

SECTION 3.0
TABLES AND PLATES

**Table 3.1a. Statistical Data Summary of Chemicals Detected in Surface Soil (0 to 2 feet bgs), Site 2
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/kg)	Depth of Minimum (feet)	Maximum Detection Value (mg/kg)	Depth of Maximum (feet)	Arithmetic Mean (mg/kg)	Standard Deviation of the Arithmetic Mean (mg/kg)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/kg)	Lesser of 95% UCL and Maximum Concentrations (mg/kg)
Antimony	2	8	25.0	1.30E+00	--	2.31E+01	--	3.56E+00	7.96E+00	1.92E+01	1.92E+01
Arsenic	7	8	87.5	1.40E+00	--	3.70E+00	--	2.30E+00	8.10E-01	3.89E+00	3.70E+00
Beryllium	1	8	12.5	2.30E-01	--	2.30E-01	--	1.10E-01	5.00E-02	2.10E-01	2.10E-01
Cadmium	2	8	25.0	9.00E-01	--	1.75E+01	--	2.61E+00	6.02E+00	1.44E+01	1.44E+01
Chromium /a/	8	8	100.0	9.60E+00	--	9.08E+01	--	2.59E+01	2.67E+01	7.82E+01	7.82E+01
Copper	4	8	50.0	3.70E+00	1.50	1.16E+03	--	1.56E+02	4.06E+02	9.53E+02	9.53E+02
Lead	7	8	87.5	5.70E+00	--	1.81E+02	--	3.12E+01	6.11E+01	1.51E+02	1.51E+02
Mercury	6	8	75.0	1.90E-01	--	5.30E+00	--	1.07E+00	1.77E+00	4.53E+00	4.53E+00
Nickel	6	8	75.0	6.00E+00	--	3.13E+01	--	1.01E+01	9.10E+00	2.79E+01	2.79E+01
Selenium	1	8	12.5	8.40E+00	--	8.40E+00	--	1.38E+00	2.84E+00	6.94E+00	6.94E+00
Silver	4	8	50.0	5.00E-01	--	5.86E+01	--	8.90E+00	2.03E+01	4.87E+01	4.87E+01
Thallium	1	8	12.5	6.00E-01	--	6.00E-01	--	2.60E-01	1.40E-01	5.30E-01	5.30E-01
Zinc	4	8	50.0	8.50E+00	--	1.55E+03	--	2.30E+02	5.36E+02	1.28E+03	1.28E+03

bgs Below ground surface.
mg/kg Milligrams per kilogram.
-- Not applicable.

/a/ Two samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.1 to 5.0 mg/kg.

**Table 3.1b. Statistical Data Summary of Chemicals Detected in Subsurface Soil (2 to 10 feet bgs), Site 2
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/kg)	Depth of Minimum (feet)	Maximum Detection Value (mg/kg)	Depth of Maximum (feet)	Arithmetic Mean (mg/kg)	Standard Deviation of the Arithmetic Mean (mg/kg)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/kg)	Lesser of 95% UCL and Maximum Concentrations (mg/kg)
Arsenic	2	4	50.0	1.80E+00	5.50	4.00E+00	5.50	2.11E+00	1.29E+00	4.63E+00	4.00E+00
Chromium /a/	4	4	100.0	1.89E+01	5.50	3.02E+01	5.50	2.45E+01	5.72E+00	3.57E+01	3.02E+01
Copper	4	4	100.0	3.50E+00	5.50	4.60E+00	5.50	4.13E+00	5.60E-01	5.23E+00	4.60E+00
Lead	2	4	50.0	1.40E+00	5.50	1.40E+00	5.50	9.30E-01	6.00E-01	2.10E+00	1.40E+00
Nickel	4	4	100.0	8.90E+00	5.50	1.90E+01	5.50	1.44E+01	4.79E+00	2.38E+01	1.90E+01
Zinc	4	4	100.0	1.67E+01	5.50	3.16E+01	5.50	2.10E+01	7.10E+00	3.49E+01	3.16E+01

bgs Below ground surface.
mg/kg Milligrams per kilogram.

/a/ Two samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.1 to 1 mg/kg.

**Table 3.1c. Statistical Data Summary of Chemicals Detected in Deep Soil (> 10 feet bgs), Site 2
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/kg)	Depth of Minimum (feet)	Maximum Detection Value (mg/kg)	Depth of Maximum (feet)	Arithmetic Mean (mg/kg)	Standard Deviation of the Arithmetic Mean (mg/kg)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/kg)	Lesser of 95% UCL and Maximum Concentrations (mg/kg)
Acetone	5	14	35.7	7.50E-03	90.50	4.50E-02	10.50	4.38E+02	1.46E+03	3.30E+03	4.50E+01
Antimony	1	14	7.1	6.30E+00	50.50	6.30E+00	50.50	3.00E+00	9.50E-01	4.87E+00	4.87E+00
Arsenic	13	14	92.9	6.80E-01	40.50	2.60E+00	10.50	1.32E+00	6.10E-01	2.51E+00	2.51E+00
Beryllium	3	14	21.4	1.80E-01	30.50	3.10E-01	20.50	1.20E-01	8.00E-02	2.80E-01	2.80E-01
Bis(2-ethylhexyl)phthalate	1	4	25.0	2.00E-01	10.50	2.00E-01	10.50	1.79E-01	1.44E-02	2.07E-01	2.00E-01
Chromium /a/	14	14	100.0	4.60E+00	40.50	1.51E+01	15.50	8.95E+00	3.00E+00	1.48E+01	1.48E+01
Copper	10	14	71.4	2.10E+00	15.50	4.60E+00	20.50	2.61E+00	1.26E+00	5.07E+00	4.60E+00
Lead	12	14	85.7	5.90E-01	40.50	2.30E+00	10.50	1.16E+00	6.00E-01	2.33E+00	2.30E+00
Nickel	12	14	85.7	6.80E+00	100.50	1.14E+01	40.50	8.21E+00	2.78E+00	1.37E+01	1.14E+01
Zinc	9	14	64.3	4.50E+00	80.50	1.17E+01	20.50	6.09E+00	3.60E+00	1.31E+01	1.17E+01

bgs Below ground surface.
mg/kg Milligrams per kilogram.

/a/ No samples were analyzed for hexavalent chromium.

