M/019/005

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DIV. OF OIL, GAS & MINING

EarthFax

EarthFax
Engineering Inc.
Engineers/Scientists
7324 So. Union Park Ave.
Suite 100
Midvale, Utah 84047
Telephone 801-561-1555
Fax 801-561-1861

March 4, 1997

Mr. Rick Klein
Moab Salt
P.O. Box 1208
Moab, Utah 84532

RE: Reclamation Cost and Quantity Estimate, Moab Salt

Dear Rick:

Pursuant to your request, EarthFax Engineering, Inc. ("EarthFax") has made a reclamation cost and quantity estimate for the Moab Salt site (both plant and evaporation ponds) which is planned to be decommissioned and reclaimed in 15 years.

To assist in preparation of this estimate, a site visit was made in November 1996. During this site visit, the following activities were performed:

- Discussions with you
- Various inspections of the site
- File searches
- Numerous photos were taken
- Samples of various potential asbestos containing materials were obtained

Upon returning to Salt Lake City, the potential asbestos containing materials were submitted to Dixon Information Inc. for asbestos testing. A detailed study was then made of quantities and costs to reclaim the site.

Attached are the following:

- Appendix A contains the results of the asbestos tests as provided by Dixon Information Inc.
- Appendix B provides the detailed reclamation cost estimate.
- Appendix C provides a summary of salvage values, estimated debris quantities, etc.

The total volume of debris (if all goes into a landfill west of the existing dam southwest of the plant) is estimated to be approximately 62,000 CY. It seems advisable to remove the dam and let the drainage return to the original channel. The volume of earth in the existing dam is approximately 142,000 CY. If the debris is placed in the existing pond area and the dam is completely removed and used as a cover over the debris, it would cover an area of 13 acres 10 feet deep. This area is available, but if it were desired to cover fewer acres with the landfill, the depth, of course, would have to be increased accordingly. If the steel without asbestos were sold, or if other debris were placed in the shaft, it would reduce the volume in the landfill.

It is our understanding, that asbestos that is not friable, can be placed into a landfill such as is proposed on the site.

Numerous contacts indicated there is no market (therefore no salvageable value) for the wood trusses in the two product storage warehouses.

No cost is included for an undetermined quantity of salt saturated soil that may have to be removed from below the liner in the evaporation ponds. Any shaft opening and reclosing costs are also not included. It is understood the road between the plant and the evaporation ponds will remain.

We hope this provides you with the information you need. If you have any questions, or if we can provide you with any additional information, please let us know.

Sincerely,

Kenneth T. Klebba
Civil Engineer

Enclosures

REGISTERED PROFESSIONAL ENGINEER
3-4-97
No. 5576
KENNETH T.
KLEBBA
STATE OF UTAH

DIXON INFORMATION INC.
MICROSCOPY, ASBESTOS ANALYSIS & CONSULTING
A.I.H.A. ACCREDITED LABORATORY #10847
NVLAP CODE 101012-0

December 4, 1996

Mr. Ken Klebba
Earthfax Engineering
7324 South Union Park Ave, Ste 100
Midvale, UT 84047

Ref: Batch #36748, Lab #A22683-A22697
Received December 3, 1996
Moab Salt, Proj #UC-89

Dear Mr. Klebba:

Samples A22683 through A22697 have been analyzed by visual estimation based on EPA-600/M4-82-020 December 1982 optical microscopy test method including phase contrast, polarized light, dispersion staining, and stereo microscopy. Accuracy increases with increasing asbestos concentration.

If these samples are related to a demolition or are subject to NESHAPS 40CFR part 61 regulations, these regulations mandate that any sample containing less than 1% asbestos must be analyzed by point count. If asbestos is reported to be between 1% and 10%, see EPA "Clarification of asbestos NESHAP requirements to perform point counting" (copy available).

This report relates only to the items tested. This report must not be used to claim product endorsement by the NVLAP, the National Institute of Standards and Technology, or any agency of the U.S. Government. The results of analysis are as follows:

Lab A22683, Field 1 Ceiling tile - Main office
This is a pink sample with 3% plant fiber, and 70% mineral wool in resin binder with a white coating on one side. **Asbestos is none detected.**

The white coating is less than 1% of the sample.

Lab A22684, Field 2 Floor tile - Main office
This is **10% chrysotile asbestos** in an off-white plastic and limestone tile.

Note: Asbestos is none detected in the black tar mastic.

The tile is greater than 99% of the sample. The mastic is less than 1% of the sample.

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Lab A22685, Field 3 Floor tile - Mine change house
This sample contains three types of material: The first type is 10% chrysotile asbestos in off-white plastic and limestone; the second type is black tar mastic; the third type is brown plaster leveling compound. This sample is non-homogeneous. The overall asbestos concentration is 10%.

The first type is 98% of the sample. The second type is 1% of the sample. The third type is 1% of the sample.

Lab A22686, Field 4 Ceiling tile - Mine change house
This is a light gray sample with 15% plant fiber, and 70% mineral wool in resin binder with a white coating on one side. Asbestos is none detected.

The white coating is less than 1% of the sample.

Lab A22687, Field 5 Coating on metal siding - Warehouse (green)
This sample contains three layers: The first layer is green paint; the second layer is 60% chrysotile asbestos, 15% plant fiber and 2% mineral wool in gray felt; the third layer is rust scale. This sample is non-homogeneous. The overall asbestos concentration is 36%.

The first type is 5% of the sample. The second type is 60% of the sample. The third type is 35% of the sample.

Lab A22688, Field 6 Ceiling tile - Lab
This is a pink sample with 20% plant fiber, and 65% mineral wool in resin binder with a white coating on one side. Asbestos is none detected.

The white coating is less than 1% of the sample.

Lab A22689, Field 7 Floor tile - Lab
This is 5% chrysotile asbestos in a gray plastic and limestone tile.

Note: No mastic.

Lab A22690, Field 8 Ceiling sprayed on insulation - Elec. Bldg
This is 75% off-white plant fiber with binder and brown particulate. Asbestos is none detected.

Lab A22691, Field 9 Crystallizer bldg siding coating (green)
This sample contains three layers: The first layer is green paint; the second layer is 60% chrysotile asbestos, 5% plant fiber and 5% mineral wool in gray and black felt; the third layer is rust scale. This sample is non-homogeneous. The overall asbestos concentration is 45%.

