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RECLAMATION & CLOSURE PLAN

FOR THE

DRUM MINE

MILLARD COUNTY, UTAH

December 1998

Prepared for
Western States Minerals Corporation

Prepared by
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JUMBO COST ESTIMATION SUMMARY TABLE

Reclamation Responsibility	Area Description	Earthwork / Recontouring	Revegetate Stabilization	Reclamation Activities (Other)
DOGM/JUMBO	HG1	$9,949	$4,978	-
DOGM/JUMBO	HG2	$7,222	$4,641	-
DOGM/JUMBO	HG3	$8,989	$4,725	-
DOGM/JUMBO	HG4&5	$28,312	$10,397	-
DOGM/JUMBO	HG1-RAMP	$2,728	$1,446	-
DOGM/JUMBO	W4	$5,528	$1,716	-
DOGM/JUMBO	SW EX PIT	$8,846	$2,203	-
DOGM/JUMBO	NR PIT	$8,571	$1,844	-
DOGM/JUMBO	POND/FACIL	$77,956	$8,049	-
DOGM/JUMBO	OTHER ROADS	$3,001	$674	-
DOGM/JUMBO	BORROW	$4,764	$9,870	-
DOGM/JUMBO	MONITORING	-	-	$2,893
DOGM/JUMBO	REMOVE FACILITY	-	-	$49,720
DOGM/JUMBO	MOB - DEMOB	-	-	$10,000
DOGM/JUMBO	SUPERVISION	-	-	$19,915
DOGM/JUMBO	FINAL REPORT	-	-	$869
DOGM/JUMBO	**TOTAL**	**$165,866**	**$50,543**	**$83,397**
Engineering & Contingency (10%)=		**$29,981**		

Total DOGM/JUMBO cost for Drum Mine reclamation: **= $329,787**

TOTAL DRUM MINE RECLAMATION: **= $769,065**

APPENDIX B

Characterization Sampling Laboratory Results
and
Summary Tables

TABLE B-1 Spent Ore Heaps Characterization Results
TABLE B-2 Waste Dump Characterization Results
TABLE B-3 Process Facilities Characterization Results
TABLE B-4 Soil Characterization Results

LABORATORY RESULTS:

MWMP Profile II Results - All Heaps
WAD Cyanide (mg/kg) and Moisture Percent - All Heaps and Pond Solids
ANP/AGP Results - All Heaps and Waste Dumps
NDEP Profile II Results - Pregnant and Barren Pond Solution
NDEP Profile II Results - Heap Perimeter Soil Samples (4)
Hydraulic Conductivity Testing Results - All Heaps
Soil Test Results - All Nine (9) Tests