**Table 3.2a. Statistical Data Summary of Chemicals Detected in Surface Soil (0 to 2 feet bgs), Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/kg)	Depth of Minimum (feet)	Maximum Detection Value (mg/kg)	Depth of Maximum (feet)	Arithmetic Mean (mg/kg)	Standard Deviation of the Arithmetic Mean (mg/kg)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/kg)	Lesser of 95% UCL and Maximum Concentration (mg/kg)
Acetone	4	30	13.3	4.00E-03	1.00	1.60E-02	1.50	5.04E-03	4.82E-03	1.45E-02	1.45E-02
Antimony	10	35	28.6	3.70E-01	2.00	8.70E+00	1.50	1.36E+00	1.89E+00	5.06E+00	5.06E+00
Arsenic	33	35	94.3	9.00E-01	1.00	6.80E+00	0.50	1.87E+00	1.33E+00	4.48E+00	4.48E+00
B(a)P-TE	1	18	5.6	4.58E-02	--	4.58E-02	--	1.49E-02	1.03E-02	3.52E-02	3.52E-02
Beryllium	17	34	50.0	1.30E-01	0.50	3.60E-01	2.00	1.50E-01	7.00E-02	2.90E-01	2.90E-01
Bis(2-ethylhexyl)phthalate	7	13	53.9	6.50E-02	0.50	9.90E+00	0.50	9.58E-01	2.70E+00	6.25E+00	6.25E+00
Cadmium	7	35	20.0	8.90E-01	0.35	1.86E+01	0.35	1.77E+00	4.18E+00	9.96E+00	9.96E+00
Chromium /a/	35	35	100.0	8.20E+00	1.00	1.84E+02	0.35	1.96E+01	2.99E+01	7.82E+01	7.82E+01
Copper	24	35	68.6	1.70E+00	1.00	1.25E+02	0.35	2.11E+01	3.43E+01	8.83E+01	8.83E+01
4,4'-DDT	1	12	8.3	1.50E-02	0.25	1.50E-02	0.25	1.20E-02	8.23E-03	2.82E-02	1.50E-02
Di-n-butylphthalate	2	13	15.4	4.00E-02	0.50	1.10E-01	2.00	3.45E-01	6.79E-01	1.68E+00	1.10E-01
Diethyl phthalate	1	13	7.7	4.10E-02	2.00	4.10E-02	2.00	3.50E-01	6.77E-01	1.68E+00	4.10E-02
Lead	32	35	91.4	5.70E-01	1.00	1.14E+03	0.35	9.64E+01	2.39E+02	5.65E+02	5.65E+02
Mercury	7	35	20.0	5.00E-02	0.50	5.60E-01	0.50	6.00E-02	1.00E-01	2.70E-01	2.70E-01
Nickel	32	35	91.4	6.90E+00	2.00	1.70E+01	0.50	9.78E+00	2.79E+00	1.53E+01	1.53E+01
Pyrene	1	19	5.3	9.50E-01	0.25	9.50E-01	0.25	3.08E-01	5.88E-01	1.46E+00	9.50E-01
Selenium	1	34	2.9	7.70E-01	2.00	7.70E-01	2.00	3.80E-01	9.00E-02	5.60E-01	5.60E-01
Tetrachloroethene	5	30	16.7	1.30E-03	2.00	2.90E-01	2.00	1.40E-02	5.27E-02	1.17E-01	1.17E-01
Toluene	1	30	3.3	2.10E-03	0.35	2.10E-03	0.35	2.94E-03	1.90E-03	6.67E-03	2.10E-03

**Table 3.2a. Statistical Data Summary of Chemicals Detected in Surface Soil (0 to 2 feet bgs), Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/kg)	Depth of Minimum (feet)	Maximum Detection Value (mg/kg)	Depth of Maximum (feet)	Arithmetic Mean (mg/kg)	Standard Deviation of the Arithmetic Mean (mg/kg)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/kg)	Lesser of 95% UCL and Maximum Concentrations (mg/kg)
Total Carcinogenic PAHs	1	18	5.6	1.25E+00	--	1.25E+00	--	3.17E-01	2.68E-01	8.42E-01	8.42E-01
Trichloroethene	1	30	3.3	2.40E-03	0.50	2.40E-03	0.50	2.95E-03	1.90E-03	6.67E-03	2.40E-03
Zinc	31	35	88.6	4.40E+00	1.50	4.99E+02	0.35	7.48E+01	1.26E+02	3.22E+02	3.22E+02

bgs Below ground surface.
 mg/kg Milligrams per kilogram.
 B(a)P-TE Benzo(a)pyrene toxic equivalents.
 -- Not applicable.
 cPAH Carcinogenic polycyclic aromatic hydrocarbons.

/a/ Ten samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.1 to 5 mg/kg.