The first type is 5% of the sample. The second type is 75% of the sample. The third type is 20% of the sample.

Lab A22692, Field 10 Siding coating - Tailings treatment bldg (weathered)
This sample contains two types of material: The first type is 60% chrysotile asbestos and 2% mineral wool in black tar felt; the second type is tan paint. This sample is non-homogeneous. The overall asbestos concentration is 57%.

The first type is 95% of the sample. The second type is 5% of the sample.

Lab A22693, Field 11 Coating from metal siding - screening bldg (green)
This sample contains three layers: The first layer is green paint; the second layer is 60% chrysotile asbestos and 5% mineral wool in gray and black felt; the third layer is rust scale. This sample is non-homogeneous. The overall asbestos concentration is 36%.

The first type is 5% of the sample. The second type is 60% of the sample. The third type is 35% of the sample.

Lab A22694, Field 12 Coating from metal siding - Mill bldg (green)
This sample contains three layers: The first layer is green paint; the second layer is 60% chrysotile asbestos and 5% mineral wool in gray and black felt; the third layer is rust scale. This sample is non-homogeneous. The overall asbestos concentration is 36%.

The first type is 5% of the sample. The second type is 60% of the sample. The third type is 35% of the sample.

Lab A22695, Field 13 Furnace insulation
This is 80% mineral wool with brown particulate. Asbestos is none detected.

Lab A22696, Field 14 Pipe coating (7) Photo 68
This is 90% fiberglass in white binder. Asbestos is none detected.

Batch #36748
Lab #A22683-A22697
Page 4

Lab A22697, Field 15 Approximately 6" of approximately 2" I.D. pipe (reddish)
This is 10% chrysotile asbestos and 10% crocidolite asbestos in gray cement.

Very truly yours,

Willard C. Dixon

Willard C. Dixon

Analyst: Russ Osguthorpe Russ Osguthorpe

Analyst: Steven H. Dixon Date: December 4, 1996

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost Per Unit	Material Cost Total	Equipment Cost Per Unit	Equipment Cost Total	Labor Cost Per Unit	Labor Cost Total	Project Cost Per Unit	Project Cost Total
	DEMOLITION										
1	PLANT OFFICE BUILDING	102,375	CF			0.18	18,427.50	0.07	7,166.25	0.25	25,593.75
	170 X 35 + 55 X 35 = 7875 SF										
	13' high										
	Use 8" concrete floor, Alternating translucent panels										
	Native red flagstone										
	(020-604-0100)										
	Concrete Pad 7,875 SF X 8/12'	195	CY			52.00	10,140.00	37.50	7,312.50	89.50	17,452.50
	(020-554-2200)										
	On-site disposal of concrete	824	CY			3.68	3,032.32	1.57	1,293.68	5.25	4,326.00
	(020-754-4200)										
2	MINE CHANGE HOUSE	182,000	CF			0.11	20,020.00	0.07	12,740.00	0.18	32,760.00
	140 X 35 + 70 X 60 = 9100 SF										
	Concrete block building										
	20' high										
	Use 8" concrete floor										
	(020-604-0080)										
	Concrete Pad 9,100 SF X 8/12'	225	CY			52.00	11,700.00	37.50	8,437.50	89.50	20,137.50
	(020-554-2200)										
	On-site disposal of concrete	1,149	CY			3.68	4,228.32	1.57	1,803.93	5.25	6,032.25
	(020-754-4200)										
3	HEAD FRAME TOWER										
	Concrete Portion	705,600	CF			0.06	56,446.00	0.05	35,280.00	0.13	91,726.00
	70' X 70' X (180 - 36) = 705,600 CF space										
	(020-604-0050) Use 60%										
	Steel Portion	360,000	CF			0.06	21,600.00	0.04	14,400.00	0.10	36,000.00
	100' X 100' X 36' = 360,000 CF space										
	(020-604-0012) Use 60%										
	On-site disposal of concrete	3,905	CY			3.68	14,370.40	1.57	6,130.85	5.25	20,501.25
	(020-754-4200)										
4	HEAD FRAME SWITCH GEAR BUILDING	53,625	CF			0.10	5,362.50	0.07	3,753.75	0.17	9,116.25
	55 X 65 = 3,575 SF										
	Use 15' high metal building										
	(020-604-0012)										
	Use 1' thick concrete floor										
	Concrete Pad 3,575 SF X 1'	133	CY			52.00	6,916.00	37.50	4,987.50	89.50	11,903.50
	(020-554-2200)										
	On-site disposal of concrete	133	CY			3.68	489.44	1.57	208.81	5.25	698.25
	(020-754-4200)										
5	OLD METAL BUILDING SE OF HEAD FRAME										
	SWITCHGEAR BUILDING	18,000	CF			0.10	1,800.00	0.07	1,260.00	0.17	3,060.00
	Use 60' X 30' = 1,800 SF										
	10' high, 8" concrete floor										
	(020-604-0012)										
	Concrete Pad 1,800 X 8/12'	45	CY			52.00	2,340.00	37.50	1,687.50	89.50	4,027.50
	(020-554-2200)										
	On-site disposal of concrete	45	CY			3.68	165.60	1.57	70.65	5.25	236.25
	(020-754-4200)										

