nec'd 8-22-01



August 17, 2001

Mr. Mel Leach, Chief Fuel Cycle Licensing Branch, FCSS c/o Document Control Desk U.S. Nuclear Regulatory Commission Washington, D.C. 20555

## RE: Submittal of Surety Estimate; License SUA-1341, Docket No. 40-8502

Dear Mr. Leach,

Pursuant to the requirements of SUA-1341 for COGEMA Mining's Irigaray and Christensen Ranch sites, please find attached our annual surety estimate update.

Changes to the update are described in the attached text, with detailed worksheets as backup information. The updated surety now corresponds to the decommissioning plan currently under review by Ms. Elaine Brummett of your staff.

Please contact me if you should have any questions regarding the bond estimate. Your timely review and approval of the new, reduced amount will be greatly appreciated.

Sincerely,

Donna L. Wichers

General Manager

Enclosure

cc: E. Brummett – NRC J. Vaselin, W. Heili – COGEMA

in ADAMS

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# COGEMA Mining, Inc. SUMMARY OF RECLAMATION/RESTORATION BOND ESTIMATE, 2001 - 2002 WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341 TABLE 1

I GROUNDWATER RESTORATION - Work	sheet 1:	\$5,472,033
II DECOMMISSIONING AND SURFACE RE	CLAMATION:	
A. Process Plant(s) Equipment Removal	and Disposal	\$212,109
Worksheet 2		
B. Plant Building(s) Demolition and Disp	osal	\$587,632
Worksheet 3		
C. Process Pond Sludge and Liner Hand	lling	\$1,305,536
Worksheet 4		
D. Well Abandonment		\$769,221
Worksheet 5		
E. Wellfield Equipment Removal and Dis	posal	\$832,873
Worksheet 6		
F. Topsoil Replacement and Revegation	l	\$757,774
Worksheet 7		
G. Miscellaneous Reclamation Activities		\$155,926
Worksheet 8	Declassofics	<u> </u>
Sub Total - Decommissioning and Surface	Reclamation	\$4,621,071
SUBTOTAL RESTORATION AND RECLA	MATION	\$10,093,103
Miscellaneous Costs Associated with Third	Party Contractors	
Project Design	2%	
Contractor Profit & Mobilization	8%	
Pre-construction Investigation	1%	
Project Management	5%	
On-site monitoring	0.5%	
Site Security & Liability Assurance	1%	
Longterm Administration	2%	
Contingency	<u>15%</u>	
TOTAL CONTINGENCY	34.5%	\$3,482,121
TOTAL DEOTODATION AND DEOLAMATION	I	<u> </u>
TOTAL RESTORATION AND RECLAMATION		\$13,575,224

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	Irigaray	Irigaray	Christensen	Christensen	Christensen	Christensen	Christensen	Christensen	Christense
ROUNDWATER RESTORATION		Mine Unit(s)	Mine Unit	Mine Unit #7	Mine Un				
	#1 Thru #5	#6 Thru #9	#2	#3	#4	#5	#6	#/	#8
echnical Assumptions:									
Wellfield Area (Ft <sup>2</sup> )	522720		890000	798944	510088	1210968	2021243	1332936	16000
Wellfield Area (Acres)	12.00	18.00	20.43	18.34	11.71	27.80	46.40	30.6	36
Affected Ore Zone Area (Ft <sup>2</sup> )	522720	784080	890000	798944	550193	1346004	2058344		
Avg Completed Thickness (Ft) Affected Volume:	15.0	18.0	11.0	10.0	12.7	19.9	21.8		
Factor For Vertical Flare	20%	20%	20%	20%	20%	20%	20%		
Factor For Horizontal Flare	20%	20%	20%	20%	20%	20%	20%		
Total Volume (Ft <sup>a</sup> )	11290752	20323353.6	14097600			38593685.7	64615534.85		
Porosity	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%		
Gallons Per Cubic Foot	7.48	7.48	7.48	7.48	7.48	7.48	7.48		
Gations Per Pore Volume	21958254.49	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292.2		
Number of Wells in Unit(s)									
Production Wells	150	274	153	185	105	217	202	155	
Injection Wells	310	330	173	277	128	277	244	170	
Monitor Wells	150	165	50		44	70	65	66	
Average Well Spacing (Ft)	35	35	85		85	85	100		
Average Well Depth (Ft)	250	250	345	300	430	450	520	550	
GROUNDWATER SWEEP									
A. PLANT & OFFICE			· · · · ·						
Operating Assumptions:									
Flowrate (gpm)	200	200	200	200	200	200	200		
PV's Required	4	1	1	1	1	1	1		
Total Gallons For Treatment	87833017.96	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292.2		
Total KGals for Treatment	87833	39525	27417	22375	19568	75057	125664		
Cost Assumptions:	0,000	00020	2/4//	22010	13000	10007	120004		
Power			1						
Avg Connected Hp	51.30	51.30	40.00	40.00	40.00	40.00	40.00		
Kwh's/Hp	1.00	1.00	0.75	0.75	0.75	0.75	0.75		
\$/Kwh	\$0.051	\$0.051	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038		
Gallons Per Minute	200		200	200	200	200	100		
Gallons Per Hour	12000		12000	12000	12000	12000	6000		
Cost Per Hour	2.62	2.62	1.14	1.14	1.14	1.14	1.14		
	0.00022	0.00022	0.00010	0.00010	0.00010	0.00010	0.00019		
Cost Per Gallon									
Cost Per KGal (\$)	\$0.218	\$0.218	\$0.095	\$0.095	\$0.095	\$0.095	\$0.190		
Chemicals							<b>*</b> *****		
Barium Chloride (\$/KGals)	\$0.041	\$0.041	\$0.041	\$0.041	\$0.041	\$0.041	\$0.000		
Antiscalent (\$/Kgals)			\$0.108	\$0.108	\$0.108	\$0.108	\$0,108		l
Elution (\$/KGals)	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099		
Repair & Maintenance (\$/KGals)	\$0.061	\$0.061	\$0.061	\$0.061	\$0.061	\$0.061	\$0.061		
Analysis (\$/KGals)	\$0.164	\$0.091	\$0.091	\$0.161	\$0.092	\$0.094	\$0.094		
Total Cost Per KGal	\$0.583	\$0.510	\$0.495	\$0.565	\$0.496	\$0.498	\$0.552		
Total Treatment Cost	\$51,209	\$20,159	\$13,571	\$12,642	\$9,706	\$37,378	\$69,367		
Utilities	1					_			
Power (\$/Month)	\$1,840	\$1,840	\$200	\$200	\$200	\$200	\$200		
Propane (\$/Month	\$1,000	\$1,000	\$200	\$200	\$200	\$200	\$200		
Time For Treatment									
Minutes For Treatment	439165	197624	137085	111873	97842	375285	628321		
Hours For Treatment	7319	3294	2285	1865	1631	6255	10472		
Days For Treatment	305	137	95	78	68	261	436		
Average Days Per Month	30.4	30.4	30.4	30.4	30.4	30.4	30.4		
Months For Treatment	10.0	4.5	3.1	2.6	2.2	8.6	14.3		
Utilities Cost (\$)	\$28,476	\$12,814	\$1,252	\$1,022	\$894	\$3,427	\$5,738		
TOTAL PLANT & OFFICE COST	\$79,684	\$32,973	\$14,823	\$13,663	\$10,599	\$40,806	\$75,105	\$0	