TABLE B-1
WESTERN STATES MINERALS CORPORATION
SPENT ORE HEAPS CHARACTERIZATION RESULTS

PARAMETER	Limit	LG1	LG2-1	LG2-2	LG2-3	LG3-1	LG3-2	LG3-3	HG1-1	HG1-2	HG2-1	HG2-2	HG3-1	HG3-2	HG4&5-1	HG4&5-2	HG4&5-3	HG6-1	HG6-2	HG7-1	HG7-2	HG7-3	HG7-4
pH	6.5-8.5	7.91	8.36	8.73	7.64	8.27	7.44	7.77	9.03	8.77	8.65	8.95	7.66	7.51	8.21	8.58	8.21	7.06	7.58	8.69	7.8	8.92	8.36
Alkalinity, CaCO3		46	44	41	52	34	36	58	93	64	47	74	100	66	92	90	96	48	45	66	50	65	44
Bicarbonate		56	51	46	63	41	40	71	94	68	48	76	122	80	112	110	117	59	55	71	61	62	51
Aluminum		0.16	1.2	1.8	0.22	0.3	0.36	0.86	1.4	0.12	0.06	0.04	1.2	0.78	1.1	0.4	1.8	3.2	0.82	2.3	0.52	2.9	0.16
Antimony		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Arsenic	0.05	0.005	0.024	0.045	<0.005	0.025	<0.005	0.023	0.094	0.028	0.014	0.021	0.096	0.083	0.081	0.016	0.013	0.028	0.039	0.056	0.022	0.19	0.055
Barium	2	0.11	0.2	0.18	0.08	0.26	0.12	0.14	0.18	0.18	0.16	0.16	0.15	0.19	0.17	0.16	0.18	0.23	0.21	0.28	0.13	0.24	0.19
Beryllium		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron		0.17	0.12	0.14	0.07	0.15	0.08	0.18	0.21	0.15	0.1	0.21	0.2	0.17	0.16	0.19	0.17	0.15	0.12	0.33	0.09	0.19	0.09
Cadmium	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Calcium		38	3.5	3.1	83	5	40	3.8	1.7	2.3	2.3	1.6	5.1	2.9	6.7	2.3	5.3	5.5	4.5	7.4	4.3	6.7	3.3
Chloride	250	60	70	45	140	29	99	38	43	57	44	73	10	16	22	57	1.4	1.3	1.2	77	35	46	95
Chromium	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper	1.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.04	0.03	<0.01	0.06	0.02	0.02	0.01	<0.01	0.01	<0.01
Fluoride	2	0.85	0.47	0.53	0.2	0.31	0.35	0.58	0.82	0.96	0.38	0.62	0.57	0.28	0.33	0.58	0.35	0.32	0.27	0.82	0.4	0.66	0.58
Iron	0.3	<0.05	0.31	0.76	<0.05	0.11	<0.05	0.12	0.94	0.06	<0.05	<0.05	0.56	0.39	0.72	0.2	0.99	2.1	0.53	1.1	0.07	0.86	0.11
Lead	0.015	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.007	<0.002	<0.002	<0.002	0.003	0.004	0.006	<0.002	0.006	0.019	0.005	0.018	<0.002	0.011	<0.002
Magnesium	125	7.9	0.6	<0.5	15	0.8	6.2	0.6	0.8	0.5	<0.5	<0.5	0.8	0.7	1.4	<0.5	1.5	2.2	1.1	1.9	0.8	1.7	0.7
Manganese	0.05	0.02	<0.01	0.01	0.48	<0.01	0.02	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	0.03	0.04	0.01	0.02	<0.01	0.03	<0.01
Mercury	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel		<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate Nitrogen	10	<1	3.6	1.8	4.1	<1	3.1	1.2	1.1	2.2	1.7	1.7	<1.0	<1.0	<1.0	1.1	<1.0	<1	<1	4.6	1.7	1.3	5.1
Nitrite Nitrogen		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Potassium		2.4	2.1	1.6	3.5	1.7	2	1.9	2.7	2	1.7	1.9	1.9	2	2.2	2	2.3	1.6	1	3.5	1.3	2.2	2
Selenium	0.05	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sodium		63	87	56	160	43	140	73	64	91	68	100	65	48	41	92	37	18	17	110	60	70	110
Sulfate	250	190	55	40	400	45	240	93	29	53	30	44	18	13	16	31	7	8	7	42	87	32	80
Thallium		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	0.001
