

**SECTION 6.0**  
**TABLES AND PLATES**

**Table 6.1a. Statistical Data Summary of Chemicals Detected in Surface Soil (0 to 2 feet bgs)**  
**Site 31, North Slope**  
**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	16	36	44.4	3.40E-01	--	2.54E+01	--	2.47E+00	5.52E+00	1.33E+01	1.33E+01
Arsenic	23	36	63.9	6.40E-01	--	5.80E+00	--	1.75E+00	1.45E+00	4.59E+00	4.59E+00
B(a)P-TE /a/	1	1	100.0	7.85E-02	--	7.85E-02	--	--	--	--	--
Beryllium	26	36	72.2	1.30E-01	--	3.80E-01	--	1.80E-01	9.00E-02	3.50E-01	3.50E-01
Cadmium	14	36	38.9	9.00E-01	--	8.20E+00	--	1.35E+00	1.88E+00	5.03E+00	5.03E+00
Chromium (total) /b/	36	36	100.0	1.04E+01	--	4.98E+01	--	1.85E+01	1.05E+01	3.91E+01	3.91E+01
Copper	36	36	100.0	2.10E+00	--	3.91E+02	--	4.60E+01	9.82E+01	2.38E+02	2.38E+02
4,4'-DDE	3	9	33.3	7.80E-02	--	1.20E+00	--	2.01E-01	4.05E-01	9.95E-01	9.95E-01
4,4'-DDT	3	9	33.3	7.00E-02	--	1.70E+00	--	2.37E-01	5.58E-01	1.33E+00	1.33E+00
Dibenzofuran	1	8	12.5	3.40E-02	--	3.40E-02	--	1.54E-01	4.97E-02	2.52E-01	3.40E-02
Fluoranthene	1	8	12.5	3.50E-02	--	3.50E-02	--	1.54E-01	4.93E-02	2.51E-01	3.50E-02
Lead	36	36	100.0	1.80E+00	--	2.21E+04	--	9.79E+02	3.74E+03	8.31E+03	8.31E+03
Mercury	15	36	41.7	7.00E-02	--	1.30E+00	--	1.10E-01	2.20E-01	5.40E-01	5.40E-01
2-Methylnaphthalene	3	8	37.5	4.30E-02	--	1.70E-01	--	1.39E-01	5.87E-02	2.54E-01	1.70E-01
Naphthalene	2	8	25.0	3.70E-02	--	1.30E-01	--	1.50E-01	4.91E-02	2.47E-01	1.30E-01
Nickel	22	36	61.1	5.80E+00	--	3.38E+01	--	7.71E+00	6.93E+00	2.13E+01	2.13E+01
Phenanthrene	2	8	25.0	3.60E-02	--	6.80E-02	--	1.40E-01	5.56E-02	2.49E-01	6.80E-02
Pyrene	1	8	12.5	4.70E-02	--	4.70E-02	--	1.56E-01	4.52E-02	2.44E-01	4.70E-02

**Table 6.1a. Statistical Data Summary of Chemicals Detected in Surface Soil (0 to 2 feet bgs)  
Site 31, North Slope  
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)
Silver	5	36	13.9	2.70E+00	--	7.40E+00	--	1.17E+00	1.68E+00	4.47E+00	4.47E+00
TCDD-TE	9	9	100.0	2.00E-08	--	2.81E-05	--	8.24E-06	1.01E-05	2.81E-05	2.81E-05
Total cPAH /a/	1	1	100.0	2.03E-01	--	2.03E-01	--	--	--	--	--
Zinc	36	36	100.00	9.40E+00	--	3.09E+03	--	3.87E+02	7.82E+02	1.92E+03	1.92E+03

bgs Below ground surface.  
mg/kg Milligrams per kilogram.  
-- Not applicable.  
B(a)P-TE Benzo(a)pyrene toxic equivalents.  
TCDD-TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
2.00E-08  $2.00 \times 10^{-8}$ .  
cPAH Carcinogenic polycyclic aromatic hydrocarbons.

/a/ Carcinogenic PAH were analyzed for in eight samples, and detected in one. One-half the detection limits of the nondetect samples were not used to calculate an arithmetic mean because they exceeded the maximum (i.e., detected) concentration. Therefore, only one data point is available (Section 6.2).

/b/ Thirty-five samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.5 to 5.0 mg/kg.