GONE

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
6	MAIN SUB-STATION	38,250	CF			0.10	3,825.00	0.07	2,677.50	0.17	6,502.50
	30' X 85' = 2,550 SF										
	Use 15' high metal building										
	8" concrete floor										
	(020-604-0012)										
	Concrete Pad 2,550 CF X 8/12'	63	CY			52.00	3,276.00	37.50	2,362.50	89.50	5,638.50
	(020-554-2200)										
	On-site disposal of concrete	63	CY			3.68	231.84	1.57	98.91	5.25	330.75
	(020-754-4200)										
7	MILL BUILDING	1,048,800	CF			0.06	62,928.00	0.04	41,952.00	0.10	104,880.00
	230 X 60 = 13,800 SF										
	78' high										
	2' thick concrete floor										
	24" conveyor										
	36" conveyor										
	48" conveyor										
	Metal building has coated metal siding										
	(020-604-0012) Use 60%										
	Concrete Pad 13,800 X 2	1,023	CY			31.20	31,917.60	22.50	23,017.50	53.70	54,935.10
	(020-554-2200) Use 60%										
	On-site disposal of concrete	1,023	CY			3.68	3,764.64	1.57	1,606.11	5.25	5,370.75
	(020-754-4200)										
8	SCREENING AND COMPACTION BUILDING	421,750	CF			0.10	42,175.00	0.07	29,522.50	0.17	71,697.50
	85 X 55 + 45 X 30 = 6,025 SF										
	Use 70' high metal building with coated metal siding										
	2' thick concrete floor										
	Concrete Pad 6,025 X 2	447	CY			31.20	13,946.40	22.50	10,057.50	53.70	24,003.90
	(020-554-2200) Use 60%										
	On-site disposal of concrete	447	CY			3.68	1,644.96	1.57	701.79	5.25	2,346.75
	(020-754-4200)										
9	MACHINE SHOP	268,800	CF			0.06	16,128.00	0.04	10,752.00	0.10	26,880.00
	140 X 60 = 8,400 SF										
	32' high metal building has same metal coated siding as										
	warehouse No. 1										
	2' concrete floor										
	(020-604-0012) Use 60%										
	Concrete Pad 8,400 X 2	623	CY			31.20	19,437.60	22.50	14,017.50	53.70	33,455.10
	(020-554-2200) Use 60%										
	On-site disposal of concrete	623	CY			3.68	2,292.64	1.57	978.11	5.25	3,270.75
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
10	WAREHOUSE NO. 1	144,000	CF			0.10	14,400.00	0.07	10,080.00	0.17	24,480.00
	120 X 60 = 7,200 SF										
	Use 1.5' concrete floor										
	Metal frame building with coating on the metal siding										
	No insulation inside the building										
	Use 20' high										
	(020-604-0012)										
	Concrete Pad 7,200 X 1.5	400	CY			52.00	20,800.00	37.50	15,000.00	89.50	35,800.00
	(020-554-2200)										
	On-site disposal of concrete	400	CY			3.68	1,472.00	1.57	628.00	5.25	2,100.00
	(020-754-4200)										
11	WAREHOUSE NO. 2	70,200	CF			0.10	7,020.00	0.07	4,914.00	0.17	11,934.00
	60' X 90' = 5,400 SF										
	Metal building with no coating on the metal siding										
	Use 1' concrete floor										
	13' high										
	(020-604-0012)										
	Concrete Pad 5,400 X 1	200	CY			52.00	10,400.00	37.50	7,500.00	89.50	17,900.00
	(020-554-2200)										
	On-site disposal of concrete	200	CY			3.68	736.00	1.57	314.00	5.25	1,050.00
	(020-754-4200)										
12	LAB AND PLANT OFFICE	102,050	CF			0.11	11,225.50	0.07	7,143.50	0.18	18,369.00
	50 X 100 + 95 X 30 = 7,850 SF										
	13' high										
	Concrete block building										
	Use 8" thick concrete floor										
	(020-604-0080)										
	Concrete Pad 7,850 X 8/12"	194	CY			52.00	10,088.00	37.50	7,275.00	89.50	17,363.00
	On-site disposal of concrete	824	CY			3.68	3,032.32	1.57	1,293.68	5.25	4,326.00
	(020-754-4200)										
13	TAILINGS TREATMENT BUILDING	585,000	CF			0.06	35,100.00	0.04	23,400.00	0.10	58,500.00
	130 X 75 = 9,750 SF										
	60' high										
	Use 2' thick concrete floor										
	Metal building with coated metal siding										
	(020-604-0012) Use 60%										
	Concrete Pad 9,750 X 2	723	CY			31.20	22,557.60	22.50	16,267.50	53.70	38,825.10
	(020-554-2200) Use 60%										
	On-site disposal of concrete	723	CY			3.68	2,660.64	1.57	1,135.11	5.25	3,795.75
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
14	CRYSTALLIZER	250,000	CF			0.10	25,000.00	0.07	17,500.00	0.17	42,500.00
	Metal building with coated metal siding										
	No insulation inside										
	50' X 100' = 2,000 SF										
	Use 50' high										
	Use 2' thick concrete floor										
	(020-604-0012)										
	Concrete Pad 5,000 X 2	371	CY			52.00	19,292.00	37.50	13,912.50	89.50	33,204.50
	(020-554-2200)										
	On-site disposal of concrete	371	CY			3.68	1,365.28	1.57	582.47	5.25	1,947.75
	(020-754-4200)										
15	ELECTRICAL BUILDINGS	45,375	CF			0.10	4,537.50	0.07	3,176.25	0.17	7,713.75
	40' x 60' + 25 x 25 = 3,025 SF										
	Metal building										
	Larger building has insulation sprayed in the ceiling										
	No insulation in the walls										
	Small building has fiberglass insulation on inside walls										
	and ceiling										
	Use 8" concrete floors										
	Use 15' high/each										
	(020-604-0012)										
	Concrete Pad 3,025 X 8/12	75	CY			52.00	3,900.00	37.50	2,812.50	89.50	6,712.50
	(020-554-2200)										
	On-site disposal of concrete	75	CY			3.68	276.00	1.57	117.75	5.25	393.75
	(020-754-4200)										
16	PRODUCT STORAGE WAREHOUSE NO. 1	5,850,000	CF			0.03	175,500.00	0.02	117,000.00	0.05	292,500.00
	650 X 150 = 97,500 SF										
	Floor 2'3" thick concrete										
	33 Bays @ 20' each										
	Laminated timber arch										
	30" belt conveyors										
	Concrete roof supports approximately 20' high										
	Reclaim tunnel approximately 13' deep										
	Plow feeder										
	Conveyor on top										
	Approximately 80' high. Use average 60' for calculations										
	(020-604-0050) Use 20%										
	Concrete Pad 97,500 X 2 3/12	8,125	CY			26.00	211,250.00	18.75	152,343.75	44.75	363,593.75
	(020-554-2200) Use 50%										
	On-site disposal of concrete	12,000	CY			3.68	44,160.00	1.57	18,840.00	5.25	63,000.00
	(020-754-4200)										
17	PRODUCT STORAGE WAREHOUSE NO. 2	5,850,000	CF			0.03	175,500.00	0.02	117,000.00	0.05	292,500.00
	650 X 150 = 97,500 SF										
	(020-604-0050) Use 20%										
	Concrete Pad	8,125	CY			26.00	211,250.00	18.75	152,343.75	44.75	363,593.75
	(020-554-2200)										
	On-site disposal of concrete	12,000	CY			3.68	44,160.00	1.57	18,840.00	5.25	63,000.00
	(020-754-4200) Use 50%										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost Per Unit	Material Cost Total	Equipment Cost Per Unit	Equipment Cost Total	Labor Cost Per Unit	Labor Cost Total	Project Cost Per Unit	Project Cost Total
18	WAREHOUSE TRANSFER TOWERS (2)	100,000	CF			0.10	10,000.00	0.07	7,000.00	0.17	17,000.00
	25 X 25 = 625 X 2 = 1,250 SF										
	Use 80' high										
	Steel										
	(020-804-0012)										
	Use 2' thick floors										
	Concrete Pad 1,250 X 2	93	CY			52.00	4,836.00	37.50	3,487.50	89.50	8,323.50
	(020-554-2200)										
	On-site disposal of concrete	93	CY			3.68	342.24	1.57	146.01	5.25	488.25
	(020-754-4200)										
19	LOADOUT STRUCTURE NO. 1	84,000	CF			0.10	8,400.00	0.07	5,880.00	0.17	14,280.00
	40' X 30' = 1,200 SF										
	Use 2.5' concrete floor										
	Use 70' high										
	steel										
	(020-804-0012)										
	Concrete Pad 1,200 X 2.5	112	CY			52.00	5,824.00	37.50	4,200.00	89.50	10,024.00
	(020-554-2200)										
	On-site disposal of concrete	112	CY			3.68	412.16	1.57	175.84	5.25	588.00
	(020-754-4200)										
20	LOADOUT STRUCTURE NO. 2	84,000	CF			0.10	8,400.00	0.07	5,880.00	0.17	14,280.00
	40 X 30 = 1,200 SF										
	Use 2.5' concrete floor										
	Use 70' high										
	steel										
	(020-804-0012)										
	Concrete Pad 1,200 X 2.5	112	CY			52.00	5,824.00	37.50	4,200.00	89.50	10,024.00
	(020-554-2200)										
	On-site disposal of concrete	112	CY			3.68	412.16	1.57	175.84	5.25	588.00
	(020-754-2200)										
21	BAGGING BUILDING (N. OF LOADOUT STRUCTURE	529,200	CF			0.05	26,460.00	0.04	21,168.00	0.09	47,628.00
	NO. 1)										
	210' X 105' = 22,050 SF										
	24' high @ outside walls										
	Structural steel plate building										
	Use 2' Concrete floor										
	(020-804-0012) Use 50%										
	Concrete Pad 22,050 X 2	1,634	CY			26.00	42,484.00	18.75	30,637.50	44.75	73,121.50
	(020-554-2200) Use 50%										
	On-site disposal of concrete	1,634	CY			3.68	6,013.12	1.57	2,565.38	5.25	8,578.50
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost Per Unit	Material Cost Total	Equipment Cost Per Unit	Equipment Cost Total	Labor Cost Per Unit	Labor Cost Total	Project Cost Per Unit	Project Cost Total
22	WATER REAGENT ADDITION STRUCTURE	6,250	CF			0.10	625.00	0.07	437.50	0.17	1,062.50
	25 X 25 = 625 SF										
	Use 10' high										
	Metal building										
	6" floor										
	(020-604-0012)										