TDS	500-1000	630	320	310	840	210	730	300	290	280	130	200	190	110	180	500	200	67	60	350	260	290	370
Cyanide, WAD	0.2	<0.01	0.018	0.013	0.011	0.014	0.021	<0.01	0.01	0.021	0.026	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	0.051	0.03	0.031	0.044
Zinc	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	0.06	<0.05	0.08	<0.05	0.06	<0.05
Bismuth		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cobalt		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Gallium		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Lithium		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Molybdenum		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Phosphorus		0.9	0.86	<0.5	0.92	<0.5	0.98	<0.5	<0.5	0.73	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.96	<0.5	0.73
Scandium		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Strontium		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tin		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Titanium		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vanadium		<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Moisture, %		2.1	3.5	5.3	6	5.4	6.1	4.2	7	7.4	7	7.5	5.8	5.2	5.7	5.8	5.5	3.2	3.3	6.4	3.1	1.4	3.8
Cyanide, WAD mg/kg		<0.05	0.3	<0.05	<0.05	<0.05	<0.05	2.6	0.41	0.73	0.49	0.43	<0.05	0.34	0.34	0.32	<0.05	<0.05	<0.05	0.52	0.3	<0.05	0.3
Neutralization Potential		90	10	49	1	50	59	57	103	277	178	99	23	12	7	50	29	3	7	38	52	48	16
Acid Gen. Potential		13	25	12	32	26	11	4.1	2.2	5.6	13	6.3	8.1	9.1	4.7	7.2	13	1.3	5	16	14	6.9	28
Ratio NP/AP	<3	6.9	0.4	4.1	0.0	1.9	5.4	13.9	46.8	49.5	13.7	15.7	2.8	1.3	1.5	6.9	2.2	2.3	1.4	2.4	3.7	7.0	0.6
Acid Gen. Sulf. Poten.			5		8.4	10							1.3	1.6	0.3		0.3	0.3	0.3	0.3			3.4
Ratio NP/APS	<3		2.0		0.1	5.0							17.7	7.5	23.3		96.7	10.0	23.3	126.7			4.7
Hydraulic Conductivity Testing:																							
Initial Moisture, %		2.7	1.5	2.7	5.8	5.7	7	4.9	8.3	7.3	6	6.7	6.3	3.3	5.1	5.1	4.4	2.6	3.1	4.5	4.2	1.8	4.4
Final Moisture, %		12.8	11.4	13	16.1	12.3	14.4	12.1	14.2	14.1	15.4	13.8	9.6	8.1	10.4	7.7	7.6	11.9	14.4	7.1	12.7	11.2	13.6
Start Dry Density, pcf		86.5	86	87.4	78.2	78.8	79.7	82.8	77.7	78	75.9	73	78	84.1	82	82.2	81.3	85.6	87.6	89.8	89.9	90	85
Final Dry Density, pcf		106.3	104	109.3	87.2	86.9	104.5	104.5	113	108.3	110.8	111.4	96.3	96.9	103.3	97.8	98.8	98	113.9	102.8	111.9	109.5	107.2
Final Porosity		0.301	0.32	0.234	0.419	0.41	0.31	0.31	0.258	0.305	0.29	0.278	0.368	0.374	0.335	0.353	0.361	0.365	0.266	0.332	0.226	0.309	0.28
Hydraulic Cond., cm/sec		$1.5x10^{-1}$	$1.5x10^{-1}$	$2.2x10^{-2}$	$5.1x10^{-2}$	$1.7x10^{-1}$	$1.1x10^{-2}$	$1.3x10^{-1}$	$1.1x10^{-2}$	$1.5x10^{-2}$	$7.1x10^{-5}$	$7.4x10^{-5}$	$1.8x10^{-2}$	$9.5x10^{-2}$	$5.5x10^{-2}$	$1.1x10^{-1}$	$1.6x10^{-1}$	$9.0x10^{-2}$	$8.0x10^{-2}$	$7.8x10^{-2}$	$6.3x10^{-2}$	$1.6x10^{-1}$	$2.0x10^{-2}$
Specific Retention		0.218	0.19	0.228	0.225	0.171	0.241	0.203	0.257	0.245	0.273	0.246	0.148	0.126	0.121	0.172	0.12	0.187	0.262	0.117	0.227	0.197	0.234