**Table 3.2b. Statistical Data Summary of Chemicals Detected in Subsurface Soil (2 to 10 feet bgs), Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/kg)	Depth of Minimum (feet)	Maximum Detection Value (mg/kg)	Depth of Maximum (feet)	Arithmetic Mean (mg/kg)	Standard Deviation of the Arithmetic Mean (mg/kg)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/kg)	Lesser of 95% UCL and Maximum Concentration (mg/kg)
Acetone	10	59	17.0	6.00E-03	5.50	3.70E-02	5.50	7.15E-03	5.58E-03	1.81E-02	1.81E-02
Antimony	3	58	5.2	3.80E-01	10.00	1.90E+00	10.00	1.82E+00	1.27E+00	4.32E+00	1.90E+00
Arsenic	40	58	69.0	9.30E-01	5.50	4.70E+00	5.50	1.26E+00	6.20E-01	2.48E+00	2.48E+00
B(a)P-TE	1	38	2.6	1.36E-02	4.25	1.36E-02	4.25	4.08E-01	3.53E-01	1.10E+00	1.36E-02
Beryllium	16	56	28.6	1.30E-01	5.00	4.60E-01	9.25	1.30E-01	8.00E-02	2.90E-01	2.90E-01
Bis(2-ethylhexyl)phthalate	9	35	25.7	4.80E-02	10.00	3.60E+00	9.50	2.90E-01	5.87E-01	1.44E+00	1.44E+00
Cadmium	5	58	8.6	7.00E-01	8.50	2.00E+00	9.50	4.30E-01	3.20E-01	1.06E+00	1.06E+00
Chromium /a/	55	58	94.8	2.80E+00	10.00	9.16E+01	9.50	1.46E+01	1.66E+01	4.72E+01	4.72E+01
Copper	44	58	75.9	1.50E+00	5.50	2.80E+01	9.50	4.67E+00	5.21E+00	1.49E+01	1.49E+01
Di-n-butylphthalate	2	35	5.7	4.60E-02	5.50	1.80E-01	9.50	1.97E-01	1.59E-01	5.08E-01	1.80E-01
Diethyl phthalate	3	35	8.6	1.90E-01	8.50	3.20E-01	9.50	2.05E-01	1.58E-01	5.14E-01	3.20E-01
Lead	55	58	94.8	4.30E-01	5.50	7.77E+02	9.50	5.42E+01	1.64E+02	3.76E+02	3.76E+02
Mercury	2	58	3.5	1.80E-01	9.50	2.90E-01	5.50	5.00E-02	4.00E-02	1.30E-01	1.30E-01
Methyl ethyl ketone	2	59	3.4	4.30E-03	10.00	7.10E-03	5.50	5.72E-03	2.84E-03	1.13E-02	7.10E-03
Methylene chloride	4	59	6.8	2.80E-03	9.50	5.00E-03	5.50	2.79E-03	2.20E-03	7.11E-03	5.00E-03
2-Methylnaphthalene	1	35	2.9	2.30E-01	10.00	2.30E-01	10.00	1.75E-01	1.08E-02	1.96E-01	1.96E-01
Nickel	49	58	84.5	4.20E+00	10.00	1.46E+01	5.50	8.22E+00	3.09E+00	1.43E+01	1.43E+01
Pyrene	1	38	2.6	3.60E-01	4.25	3.60E-01	4.25	1.95E-01	1.57E-01	5.04E-01	3.60E-01
Selenium	3	58	5.2	5.70E-01	5.50	7.40E-01	5.50	3.40E-01	1.00E-01	5.30E-01	5.30E-01

**Table 3.2b. Statistical Data Summary of Chemicals Detected in Subsurface Soil (2 to 10 feet bgs), Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/kg)	Depth of Minimum (feet)	Maximum Detection Value (mg/kg)	Depth of Maximum (feet)	Arithmetic Mean (mg/kg)	Standard Deviation of the Arithmetic Mean (mg/kg)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/kg)	Lesser of 95% UCL and Maximum Concentrations (mg/kg)
Tetrachloroethene	6	59	10.2	1.30E-03	5.00	1.70E-02	5.50	3.02E-03	2.35E-03	7.62E-03	7.62E-03
Total Carcinogenic PAHs	1	38	2.6	6.80E-01	4.25	6.80E-01	4.25	1.12E+00	9.42E-01	2.97E+00	6.80E-01
Xylenes	3	59	5.1	1.10E-03	5.50	2.80E-02	10.00	3.03E-03	3.31/1000	9.53E-03	9.53E-03
Zinc	52	58	89.7	5.60E+00	5.50	2.23E+02	9.50	2.68E+01	4.61E+01	1.17E+02	1.17E+02

bgs Below ground surface.
mg/kg Milligrams per kilogram.
B(a)P-TE Benzo(a)pyrene toxic equivalents.
cPAH Carcinogenic polycyclic aromatic hydrocarbons.

/a/ Six samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.1 to 1 mg/kg.

Table 3.2c. Statistical Data Summary of Chemicals Detected in Deep Soil (> 10 feet bgs), Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/kg)	Depth of Minimum (feet)	Maximum Detection Value (mg/kg)	Depth of Maximum (feet)	Arithmetic Mean (mg/kg)	Standard Deviation of the Arithmetic Mean (mg/kg)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/kg)	Lesser of 95% UCL and Maximum Concentrations (mg/kg)
Acetone	20	69	29.0	2.40E-03	30.00	3.40E-01	22.00	1.41E-02	4.18E-02	9.60E-02	9.60E-02
Antimony	1	71	1.4	4.10E-01	15.00	4.10E-01	15.00	1.20E+00	1.33E+00	3.81E+00	4.10E-01
Arsenic	61	71	85.9	4.50E-01	70.50	1.80E+00	20.50	1.01E+00	3.70E-01	1.73E+00	1.73E+00
Beryllium	9	71	12.7	1.10E-01	70.50	3.60E-01	30.00	1.00E-01	6.00E-02	2.30E-01	2.30E-01
Bis(2-ethylhexyl)phthalate	16	22	72.7	3.30E-02	15.00	4.30E-01	15.00	1.66E-01	1.76E-01	5.12E-01	4.30E-01
Cadmium	1	71	1.4	6.10E-01	60.75	6.10E-01	60.75	3.80E-01	9.00E-02	5.60E-01	5.60E-01
Carbon disulfide	2	69	2.9	5.70E-03	15.50	2.00E-02	10.50	2.88E-03	2.13E-03	7.05E-03	7.05E-03
Chromium /a/	65	71	91.6	3.10E+00	20.50	2.12E+01	15.00	8.85E+00	4.48E+00	1.76E+01	1.76E+01
Copper	38	71	53.5	9.50E-01	40.50	1.22E+01	15.00	1.62E+00	1.68E+00	4.91E+00	4.91E+00
1,1-Dichloroethane	1	69	1.5	3.00E-03	20.50	3.00E-03	20.50	2.59E-03	1.30E-04	2.85E-03	2.85E-03
1,2-Dichloroethane	1	69	1.5	3.00E-03	20.50	3.00E-03	20.50	2.59E-03	1.30E-04	2.85E-03	2.85E-03
1,2-Dichloroethane (total)	1	69	1.5	4.00E-03	20.50	4.00E-03	20.50	2.60E-03	2.10E-04	3.02E-03	3.02E-03
1,2-Dichloropropane	1	69	1.5	3.00E-03	20.50	3.00E-03	20.50	2.59E-03	1.30E-04	2.85E-03	2.85E-03
Diethylphthalate	3	22	13.6	4.40E-02	15.00	9.40E-02	30.00	1.79E-01	1.57E-01	4.88E-01	9.40E-02
Lead	56	69	81.2	3.90E-01	40.50	6.32E+01	15.00	2.08E+00	7.55E+00	1.69E+01	1.69E+01
Methyl ethyl ketone	3	69	4.4	4.80E-03	20.00	8.00E-03	15.50	5.15E-03	4.60E-04	6.05E-03	6.05E-03
Methylene chloride	5	69	7.2	2.80E-03	10.50	6.90E-03	40.75	2.30E-03	1.12E-03	4.49E-03	4.49E-03
Nickel	53	71	74.7	4.10E+00	20.50	1.72E+01	60.50	7.63E+00	3.76E+00	1.50E+01	1.50E+01
Pentachlorophenol	2	22	9.1	3.50E-02	41.00	3.60E-02	11.00	9.06E-01	7.51E-01	2.34E+00	3.60E-02
Selenium	1	69	1.5	5.70E-01	16.00	5.70E-01	16.00	3.40E-01	7.00E-02	4.70E-01	4.70E-01
Toluene	10	69	14.5	1.00E-03	40.50	3.00E-03	20.50	2.41E-03	4.90E-04	3.37E-03	3.00E-03
1,1,2-Trichloroethane	1	69	1.5	3.00E-03	20.50	3.00E-03	20.50	2.59E-03	1.30E-04	2.85E-03	2.85E-03
Xylenes	1	69	1.5	6.00E-03	20.50	6.00E-03	20.50	2.63E-03	4.30E-04	3.47E-03	3.47E-03
Zinc	57	71	80.3	3.90E+00	20.50	4.65E+01	15.00	7.86E+00	6.17E+00	2.00E+01	2.00E+01