**Table 6.1b. Statistical Data Summary of Chemicals Detected in Subsurface Soil (>2 to 10 feet bgs)  
Site 31, North Slope  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

Chemical	Number of Detections	Number of Analyses	Frequency of Detection (percent)	Minimum Value (mg/kg)	Depth of Minimum (feet)	Maximum 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	6	12	50.0	6.20E-03	9.50	1.00E-02	10.00	6.61E-03	1.72E-03	9.98E-03	9.98E-03
Antimony	9	25	36.0	7.80E-01	9.00	2.10E+01	3.00	2.68E+00	3.95E+00	1.04E+01	1.04E+01
Arsenic	19	25	76.0	5.90E-01	3.00	4.08E+01	9.50	4.67E+00	8.80E+00	2.19E+01	2.19E+01
Beryllium	14	25	56.0	1.90E-01	6.00	5.90E-01	9.00	2.70E-01	1.50E-01	5.60E-01	5.60E-01
Cadmium	4	25	16.0	1.20E+00	9.00	6.70E+00	3.00	9.20E-01	1.48E+00	3.82E+00	3.82E+00
Chromium (total) /a/	25	25	100.0	6.10E+00	9.50	6.44E+01	3.00	2.05E+01	1.41E+01	4.81E+01	4.81E+01
Copper	17	25	68.0	2.00E+00	10.00	1.18E+03	9.00	1.15E+02	2.95E+02	6.94E+02	6.94E+02
4,4'-DDE	2	4	50.0	1.80E-02	6.00	6.50E-02	3.00	2.53E-02	2.69E-02	7.79E-02	6.50E-02
4,4'-DDT	2	4	50.0	4.20E-02	6.00	1.20E-01	3.00	4.50E-02	5.24E-02	1.48E-01	1.20E-01
Lead	25	25	100.0	1.60E+00	3.00	3.62E+03	3.00	4.23E+02	8.96E+02	2.18E+03	2.18E+03
Mercury	8	25	32.0	8.00E-02	3.00	5.10E-01	6.00	8.00E-02	1.00E-01	2.70E-01	2.70E-01
Methylene chloride	1	12	8.3	3.60E-03	9.50	3.60E-03	9.50	2.73E-03	2.90E-04	3.29E-03	3.29E-03
Nickel	19	25	76.0	7.00E+00	3.00	1.40E+02	9.00	1.89E+01	2.83E+01	7.43E+01	7.43E+01
Silver	2	25	8.0	2.50E+00	9.50	3.00E+00	9.00	7.00E-01	8.60E-01	2.40E+00	2.40E+00
TCDD-TE	8	8	100.0	5.00E-07	6.00	2.91E-05	3.00	4.55E-06	9.92E-06	2.40E-05	2.40E-05
Thallium	2	25	8.0	5.15E-01	3.00	5.30E-01	9.50	3.80E-01	3.50E-01	1.08E+00	5.30E-01
Zinc	23	25	92.0	6.60E+00	10.00	2.58E+03	3.00	3.81E+02	7.11E+02	1.77E+03	1.77E+03

bgs Below ground surface.  
mg/kg Milligrams per kilogram.  
2.90E-04  $2.90 \times 10^{-4}$ .  
TCDD-TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.

/a/ Twelve samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.11 to 2.3 mg/kg.

**Table 6.1c. Statistical Data Summary of Chemicals Detected in Deep Soil (> 10 feet bgs)  
Site 31, North Slope  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

Chemical	Number of Detector	Number of Analyses	Frequency of Detection (percent)	Minimum Value (mg/kg)	Depth of Minimum (feet)	Maximum 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)
Aldrin	1	2	50.0	6.60E-03	15.00	6.60E-03	15.00	5.40E-03	1.70E-03	8.73E-03	6.60E-03
Antimony	7	9	77.8	4.70E-01	15.00	1.30E+00	15.00	6.20E-01	4.00E-01	1.41E+00	1.30E+00
Arsenic	6	9	66.7	7.90E-01	15.00	2.90E+00	15.00	1.43E+00	1.07E+00	3.53E+00	2.90E+00
Beryllium	4	9	44.4	5.10E-01	15.00	5.50E-01	15.00	3.20E-01	2.20E-01	7.40E-01	5.50E-01
Chromium (total) /a/	9	9	100.0	4.70E+00	15.00	1.92E+01	15.00	1.27E+01	4.63E+00	2.18E+01	1.92E+01
Copper	4	9	44.4	4.20E+00	15.00	1.48E+01	15.00	4.03E+00	4.42E+00	1.27E+01	1.27E+01
4,4'-DDE	1	2	50.0	3.00E-02	15.00	3.00E-02	15.00	1.93E-02	1.52E-02	4.91E-02	3.00E-02
4,4'-DDT	1	2	50.0	5.40E-02	15.00	5.40E-02	15.00	3.13E-02	3.22E-02	9.43E-02	5.40E-02
Dieldrin	1	2	50.0	1.40E-02	15.00	1.40E-02	15.00	1.13E-02	3.89E-03	1.89E-02	1.40E-02
Endrin	1	2	50.0	1.50E-02	15.00	1.50E-02	15.00	1.18E-02	4.60E-03	2.08E-02	1.50E-02
gamma-BHC	1	2	50.0	6.20E-03	15.00	6.20E-03	15.00	5.20E-03	1.41E-03	7.97E-03	6.20E-03
Heptachlor	1	2	50.0	6.60E-03	15.00	6.60E-03	15.00	5.40E-03	1.70E-03	8.73E-03	6.60E-03
Lead	9	9	100.0	1.20E+00	15.00	1.23E+02	15.00	1.74E+01	3.97E+01	9.52E+01	9.52E+01
Nickel	6	9	66.7	5.40E+00	15.00	1.76E+01	15.00	8.09E+00	5.32E+00	1.85E+01	1.76E+01
Zinc	7	9	77.8	6.70E+00	15.00	2.39E+02	15.00	3.87E+01	7.55E+01	1.87E+02	1.87E+02