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	Irigaray	Irigaray	Christensen	Christensen	Christensen	Christensen	Christensen	Christensen	Christen
DUNDWATER RESTORATION	Mine Unit(s)	Mine Unit(s)	Mine Unit	Mine Unit	Mine U				
	#1 Thru #5	#6 Thru #9	#2	#3	#4	#5	#6	#7	#8
GROUNDWATER SWEEP (Continued)		·			·				
B. WELLFIELD									
Cost Assumptions:							{		
Power Avg Flow/Pump (gpm)	3.86	3.86	20	20	20	20	20		
Avg Hp/Pump	1.50	1.50	5.00	5.00	5.00	5.00	5.00		
Avg # of Pumps Required	51.9	51.9	5.0	5.0	5.0	5.0	5.0	1	
Avg Connected Hp	77.8	77.8	25	25	25	25		Ì	
Kwh's/Hp	1.000	1.000	0.750	0.750	0.750	0.750	0.750		
\$/Kwh	\$0.051	\$0.051	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038		
Gallons Per Minute	200	200	200	200	200	200	200		
Gallons Per Hour	12000	12000	12000	12000	12000	12000	12000	1	
Cost Per Hour (\$)	\$3.97	\$3,97	\$0.71	\$0.71	\$0.71	\$0.71	\$0.71		
Cost Per Gallon (\$)	\$0.0003	\$0.0003	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001		
Cost Per KGal (\$)	0.331	0.331	0.059	0.059	0.059	0.059	0.059		
Repair & Maintenance (\$/KGals)	\$0.016	\$0.016	\$0.224	\$0.224	\$0.224	\$0.224	\$0.224		
Total Cost Per KGal	\$0.347	\$0.347	\$0.283	\$0.283	\$0.283	\$0.283	\$0.283		
TOTAL WELLFIELD COST	\$30,447	\$13,701	\$7,769	\$6,340	\$5,545	\$21,269	\$35,610	\$0	
TOTAL GROUND WATER SWEEP COST	\$110,132	\$46,674	\$22,593	\$20,004	\$16,145	\$62,075	\$110,715	\$0	
REVERSE OSMOSIS									
A. PLANT & OFFICE							1	r	
Operating Assumptions:	-1								
Flowrate (gpm)	300	300	500	500	500	500	500		
PV's Required	3.0	5.0	5.0	5.0	5.0	5.0	5.0	1	
Total Galions For Treatment	65874763.47	197624290	137085062	111872613	97842203.3	375285000	628321460.9		
Total KGais for Treatment	65875	197624	137085	111873	97842	375285	628321		
Feed to RO (gpm)	300	300	500	500	500	500			
Permeate Flow (gpm)	240	240	375	375		375			
Brine Flow (gpm)	60	60	125	125		125			
Average RO Recovery	80.0%	80.0%	75.0%	75.0%	75.0%	75.0%	75.0%		
Cost Assumptions:							[		
Power		100.00	500.00	coo oo	500 00	500.00	500.00		
Avg Connected Hp	120.00	120.00 1.000	560.00 0.750	560.00 0.750	560.00 0.750	560.00 0.750	560.00 0.750		
Kwh's/Hp \$/Kwh	\$0.051	\$0.051	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038		
Gallons Per Minute	300	300	500	500	500	500	500		
Gallons Per Hour	18000	18000	30000	30000	30000	30000	30000		
Cost Per Hour (\$)	\$6.12	\$6.12	\$15.96	\$15,96	\$15.96	\$15.96	\$15.96		
Cost Per Gallon (\$)	\$0.00034	\$0.00034	\$0.00053	\$0.00053	\$0.00053	\$0.00053	\$0.00053		
Cost Per KGal (\$)	\$0.340	\$0.340	\$0.532	\$0.532	\$0.532	\$0.532	\$0.532		
Chemicals									
Sulfuric Acid (\$/KGals)	\$0.076	\$0.076	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000		
Caustic Soda (\$/KGals)	\$0.111	\$0.111	\$0.015	\$0.015	\$0.015	\$0.015	\$0.015		
Hydrochloric Acid (\$/KGals)	\$0.009	\$0.009	\$0.000	\$0,000	\$0.000	\$0.000	\$0.000		
Hydrogen Sulfide (\$/KGals)	\$0.304	\$0.304	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000		
Sodium Sulfate (\$/Kgals)			\$0.092	\$0.092	\$0.092	\$0.092	\$0.092		
Antiscalent (\$/Kgals)			\$0.108	\$0.108	\$0.108	\$0.108	\$0.108		
Elution (\$/Kgals)			\$0.099	\$0.099	\$0.099	\$0.099	\$0.099		
Repair & Maintenance (\$/KGals)	\$0.279	\$0.279	\$0.120	\$0.120	\$0.120	\$0.120	\$0.120		
Sampling & Analysis (\$/KGals)	\$0.164	\$0.091	\$0.091	\$0.161	\$0.092	\$0.094	\$0.094		
Total Cost Per KGal (\$)	\$1.283	\$1.210	\$1.057	\$1.127	\$1.058	\$1.060	\$1.060		
Total Pumping Cost (\$)	\$84,517	\$239,125	\$144,899	\$126,080	\$103,517	\$397,802	\$666,021		
Utilities Bours (\$/Month)		64 040	e:	e1 000	e4 000	\$1,000	et 000		
Power (\$/Month)	\$1,840	\$1,840	\$1,000 \$800	\$1,000 \$800	\$1,000 \$800	\$1,000 \$800	\$1,000 \$800		
Propane (\$/Month	\$1,000	\$1,000	9000	2000	2000	3000	2000		
Time For Treatment	-	658748	074470	200745	105004	750570	1256643		
Minutes For Treatment	219583 3660	10979	274170 4570	223745 3729	195684 3261	12510	1256643		
Hours For Treatment Days For Treatment	3660	109/9	4570	3/29	3261 136		20944 873		
Average Days Per Month	30.4	30.4	30.4	30.4	30.4	521 30.4	30.4		
Months For Treatment	5.0	15.0	6.3	5.1	4.5	17.1	28.7		
Utilities Cost (\$)	\$14,200	\$42,600	\$11,340	\$9,180	\$8,100	\$30,780	\$51.660		
TOTAL PLANT & OFFICE COST	\$98,717	\$281,725	\$156,239	\$135,260	\$111,617	\$428,582	401,000		