bgs Below ground surface.
mg/kg Milligrams per kilogram.

/a/ Ten samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.1 to 0.5 mg/kg.

**Table 3.3. Statistical Data Summary of Chemicals Detected in Groundwater, Site 2
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/l)	Maximum Detection Value (mg/l)	Arithmetic Mean (mg/l)	Standard Deviation of the Arithmetic Mean (mg/l)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/l)	Lesser of 95% UCL and Maximum Concentrations (mg/l)
Antimony	14	27	51.9	2.50E-03	1.01E-02	4.00E-03	3.23E-03	1.06E-02	1.01E-02
Arsenic	5	27	18.5	2.70E-03	5.30E-03	1.71E-03	1.08E-03	3.82E-03	3.82E-03
Bis(2-ethylhexyl)phthalate	3	4	75.0	2.80E-03	6.50E-03	4.00E-03	1.76E-03	7.77E-03	6.50E-03
Bromodichloromethane	1	27	3.7	1.30E-03	1.30E-03	1.27E-03	9.70E-04	3.18E-03	1.30E-03
Calcium	11	11	100.0	1.57E+01	7.56E+02	1.51E+02	2.69E+02	6.78E+02	6.78E+02
Chloride	11	11	100.0	6.46E+01	1.38E+04	2.45E+03	5.18E+03	1.26E+04	1.26E+04
Chloroform	7	27	25.9	2.90E-04	7.30E-03	1.54E-03	1.65E-03	4.78E-03	4.78E-03
Chromium	3	27	11.1	4.50E-03	8.20E-03	2.61E-03	1.69E-03	5.92E-03	5.92E-03
Copper	2	27	7.4	4.90E-03	2.11E-02	3.94E-03	4.52E-03	1.28E-02	1.28E-02
Dibromochloromethane	2	27	7.4	5.80E-04	1.40E-03	1.28E-03	9.70E-04	3.18E-03	1.40E-03
1,1-Dichloroethane	1	27	3.7	6.30E-04	6.30E-04	1.10E-03	1.10E-03	3.25E-03	6.30E-04
1,1-Dichloroethene	2	27	7.4	5.80E-03	6.20E-03	1.43E-03	1.69E-03	4.74E-03	4.74E-03
1,2-Dichloroethene (total)	15	27	55.6	3.30E-04	4.40E-02	8.60E-03	9.89E-03	2.80E-02	2.80E-02
Iron	6	10	60.0	1.56E-02	2.34E+00	2.54E-01	7.33E-01	1.69E+00	1.69E+00
Magnesium	11	11	100.0	1.28E+01	1.20E+03	2.16E+02	4.23E+02	1.05E+03	1.05E+03
Manganese	10	10	100.0	5.40E-03	5.68E-01	1.53E-01	1.93E-01	5.32E-01	5.32E-01
Mercury	3	27	11.1	3.50E-04	7.10E-04	1.50E-04	1.50E-04	4.40E-04	4.40E-04
Nickel	3	27	11.1	2.58E-02	4.11E-02	1.56E-02	8.21E-03	3.17E-02	3.17E-02
Nitrate as N	24	28	85.7	2.80E+00	6.31E+01	1.28E+01	1.53E+01	4.27E+01	4.27E+01
Orthophosphate as P	3	27	11.1	1.00E+00	1.10E+00	1.31E+00	3.15E+00	7.48E+00	1.10E+00

**Table 3.3. Statistical Data Summary of Chemicals Detected in Groundwater, Site 2
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/l)	Maximum Detection Value (mg/l)	Arithmetic Mean (mg/l)	Standard Deviation of the Arithmetic Mean (mg/l)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/l)	Lesser of 95% UCL and Maximum Concentrations (mg/l)
Pentachlorophenol	1	4	25.0	2.00E-03	2.00E-03	1.93E-02	1.15E-02	4.18E-02	2.00E-03
Potassium	11	11	100.0	1.40E+00	4.70E+01	9.69E+00	1.51E+01	3.92E+01	3.92E+01
Sodium	11	11	100.0	6.10E+01	7.08E+03	1.34E+03	2.78E+03	6.78E+03	6.78E+03
Sulfate	11	11	100.0	2.42E+01	2.08E+03	3.96E+02	7.66E+02	1.90E+03	1.90E+03
Tetrachloroethene	16	27	59.3	3.60E-04	1.50E-02	3.94E-03	4.39E-03	1.26E-02	1.26E-02
Thallium	1	27	3.7	1.06E-02	1.06E-02	2.52E-03	2.84E-03	8.10E-03	8.10E-03
1,1,1-Trichloroethane	4	27	14.8	3.00E-04	7.10E-02	6.27E-03	1.64E-02	3.84E-02	3.84E-02
Trichloroethene	17	27	63.0	5.20E-04	9.30E-02	2.42E-02	2.88E-02	8.06E-02	8.06E-02
Vinyl chloride	1	27	3.7	6.00E-04	6.00E-04	2.17E-03	2.21E-03	6.51E-03	6.00E-04
Zinc	15	27	55.6	1.30E-02	3.31E-01	4.78E-02	8.24E-02	2.09E-01	2.09E-01

mg/l Milligrams per liter.