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

/a/ Nine samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.1 to 1.0 mg/kg.

**Table 6.2a. Statistical Data Summary of Chemicals Detected in Surface Soil (0 feet bgs)  
Site 31, South Slope  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

Chemical	Number of Detection	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	1	10	10.0	3.40E-01	--	3.40E-01	--	2.50E-01	1.40E-01	5.30E-01	3.40E-01
Arsenic	6	10	60.0	8.20E-01	--	1.20E+00	--	8.40E-01	3.00E-01	1.44E+00	1.20E+00
Beryllium	5	10	50.0	1.80E-01	--	3.20E-01	--	1.60E-01	1.10E-01	3.70E-01	3.20E-01
Cadmium	1	10	10.0	1.00E+00	--	1.00E+00	--	5.10E-01	1.80E-01	8.60E-01	8.60E-01
Chromium (total) /a/	10	10	100.0	5.90E+00	--	1.71E+01	--	1.06E+01	4.20E+00	1.88E+01	1.71E+01
Copper	8	10	80.0	1.50E+00	--	1.85E+01	--	6.15E+00	7.26E+00	2.04E+01	1.85E+01
Lead	10	10	100.0	2.00E+00	--	1.66E+02	--	4.17E+01	5.82E+01	1.56E+02	1.56E+02
Mercury	3	10	30.0	6.00E-02	--	8.00E-02	--	4.00E-02	2.00E-02	9.00E-02	8.00E-02
Nickel	3	10	30.0	5.60E+00	--	7.20E+00	--	3.99E+00	1.81E+00	7.54E+00	7.20E+00
TCDD-TE	5	5	100.0	2.00E-08	--	1.84E-06	--	4.10E-07	8.00E-07	1.98E-06	1.84E-06
Zinc	10	10	100.0	9.90E+00	--	1.88E+02	--	5.29E+01	6.46E+01	1.79E+02	1.79E+02

bgs Below ground surface.  
mg/kg Milligrams per kilogram.  
-- Not applicable.  
TCDD-TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
2.00E-08  $2 \times 10^{-8}$ .

/a/ Eleven samples were analyzed for hexavalent chromium; none was detected. Detection limits range from 0.1 to 2.0 mg/kg.

**Table Revisions  
Volume III Site 31  
Tables 6.2b**

**In Volume III, Site 31 Table 6.2b in footnote /a/ replace the word "*total*" with "*hexavalent*."**

**Table 6.2b. Statistical Data Summary of Chemicals Detected in Subsurface Soil (> 0 to 10 feet bgs)  
Site 31, South Slope  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