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	Irigaray	Irigaray	Christensen	Christensen	Christensen	Christensen	Christensen	Christensen	Christense
OUNDWATER RESTORATION	Mine Unit(s)	Mine Unit(s)	Mine Unit	Mine Uni					
	#1 Thru #5	#6 Thru #9	#2	#3	#4	#5	#6	#7	#8
REVERSE OSMOSIS (Continued)								•	
B. WELLFIELD									
Cost Assumptions:									
Power									
Avg Flow/Pump (gpm)	3.86	3.86	20.00	20.00	20.00	20.00	20.00		
Avg Hp/Pump	1.50	1.50	5.00	5.00	5.00	5.00	5.00		
Avg # of Pumps Required	77.8	77.8	62.4	62.4	62.4	62.4	62.4	]	
Avg Connected Hp	116.7	116.7	187.1	187.1	187.1	187.1	187.1	1	
Kwh's/Hp	1.000	1.000	0.750	0.750	0.750	0.750	0.750	1	
\$/Kwh	\$0.051	\$0.051	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038		
Gallons Per Minute	300	300	500	500	500	500	500		
Gallons Per Hour	18000	18000	30000	30000	30000	30000	30000		
Cost Per Hour (\$)	\$5.95	\$5.95	\$5.33	\$5.33	\$5.33	\$5.33	\$5.33		
Cost Per Gallon (\$)	\$0.0003	\$0.0003	\$0.0002	\$0.0002	\$0.0002	\$0.0002	\$0.0002		
Cost Per KGal (\$)	\$0.331	\$0.331	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178		
Repair & Maintenance (\$/KGals)	\$0.016	\$0.016	\$0.224	\$0.224	\$0.224	\$0.224	\$0.224		
Total Cost Per KGal	\$0.347	\$0.347	\$0.402	\$0.402	\$0.402	\$0.402	\$0.402		
TOTAL WELLFIELD COST	\$22,835	\$68,506	\$55,073	\$44,944	\$39,308	\$150,769	\$252,425	\$0	,
TOTAL REVERSE OSMOSIS COST	\$121,553	\$350,232	\$211,312	\$180,205	\$150,925	\$579,351	\$970,106	\$0	