	Concrete Pad 625 X 8/12	16	CY			52.00	832.00	37.50	600.00	89.50	1,432.00
	(020-554-2200)										
	On-site disposal of concrete	16	CY			3.68	58.88	1.57	25.12	5.25	84.00
	(020-754-4200)										
23	WATER TREATMENT BUILDING	50,000	CF			0.10	5,000.00	0.07	3,500.00	0.17	8,500.00
	50 X 50 = 2,500 SF										
	Use 20' high										
	Metal building										
	6" floor										
	(020-604-0012)										
	Concrete Pad 2,500 X 8/12	62	CY			52.00	3,224.00	37.50	2,325.00	89.50	5,549.00
	(020-554-2200)										
	On-site disposal of concrete	62	CY			3.68	228.16	1.57	97.34	5.25	325.50
	(020-754-4200)										
24	RETARDER PUMP BUILDING	3,000	SF			0.10	300.00	0.07	210.00	0.17	510.00
	15 X 20 = 300 SF										
	Use 10' high										
	Metal										
	6" floor										
	(020-604-0012)										
	Concrete Pad 300 SF X 8/12	8	CY			52.00	416.00	37.50	300.00	89.50	716.00
	(020-554-2200)										
	On-site disposal of concrete	8	CY			3.68	28.44	1.57	12.56	5.25	42.00
	(020-754-4200)										
25	WATER INTAKE STRUCTURE	19,500	CF			0.10	1,950.00	0.07	1,365.00	0.17	3,315.00
	35 X 20 + 30 X 20 = 1,300 SF										
	Intake 30' deep X 5' Wide (concrete)										
	Use building 15' high										
	(020-604-0012)										
	Concrete Pad 1,300 X 8/12	33	CY			52.00	1,716.00	37.50	1,237.50	89.50	2,953.50
	(020-554-2200)										
	On-site disposal of concrete	189	CY			3.68	695.52	1.57	296.73	5.25	992.25
	(020-754-4200)										
26	FEED RECEIVING TANKS (ORE BINS) (3)	63,616	CF			0.10	6,361.60	0.07	4,453.26	0.17	10,815.06
	30' diameter										
	30' high										
	Steel tanks - Use equivalent metal building										
	Use 2' thick concrete floor										
	(020-604-0012)										
	Concrete Pad	105	CY			52.00	5,460.00	37.50	3,937.50	89.50	9,397.50
	(020-554-2200)										
	On-site disposal of concrete	105	CY			3.68	386.40	1.57	164.85	5.25	551.25
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
27	CONCRETE TANK (SW OF THE COARSE ORE BIN)	176	CY			52.00	9,152.00	37.50	6,600.00	89.50	15,752.00
	(020-554-2200)										
28	TAILINGS THICKNER										
	250' diameter										
	Asphalt plank bottom										
	Use 10' high										
	Steel in tank	26	TON					395.00	10,270.00	395.00	10,270.00
	(020-718-3600)										
	Asphalt plank bottom	1	EA							6,650.00	6,650.00
	(020-604-1320)										
29	PRE-SEDIMENTATION CLARIFIER	56,746	CF			0.11	6,242.06	0.07	3,972.22	0.18	10,214.28
	65' diameter										
	Concrete tank										
	Use 10' high										
	Use 8" concrete pad										
	(020-604-0080)										
	Concrete Pad 5,675 X 8/12	140	CY			52.00	7,280.00	37.50	5,250.00	89.50	12,530.00
	(020-554-2200)										
	On-site disposal of concrete	240	CY			3.68	883.20	1.57	376.80	5.25	1,260.00
	(020-754-4200)										
30	CLARIFLOCCULATOR	23,759	CF			0.11	2,613.49	0.07	1,663.13	0.18	4,276.62
	35' diameter										
	Concrete tank										
	Use 10' high										
	Use 8" concrete pad										
	(020-604-0080)										
	Concrete Pad 2,376 X 8/12	58	CY			52.00	3,016.00	37.50	2,175.00	89.50	5,191.00
	(020-554-2200)										
	On-site disposal of concrete	123	CY			3.68	452.64	1.57	193.11	5.25	645.75
	(020-754-4200)										
31	WATER STORAGE TANK	95,428	CF			0.10	9,542.80	0.07	6,679.62	0.17	16,222.42
	90' diameter steel tank, open top										
	Use 15' high										
	8" concrete pad										
	Use equivalent metal building										
	(020-604-0012)										
	Concrete Pad 6,362 X 8/12	158	CY			52.00	8,216.00	37.50	5,925.00	89.50	14,141.00
	(020-554-2200)										
	On-site disposal of concrete	158	CY			3.68	581.44	1.57	248.06	5.25	829.50
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost Per Unit	Material Cost Total	Equipment Cost Per Unit	Equipment Cost Total	Labor Cost Per Unit	Labor Cost Total	Project Cost Per Unit	Project Cost Total
32	SEWAGE TREATMENT PLANT	4,713	CF			0.10	471.30	0.07	329.91	0.17	801.21
	3 tanks										
	2 @ 10' diameter, 1 @ 20' diameter										
	Use 10' deep for all 3 tanks										
	Use equivalent metal building										
	Use 8" concrete floor										
	(020-504-0012)										
	Concrete Pad 472 SF X 8/12	12	CY			52.00	624.00	37.50	450.00	89.50	1,074.00
	(020-554-2200)										
	On-site disposal of concrete	12	CY			3.68	44.16	1.57	18.84	5.25	63.00
	(020-754-4200)										
33	ELEVATED (TANK ON GROUND) SANITARY WATER	59,904	CF			0.10	5,990.40	0.07	4,193.28	0.17	10,183.68
	STORAGE TANK										
	2 tanks (West of office)										
	Each 50' diameter steel										
	Use 15' high										
	8" concrete pad										
	(020-804-0012)										
	Concrete Pad 15,708 X 8/12	388	CY			31.20	12,105.60	22.50	8,730.00	53.70	20,835.60
	(020-554-2200) Use 60%										
	On-site disposal of concrete	388	CY			3.68	1,427.84	1.57	609.16	5.25	2,037.00
	(020-754-4200)										
34	TWO TANKS WEST OF THICKNER										
	1 tank 15' diameter X 15' high	2,651	CF			0.10	265.10	0.07	185.57	0.17	450.67
	8" concrete pad										
	(020-804-0012)										
	1 tank 10' diameter X 10' high	786	CF			0.10	78.60	0.07	55.02	0.17	133.62
	8" concrete pad										
	Concrete Pad 8" thick	7	CY			52.00	364.00	37.50	262.50	89.50	626.50
	(020-554-2200)										
	On-site disposal of concrete	7	CY			3.68	25.76	1.57	10.99	5.25	36.75
	(020-754-4200)										
35	ELEVATED TANK (SKIMMER) NE OF CRYSTALLIZER	19,640	CF			0.10	1,964.00	0.07	1,374.80	0.17	3,338.80
	(020-804-0012)										
	Concrete foundation (estimated 12 CY)	12	CY			52.00	624.00	37.50	450.00	89.50	1,074.00
	(020-554-2200)										
	On-site disposal of concrete	12	CY			3.68	44.16	1.57	18.84	5.25	63.00
	(020-754-4200)										
36	FURNACE (NORTH SIDE OF CRYSTALLIZER)	2	EA					340.00	680.00	340.00	680.00
	(old boilers)										
	(020-718-0380)										
	Concrete Pad	8	CY			52.00	416.00	37.50	300.00	89.50	716.00
	(10' X 10' X 1'\2										
	(020-554-2200)										
	On-site disposal of concrete	8	CY			3.68	29.44	1.57	12.56	5.25	42.00
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
37	LAKE BRINE PUMPING STATION INLET STRUCTURE	13,500	CF			0.10	1,350.00	0.07	945.00	0.17	2,295.00
	15 X 15 = 225 SF										
	Use 60' high										
	Steel										
	Use 1" concrete equivalent on bottom										
	(020-604-0012)										
	Concrete Pad 225 X 1	9	CY			52.00	468.00	37.50	337.50	89.50	805.50
	(020-554-2200)										
	On-site disposal of concrete	9	CY			3.68	33.12	1.57	14.13	5.25	47.25
	(020-754-4200)										
38	TRUCK SCALES (ASSUME $1,000)	1	EA			500.00	500.00	500.00	500.00	1,000.00	1,000.00
	Concrete foundation	12	CY			52.00	624.00	37.50	450.00	89.50	1,074.00
	(020-554-2200)										
39	CONVEYOR TO TRUCK LOADOUT	10	TON					395.00	3,950.00	395.00	3,950.00
	(South of the Product Storage Warehouse No. 2)										
	(020-718-3600)										
	Concrete (for below and above ground portion)	60	CY			52.00	3,120.00	37.50	2,250.00	89.50	5,370.00
	Estimated 60 CY										
	(020-554-2200)										
	On-site disposal of concrete	60	CY			3.68	220.80	1.57	94.20	5.25	315.00
	(020-754-4200)										
40	CONVEYOR GALLERY NO. 2	30	TON					395.00	11,850.00	395.00	11,850.00
	Approximately 300' long										
	(020-718-3600)										
	Concrete foundation, Estimated 30 CY	30	CY			52.00	1,560.00	37.50	1,125.00	89.50	2,685.00
	(020-554-2200)										
	On-site disposal of concrete	30	CY			3.68	110.40	1.57	47.10	5.25	157.50
	(020-754-4200)										
41	CONVEYOR GALLERY NO. 4	60	TON					395.00	23,700.00	395.00	23,700.00
	Approximately 150' long										
	(020-718-3600)										
	Concrete foundation, Estimated 30 CY	30	CY			52.00	1,560.00	37.50	1,125.00	89.50	2,685.00
	(020-554-2200)										
	On-site disposal of concrete	30	CY			3.68	110.40	1.57	47.10	5.25	157.50
	(020-754-4200)										
42	CONVEYOR GALLERY NO. 12	160	TON					395.00	63,200.00	395.00	63,200.00
	Approximately 400' long										
	(020-718-3600)										
	Concrete foundation, Estimated 20 CY	20	CY			52.00	1,040.00	37.50	750.00	89.50	1,790.00
	(020-554-2200)										
	On-site disposal of concrete	20	CY			3.68	73.60	1.57	31.40	5.25	105.00
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
43	CONVEYOR GALLERY NO. 16-1	125	TON					395.00	49,375.00	395.00	49,375.00
	Approximately 625' long										
	(020-718-3600)										
44	CONVEYOR GALLERY NO. 16-2	125	TON					395.00	49,375.00	395.00	49,375.00
	Approximately 625' long										
	(020-718-3600)										
45	CONVEYOR GALLERY NO. 13	60	TON					395.00	23,700.00	395.00	23,700.00
	(020-718-3600)										
46	CONVEYOR GALLERY NO. 17-1	120	TON					395.00	47,400.00	395.00	47,400.00
	Approximately 300' long										
	(020-718-3600)										
	Concrete foundation, Estimated 10 CY	10	CY			52.00	520.00	37.50	375.00	89.50	895.00