Table 3.4. Statistical Data Summary of Chemicals Detected in Groundwater, Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/l)	Maximum Detection Value (mg/l)	Arithmetic Mean (mg/l)	Standard Deviation of the Arithmetic Mean (mg/l)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/l)	Lesser of 95% UCL and Maximum Concentration (mg/l)
Antimony	9	25	36.0	2.10E-03	1.01E-02	3.38E-03	2.31E-03	7.90E-03	7.90E-03
Calcium	10	10	100.0	1.23E+01	5.65E+01	3.11E+01	1.49E+01	6.02E+01	5.65E+01
Chloride	10	10	100.0	3.78E+01	1.34E+02	8.43E+01	3.12E+01	1.46E+02	1.34E+02
Chromium	6	25	24.0	4.80E-03	1.62E-02	3.27E-03	3.12E-03	9.39E-03	9.39E-03
Copper	4	25	16.0	5.40E-03	1.37E-02	4.82E-03	3.80E-03	1.23E-02	1.23E-02
1,2-Dichloroethane	2	26	7.7	5.20E-04	1.50E-03	1.23E-03	9.60E-04	3.12E-03	1.50E-03
1,1-Dichloroethene	3	26	11.5	3.20E-04	1.30E-03	1.10E-03	1.07E-03	3.19E-03	1.30E-03
1,2-Dichloroethene (total)	15	26	57.7	1.60E-03	5.00E-02	9.80E-03	1.33E-02	3.58E-02	3.58E-02
Iron	3	10	30.0	3.91E-02	1.38E-01	2.98E-02	4.03E-02	1.09E-01	1.09E-01
Magnesium	10	10	100.0	7.10E+00	2.95E+01	1.82E+01	7.94E+00	3.38E+01	2.95E+01
Manganese	10	10	100.0	2.80E-03	5.03E-01	7.66E-02	1.52E-01	3.74E-01	3.74E-01
Mercury	1	25	4.0	3.00E-04	3.00E-04	1.10E-04	4.00E-05	1.90E-04	1.90E-04
Methylene chloride	3	26	11.5	1.90E-03	2.90E-03	2.49E-03	1.40E-04	2.77E-03	2.77E-03
Nickel	3	25	12.0	2.55E-02	3.56E-02	1.50E-02	6.27E-03	2.73E-02	2.73E-02
Nitrate as N	26	26	100.0	2.00E+00	1.55E+01	7.09E+00	3.64E+00	1.42E+01	1.42E+01
Orthophosphate as P	7	25	28.0	2.00E-01	4.00E-01	1.50E-01	9.00E-02	3.30E-01	3.30E-01
Potassium	10	10	100.0	1.69E+00	3.68E+00	2.63E+00	6.42E-01	3.89E+00	3.68E+00
Sodium	10	10	100.0	4.27E+01	8.51E+01	6.37E+01	1.20E+01	8.72E+01	8.51E+01
Sulfate	10	10	100.0	1.95E+01	6.16E+01	4.08E+01	1.37E+01	6.76E+01	6.16E+01

**Table 3.4. Statistical Data Summary of Chemicals Detected in Groundwater, Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Detection Value (mg/l)	Maximum Detection Value (mg/l)	Arithmetic Mean (mg/l)	Standard Deviation of the Arithmetic Mean (mg/l)	95% Upper Confidence Limit (UCL) of the Arithmetic Mean (mg/l)	Lesser of 95% UCL and Maximum Concentrations (mg/l)
Tetrachloroethene	19	26	73.1	5.40E-04	3.10E-02	9.28E-03	1.01E-02	2.90E-02	2.90E-02
Toluene	2	26	7.7	1.00E-03	1.60E-03	1.11E-03	1.07E-03	3.21E-03	1.60E-03
1,1,1-Trichloroethane	9	26	34.6	3.00E-04	2.20E-03	1.21E-03	1.01E-03	3.19E-03	2.20E-03
Trichloroethene	19	26	73.1	2.80E-04	1.20E-01	1.76E-02	2.83E-02	7.31E-02	7.31E-02
Zinc	8	25	32.0	2.01E-02	9.81E-02	2.66E-02	2.54E-02	7.63E-02	7.63E-02

mg/l Milligrams per liter.

**Table 3.5. Selection of COPCs for Chemicals Detected In Surface Soil (0 to 2 feet bgs), Site 2 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemicals Detected	Maximum /b/ Concentration (mg/kg)	Background Concentration (mg/kg)	Essential Nutrient EDD /c/ (mg/day)	HBSL /d/ (mg/kg)	Screening Results /e/		COPC (Yes/No)
					Hazard Quotient	Cancer Risk	
Antimony	23.10	--	--	--	0.08	--	YES
Arsenic	3.70	3.4	--	--	0.02	8E-05	YES
Beryllium	0.23	0.35	--	--	--	--	NO
Cadmium	17.50	--	--	--	0.05	4E-04	YES
Chromium (total) /f/	90.80	46.1	--	--	0.0001	--	NO
Copper	1160.00	18.2	--	--	0.04	--	YES
Lead	181.00	51.8	--	240	--	--	NO
Mercury	5.30	0.12	--	--	0.03	--	YES
Nickel	31.30	58	--	--	--	--	NO
Selenium	8.40	--	--	--	0.002	--	NO
Silver	58.60	0.36	--	--	0.02	--	YES

**Table 3.5. Selection of COPCs for Chemicals Detected in Surface Soil (0 to 2 feet bgs), Site 2 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemicals Detected	Maximum /b/ Concentration (mg/kg)	Background Concentration (mg/kg)	Essential Nutrient EDD /c/ (mg/day)	HBSL /d/ (mg/kg)	Screening Results /e/		COPC (Yes/No)
					Hazard Quotient	Cancer Risk	
Thallium	0.60	0.45	--	--	0.01	--	YES
Zinc (total)	1550.00	75.8	0.31	--	--	--	NO

COPCs Chemicals of potential concern.
bgs Below ground surface.
mg/kg Milligrams per kilogram.
-- Not applicable or not available.
4.08E-06 4.08×10^{-6} .

- /a/ See Section 3.3 for explanation. If a chemical is eliminated by any of the steps shown, no further screening information is provided in this table for that chemical.
- /b/ From: Table 3.1a.
- /c/ Estimated daily dose (see Appendix B for explanation). This was compared to the Recommended Daily Allowance of 5 to 10 mg/day for zinc (National Research Council, 1989).
- /d/ Health based screening level for a child receptor (Harding Lawson Associates, Draft Technical Memorandum, Preliminary Remediation Goals, Fort Ord, California, June 14, 1993).
- /e/ See Table C1, Appendix C for development of screening values.
- /f/ Evaluated as chromium III. Chromium VI was not detected.