Chemical	Number of Detection	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	3	6	50.0	6.30E-03	10.00	8.30E-03	10.00	6.23E-03	1.50E-03	9.18E-03	8.30E-03
Antimony	2	17	11.8	3.40E-01	--	1.10E+00	5.50	1.19E+00	1.22E+00	3.59E+00	1.10E+00
Arsenic	8	17	47.1	8.20E-01	--	1.50E+00	10.00	8.10E-01	3.30E-01	1.46E+00	1.46E+00
Beryllium	7	17	41.2	1.80E-01	--	3.20E-01	10.00	1.60E-01	1.00E-01	3.60E-01	3.20E-01
Cadmium	1	17	5.9	1.00E+00	--	1.00E+00	--	4.30E-01	1.70E-01	7.60E-01	7.60E-01
Chromium (total) /a/	17	17	100.0	5.50E+00	10.00	1.72E+01	5.50	1.04E+01	3.86E+00	1.80E+01	1.72E+01
Copper	12	17	70.6	1.30E+00	10.00	1.85E+01	--	4.54E+00	5.88E+00	1.61E+01	1.61E+01
Lead	17	17	100.0	1.40E+00	10.00	1.66E+02	--	2.54E+01	4.80E+01	1.20E+02	1.20E+02
Mercury	3	17	17.7	6.00E-02	--	8.00E-02	--	4.00E-02	2.00E-02	8.00E-02	8.00E-02
Nickel	6	17	35.3	5.30E+00	5.50	7.90E+00	10.00	4.24E+00	1.89E+00	7.94E+00	7.90E+00
TCDD-TE	6	6	100.0	2.00E-08	--	2.87E-05	2.00	5.13E-06	1.16E-05	2.78E-05	2.78E-05
Zinc	17	17	100.0	6.40E+00	10.00	1.88E+02	--	3.44E+01	5.36E+01	1.39E+02	1.39E+02

bgs Below ground surface.  
mg/kg Milligrams per kilogram.  
-- Not applicable.  
TCDD-TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
2.00E-08 2.00 x 10<sup>-8</sup>.

/a/ One sample was analyzed for total chromium; none was detected. The detection limit was 1.0 mg/kg.

**Table Revisions  
Volume III Site 31  
Tables 6.3a**

**In Volume III, Site 31 Table 6.3a in footnote /a/ replace the word "total" with "hexavalent."**

**Table 6.3a. Statistical Data Summary of Chemicals Detected in Surface Soil (0 feet bgs)  
Site 31, LRTC Area  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

Chemical	Number of Detection	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	9	22.2	5.10E-01	--	5.10E-01	--	2.60E-01	1.50E-01	5.50E-01	5.10E-01
Arsenic	6	9	66.7	6.80E-01	--	2.50E+00	--	1.04E+00	6.40E-01	2.28E+00	2.28E+00
Beryllium	8	9	88.9	1.70E-01	--	3.40E-01	--	2.00E-01	7.00E-02	3.40E-01	3.40E-01
Chromium (total) /a/	9	9	100.0	1.01E+01	--	1.62E+01	--	1.25E+01	2.27E+00	1.69E+01	1.62E+01
Copper	9	13	69.2	2.90E+00	--	6.99E+02	--	5.73E+01	1.93E+02	4.35E+02	4.35E+02
Lead	9	9	100.0	4.70E+00	--	7.99E+01	--	2.22E+01	2.33E+01	6.79E+01	6.79E+01
Mercury	1	9	11.1	7.00E-02	--	7.00E-02	--	3.00E-02	1.00E-02	6.00E-02	6.00E-02
Nickel	6	9	66.7	5.80E+00	--	1.44E+01	--	7.09E+00	4.18E+00	1.53E+01	1.44E+01
TCDD-TE	3	3	100.0	1.90E-07	--	1.96E-05	--	6.71E-06	1.11E-05	2.85E-05	1.96E-05
Zinc	9	9	100.0	2.16E+01	--	5.83E+01	--	3.38E+01	1.22E+01	5.77E+01	5.77E+01

bgs Below ground surface.  
LRTC Leadership Reaction Training Compound.  
mg/kg Milligrams per kilogram.  
-- Not applicable.  
TCDD-TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
1.90E-07 1.90 x 10<sup>-7</sup>.

/a/ Nine samples were analyzed for total chromium; none was detected. Detection limits range from 0.5 to 20 mg/kg.

**Table Revisions  
Volume III Site 31  
Tables 6.3b**

**In Volume III, Site 31 Table 6.3b in footnote /a/ replace the word "*total*" with "*hexavalent*."**

**Table 6.3b. Statistical Data Summary of Chemicals Detected in Subsurface Soil (> 0 to 10 feet bgs)  
Site 31, LRTC Area  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