	(020-554-2200)										
	On-site disposal of concrete	10	CY			3.68	36.80	1.57	15.70	5.25	52.50
	(020-754-4200)										
47	CONVEYOR GALLERY NO. 17-2	120	TON					395.00	47,400.00	395.00	47,400.00
	Approximately 300' long										
	(020-718-3600)										
	Concrete foundation, Estimated 10 CY	10	CY			52.00	520.00	37.50	375.00	89.50	895.00
	(020-554-2200)										
	On-site disposal of concrete	10	CY			3.68	36.80	1.57	15.70	5.25	52.50
	(020-754-4200)										
48	CONVEYOR GALLERY NO. 18	60	TON					395.00	23,700.00	395.00	23,700.00
	Between Loadout Structures										
	Approximately 150' long										
	(020-718-3600)										
49	COOLING TOWER	1	EA							6,850.00	6,850.00
	(020-604-1320)										
	Concrete foundation (1' pad)	33	CY			52.00	1,716.00	37.50	1,237.50	89.50	2,953.50
	(020-554-2200)										
	On-site disposal of concrete	33	CY			3.68	121.44	1.57	51.81	5.25	173.25
	(020-754-4200)										
50	BUILDINGS, ETC. ALONG ROAD FROM PLANT TO THE										
	EVAPORATION PONDS										
	Site 1R										
	Building - Concrete block with metal roof	30,000	CF			0.11	3,300.00	0.07	2,100.00	0.18	5,400.00
	40' X 50' X 15' high										
	(020-604-0080)										
	Concrete Pad 40' X 50' X 8/12'	50	CY			52.00	2,600.00	37.50	1,875.00	89.50	4,475.00
	(020-554-2200)										
	On-site disposal of concrete	117	CY			3.68	430.56	1.57	183.69	5.25	614.25
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
51	BUILDINGS, ETC. ALONG ROAD FROM PLANT TO THE										
	EVAPORATION PONDS										
	Site 1R										
	Horizontal Steel Tank 10' diameter X 35' long	2,749	CF			0.10	274.90	0.07	192.43	0.17	467.33
	(020-604-0012)										
	Concrete Pad (2' X 2' X 10') 2	3	CY			52.00	156.00	37.50	112.50	89.50	268.50
	(020-554-2200)										
	On-site disposal of concrete	3	CY			3.68	11.04	1.57	4.71	5.25	15.75
	(020-754-4200)										
52	BUILDINGS, ETC. ALONG ROAD FROM PLANT TO THE										
	EVAPORATION PONDS										
	Site 1R										
	Steel Tank 15' diameter X 20' high	9,817	CF			0.10	981.70	0.07	687.19	0.17	1,668.89
	(020-604-0012)										
	Concrete Pad 6" thick	13	CY			52.00	676.00	37.50	487.50	89.50	1,163.50
	(020-554-2200)										
	On-site disposal of concrete	13	CY			3.68	47.84	1.57	20.41	5.25	68.25
	(020-754-4200)										
53	BUILDINGS, ETC. ALONG ROAD FROM PLANT TO THE										
	EVAPORATION PONDS										
	Site 2R										
	Building - Concrete block with metal roof	30,000	CF			0.11	3,300.00	0.07	2,100.00	0.18	5,400.00
	40' X 50' X 15' high										
	(020-604-0080)										
	Concrete Pad 40 X 50 X 8/12	50	CY			52.00	2,600.00	37.50	1,875.00	89.50	4,475.00
	(020-554-2200)										
	On-site disposal of concrete	117	CY			3.68	430.56	1.57	183.69	5.25	614.25
	(020-754-4200)										
54	BUILDINGS, ETC. ALONG ROAD FROM PLANT TO THE										
	EVAPORATION PONDS										
	Site 3R										
	Building - Concrete block with metal roof	30,000	CF			0.11	3,300.00	0.07	2,100.00	0.18	5,400.00
	40' X 50' X 15' high										
	(020-604-0080)										
	Concrete Pad 40' X 50' X 8/12	50	CY			52.00	2,600.00	37.50	1,875.00	89.50	4,475.00
	(020-554-2200)										
	On-site disposal of concrete	117	CY			3.68	430.56	1.57	183.69	5.25	614.25
	(020-754-4200)										
55	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 1P										
	Concrete block building with metal roof	2,250	CF			0.11	247.50	0.07	157.50	0.18	405.00
	15' X 15' X 10' high										
	(020-604-0080)										
	Concrete Pad 15 X 15 X 8/12	8	CY			52.00	312.00	37.50	225.00	89.50	537.00
	(020-554-2200)										
	On-site disposal of concrete	21	CY			3.68	77.28	1.57	32.97	5.25	110.25
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
56	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 1P										
	Metal Tank	12,567	CF			0.10	1,256.70	0.07	879.69	0.17	2,136.39
	40' Diameter X 10' high										
	(020-604-0012)										
	Concrete Pad, 8" thick	32	CY			52.00	1,664.00	37.50	1,200.00	89.50	2,864.00
	(020-554-2200)										
	On-site disposal of concrete	32	CY			3.68	117.76	1.57	50.24	5.25	168.00
	(020-754-4200)										
57	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 1P										
	Quanset Metal Hut	1,571	CF			0.10	157.10	0.07	109.97	0.17	267.07
	30' long X 10' high										
	(020-604-0012)										
	Concrete Pad 30' X 10' x 8/12	8	CY			52.00	416.00	37.50	300.00	89.50	716.00
	(020-554-2200)										
	On-site disposal of concrete	8	CY			3.68	29.44	1.57	12.56	5.25	42.00
	(020-754-4200)										
58	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 1P										
	Concrete block building	7,500	CF			0.11	825.00	0.07	525.00	0.18	1,350.00
	20' X 25' X 15' high										
	(020-604-0060)										
	Concrete Pad 20 X 25 X 8/12	13	CY			52.00	676.00	37.50	487.50	89.50	1,163.50
	(020-554-2200)										
	On-site disposal of concrete	47	CY			3.68	172.96	1.57	73.79	5.25	246.75
	(020-754-4200)										
59	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 1P										
	Steel Tower	3,000	CF			0.10	300.00	0.07	210.00	0.17	510.00
	10' X 10' X 30' high										
	(020-604-0012)										
	Concrete Pad 10 X 10 X 1	4	CY			52.00	208.00	37.50	150.00	89.50	358.00
	(020-554-2200)										
	On-site disposal of concrete	4	CY			3.68	14.72	1.57	6.28	5.25	21.00
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
60	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 1P										
	Pit - Concrete & Steel										
	Concrete pit	116	CY			1.52	176.32	8.10	939.60	9.62	1,115.92
	50' X 20' X 15' deep										
	(020-754-2500)										
	Steel bridge	49	TON					158.00	7,742.00	158.00	7,742.00
	20' long										
	(020-718-3600) Use 40%										
	On-site disposal of concrete	116	CY			7.15	829.40	2.44	283.04	9.59	1,112.44
	(020-754-4250)										
61	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 2P										
	Metal building has coated metal siding	27,000	CF			0.10	2,700.00	0.07	1,890.00	0.17	4,590.00
	30' X 60' X 15' high										
	(020-604-0012)										
	Concrete Pad 30' X 60' X 8/12	45	CY			52.00	2,340.00	37.50	1,687.50	89.50	4,027.50
	(020-554-2200)										
	On-site disposal of concrete	45	CY			3.68	165.60	1.57	70.65	5.25	236.25
	(020-754-4200)										
62	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 2P										
	Metal building	2,250	CF			0.10	225.00	0.07	157.50	0.17	382.50
	15' X 15' X 10' high										
	(020-604-0012)										
	Concrete Pad 15' X 15' X 8/12' high	6	CY			52.00	312.00	37.50	225.00	89.50	537.00
	(020-554-2200)										
	On-site disposal of concrete	6	CY			3.68	22.08	1.57	9.42	5.25	31.50
	(020-754-4200)										
63	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 2P										
	Concrete block building with metal roof	3,000	CF			0.11	330.00	0.07	210.00	0.18	540.00
	15' X 20' X 10' high										
	(020-604-0080)										
	Concrete Pad 15' X 20' X 8/12'	8	CY			52.00	416.00	37.50	300.00	89.50	716.00
	(020-554-2200)										
	On-site disposal of concrete	26	CY			3.68	95.68	1.57	40.82	5.25	136.50
	(020-754-4200)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
64	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 2P										
	Tank (steel)	1,964	CF			0.10	196.40	0.07	137.48	0.17	333.88
	10' diameter X 25' high										
	(020-604-0012)										
	Concrete Pad, 6" thick	2	CY			52.00	104.00	37.50	75.00	89.50	179.00
	(020-554-2200)										
	On-site disposal of concrete	2	CY			3.68	7.36	1.57	3.14	5.25	10.50
	(020-754-4200)										
65	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 2P										
	Quonset Hut	1,571	CF			0.10	157.10	0.07	109.97	0.17	267.07
	30' long X 10' high										
	(020-604-0012)										
	Concrete Pad 30' X 10' X 8/12	8	CY			52.00	416.00	37.50	300.00	89.50	716.00
	(020-554-2200)										
	On-site disposal of concrete	8	CY			3.68	29.44	1.57	12.56	5.25	42.00
	(020-754-4200)										
66	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 3P										
	Concrete block building with metal roof	5,000	CF			0.11	550.00	0.07	350.00	0.18	900.00
	20' X 25' X 10' high										
	(020-604-0060)										
	Concrete Pad 20' X 25' X 8/12	14	CY			52.00	728.00	37.50	525.00	89.50	1,253.00
	(020-554-2200)										
	On-site disposal of concrete	37	CY			3.68	136.16	1.57	58.09	5.25	194.25
	(020-754-4200)										
67	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 3P										
	Pit - concrete and steel										
	Concrete pit	116	CY			1.52	176.32	8.10	939.60	9.62	1,115.92
	50' X 20' X 15' deep										
	(020-754-2500)										
	Steel bridge 20' long	49	TON					158.00	7,742.00	158.00	7,742.00
	(020-718-3600) Use 40%										
	Disposal of concrete	116	CY			7.15	829.40	2.44	283.04	9.59	1,112.44
	(020-754-4250)										