**Table 3.6. Selection of COPCs for Chemical Detected in Surface Soil (0 to 2 feet bgs), Site 12 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemicals Detected	Maximum /b/ Concentration (mg/kg)	Background Concentration (mg/kg)	Essential Nutrient EDD /c/ (mg/day)	HBSL /d/ (mg/kg)	Screening Results /e/		COPC (Yes/No)
					Hazard Quotient	Cancer Risk	
Acetone	0.016	--	--	--	<0.000001	--	NO
Antimony	8.70	--	--	--	0.03	--	YES
Arsenic	6.80	3.4	--	--	0.03	2E-04	YES
B(a)P-TE	0.0458	--	--	--	--	3E-07	YES
Beryllium	0.36	0.35	--	--	0.0001	6E-06	YES
Bis(2-ethylhexyl)phthalate	9.9	--	--	--	0.0007	8E-08	YES
Cadmium	18.60	--	--	--	0.05	4E-04	YES
Chromium (total) /f/	184.00	46.1	--	--	0.0003	--	NO
Copper	125.00	18.2	--	--	0.005	--	NO
4,4'-DDT	0.015	--	--	--	0.00004	3E-09	NO
Di-n-butylphthalate	0.11	--	--	--	0.000002	--	NO
Diethylphthalate	0.041	--	--	--	<0.000001	--	NO
Lead	1140.00	51.8	--	240	--	--	YES
Mercury	0.56	0.12	--	--	0.003	--	NO
Nickel	17.00	58	--	--	--	--	NO
Pyrene	0.95	--	--	--	0.00005	--	NO
Selenium	0.77	--	--	--	0.0002	--	NO
Tetrachloroethene	0.29	--	--	--	0.00004	9E-09	NO
Toluene	0.0021	--	--	--	<0.000001	--	NO
Total cPAH	1.25	--	--	--	0.000006	--	YES /g/

**Table 3.6. Selection of COPCs for Chemical Detected in Surface Soil (0 to 2 feet bgs), Site 12 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemicals Detected	Maximum /b/ Concentration (mg/kg)	Background Concentration (mg/kg)	Essential Nutrient EDD /c/ (mg/day)	HBSL /d/ (mg/kg)	Screening Results /e/		COPC (Yes/No)
					Hazard Quotient	Cancer Risk	
Trichloroethene	0.0024	--	--	--	<0.000001	2E-11	NO
Zinc (total)	499.00	75.8	0.10	--	--	--	NO

COPCs Chemicals of potential concern.
bgs Below ground surface.
mg/kg Milligrams per kilogram.
-- Not applicable or not available.
7.49E-06 7.49×10^{-6} .
B(a)P-TE Benzo(a)pyrene toxic equivalents.
cPAH Carcinogenic polycyclic aromatic hydrocarbons.

/a/ See Section 3.3 for explanation. If a chemical is eliminated by any of the steps shown, no further screening information provided in this table for that chemical.

/b/ From: Table 3.2a.

/c/ Estimated daily dose (see Appendix B for explanation). This was compared to the Recommended Daily Allowance of 5 to 10 mg/day for zinc (National Research Council, 1989).

/d/ Health Based Screening Level for a child receptor (Harding Lawson Associates, Draft Technical Memorandum, Preliminary Remediation Goals, Fort Ord, California, June 14, 1993).

/e/ See Table C2 of Appendix C for development of screening values.

/f/ Evaluated as chromium III. Chromium VI was not detected.

/g/ BaP-TE was selected as a COPC for the evaluation of the potential carcinogenic effects of carcinogenic PAH. Total cPAH used to evaluate the potential noncarcinogenic effects of these compounds.

**Table 3.7. Selection of COPCs for Chemicals Detected in Groundwater, Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemicals Detected	Maximum /b/ Concentration (mg/l)	Essential Nutrient EDD /c/ (mg/day)	Screening Results /d/		COPC (Yes/No)
			Hazard Quotient	Cancer Risk	
Antimony	0.0101	--	0.7	--	YES
Calcium	56.51	56.5	--	--	NO
Chloride	134	--	--	--	NO
Chromium (total) /e/	0.0162	--	0.0005	--	NO
Copper	0.0137	--	0.01	--	YES
1,1-Dichloroethene	0.0013	--	0.004	9.55E-06	YES
1,2-Dichloroethane	0.0015	--	--	1.67E-06	YES
1,2-Dichloroethene (total)	0.05	--	0.2	--	YES
Iron	0.138	0.14	--	--	NO
Magnesium	29.5	29.5	--	--	NO
Manganese	0.503	--	0.1	--	YES
Mercury	0.0003	--	0.03	--	YES
Methylene chloride	0.0029	--	0.001	4.97E-07	YES
Nickel	0.0356	--	0.05	--	YES
Nitrate as N	15.5	--	0.3	--	YES
Potassium	3.68	--	--	--	NO
Sodium	85.1	--	--	--	NO
Sulfate	61.6	--	--	--	NO

**Table 3.7. Selection of COPCs for Chemicals Detected in Groundwater, Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemicals Detected	Maximum /b/ Concentration (mg/l)	Essential Nutrient EDD /c/ (mg/day)	Screening Results /d/		COPC (Yes/No)
			Hazard Quotient	Cancer Risk	
Tetrachloroethene	0.031	--	0.09	1.94E-05	YES
Toluene	0.0016	--	0.0002	--	NO
1,1,1-Trichloroethane	0.0022	--	0.0007	--	NO
Trichloroethene	0.12	--	--	2.20E-05	YES
Zinc	0.0981	0.10	--	--	NO

COPCs Chemicals of potential concern.
mg/kg Milligrams per kilogram.
-- Not applicable or not available.
9.55E-06 9.55 x 10⁻⁶.
N Nitrogen.

/a/ See Section 3.3 for explanation. If a chemical is eliminated by any of the steps shown, no further screening information is provided in this table for that chemical.

/b/ From: Table 3.4.

/c/ Estimated daily dose (see Appendix B for explanation). EDD was compared to the Recommended Daily Allowance (RDA) of 400 to 800 mg/day for calcium, an RDA of 6 to 10 mg/day for iron, and an RDA of 5 to 10 mg/day for zinc (National Research Council, 1989).