Chemical	Number of Detectors	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	11	18.2	5.10E-01	--	5.10E-01	--	2.50E-01	1.30E-01	5.10E-01	5.10E-01
Arsenic	6	11	54.6	6.80E-01	--	2.50E+00	--	8.90E-01	6.50E-01	2.17E+00	2.17E+00
Beryllium	10	11	90.9	1.70E-01	--	3.40E-01	--	2.10E-01	7.00E-02	3.50E-01	3.40E-01
Chromium (total) /a/	11	11	100.0	1.01E+01	--	1.62E+01	--	1.26E+01	2.06E+00	1.67E+01	1.62E+01
Copper	8	18	44.4	2.90E+00	--	6.99E+02	--	4.15E+01	1.64E+02	3.63E+02	3.63E+02
Lead	11	11	100.0	1.50E+00	6.00	7.99E+01	--	1.85E+01	2.24E+01	6.25E+01	6.25E+01
Mercury	1	11	9.1	7.00E-02	--	7.00E-02	--	3.00E-02	1.00E-02	6.00E-02	6.00E-02
Nickel	7	11	63.6	5.40E+00	6.00	1.44E+01	--	6.52E+00	4.00E+00	1.44E+01	1.44E+01
TCDD-TE	3	3	100.0	1.90E-07	--	1.96E-05	--	6.71E-06	1.11E-05	2.85E-05	1.96E-05
Zinc	11	11	100.0	6.90E+00	6.00	5.83E+01	--	2.93E+01	1.49E+01	5.84E+01	5.83E+01

bgs Below ground surface.  
LRTC Leadership Reaction Training Compound.  
mg/kg Milligrams per kilogram.  
-- Not applicable.  
TCDD-TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
1.90E-07 1.90 x 10<sup>-07</sup>.

/a/ Ten samples were analyzed for total chromium; none was detected. Detection limits range from 0.1 to 20 mg/kg.

**Table Revisions  
Volume III Site 31  
Tables 6.3c**

**In Volume III, Site 31 Table 6.3c in footnote /a/ replace the word "*total*" with "*hexavalent*."**

**Table 6.3c. Statistical Data Summary of Chemicals Detected in Deep Soil (> 10 feet bgs)  
Site 31, LRTC Area  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

Chemical	Number of Detection	Number of Analyses	Frequency of Detection (percent)	Minimum Value (mg/kg)	Depth of Minimum (feet)	Maximum 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	1	1	100	2.30E+00	12.00	2.30E+00	12.00	--	--	--	--
Beryllium	1	1	100	2.50E-01	12.00	2.50E-01	12.00	--	--	--	--
Chromium (total) /a/	1	1	100	2.01E+01	12.00	2.01E+01	12.00	--	--	--	--
Lead	1	1	100	2.90E+00	12.00	2.90E+00	12.00	--	--	--	--
Nickel	1	1	100	1.02E+01	12.00	1.02E+01	12.00	--	--	--	--
Zinc	1	1	100	9.50E+00	12.00	9.50E+00	12.00	--	--	--	--

bgs Below ground surface.  
LRTC Leadership Reaction Training Compound.  
mg/kg Milligrams per kilogram.  
-- Not applicable.

/a/ One sample was analyzed for total chromium; none was detected. The detection limit was 0.11 mg/kg.

**Table 6.4. Selection of COPCs for Chemicals Detected in Surface Soil (0 to 2 feet bgs) /a/  
Site 31, North Slope  
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	25.40	ND /f/	--	--	0.09	--	YES
Arsenic	5.80	3.4	--	--	0.03	1E-04	YES
B(a)P-TE	0.078	--	--	--	--	6E-07	YES
Beryllium	0.38	0.35	--	--	0.0001	6E-06	YES
Cadmium	8.20	ND /f/	--	--	0.02	2E-04	YES
Chromium (total) /g/	49.80	46.1	--	--	0.00007	--	NO
Copper	391.00	18.2	--	--	0.02	--	YES
4,4-DDE	1.20	--	--	--	--	3E-07	YES
4,4-DDT	1.70	--	--	--	0.005	4E-07	YES
Dibenzofuran	0.034	--	--	--	<0.000001	--	NO
Fluoranthene	0.035	--	--	--	0.000001	--	NO
Lead	22,100	51.8	--	240	--	--	YES
Mercury	1.30	0.12	--	--	0.006	--	NO
2-Methylnaphthalene	0.17	--	--	--	0.000004	--	NO
Naphthalene	0.13	--	--	--	0.000003	--	NO
Nickel	33.80	58	--	--	--	--	NO
Phenanthrene	0.068	--	--	--	<0.000001	--	NO
Pyrene	0.047	--	--	--	0.000002	--	NO
Silver	7.40	0.36	--	--	0.002	--	NO
TCDD-TE	2.81E-05	--	--	--	--	3E-06	YES
Total cPAH /h/	0.203	--	--	--	0.00001	--	NO

**Table 6.4. Selection of COPCs for Chemicals Detected in Surface Soil (0 to 2 feet bgs) /a/  
Site 31, North Slope  
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	
Zinc	3090.00	75.8	0.618	--	--	--	NO

COPCs      Chemicals of potential concern.  
bgs          Below ground surface.  
mg/kg       Milligrams per kilogram.  
mg/day      Milligrams per day.  
ND          Not detected.  
--          Not applicable or not available.  
6E-06       6 x 10<sup>-6</sup>.  
B(a)P-TE   Benzo(a)pyrene toxic equivalents.  
cPAH        Carcinogenic polycyclic aromatic hydrocarbons.  
TCDD-TE    2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.