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	Irigaray	Irigaray	Christensen	Christensen	Christensen	Christensen	Christensen	Christensen	Christens
ROUNDWATER RESTORATION	#1 Thru #5	Mine Unit(s) #6 Thru #9	Mine Unit #2	Mine Unit #3	Mine Unit #4	Mine Unit #5	Mine Unit #6	Mine Unit #7	Mine Ur #8
II WASTE DISPOSAL WELL	#1 1180 #5	#0 1110#9	#4	*>				. */	#0
Operating Assumptions:	1								
Annual Evaporation Capacity (Gals)			1,917,612	1,917,612	1,917,612	1,917,612	1,917,612		
Avg. Monthly Evap. Capacity (Gals)			159,B01	159,801	159,801	159,801	159,801		
Total Disposal Requirement							,		
RO Brine Total Gallons			34,271,266	27,968,153	24,460,551	93,821,250	157,080,365		
RO Brine Total KGallons	1		34,271	27,968	24,461	93,821	157,080		
Brine Concentration Factor			60%	60%	60%	60%	60%	1	
Total Concentrated Brine (Gals)	1		20,562,759	16,780,892	14,676,330	56,292,750	94,248,219		
Months of RO Operation			6.3	5.1	4.5	17.1	28.7	1	
Average Monthly Reqm't (Gallons)			3,263,930	3,290,371	3,261,407	3,291,974	3.283.910		
Monthly Balance for DDW (Gals)			3,104,129	3,130,570	3,101,606	3,132,173	3,124,109		
Total WDW Disposal (Gallons)			19,556,013		13,957,226	53,560,153	89,661,930		
Total WDW Disposal (KGals)			19,556		13,957	53,560	89,662		
Cost Assumptions:			, 0,000		10,007		00,002		
Power									
Avg Connected Hp			100.00	100.00	100.00	100.00	100.00		
•			180.00	180.00	180.00	180.00	180.00		
WDW Avg Connected Hp			0.750						
Kwh's/Hp				0.750	0.750	0.750	0.750		
\$/Kwh			\$0.038	\$0.038	\$0.038	\$0.038	\$0.038		
Gallons Per Minute			150	150	150	150	150		
Gallons Per Hour			9000	9000	9000	9000	9000		
Cost Per Hour (\$)			\$7.98	\$7.98	\$7.98	\$7.98	\$7.98		
Cost Per Gallon (\$)			\$0.0009	\$0.0009	\$0.0009	\$0.0009	\$0.0009		
Cost Per KGal (\$)			\$0.887	\$0.887	\$0.687	\$0.887	\$0.887		
Chemicals (\$/Kgals)									
RO Antiscalent (\$/Kgals)			\$0.192	\$0,192	\$0.192	\$0.192	\$0.192		
WDW Antiscalent (\$/Kgals)	1		\$0.226	\$0.226	\$0.226	\$0.226	\$0.226		
Sulfuric Acid (\$/Kgals)			\$0.280	\$0.280	\$0.280	\$0.280	\$0.280		
Corrosion Inhibitor	1		\$0.217	\$0.217	\$0.217	\$0.217	\$0.217		
Algacide			\$0.052	\$0.052	\$0.052	\$0.052	\$0.052		
Other			\$0.080	\$0.080	\$0.080	\$0.080	\$0.080		
Repair & Maint (\$/Kgals)			\$0.230	\$0.230	\$0.230	\$0.230	\$0.230		
Total Cost Per KGai			\$2.164	\$2.164	\$2.164	\$2.164	\$2.164		
TOTAL WASTE DISPOSAL WELL COST	I		\$42,313	\$34,545	\$30,199	\$115,886	\$193,999	\$0	
STABILIZATION MONITORING	1								
Operating Assumptions:				-					
Time of Stabilization (mos)	9	9	9	9	9	9	9		
Frequency of Analysis (mos)	3	3	3	3	3	3	3		
Total Sets of Analysis	3	3	3	3	3	3	3		
Cost Assumptions:			-		-	Ĭ	J		
Power (\$/Month)	\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000		
Total Power Cost	sõ	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000		
Sampling & Analysis (each set)	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600	\$3,600		
Total Sampling & Analysis Cost (\$)	\$10,800	\$10,800	\$10,800	\$10,800	\$10,800	\$10,800	\$10,800		
Utilities (\$/Month)	\$0	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000		
Total Utilities Cost (\$)	\$0	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000		
TOTAL STABILIZATION COST	\$10,800	\$37,800	\$37,800	\$37,800	\$37,800	\$37,600	\$37,800	\$0	