/d/ See Table C3, Appendix C for development of screening values.

/e/ Evaluated as chromium III. Chromium VI was not detected.

**Table 3.8. Site-Specific Intake Assumptions, Sites 2 and 12 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

<u>Site Scenario</u> Receptor	Intake Assumptions			
	Exposure Time ET (hours/day)	Fraction of Intake FI (unitless)	Exposure Frequency EF (days/year)	Exposure Duration ED (years)
Site 2				
<u>Average Scenario</u>				
Commercial Worker	8	0.5	250	10
<u>RME Scenario</u>				
Commercial Worker	8	1	250	25
Site 12				
<u>Average Scenario</u>				
Resident (0 - 6 years)	20	0.75	350	6
Resident (6 - 9 years)	20	0.75	350	3
<u>RME Scenario</u>				
Resident (0 - 6 years)	24	1	350	6
Resident (6 - 18 years)	24	1	350	12
Resident (18 - 30 years)	24	1	350	12

RME Reasonable maximum exposure.

/a/ See Section 3.4.3 for explanation.

**Table 3.9. Exposure Point Concentrations (EPCs) for Soil and Air, Site 2
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemicals of Potential Concern	Average Exposure Scenario		RME Scenario	
	Soil Concentration /a/ (mg/kg)	Air Concentration /b/ (mg/m ³)	Soil Concentration /c/ (mg/kg)	Air Concentration /b/ (mg/m ³)
<u>Surface Soil (0 to 2 feet bgs)</u>				
Antimony	3.56E+00	4.09E-08	1.92E+01	2.20E-07
Arsenic	2.30E+00	2.65E-08	3.70E+00	4.26E-08
Cadmium	2.61E+00	3.00E-08	1.44E+01	1.66E-07
Copper	1.56E+02	1.80E-06	9.53E+02	1.10E-05
Mercury	1.07E+00	1.23E-08	4.53E+00	5.21E-08
Silver	8.90E+00	1.02E-07	4.87E+01	5.60E-07
Thallium	2.60E-01	2.99E-09	5.30E-01	6.10E-09

RME Reasonable maximum exposure.
 mg/kg Milligrams per kilogram.
 mg/m³ Milligrams per cubic meter.
 bgs Below ground surface.
 8.75E+00 8.75 x 10⁰.
 PM10 Particles with a diameter less than or equal to 10 microns.

/a/ Arithmetic mean.

/b/ Air concentration (mg/m³) = soil concentration (mg/kg) x site-specific PM10
 (1.15E-2 mg/m³) x conversion factor (1E-6 kg/mg).

/c/ Lesser of the maximum concentration and 95 percent upper confidence limit of the arithmetic mean.

**Table 3.10. Exposure Point Concentrations (EPCs) for Soil and Air, Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Chemicals of Potential Concern	Average Exposure Scenario		RME Scenario	
	Soil Concentration /a/ (mg/kg)	Air Concentration /b/ (mg/m ³)	Soil Concentration /c/ (mg/kg)	Air Concentration /b/ (mg/m ³)
<u>Surface Soil (0 to 2 feet bgs)</u>				
Antimony	1.36E+00	1.56E-08	5.06E+00	5.82E-08
Arsenic	1.87E+00	2.15E-08	4.48E+00	5.15E-08
B(a)P-TE	1.49E-02	1.72E-10	3.52E-02	4.05E-10
Beryllium	1.50E-01	1.73E-09	2.90E-01	3.34E-09
Bis(2-ethylhexyl)phthalate	9.58E-01	1.10E-08	6.25E+00	7.19E-08
Cadmium	1.77E+00	2.04E-08	9.96E+00	1.15E-07
Lead	9.64E+01	1.11E-06	5.65E+02	6.50E-06
Total Carcinogenic PAHs	3.17E-01	3.65E-09	8.42E-01	9.68E-09

RME Reasonable maximum exposure.
mg/kg Milligrams per kilogram.
mg/m³ Milligrams per cubic meter.
bgs Below ground surface.
1.36E+00 1.36 x 10⁰.
B(a)P-TE Benzo(a)pyrene toxic equivalents.
cPAH Carcinogenic polycyclic aromatic hydrocarbons.
PM10 Particles with a diameter less than or equal to 10 microns.

/a/ Arithmetic mean.

/b/ Air concentration (mg/m³) = soil concentration (mg/kg) x site-specific PM10 (1.15E-2 mg/m³) x conversion factor (1E-6 kg/mg).

/c/ Lesser of the maximum concentration and 95 percent upper confidence limit of the arithmetic mean.

Table 3.11. Exposure Point Concentrations (EPCs) for Groundwater, Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California

Chemicals of Potential Concern	Average Scenario Groundwater Concentration /a/ (mg/l)	RME Scenario Groundwater Concentration /b/ (mg/l)
Antimony	3.38E-03	7.90E-03
Copper	4.32E-03	1.23E-02
1,1-Dichloroethene	1.10E-03	1.30E-03
1,2-Dichloroethane	1.23E-03	1.50E-03
1,2-Dichloroethene (total)	9.80E-03	3.58E-02
Manganese	7.66E-02	3.40E+00
Mercury	1.10E-04	1.90E-04
Methylene chloride	2.49E-03	2.77E-03
Nickel	1.50E-02	2.73E-02
Nitrate as N	7.09E-03	1.42E-02
Tetrachloroethene	9.28E-03	2.90E-02
Trichloroethene	1.76E-02	7.31E-02

RME Reasonable maximum exposure.
mg/l Milligrams per liter.
3.38E-03 3.38×10^{-3} .
N Nitrogen.

/a/ Arithmetic mean.

/b/ Lesser of the maximum concentration and 95 percent upper confidence limit of the arithmetic mean.

**Table 3.12. Total Hazard Index for the Commercial Worker Receptor, Site 2 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

<u>Scenario</u> Receptor	Ingestion of Soil	Dermal Contact with Soil	Inhalation of Dust	Total HI
<u>Average Exposure Scenario</u>				
Commercial Worker	0.01	0.001	0.00003	0.01
<u>RME Scenario</u>				
Commercial Worker	0.07	0.03	0.00021	0.1

HI Hazard index.
RME Reasonable maximum exposure.

/a/ Chemical specific risks are presented in Tables E1 and E2 in Appendix E.