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost		Equipment Cost		Labor Cost		Project Cost	
				Per Unit	Total	Per Unit	Total	Per Unit	Total	Per Unit	Total
68	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 4P										
	Concrete block building with metal roof	1,000	CF			0.11	110.00	0.07	70.00	0.18	180.00
	10' X 10' X 10' high										
	(020-604-0060)										
	Concrete Pad 10' X 10' X 8/12'	3	CY			52.00	156.00	37.50	112.50	89.50	268.50
	(020-554-2200)										
	On-site disposal of concrete	13	CY			3.68	47.84	1.57	20.41	5.25	68.25
	(020-754-4200)										
69	BUILDINGS/STRUCTURES AROUND THE EVAPORATION										
	POND GOING CLOCKWISE FROM ACCESS ROAD										
	FROM PLANT										
	Site 4P										
	Concrete wall	14	CY			52.00	728.00	37.50	525.00	89.50	1,253.00
	30' diameter X 4' high X 1' thick										
	(020-554-2200)										
	On-site disposal of concrete	14	CY			3.68	51.52	1.57	21.96	5.25	73.50
	(020-754-4200)										
70	Demolition - Lumber										
	(020-612-0200)										
	Wood portion of cooling tower	98	CY							47.00	4,606.00
	Asphalt plank bottom in tailings thickner	455	CY							47.00	21,385.00
	Wood trusses in two product storage warehouses	1284	CY							47.00	60,348.00
	Disposal	1837	CY			6.80	12,491.60	4.16	7,641.92	10.96	20,133.52
	(020-606-0500)										
	DEMOLITION TOTAL										3,342,467.78