- /a/ See Section 6.3 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 6.1a.
- /c/ Estimated daily dose (see Appendix B for explanation). The EDD for zinc was compared to the Recommended Daily Allowance (RDA) for zinc of 5 to 10 mg/day (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 C13 in Appendix C for development of screening values.
- /f/ Antimony and cadmium were not detected in shallow (0-2 feet bgs) NQTP soil in the background soil analysis. Any site-related detection of these metals therefore exceeds background.
- /g/ Evaluated as chromium III. Chromium VI was not detected.
- /h/ Total cPAH was quantitatively evaluated in the risk assessment as the noncarcinogenic component of B(a)P-TE, which was selected as a COPC.

**Table 6.5. Selection of COPCs for Chemicals Detected in Surface Soil (0 feet bgs) /a/  
Site 31, South Slope  
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	0.34	ND /f/	--	--	0.001	--	NO
Arsenic	1.20	3.40	--	--	--	--	NO
Beryllium	0.32	0.35	--	--	--	--	NO
Cadmium	1.00	ND /f/	--	--	0.003	2E-05	YES
Chromium (total) /g/	17.10	46.1	--	--	--	--	NO
Copper	18.50	18.2	--	--	0.0007	--	NO
Lead	166.00	51.8	--	240	--	--	NO
Mercury	0.08	0.12	--	--	--	--	NO
Nickel	7.20	58	--	--	--	--	NO
TCDD-TE	1.84E-06	--	--	--	--	2E-07	YES
Zinc	188.00	75.8	0.038	--	--	--	NO

COPCs      Chemicals of potential concern.  
bgs          Below ground surface.  
mg/kg       Milligrams per kilogram.  
mb/day      Milligrams per day.  
ND          Not detected.  
--          Not applicable or not available.  
1.84E-06    1.84 x 10<sup>-6</sup>.  
TCDD -TE    2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.

**Table 6.5. Selection of COPCs for Chemicals Detected in Surface Soil (0 feet bgs) /a/  
Site 31, South Slope  
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	

/a/ See Section 6.3 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 6.2a.

/c/ Estimated daily dose (see Appendix B for explanation). The EDD for zinc was compared to the Recommended Daily Allowance (RDA) for zinc of 5 to 10 mg/day (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 C14 in Appendix C for development of screening values.

/f/ Antimony and cadmium were not detected in shallow (0-2 feet bgs) NQTP soil in the background soil analysis. Any site-related detection of these metals therefore exceeds background.

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

**Table 6.6. Selection of COPCs for Chemicals Detected in Surface Soil (0 feet bgs) /a/  
Site 31, LRTC Area  
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	0.51	ND /f/	--	--	0.002	--	NO
Arsenic	2.50	3.4	--	--	--	--	NO
Beryllium	0.34	0.35	--	--	--	--	NO
Chromium (total) /g/	16.20	46.1	--	--	--	--	NO
Copper	699.00	18.2	--	--	0.03	--	YES
Lead	79.90	51.8	--	240	--	--	NO
Mercury	0.07	0.12	--	--	--	--	NO
Nickel	14.40	58	--	--	--	--	NO
TCDD-TE	1.96E-05	--	--	--	--	2E-06	YES
Zinc	58.30	75.8	--	--	--	--	NO

COPCs      Chemicals of potential concern.  
bgs          Below ground surface.  
LRTC        Leadership Reaction Training Compounds.  
mg/kg       Milligrams per kilogram.  
mg/day      Milligrams per day.  
ND          Not detected.  
--          Not applicable or not available.  
TCDD -TE   2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
1.96E-05    1.96 x 10<sup>-5</sup>.

**Table 6.6. Selection of COPCs for Chemicals Detected in Surface Soil (0 feet bgs) /a/  
 Site 31, LRTC Area  
 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	

/a/ See Section 6.3 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 6.3a.

/c/ Because the maximum detected concentration of zinc is below background, no comparison with the essential nutrient estimated daily dose (EDD) was made.

/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 C15 in Appendix C for development of screening values.

