene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Cyclohexane	µg/kg	5.5	61	5.5	5.5	6	5.5	5	16	7	5.5	6	5	5.5
Dibromochloromethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Dichlorodifluoromethane	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5	6	5	5.5
Ethylbenzene	µg/kg	5.5	5	5.5	5.5	6	2	3	2	2	5	6	2	3
Isopropylbenzene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5	6	5	5.5
Methyl Acetate	µg/kg	5.5	5	3	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Methyl tert-Butyl Ether	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Methylcyclohexane	µg/kg	5.5	6	5.5	5.5	6	5.5	5	5.5	5.5	5	6	5	5.5
Methylene Chloride	µg/kg	1	5	5.5	5.5	6	5.5	5	5.5	5.5	1.5	2	5	5.5
Styrene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Tetrachloroethene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	2
Toluene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5	2	5	5.5
trans-1,2-Dichloroethene	µg/kg	6	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
trans-1,3-Dichloropropene	µg/kg	5.5	5	5.5	5.5	6	5.5	5	5.5	5.5	5.5	6	5	5.5
Trichloroethene	µg/kg	91	410	5.5	18	13	5.5	3	10	5	5	6	5	23
Trichlorofluoromethane	µg/kg	3	1	5.5	5.5	6	5.5	5	5.5	3	3	3	5	5.5
Vinyl Chloride	µg/kg	9	3	5.5	5.5	6	5.5	5	5.5	5.5	5	6	5	5.5
Xylenes (total)	µg/kg	3	3	3	5.5	6	7	13	5	7	3	3	10	11
Total	**VOCs**	**583.25**	**1314**	**284.5**	**272.5**	**288**	**262**	**244**	**301.5**	**267**	**248.5**	**287**	**240**	**276.25**

Table 1.15
Average Concentration of VOCs in Upper Vadose Zone Soils
Pemaco Superfund Site, Maywood, CA

	Boring ID:	GP-VS-29	GP-VS-30	GP-VS-30	GP-VS-30	GP-VS-31	GP-VS-31	GP-VS-31	GP-VS-32	GP-VS-32	GP-VS-32	GP-VS-32	**Average Concentration (µg/kg)**
	Start Depth:	31	5	25	31	5	16	22.5	5	23	23	34.5	
	End Depth:	31.5	5.5	25.5	31.5	5.5	16.5	23	5.5	24	24	35	
	Collection Date:	2/21/2001	2/23/2001	2/23/2001	2/23/2001	2/26/2001	2/26/2001	2/26/2001	2/22/2001	2/22/2001	2/22/2001	2/22/2001	
PARAMETER	UNITS												
1,1,1-Trichloroethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	5	5.5	5.5	6	7	69.63
1,1,2,2-Tetrachloroethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
1,1,2-Trichloroethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
1,1-Dichloroethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	5	5.5	43	19	9	71.32
1,1-Dichloroethene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.58
1,2,4-Trichlorobenzene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.61
1,2-Dibromo-3-Chloropropane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
1,2-Dibromoethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
1,2-Dichlorobenzene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.54
1,2-Dichloroethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
1,2-Dichloropropane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
1,3-Dichlorobenzene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
1,4-Dichlorobenzene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.61
2-Butanone	µg/kg	4.5	3	2	5.5	5.5	5.5	4.5	4	11	20	15	335.86
2-Hexanone	µg/kg	4.5	5	5.5	5.5	5.5	5.5	30	5.5	5.5	6	7	70.02
4-Methyl-2-pentanone	µg/kg	4.5	5	5.5	5.5	5.5	5.5	12	5.5	5.5	6	10	69.94
Acetone	µg/kg	4.5	10.5	5.5	22	5	110	5	6.75	170	1300	110	342.06
Benzene	µg/kg	4.5	1	5.5	5.5	5.5	54	1400	5.5	6	6	14	89.06
Bromodichloromethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	5	5.5	5.5	6	7	69.68
Bromoform	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Bromomethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Carbon Disulfide	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	1	3	7	69.34
Carbon Tetrachloride	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Chlorobenzene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Chloroethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	5	5.5	6	6	7	69.73
Chloroform	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Chloromethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
cis-1,2-Dichloroethene	µg/kg	4.5	5	5.5	3	5.5	5.5	4.5	5.5	5.5	6	7	114.57
cis-1,3-Dichloropropene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Cyclohexane	µg/kg	4.5	5	5.5	5	5.5	40	15000	5.5	5.5	230	7	274.47
Dibromochloromethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Dichlorodifluoromethane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	5	5.5	5.5	6	7	69.68
Ethylbenzene	µg/kg	2	5	5.5	5.5	1	5.5	15	2	58	1500	22	972.77
Isopropylbenzene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	1	5.5	3	6	7	222.00
Methyl Acetate	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.65
Methyl tert-Butyl Ether	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.63
Methylcyclohexane	µg/kg	4.5	5	5.5	5.5	5.5	5.5	210	5.5	72	2700	2	351.75
Methylene Chloride	µg/kg	4.5	5	5.5	5.5	1	5.5	5	5.5	5.5	190	7	71.76
Styrene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Tetrachloroethene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.49
Toluene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	460	5.5	5.5	6	39	1795.17
trans-1,2-Dichloroethene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	70.13
trans-1,3-Dichloropropene	µg/kg	4.5	5	5.5	5.5	5.5	5.5	4.5	5.5	5.5	6	7	69.68
Trichloroethene	µg/kg	8	5	5.5	2	2	5.5	5	5.5	5.5	6	9	167.26
Trichlorofluoromethane	µg/kg	2	5	5.5	5.5	2	3	5	5.5	5.5	6	7	68.98
Vinyl Chloride	µg/kg	4.5	5	5.5	5.5	5.5	5.5	5	5.5	5.5	6	15	69.86
Xylenes (total)	µg/kg	7	5	5.5	5.5	3	5.5	68	10	140	3400	110	6579.02
Total VOCs		**217**	**239.5**	**260.5**	**274**	**245**	**449**	**17376.5**	**264.75**	**719**	**9596**	**614**	

Total VOC Average Concentration 6554.33247

Note: Half-values of detection limits were used when an analyte was not detected at or above the laboratory method detection limit.