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost Per Unit	Material Cost Total	Equipment Cost Per Unit	Equipment Cost Total	Labor Cost Per Unit	Labor Cost Total	Project Cost Per Unit	Project Cost Total	
	ROUGH GRADING, ETC.											
1	RAILROAD											
	Railroad Track Removal	10,560	LF			1.89	19,958.40	9.15	96,624.00	11.04	116,582.40	233,164.8
	1 mile of 2 sets of tracks											
	(020-554-3500)											
2	RAILROAD BALLAST REMOVAL	23,500	CY			0.42	9,870.00	2.01	47,235.00	2.43	57,105.00	114,210.0
	3' deep X 40' wide X 5,280'											
	(020-554-3600)											
3	PLANT SITE REGRADING											
	146,500 CY cut											
	170,000 CY fill											
	Excavating	146,500	CY			2.36	345,740.00	0.61	89,365.00	2.97	435,105.00	
	(020-242-5400)											
	Fill	170,000	CY			1.85	314,500.00	0.47	79,900.00	2.32	394,400.00	
	(022-262-0190)											
4	LINED POND EAST OF THE LABORATORY											
	Approximately 200' X 300' = 60,000 SF											
	Remove liner	1	EA			500.00	500.00	500.00	500.00	1,000.00	1,000.00	
	Estimated $500.00											
	Earthwork											
	Cut	2,000	CY			2.36	4,720.00	0.61	1,220.00	2.97	5,940.00	
	(022-242-5400)											
	Fill	2,000	CY			1.85	3,700.00	0.47	940.00	2.32	4,640.00	
	(022-262-0190)											
5	TAILINGS DAM											
	Excavating - Bulk - Dozer	142,000	CY			2.36	335,120.00	0.61	86,620.00	2.97	421,740.00	
	(022-242-5400)											
	Filling over debris	142,000	CY			1.85	262,700.00	0.47	66,740.00	2.32	329,440.00	
	(022-262-0190)											
6	EXCAVATION AT EVAPORATION PONDS (342 ACRES)	820,000	CY			1.82	1,492,400.00	0.28	229,600.00	2.10	1,722,000.00	
	(022-248-2000)											
7	FILLING AT EVAPORATION PONDS (342 ACRES)	820,000	CY			1.85	1,517,000.00	0.47	385,400.00	2.32	1,902,400.00	
	(020-262-0190)											
8	HAULING EVAPORATION POND LINER TO PLANT	2,724	CY			4.38	11,931.12	1.69	4,603.56	6.07	16,534.68	
	(022-288-0540)											
	Removing, cutting, etc. evaporation pond liner	1	EA							10,500.00	10,500.00	
	Estimated $10,000 for evaporation ponds and $500 for											
	pond on the plant											
	ROUGH GRADING, ETC. TOTAL										5,417,387.08	5591074.48