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	Irigaray	Irigaray	Christensen	Christensen				Christensen	Christensen
BROUNDWATER RESTORATION		Mine Unit(s)		Mine Unit	Mine Unit	Mine Unit	Mine Unit	Mine Unit	Mine Unit
	#1 Thru #5	#6 Thru #9	#2	#3	#4	#5	#6	#7	#8
/ LABOR (Irigaray and Christensen Combined)									
Cost Assumptions	Cost/Hour	Hours/Year	Cost						
Crew:									
1 Supervisor	\$25.00	2080	\$52,000						
4 Operators	\$20.00	2080	\$166,400						
2 Maintenance	\$20.00	2080	\$83,200						
2 Vehicles	\$12.00	2080	\$49,920						
Cost per Year	1	l	\$351,520						
Time Required - Years (See Figure 1)	3.6	1							
TOTAL RESTORATION LABOR COST	\$1,265,472								
	1 4 1 2 2 1 1 2	1							
	Irigaray	Christensen	Total						
	Mine Unit(s)	Mine Unit	Christensen						
	#1 Thru #9	#2 Thru #4	& trigaray						
				•					
RESTORATION CAPITAL REQUIREMENTS									
I Deep Disposal Well(s)		\$0	\$0						
II Plug and Abandon DDW (2)		\$200,000	\$200,000						
III 500 GPM Reverse Osmosis Unit		\$0	\$0						
Total	\$0	\$200,000	\$200,000						
					A				
	Irigaray	Irigaray			Christensen	Christensen	Christensen	Christensen	Christensen
	Mine Unit(s)	Mine Unit(s)	Mine Unit	Mine Unit	Mine Unit	Mine Unit	Mine Unit	Mine Unit	Mine Unit
	Mine Unit(s) #1 Thru #5	Mine Unit(s) #6 Thru #9	Mine Unit #2	Mine Unit #3	Mine Unit #4	Mine Unit #5	Mine Unit #6	Mine Unit #7	Mine Unit
I GROUNDWATER SWEEP	Mine Unit(s) #1 Thru #5 \$110,132	Mine Unit(s) #6 Thru #9 \$46,674	Mine Unit #2 \$22,593	Mine Unit #3 \$20,004	Mine Unit #4 \$16,145	Mine Unit #5 \$62,075	Mine Unit #6 \$110,715	Mine Unit #7 \$0	Mine Unit
I GROUNDWATER SWEEP II REVERSE OSMOSIS	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232	Mine Unit #2 \$22,593 \$211,312	Mine Unit #3 \$20,004 \$180,205	Mine Unit #4 \$16,145 \$150,925	Mine Unit #5 \$62,075 \$579,351	Mine Unit #6 \$110,715 \$970,106	Mine Unit #7 \$0 \$0	Mine Unit
I GROUNDWATER SWEEP II REVERSE OSMOSIS III WASTE DISPOSAL WELL	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553 \$0	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232 \$0	Mine Unit #2 \$22,593 \$211,312 \$42,313	Mine Unit #3 \$20,004 \$180,205 \$34,545	Mine Unit #4 \$16,145 \$150,925 \$30,199	Mine Unit #5 \$62,075 \$579,351 \$115,886	Mine Unit #6 \$110,715 \$970,106 \$193,999	Mine Unit #7 \$0 \$0 \$0	Mine Unit
I GROUNDWATER SWEEP II REVERSE OSMOSIS III WASTE DISPOSAL WELL IV STABILIZATION	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553 \$0 \$10,800	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232 \$0 \$37,800	Mine Unit #2 \$22,593 \$211,312 \$42,313 \$37,800	Mine Unit #3 \$20,004 \$180,205 \$34,545 \$37,800	Mine Unit #4 \$16,145 \$150,925 \$30,199 \$37,800	Mine Unit #5 \$62,075 \$579,351 \$115,886 \$37,800	Mine Unit #6 \$110,715 \$970,106 \$193,999 \$37,800	Mine Unit #7 \$0 \$0 \$0 \$0 \$0	Mine Unit
I GROUNDWATER SWEEP II REVERSE OSMOSIS III WASTE DISPOSAL WELL IV STABILIZATION SUB TOTAL	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553 \$0	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232 \$0	Mine Unit #2 \$22,593 \$211,312 \$42,313	Mine Unit #3 \$20,004 \$180,205 \$34,545	Mine Unit #4 \$16,145 \$150,925 \$30,199	Mine Unit #5 \$62,075 \$579,351 \$115,886	Mine Unit #6 \$110,715 \$970,106 \$193,999 \$37,800	Mine Unit #7 \$0 \$0 \$0	Mine Unit
I GROUNDWATER SWEEP II REVERSE OSMOSIS III WASTE DISPOSAL WELL IV STABILIZATION SUB TOTAL V LABOR	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553 \$0 \$10,800	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232 \$0 \$37,800	Mine Unit #2 \$22,593 \$211,312 \$42,313 \$37,800	Mine Unit #3 \$20,004 \$180,205 \$34,545 \$37,800	Mine Unit #4 \$16,145 \$150,925 \$30,199 \$37,800	Mine Unit #5 \$62,075 \$579,351 \$115,886 \$37,800	Mine Unit #6 \$110,715 \$970,106 \$193,999 \$37,800	Mine Unit #7 \$0 \$0 \$0 \$0 \$0	Mine Unit
I GROUNDWATER SWEEP II REVERSE OSMOSIS III WASTE DISPOSAL WELL IV STABILIZATION SUB TOTAL V LABOR VI CAPITAL	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553 \$0 \$10,800	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232 \$0 \$37,800	Mine Unit #2 \$22,593 \$211,312 \$42,313 \$37,800	Mine Unit #3 \$20,004 \$180,205 \$34,545 \$37,800	Mine Unit #4 \$16,145 \$150,925 \$30,199 \$37,800	Mine Unit #5 \$62,075 \$579,351 \$115,886 \$37,800	Mine Unit #6 \$110,715 \$970,106 \$193,999 \$37,800	Mine Unit #7 \$0 \$0 \$0 \$0 \$0	Mine Unit
I GROUNDWATER SWEEP II REVERSE OSMOSIS III WASTE DISPOSAL WELL IV STABILIZATION SUB TOTAL V LABOR VI CAPITAL	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553 \$0 \$10,800	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232 \$0 \$37,800	Mine Unit #2 \$22,593 \$211,312 \$42,313 \$37,800 \$314,017	Mine Unit #3 \$20,004 \$180,205 \$34,545 \$37,800 \$272,553	Mine Unit #4 \$16,145 \$150,925 \$30,199 \$37,800 \$235,068	Mine Unit #5 \$62,075 \$579,351 \$115,886 \$37,800 \$795,112	Mine Unit #6 \$110,715 \$970,106 \$193,999 \$37,800 \$1,312,619	Mine Unit #7 \$0 \$0 \$0 \$0 \$0 \$0	Mine Unit #8
I GROUNDWATER SWEEP II REVERSE OSMOSIS III WASTE DISPOSAL WELL IV STABILIZATION SUB TOTAL V LABOR VI CAPITAL DTAL GROUNDWATER RESTORATION COST	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553 \$0 \$10,800	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232 \$0 \$37,800	Mine Unit #2 \$22,593 \$211,312 \$42,313 \$37,800 \$314,017	Mine Unit #3 \$20,004 \$180,205 \$34,545 \$37,800 \$272,553	Mine Unit #4 \$16,145 \$150,925 \$30,199 \$37,800 \$235,068	Mine Unit #5 \$62,075 \$579,351 \$115,886 \$37,800 \$795,112	Mine Unit #6 \$110,715 \$970,106 \$193,999 \$37,800	Mine Unit #7 \$0 \$0 \$0 \$0 \$0 \$0	Mine Unit #8
II REVERSE OSMOSIS III WASTE DISPOSAL WELL IV STABILIZATION SUB TOTAL V LABOR	Mine Unit(s) #1 Thru #5 \$110,132 \$121,553 \$0 \$10,800	Mine Unit(s) #6 Thru #9 \$46,674 \$350,232 \$0 \$37,800	Mine Unit #2 \$22,593 \$211,312 \$42,313 \$37,800 \$314,017	Mine Unit #3 \$20,004 \$180,205 \$34,545 \$37,800 \$272,553	Mine Unit #4 \$16,145 \$150,925 \$30,199 \$37,800 \$235,068	Mine Unit #5 \$62,075 \$579,351 \$115,886 \$37,800 \$795,112	Mine Unit #6 \$110,715 \$970,106 \$193,999 \$37,800 \$1,312,619	Mine Unit #7 \$0 \$0 \$0 \$0 \$0 \$0	Mine Unit #8