Note: Shading indicates an exceedance.

TABLE B-2
WESTERN STATES MINERALS CORPORATION
WASTE DUMP CHARACTERIZATION RESULTS

PARAMETER	Limit	W1	W2	W3	W7
Neutralization Potential		332	706	64	144
Acid Gen. Potential		15	2.5	11	60
Ratio NP/AP	<3	22.1	282.4	5.8	2.4
Acid Gen. Sulf. Poten.					29
Ratio NP/APS	<3				5.0

Note: Shading indicates an exceedance.

TABLE B-3
WESTERN STATES MINERALS CORPORATION
PROCESS FACILITIES CHARACTERIZATION RESULTS

PARAMETER	Limit	PREG Solids	BARREN Solids	PREG Water	BARREN Water
pH	6.5-8.5	8.29	12.09	9.27	10.23
Alkalinity, CaCO3		358	1900	90.4	771
Bicarbonate		437	0	279	350
Aluminum		0.073	<0.025	0.719	0.629
Antimony		<0.003	<0.003	<0.003	<0.003
Arsenic	0.05	0.08	<0.005	0.061	0.034
Barium	2	0.05	0.14	0.069	<0.02
Beryllium		<0.001	<0.001	<0.002	<0.002
Boron		0.46	4.9		
Cadmium	0.005	<0.002	<0.002	<0.002	<0.002
Calcium		14	700	16	3.62
Chloride	250	325	365	1360	1350
Chromium	0.1	<0.01	<0.01	<0.005	<0.005
Copper	1.3	0.02	0.32	0.013	0.085
Fluoride	2	0.98	1.9	1.4	2.5
Iron	0.3	<0.05	<0.05	0.374	0.309
Lead	0.015	<0.002	<0.002	0.015	<0.007
Magnesium	125	8.6	<25	14.1	6.11
Manganese	0.05	0.18	<0.01	0.041	0.013
Mercury	0.002	<0.0002	<0.0002	<0.0005	<0.0005
Nickel		0.01	<0.01	<0.02	<0.02
Nitrate Nitrogen	10	<1	<1	5.9	0.3
Nitrite Nitrogen		<0.5	<0.5	<0.1	<0.1
Potassium		15	29	7.36	15.8
Selenium	0.05	0.011	<0.005	0.036	0.032
Silver	0.1	<0.01	<0.01	<0.010	<0.010
Sodium		930	420	1110	1330
Sulfate	250	800	800	654	444
Thallium		<0.001	<0.001	<0.001	<0.001
TDS	500-1000	1940	940	3960	4520
Cyanide, WAD	0.2	<0.01	0.042	0.025	<0.025
Zinc	5	<0.05	<0.05	<0.05	<0.05
Bismuth		<0.5	<0.5	<0.2	<0.2
Cobalt		<0.5	<0.5	0.046	0.034
Gallium		<0.5	<0.5	<0.05	<0.05
Lithium		<0.5	<0.5	0.059	0.038
Molybdenum		<0.25	<0.25	0.032	0.055
Phosphorus		<0.5	<0.5	<0.05	<0.05
Scandium		<0.5	<0.5	<0.002	<0.002
Strontium		<0.5	<0.5	0.375	0.036
Tin		<0.5	<0.5	<0.05	<0.05
Titanium		<0.1	<0.1	0.005	<0.005
Vanadium		<0.15	<0.15	<0.02	<0.02
Cyanide, WAD mg/kg		<.2	110		

Note: Shading indicates an exceedance

TABLE B-4
WESTERN STATES MINERALS CORPORATION
SOIL CHARACTERIZATION RESULTS

PARAMETER	Limit	HG1 EDGE	HG2 EDGE	HG3 EDGE	HG6 EDGE	SOIL #1	SOIL #2	SOIL #3	SOIL #4	SOIL #5	SOIL #6	SOIL #7	SOIL #8	SOIL #9
pH	6.5-8.5	8.07	8.36	8.18	8.38									
Alkalinity, CaCO3		142	165	173	140									
Bicarbonate		173	189	211	171									
Aluminum		0.53	0.35	0.5	<0.025									
Antimony		<0.003	<0.003	<0.003	<0.003									
Arsenic	0.05	<0.005	<0.005	0.029	0.054									
Barium	2	0.15	0.06	0.08	0.03									
Beryllium		<0.001	<0.001	<0.001	<0.001									
Boron		2.1	2.2	0.14	0.3									
Cadmium	0.005	<0.003	<0.003	<0.003	<0.003									
Calcium		580	140	250	9									
Chloride	250	2130	180	1215	130									
Chromium	0.1	<0.01	<0.01	<0.01	<0.01									
Copper	1.3	<0.01	0.01	0.02	0.01									
Fluoride	2	1.8	1.5	0.56	0.69									
Iron	0.3	<0.05	<0.05	<0.05	<0.05									
Lead	0.015	<0.002	<0.002	<0.002	<0.002									
Magnesium	125	75	12	39	1									
Manganese	0.05	<0.01	<0.01	<0.01	<0.01									
Mercury	0.002	<0.0002	<0.0002	<0.0002	<0.0002									
Nickel		<0.01	0.02	0.04	<0.01									
Nitrate Nitrogen	10	30	12	<1	1.2									
Nitrite Nitrogen		<0.5	<0.5	<0.5	<0.5									
Potassium		28	23	10	13									
Selenium	0.05	<0.005	<0.005	<0.005	<0.005									
Silver	0.1	<0.01	<0.01	<0.01	<0.01									
Sodium		170	840	860	78									
Sulfate	250	1940	1930	780	100									
Thallium		<0.001	<0.001	<0.001	<0.001									
TDS	500-1000	6600	3380	3410	430									
Cyanide, WAD	0.2	0.072	<0.005	0.01	0.012									
Zinc	5	<0.05	<0.05	<0.05	<0.05									
Bismuth		<0.5	<0.5	<0.5	<0.5									
Cobalt		<0.5	<0.5	<0.5	<0.5									
Gallium		<0.5	<0.5	<0.5	<0.5									
Lithium		<0.5	<0.5	<0.5	<0.5									
Molybdenum		<0.25	<0.25	<0.25	<0.25									
Phosphorus		0.84	0.77	<0.5	0.98									
Scandium		<0.5	<0.5	<0.5	<0.5									
Strontium		6.4	1.7	2.8	<0.5									
Tin		<0.5	<0.5	<0.5	<0.5									
Titanium		<0.1	<0.1	<0.1	<0.1									
Vanadium		<0.15	<0.15	<0.15	<0.15									
Soil Test Results:														
Texture						Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Loamy Sand	Loamy Sand	Sandy Loam	Sandy Loam
Lime						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
pH						8.2	8	8.7	8.4	8.1	7.9	8.5	8	8.1
Salinity - Ece (mmhos/cm)						0.4	0.4	0.7	5.6	0.3	4.6	1.4	20	1.4
Phosphorus						2.2	1	2.5	1.3	1.9	1.6	1.6	3.2	2.4
Potassium						174	80	97	81	179	46	111	57	218
Nitrate - Nitrogen						2.8	1.5	1.5	9.3	1.5	1.3	5.2	6	24.2
SAR						3	0.69	15	24	2.36	7.58	15	36	2.78
Organic Matter, %						0.76	0.68	0.51	0.43	0.83	0.31	0.58	0.49	0.51
CEC, meq/100g						16.2	13.8	19.5	12.3	15.9	30.1	21	9.3	9.3
Sodic						NO	NO	YES	YES	NO	NO	YES	YES	NO