MOAB SALT
COST ESTIMATE

Item No.	Description	Quantity	Unit	Material Cost Per Unit	Material Cost Total	Equipment Cost Per Unit	Equipment Cost Total	Labor Cost Per Unit	Labor Cost Total	Project Cost Per Unit	Project Cost Total
	SOIL SAMPLING										
1	PLANT ROUGH GRADING										
	Soil testing - sampling and evaluation	70	EA					100.00	7,000.00	100.00	7,000.00
	Soil testing - lab work	70	EA					100.00	7,000.00	100.00	7,000.00
2	EVAPORATION PONDS ROUGH GRADING										
	Soil testing - sampling and evaluation	342	EA					100.00	34,200.00	100.00	34,200.00
	Soil testing - lab work	342	EA					100.00	34,200.00	100.00	34,200.00
	SOIL SAMPLING TOTAL										82,400.00
	SURVEYING										
1	ROUGH GRADING										
	Surveying, ¼ time assume 8 months	180	DAYS					375.00	67,500.00	375.00	67,500.00
	(013-306-0950)										
	SURVEYING TOTAL										67,500.00
	REVEGETATION										
	PLANT										
1	Seed mix (35 #/AC)	3,050	MSF	2.50	7,625.00					2.50	7,625.00
	(029-306-1500)										
2	Seed spreading	3,050	MSF			7.20	21,960.00	6.60	20,130.00	13.80	42,090.00
	(029-306-1700)										
3	Straw mulch - 2 Tons/acre	70	AC	50.00	3,500.00			250.00	17,500.00	300.00	21,000.00
4	Fertilizer - 200 #/Acre	70	AC	56.00	3,920.00			100.00	7,000.00	156.00	10,920.00
	EVAPORATION PONDS										
1	Seed mix (35 #/Acre)	14,898	MSF	2.50	37,245.00					2.50	37,245.00
	(029-306-1500)										
2	Seed spreading	14,898	MSF			7.20	107,265.60	6.60	98,326.80	13.80	205,592.40
	(029-306-1700)										
3	Straw mulch (2 tons/acre)	342	AC	50.00	17,100.00			250.00	85,500.00	300.00	102,600.00
4	Fertilizer (200 #/acre)	342	AC	56.00	19,152.00			100.00	34,200.00	156.00	53,352.00
	REVEGETATION TOTAL										490,424.40
	SITE MAINTENANCE										
1	Site maintenance	10	YR							10,000.00	100,000.00
	SITE MAINTENANCE TOTAL										100,000.00

(100,204)