**Table 3.13. Total Hazard Index for the Resident Receptor, Site 12 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

<u>Scenario</u> Receptor	Ingestion of Soil	Dermal Contact with Soil	Inhalation of Dust	Ingestion of Groundwater	Total HI
<u>Average Exposure Scenario</u>					
Resident (0 - 6 years)	0.03	0.003	0.0003	0.3	0.4
Resident (6 - 9 years)	0.02	0.002	0.0002	0.2	0.3
<u>RME Scenario</u>					
Resident (0 - 6 years)	0.7	0.04	0.001	1.2	1.9
Resident (6 - 18 years)	0.1	0.02	0.0006	0.6	0.7
Resident (18 - 30 years)	0.07	0.02	0.0002	1.2	1.3

HI Hazard index.
RME Reasonable maximum exposure.

/a/ Chemical specific risks are presented in Tables E3 through E7 in Appendix E.

**Table 3.14. Total Cancer Risks for the Commercial Worker Receptor, Site 2 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

<u>Scenario</u> Receptor	Ingestion of Soil	Dermal Contact with Soil	Inhalation of Dust	Total Risk
<u>Average Exposure Scenario</u>				
Commercial Worker	1.40E-07	3.56E-08	7.86E-09	2E-07
<u>RME Scenario</u>				
Commercial Worker	1.13E-06	1.28E-06	1.09E-07	3E-06

RME Reasonable maximum exposure.
1.34E-07 1.34 x 10⁻⁷.

/a/ Chemical specific risks are presented in Tables E1 and E2 in Appendix E.

**Table 3.15. Total Cancer Risks for the Resident Receptor, Site 12 /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

<u>Scenario</u> <u>Receptor</u>	<u>Ingestion</u> <u>of Soil</u>	<u>Dermal</u> <u>Contact</u> <u>with Soil</u>	<u>Inhalation</u> <u>of Dust</u>	<u>Ingestion</u> <u>of</u> <u>Groundwater</u>	<u>Total</u> <u>Risk</u>
<u>Average Exposure Scenario</u>					
Resident (0 - 6 years)	9.93E-07	1.71E-07	9.41E-08	2.72E-06	4E-06
Resident (6 - 9 years)	2.87E-07	5.68E-08	3.42E-08	9.82E-07	1E-06
Total	1.28E-06	2.28E-07	1.28E-07	3.70E-06	5E-06
<u>RME Scenario</u>					
Resident (0 - 6 years)	1.21E-05	1.81E-06	4.42E-07	8.30E-06	2E-05
Resident (6 - 18 years)	1.95E-06	4.10E-06	4.47E-07	8.38E-06	1E-05
Resident (18 - 30 years)	2.44E-06	1.45E-06	1.78E-07	1.66E-05	2E-05
Total	1.65E-05	7.36E-06	1.07E-06	3.33E-05	6E-05

RME Reasonable maximum exposure.
7.62E-07 7.62 x 10⁻⁷.

/a/ Chemical specific risks are presented in Tables E3 through E7 in Appendix E.

**Table 3.16. Summary of Model Predicted Blood-Lead Levels from Multipathway Exposures
Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

<u>Model Application, Name</u> Site, Receptor	Blood-Lead Level ($\mu\text{g}/\text{dl}$)			
	Average	RME		
<u>Child Receptors, LEAD6 UBK Model /a,b/</u>				
Site 12, Child Resident (0 - 6 years)	3.15	7.29		
	Blood-Lead Level ($\mu\text{g}/\text{dl}$)			
	Average			
	95th	99th		
	Percentile	Percentile		
	RME			
	95th	99th		
	Percentile	Percentile		
<u>Child and Adult Receptors, LEADSPREAD Model /b,c/</u>				
Site 12, Child and Adult Resident /d/	3.50	4.46	5.99	7.64

$\mu\text{g}/\text{dl}$ Micrograms lead per deciliter blood.
RME Reasonable maximum exposure.
UBK Uptake/Biokinetic.

/a/ Value represents the highest blood-lead level estimated in the child receptor 0 to 6 years of age. Age-specific blood-lead level estimates from the LEAD6 Model are presented in Tables F1 and F2 in Appendix F.

/b/ Site-related lead-in-air concentrations were well below ambient background levels. Therefore estimated blood-lead levels in this table are based almost exclusively on exposure to background levels of lead. Target blood-lead level is 10 $\mu\text{g}/\text{dl}$ (EPA, 1990b; Cal/EPA, 1992f); blood-lead levels below this level are not expected to result in adverse health effects.

/c/ These LEADSPREAD Model results are presented in Tables F3 through F4 in Appendix F.

/d/ Predicted blood-lead levels for child resident, ages 6 to 9 years, child resident, ages 6 to 18 years; and adult resident ages 18 to 30 years.

**Table 3.17. Chemical-Specific Contribution to Total Cancer Risk Estimates, Site 12
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

Medium	Chemical	Percent Contribution to the Total Cancer Risk		Incremental Cancer Risk	
		Average	RME	Average	RME
SOIL					
Organics:					
Total Soil Metals	B(a)P-TE and BEHP	2%	4%	1E-07	2E-06
	Arsenic	22%	31%	1E-06	2E-05
	Beryllium	6%	7%	3E-07	4E-06
	Cadmium	1%	1%	6E-08	7E-07
Subtotal		29%	39%	2E-06	2E-05
Background Soil Metals:					
	Arsenic	39%	24%	2E-06	1E-05
	Beryllium	14%	8%	7E-07	5E-06
	Cadmium	--	--	--	--
Subtotal		53%	32%	3E-06	2E-05
Fort Ord-Related Metals /a/		0 /d/	8%	0 /d/	4E-06
GROUNDWATER					
Volatile Organic Compounds /b/		69%	57%	4E-06	3E-05
TOTAL SITE-RELATED CANCER RISK /c,d/		100%	100%	5E-06	6E-05

RME Reasonable maximum exposure.

/a/ Estimated by subtracting the total Soil Component from the Background Soil Component.

/b/ 1,2 DCA; 1,1 DCE; methylene chloride; PCE; and TCE were the only carcinogenic chemicals selected as COPCs in groundwater at Site 12.

/c/ Does not include cancer risks associated with exposure to background metal concentrations.

/d/ Site-related metal concentrations (and corresponding cancer risks) are below background (i.e., site-related cancer risks are a subset of background).