/f/ Antimony was not detected in shallow (0-2 feet bgs) NQTP soil in the background soil analysis. Any site-related detection of this metal therefore exceeds background.

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

**Table 6.7. Site-Specific Intake Assumptions /a/  
Site 31  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

Site Area Scenario/Receptor	Intake Assumptions			
	Exposure Time ET (hours/day)	Fraction of Intake FI (unitless)	Exposure Frequency EF (days/year)	Exposure Duration ED (years)
<b>North Slope</b>				
<u>Average Exposure Scenario</u>				
Nearby Resident Trespasser (6 - 9 years)	0.66 /b/	0.16	48	3
<u>RME Scenario</u>				
Nearby Resident Trespasser (6 - 18 years)	0.66	0.33	96	12
<b>South Slope</b>				
<u>Average Exposure Scenario</u>				
Nearby Resident Trespasser (6 - 9 years)	0.66	0.16	48	3
<u>RME Scenario</u>				
Nearby Resident Trespasser (6 - 18 years)	0.66	0.33	96	12
<b>LTRC Area</b>				
<u>Average Exposure Scenario</u>				
Nearby Resident Trespasser (6 - 9 years)	0.66	0.16	48	3
<u>RME Scenario</u>				
Nearby Resident Trespasser (6 - 18 years)	0.66	0.33	96	12

RME Reasonable maximum exposure.

/a/ See Section 6.4.3 for explanation.

/b/ The ETs for each area sum to a total of 2 hours per day at Site 31.

**Table 6.8. Exposure Point Concentrations (EPCs) for Soil and Air  
Site 31, North Slope  
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 <sup>3</sup> )	Soil Concentration /c/ (mg/kg)	Air Concentration /b/ (mg/m <sup>3</sup> )
<u>Surface Soil (0 to 2 feet bgs)</u>				
Antimony	2.47E+00	2.84E-08	1.33E+01	1.53E-07
Arsenic	1.75E+00	2.01E-08	4.59E+00	5.28E-08
B(a)P-TE /d/	7.85E-02	9.03E-10	7.85E-02	9.03E-10
Beryllium	1.80E-01	2.07E-09	3.50E-01	4.03E-09
Cadmium	1.35E+00	1.55E-08	5.03E+00	5.78E-08
Copper	4.60E+01	5.29E-07	2.38E+02	2.74E-06
4,4'-DDE	2.01E-01	2.31E-09	9.95E-01	1.14E-08
4,4'-DDT	2.37E-01	2.73E-09	1.33E+00	1.53E-08
Lead	9.79E+02	1.13E-05	8.31E+03	9.56E-05
TCDD-TE	8.24E-06	9.48E-14	2.81E-05	3.23E-13
Total cPAH /d/	2.03E-01	2.33E-09	2.03E-01	2.33E-09

RME Reasonable maximum exposure.  
mg/kg Milligrams per kilogram.  
mg/m<sup>3</sup> Milligrams per cubic meter.  
bgs Below ground surface.  
2.47E+00 2.47 x 10<sup>0</sup>.  
B(a)P-TE Benzo(a)pyrene toxic equivalents.  
TCDD-TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
cPAH Carcinogenic polycyclic aromatic hydrocarbons.  
PM10 Particulates with a diameter less than or equal to 10 microns.

/a/ Arithmetic mean.  
/b/ Air concentration (mg/m<sup>3</sup>) = soil concentration (mg/kg) x site-specific PM10 (1.15E-2 mg/m<sup>3</sup>) x conversion factor (1E-6 kg/mg).  
/c/ Lesser of the maximum concentration and 95 percent upper confidence limit of the arithmetic mean.  
/d/ For B(a)P-TE and total cPAH, the maximum concentration was used to evaluate both the average and RME scenarios (see Sections 6.2 and 6.4.4).

**Table 6.9. Exposure Point Concentrations (EPCs) for Soil and Air  
Site 31, South Slope  
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 <sup>3</sup> )	Soil Concentration /c/ (mg/kg)	Air Concentration /b/ (mg/m <sup>3</sup> )
<u>Surface Soil (0 feet bgs)</u>				
Cadmium	5.10E-01	5.87E-09	8.60E-01	9.89E-09
TCDD-TE	4.10E-07	4.72E-15	1.84E-06	2.12E-14

RME Reasonable maximum exposure.  
 mg/kg Milligrams per kilogram.  
 mg/m<sup>3</sup> Milligrams per cubic meter.  
 bgs Below ground surface.  
 TCDD-TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
 4.10E-07 4.10 x 10<sup>-7</sup>.  
 PM10 Particulates with a diameter less than or equal to 10 microns.