Note: Shading indicates an item of concern.

TABLE C-1
DRUM MINE RECLAMATION AND CLOSURE
RESULTS SUMMARY OF HYDROLOGIC EVALUATION
METHOD: HELP MODEL VERSION 3.05a (5 JUNE 1996)

SUMMARY TABLE - TEN YEAR PERIOD
(inches)

ITEM DESCRIPTION	LG1	LG1 AND TOPSOIL	LG2	LG2 AND TOPSOIL	LG3	LG3 AND TOPSOIL	HG1	HG1 AND TOPSOIL	HG2	HG2 AND TOPSOIL	HG3	HG3 AND TOPSOIL	HG4&5	HG4&5 AND TOPSOIL	HG6	HG6 AND TOPSOIL	HG7	HG7 AND TOPSOIL
HEAP PARAMETERS:																		
Average Thickness (ft)	20	20	35	35	35	35	25	25	20	20	35	35	45	45	30	30	25	25
Field Capacity (vol/vol)	0.218	0.218	0.214	0.214	0.205	0.205	0.251	0.251	0.26	0.26	0.137	0.137	0.108	0.108	0.224	0.224	0.194	0.194
Sat. Hyd. Cond. (cm/sec)	0.15	0.15	0.074	0.074	0.1	0.1	0.013	0.013	7E-05	7E-05	0.056	0.056	0.138	0.138	0.085	0.085	0.08	0.08
Horizontal Area (acres)	3.5	3.5	7.1	7.1	5.4	5.4	6.9	6.9	7.3	7.3	6.5	6.5	12.7	12.7	2.3	2.3	7.4	7.4
TOPSOIL PARAMETERS:																		
Average Thickness (in)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Field Capacity (vol/vol)	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Sat. Hyd. Cond. (cm/sec)	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
HELP RESULTS:																		
Average Precipitation	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07
Average Runoff	0.014	0.114	0.014	0.115	0.015	0.117	0.017	0.116	0.019	0.117	0.016	0.117	0.016	0.117	0.013	0.118	0.015	0.116
Average Evapotranspiration	7.02	8.76	7.85	9.06	8.25	9.26	6.708	8.523	9.554	9.691	9.47	9.64	9.62	9.75	7.49	8.97	7.5	8.91
Average Percolation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Initial Water Storage - Heap	11.592	11.592	34.56	34.56	40.18	40.18	51.336	51.336	28.476	28.476	31.97	31.97	33.67	33.67	18.23	18.23	20.28	20.28
Final Water Storage - Heap	41.2	22.3	55.43	41.81	56.9	45.23	82.904	63.26	31.872	29.309	36.71	33.47	37.06	34.56	43.05	26.7	44.81	29.2
Final Water Storage - Heap (vol/vol)	0.172	0.093	0.132	0.1	0.136	0.108	0.23	0.176	0.133	0.122	0.087	0.08	0.069	0.064	0.12	0.074	0.149	0.097
Initial Water Storage - Topsoil		0.6		0.6		0.6		0.6		0.6		0.6		0.6		0.6		0.6
Final Water Storage - Topsoil		1.1		1.11		1.11		1.104		0.805		1.12		0.81		1.11		1.11
Final Water Storage - Topsoil (vol/vol)		0.184		0.185		0.185		0.184		0.134		0.187		0.135		0.185		0.185