Table 6.4. Terrestrial Plant Screening Assessment
Morning Star Mine
Mojave National Preserve, California

	Leach Pad No. 1				Leach Pad No. 2				
	Pregnant Pond (Near Fence Line Along Runoff Path)		Northeast End at 12"	Northwest End at 12"	South Side			20 Feet South of Slope Failure	
Analyte (mg/kg)	3/2/00	5/24/01	5/24/01	5/24/01	2/99	3/2/00	5/24/01	3/2/00	5/24/01
Total Cyanide	<0.5	<0.5	<0.5	<0.5	14	2.61	6.2	<0.5	<0.5
WAD Cyanide	NA[b]	<0.5	1.1	1.7	12	0.673	0.77	NA[b]	<0.5
Arsenic	<10	<5.8	<5.2	<5.5	ND	<10	<5.1	<10	<5.4
Antimony	<6.0	<9.6	<8.6	<9.1	ND	<6.0	<6.0	<6.0	<8.9
Barium	15.3	40	34	57	20	23.7	25	16.8	29
Beryllium	0.14	0.33	0.24	0.35	ND	0.36	0.32	0.20	0.31
Cadmium	<1.0	<0.96	<086	1.7	ND	1.3	1.6	<1.0	<0.89
Chromium	1.5	3.4	1.1	0.91	1.5	<1.0	1.4	1.6	3.7
Cobalt	2.4	2.6	4.7	2.9	6.6	7.2	3.3	1.3	2.1
Copper	8.2	27	120	220	130	136	130	9.1	2.9
Lead	22.1	52	360	300	450	1160	560	69.3	<6.7
Mercury	<0.02	<0.018	<0.02	0.027	ND	0.101	<0.02	<0.02	<0.02
Molybdenum	<2.0	2.3	3.3	9	ND	3.6	4.4	<2.0	3.7
Nickel	<3.0	<2.9	<2.6	5	ND	<3.0	<2.5	<3.0	3.6
Selenium	<10.0	<9.6	<8.6	<9.1	ND	<10.0	<8.5	<10.0	<8.9
Silver	<0.7	<0.67	<0.60	<0.64	ND	<0.7	<0.59	<0.7	<0.62
Thallium	<10	<9.6	<8.6	<9.1	ND	<10	<8.5	<10	<8.9
Vandium	5.4	12	<0.86	<0.91	ND	<1.0	<0.85	4.7	9.4
Zinc	11.4	25	30	54	41	37	54	15.9	16

mg/kg	Milligrams per kilogram (equivalent to parts per million).
<1.0	Not detected at indicated reporting limit.
NA	Not analyzed.
na	Not available.
ND	Not detected. No detection limit found.
ORNL	Oak Ridge National Laboratory
WAD	Weak acid dissociable.

[a] From: Efroymson et al, 1997a.

[b] Total cyanide is non-detect, therefore WAD cyanide would also be non-detect.

[c] From: Bradford et al., 1996. Only data from San Bernadino County used.

Exceeds background range and plant screening value.

Table 6.4. Terrestrial Plant Screening Assessment
Morning Star Mine
Mojave National Preserve, California

Analyte (mg/kg)	West End at 12" 5/24/01	East End at 12" 5/24/01	East Side (Below Failure) 3/2/00	Waste Rock Pile 3/2/00	Waste Rock Pile 5/24/01	Waste Rock Pile Drainage Below 5/24/01	Range of Background Concentrations [c]	ORNL Plant Screening Levels[a] (mg/kg)
Total Cyanide	1.3	5.7	<0.5	<0.5	0.85	<0.5	na	na
WAD Cyanide	0.55	<0.5	NA[b]	NA[b]	<0.5	NA[b]	na	na
Arsenic	<5.7	<5.8	<10	<10	<5.8	<5.3	1 - 3.8	10
Antimony	<9.4	<9.6	<6.0	<6.0	<9.6	<8.0	0.16 - 0.33	5
Barium	57	20	18.8	36.6	120	39	571 - 710	500
Beryllium	0.53	0.33	0.28	0.38	0.98	0.49	0.68 - 1.91	10
Cadmium	2.8	1.9	<1.0	1.8	3.8	<0.88	0.05 - 0.32	4
Chromium	<0.94	<0.96	2.37	2.16	1	1.6	23 - 67	1
Cobalt	4.1	4.9	0.95	4.1	11	2.5	8 - 11.6	20
Copper	180	95	3.5	31.9	140	9.2	11.3 - 15.1	100
Lead	970	700	16.4	350	540	110	13.2 - 26.7	50
Mercury	<0.02	<0.02	<0.02	0.055	<0.02	<0.018	0.1 - 0.32	0.3
Molybdenum	5.5	3.1	<2.0	3.1	4	<1.8	0.1 - 1	2
Nickel	<2.8	<2.9	<3.0	3.3	5.3	<2.6	12 - 30	30
Selenium	<9.4	<9.6	<10.0	<10.0	<9.6	<8.8	0.015 - 0.02	1
Silver	0.66	<0.67	<0.7	<0.7	0.87	<0.61	0.12 - 0.28	2
Thallium	<9.4	<9.6	<10	<10	13	<8.8	0.38 - 0.77	1
Vandium	1.6	<0.96	8.9	2.3	1.1	9.2	74 - 85	2
Zinc	53	67	15.2	70.2	51	52	92 - 154	50

mg/kg	Milligrams per kilogram (equivalent to parts per million).
<1.0	Not detected at indicated reporting limit.
NA	Not analyzed.
na	Not available.
ND	Not detected. No detection limit found.
ORNL	Oak Ridge National Laboratory
WAD	Weak acid dissociable.

[a] From: Efroymson et al, 1997a.

[b] Total cyanide is non-detect, therefore WAD cyanide would also be non-detect.

[c] From: Bradford et al., 1996. Only data from San Bernadino County used.

Exceeds background range and plant screening value.