6

8/17/2001

				Irigaray				Christensen					
	Maint Area &	Main Process	Expansion	Resin +Sand	Dry Pack	Restoration		Satellite	Resin + Sand		Wellfield		
LANT EQUIPMENT REMOVAL AND DISPOSAL	Laboratory	Building	Building	Filter Media	Area	Building	Sub Total	Plant	Filter Media	Extension	Modules	Sub Tota	
olume (Yds*)	40	200	180	110	40			- 91	197	42	55		
uantity Per Truck Load (Yds*)	20	20	20	20	20	20		20	20	20	20		
umber of Truck Loads	2.0	10.0	9.0	5.5	2.0	2.0		4.55	9.9	2.1	2.8		
I Decontamination Cost													
Decontamination Cost (\$/Load)	\$550	\$550	\$550	\$550	\$550	\$550		\$550	\$550	\$550	\$550		
Percent Requiring Decontamination	20.0%	100.0%	100.0%	0.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%		
Total Cost	\$220	\$5,500	\$4,950	\$0	\$1,100	\$1,100	\$12,870	\$2,503	\$0	\$1,155	\$1,513	\$5,17	
I Dismantle and Loading Cost								-					
Cost Per Truck Load (\$)	\$715	\$715	\$715	\$715	\$715	\$715		\$715	\$715	\$715	\$715		
Total Cost	\$1,430	\$7,150	\$6,435	\$3,933	\$1,430	\$1,430	\$21,808	\$3,253	\$7,043	\$1,502	\$1,966	\$13,76	
I Oversize Charges													
Percent Requiring Permits	40.0%	40.0%	40.0%	0.0%	60.0%	40.0%		40.0%	0.0%	40.0%	0.0%		
Cost Per Truck Load (\$)	\$326	\$326	\$326	\$326	\$326	\$326		\$326	\$326	\$326	\$326		
Total Cost	\$261	\$1,304	\$1,174	\$0	\$391	\$261	\$3,390	\$593	\$0	\$274	\$0	\$86	
V Transportation & Disposal										-			
A. Landfill													
Percent To Be Shipped	80.0%	80.0%	80.0%	0.0%	50.0%	80.0%		80.0%	0.0%	80.0%	80.0%		
Distance (Miles)	48	48	48	48	48	48		48	48	48	48		
Cost Per Mile (\$)	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58		\$2.58	\$2.58	\$2.58	\$2.58		
Transportation Cost	\$198	\$991	\$892	\$0	\$124	\$198		\$451	\$0	\$208	\$272		
Disposal Fee Per Cubic Yard	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00		\$12.00	\$12.00	\$12.00	\$12.00		
Disposal Cost (\$)	\$384	\$1,920	\$1,728	\$0	\$240	\$384		\$874	\$0	\$403	\$528		
Total Cost	\$582	\$2,911	\$2,620	\$0	\$364	\$582		\$1,324	\$0	\$611	\$800		
B. Licensed Site													
Percent To Be Shipped	20.0%	20.0%	20.0%	100.0%	50.0%	20.0%		20.0%	100.0%	20.0%	20.0%		
Distance (Miles)	150	150	150	150	150	150		150	150	150	150		
Cost Per Mile (\$)	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58		\$2.58	\$2.58	\$2.58	\$2.58		
Transportation Cost	\$155	\$774	\$697	\$2,129	\$387	\$155		\$352	\$3,812	\$163	\$213		
Disposal Cost Per Cubic Foot (\$)	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00		\$11.00	\$11.00	\$11.00	\$11.00		
Quantity Per Truck Load (Yds <sup>a</sup> )	20.0	20.0	20.0	20.0	20.0	20.0		20.0	20.0	20.0	20.0		
Quantity Per Truck Load (Ft*)	540	540	540	540	540	540		540	540	540	540		
Disposal Cost	\$2,376	\$11,880	\$10,692	\$32,670	\$5,940	\$2,376		\$5,405	\$58,509	\$2,495	\$3,267		
Total Cost Licensed Site	\$2,531	\$12,654	\$11,389	\$34,799	\$6,327	\$2,531		\$5,758	\$62,321	\$2,657	\$3,480		
Total Cost Transportation & Disposal	\$3,113	\$15,565	\$14,008	\$34,799	\$6,691	\$3,113	\$77,288	\$7,082	\$62,321	\$3,269	\$4,280	\$76,95	
DTAL COST	\$5,024	\$29,519	\$26,567	\$38,731	\$9,612	\$5,904	\$115,356	\$13,431	\$69,364	\$6,199	\$7,759	\$96,75	
OTAL COST - IRIGARAY AND CHRISTENSEN												\$212,10	