/a/ Arithmetic mean.

/b/ Air concentration (mg/m<sup>3</sup>) = soil concentration (mg/kg) x site-specific PM10 (1.15E-2 mg/m<sup>3</sup>) x conversion factor (1E-6 kg/mg).

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

**Table 6.10. Exposure Point Concentrations (EPCs) for Soil and Air  
Site 31, LRTC Area  
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 <sup>3</sup> )	Soil Concentration /c/ (mg/kg)	Air Concentration /b/ (mg/m <sup>3</sup> )
<u>Surface Soil (0 feet bgs)</u>				
Copper	5.73E+01	6.59E-07	4.35E+02	5.00E-06
TCDD-TE	6.71E-06	7.72E-14	1.96E-05	2.25E-13

LRTC Leadership Reaction Training Compound.  
RME Reasonable maximum exposure.  
mg/kg Milligrams per kilogram.  
mg/m<sup>3</sup> Milligrams per cubic meter.  
bgs Below ground surface.  
TCDD -TE 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents.  
5.73E+01 5.73 x 10<sup>+1</sup>  
PM10 Particulates with a diameter less than or equal to 10 microns.

/a/ Arithmetic mean.

/b/ Air concentration (mg/m<sup>3</sup>) = soil concentration (mg/kg) x site-specific PM10 (1.15E-2 mg/m<sup>3</sup>) x conversion factor (1E-6 kg/mg).

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

**Table 6.11. Total Hazard Index for the Nearby Resident Trespasser Receptor /a/  
Site 31, All Areas  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

<u>Scenario</u> Site Area	Ingestion of Soil	Dermal Contact with Soil	Inhalation of Dust	Total HI by Area
<u>Average Exposure Scenario</u>				
North Slope	0.0007	0.00008	0.000001	0.0008
South Slope	0.00004	<0.000001	<0.000001	0.00004
LRTC Area	0.00007	0.000004	<0.000001	0.00007
Total	0.0008	0.00008	0.000001	0.0009
<u>RME Scenario</u>				
North Slope	0.01	0.003	0.000001	0.02
South Slope	0.0004	0.000005	<0.000001	0.0004
LRTC Area	0.002	0.0004	0.000001	0.003
Total	0.02	0.004	0.000002	0.02

HI Hazard Index.  
LRTC Leadership Reaction Training Compound.  
RME Reasonable maximum exposure.

/a/ Chemical-specific HIs are presented in Tables E47 through E52 in Appendix E.  
HIs are reported to 1 significant figure.

**Table 6.12. Total Cancer Risks for the Nearby Resident Trespasser Receptor /a/  
Site 31, All Areas  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

<u>Scenario</u> Site Area	Ingestion of Soil	Dermal Contact with Soil	Inhalation of Dust	Total Risk by Area
<u>Average Exposure Scenario</u>				
North Slope	1.11E-08	3.24E-09	1.39E-10	1E-08
South Slope /a/	4.92E-11	7.50E-12	2.13E-11	8E-11
LRTC Area	8.05E-10	1.23E-10	2.78E-12	9E-10
Total	1.20E-08	3.37E-09	1.63E-10	2E-08
<u>RME Scenario</u>				
North Slope	5.03E-07	2.63E-07	2.36E-09	8E-07
South Slope /a/	4.25E-09	1.49E-09	2.03E-10	6E-09
LRTC Area	4.52E-08	1.58E-08	4.52E-11	6E-08
Total	5.52E-07	2.80E-07	2.61E-09	8E-07
LRTC	Leadership Reaction Training Compound			
RME	Reasonable maximum exposure.			
8.72E-09	8.72 x 10 <sup>-9</sup> .			

/a/ Chemical-specific risks are presented in Tables E47 through E52 in Appendix E.

**Table 6.13. Summary of Model-Predicted Blood-Lead Levels from Multipathway Exposures  
Site 31, North Slope  
Volume III - Baseline Risk Assessment, Basewide RI/FS  
Fort Ord, California**

<u>Model Application, Name</u> Receptor	Blood-Lead Level ( $\mu\text{g}/\text{dl}$ )			
	Average		RME	
	95th Percentile	99th Percentile	95th Percentile	99th Percentile
<u>Child Receptor, LEADSPREAD Model /a/</u>				
Offsite Nearby Resident Trespasser (6 - 9 years)	4.12	5.25	12.64	16.10
Offsite Nearby Resident Trespasser (6 - 18 years)	4.12	5.25	12.64	16.10

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

/a/ LEADSPREAD Model outputs are presented in Tables F17 and F18 in Appendix F.