7

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8/17/2001

Service States

			Irigaray						Christensen				1
Maint Area	Warehouse	Main Process	Expansion	Dry Pack	Restoration		Satellite	Wellfield	Booster	Restoration	Office		
Laboratory	& Offices	Building	Building	Area	Building	Sub Total	Plant	Modules	Pump Bldgs.	Extension	Building	Warehouse	Sub Total
													<u> </u>

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# BUILDING DEMOLITION AND DISPOSAL

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Structural Character	1 Story	1 Story	1 Story	1 Story	3 Story	1 Story		2 Story	1 Story	1 Story	2 Story	1 Story	1 Story	
	Steel Frame	Steel Frame	Steel Frame	Steel Frame	Steel/Masonry	Steel Frame		Steel Frame	Pre Fab (22)	Pre Fab (4)	Steel Fram	Pre-Fab	Steel Frame	
Demolition Volume (Ft <sup>e</sup> )	179400	108720	430400	386400	126000	69640		192000	95040	46720	72000	64800	11000	
Cost of Demolition Per Ft*	\$0.1310	\$0.1310	\$0.1310	\$0.1310	\$0.1310	\$0.1310		\$0.1310	\$0.1310	\$0.1310	\$0.1310	\$0.1310	\$0.1310	
Demolition Cost (\$)	\$23,503	\$14,243	\$56,387	\$50,622	\$16,507	\$9,124	\$170,386	\$25,154	\$12,451	\$6,121	\$9,433	\$8,489	\$1,441	\$63,089
Factor For Gutting	15.0%	10.0%	30.0%	10.0%	20.0%	10.0%		20.0%	0.0%	0.0%	20.0%	10.0%	10.0%	
Cost For Gutting (\$)	\$3,525	\$1,424	\$16,916	\$5,062	\$3,301	\$912	\$31,142	\$5,031	\$0	\$0	\$1,887	\$849	\$144	\$7,910
Weight (pounds)	158761	96212	380885	341947	111504	61628		169912	66660	28032	63717	38802	9735	
Weight per Truckload	40000	40000	40000	40000	40000	40000		40000	40000	40000	40000	40000	40000	
Number of Truckloads	4.0	2.4	9.5	8.5	2.8	1.5		4.2	1.7	0.7	1.6	1.0	0.2	
Distance to Landfill	48	48	48	48	48	48		48	48	48	48	48	48	
Cost per Mile	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58		\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	
Transportation Cost	\$492	\$298	\$1,179	\$1,059	\$345	\$191	\$3,563	\$526	\$206	\$87	\$197	\$120	\$30	\$1,167
Disposal Cost per Ton	\$35.70	\$35.70	\$35.70	\$35.70	\$35,70	\$35.70		\$35.70	\$35.70	\$35.70	\$35.70	\$35.70	\$35.70	
Disposal Cost	\$2,834	\$1,717	\$6,799	\$6,104	\$1,990	\$1,100	\$20,544	\$3,033	\$1,190	\$500	\$1,137	\$693	\$174	\$6,727
TOTAL COST	\$30,354	\$17,683	\$81,281	\$62,847	\$22,144	\$11,327	\$225,636	\$33,744	\$13,847	\$6,708	\$12,654	\$10,151	\$1,789	\$78,893
TOTAL COST IRIGARAY AND CHRISTENSEN	1													\$304,529

# CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL

Area (Ft <sup>2</sup> )	8020	7100	17600	18400	5600	3600		9600	0	1440	3600	0	1000	
Average Thickness (Ft)	0.5	0.5	0.5	0.5	1	0.5		0.5	0.0	0.5	0.5	0.0	0.5	
Volume (Ft <sup>a</sup> )	4010	3550	8800	9200	5600	1800		4800	0	720	1800	0	500	
Percent Requiring Decontamination	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	
Percent Decontaminated	0.0%	0.0%]	75.0%	75.0%	40.0%	75.0%		75.0%	0.0%	100.0%	100.0%	0.0%	0.0%	
Decontamination (\$/Ft <sup>2</sup> )	\$0.170	\$0.170	\$0.170	\$0.170	\$0.170	\$0.170		\$0.170	\$0.170	\$0.170	\$0.170	\$0.170	\$0.170	
Decontamination Cost	\$0	\$0	\$2,248	\$2,350	\$382	\$460	\$5,440	\$1,226	\$0	\$245	\$613	\$0	\$0	\$2,085
Demolition (\$/Ft <sup>2</sup> )	\$1.887	\$1.887	\$1.887	\$1.887	\$1.887	\$1.887		\$1.887	\$1.887	\$1.887	\$1.887	\$1.887	\$1.887	
Demolition Cost	\$15,130	\$13,394	\$33,203	\$34,712	\$10,565	\$6,792	\$113,796	\$18,111	\$0	\$2,717	\$6,792	\$0	\$1,887	\$29,506
Transportation & Disposal											1			
A. Onsite Disposal											1			1
Percent to be Disposed Onsite	100%	100%	75%	75%	40%	75%		75%	0%	100%	100%	0%	100%	
Transportation Cost	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	1
Disposal Cost per Cubic Foot	\$0.049	\$0.049	\$0.049	\$0.049	\$0.049	\$0.049		\$0.049	\$0.049	\$0.049	\$0.049	\$0.049	\$0.049	
Disposal Cost (\$)	\$196	\$174	\$323	\$338	\$110	\$66	\$1,208	\$176	\$0	\$35	\$88	\$0	\$25	\$324
B. Licensed Site												1		ł
Percent to be Shipped	0%	0%	25%	25%	60%	25%		25%	100%	0%	0%	100%	0%	
Distance (Miles)	150	150	150	150	150	150		150	150	150	150	150	150	
Cost per Mile (\$)	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58		\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	1
Transportation Cost	\$0	\$0	\$1,577	\$1,648	\$2,408	\$323	\$5,956	\$860	\$0	\$0	\$0	\$0	\$0	\$860
Disposal Cost per Cubic Foot	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	
Quantity Per Truck Load (Yds <sup>3</sup> )	20	20	20	20	20	20		20	20	20	20	20	20	1
Quantity Per Truck Load (Ft*)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$8,140	\$8,510	\$12,432	\$1,665	\$30,747	\$4,440	\$0	\$0	\$0	\$0	\$0	\$4,440
TOTAL COST	\$15,327	\$13,568	\$45,491	\$47,559	\$25,896	\$9,305	\$157,146	\$24,813	\$0	\$2,997	\$7,493	\$0	\$1,911	\$37,215
TOTAL COST IRIGARAY AND CHRISTENSEN														\$194,361
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8

				Irigaray			1			Christensen				
	Maint Area	Warehouse		Expansion	Dry Pack	Restoration		Satellite	Wellfield	Booster	Restoration	Office		
	Laboratory	& Offices	Building	Building	Area	Building	Sub Total	Plant	Modules	Pump Bldgs.	Extension	Building	Warehouse	Sub Tota
	-													
SOIL REMOVAL & DISPOSAL	_]													
Assume removal of 3" of Contaminated Soil under	٦													
Primary Areas, Disposal at a Licensed facility.														
Removal, Front End Loader (\$50/hr)	\$0	\$0	\$815	\$852	\$259	\$167	\$2,093	\$444	\$0	\$0	\$0	\$0	\$0	\$444
Quantity to be Shipped (Ft*)	0		4400	4600	1400	900	12,000	2400	ů.	0	o o	0	o l	•
Distance (Miles)	150	150	150	150	150	150		150	150	150	150	150	150	
Cost Per Mile (\$)	\$2.58	\$2.58	\$2.58	\$2,58	\$2.58	\$2.58		\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	
Transportation Cost (\$)	\$0	\$0	\$3,153	\$3,297	\$1,003	\$645	\$8,098	\$1,720	\$0	\$0	\$0	\$0	\$0	\$1,720
Disposal fee Per Cubic Foot(\$)	\$3.70	\$3,70	\$3.70	\$3,70	\$3.70	\$3.70		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	+
Quantity per Truckload (Ft*)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$16,280	\$17,020	\$5,180	\$3,330	\$41,810	\$8,880	\$0	\$0	\$0	\$0	\$0	\$8,880
Removal, NPDES Pts.														
Quantity to be Shipped (Ft <sup>a</sup> )			559					5,030			[ ]			
Distance (Miles)	150	150	150	150	150	150		150	150	150	150	150	150	
Cost Per Mile (\$)	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58		\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	
Transportation Cost (\$)	\$0	\$0	\$401	\$0	\$0	\$0	\$401	\$3,605	\$0	\$0	\$0	\$0	\$0	\$3,605
Disposal fee Per Cubic Foot(\$)	\$3,70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	+-,
Quantity per Truckload (Ft*)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$2,068	\$0	\$0	\$0	\$2,068	\$18,611	\$0	\$0	\$0	\$0	\$0	\$18,61
Total Cost	\$0	\$0	\$22.717	\$21,169	\$6,442	\$4,142	\$54,470	\$33,260	\$0	\$0	so	\$0	\$0	\$33,26
TOTAL COST	\$0	\$0	\$22,717	\$21,169	\$6,442	\$4,142	\$54,470	\$33,260	\$0	\$0	\$0	\$0	\$0	\$33,26
TOTAL COST IRIGARAY AND CHRISTENSEN	]			•										\$87,730
RADIATION SURVEY												'		
Area required (acres)	0.18	0.16	0.40	0.42	0.13	0.08		0.22	0.00	0.03	0.08	0.00	0.02	
Survey Cost (\$/acre)	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00		\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	
TOTAL SURVEY COST (\$)	\$107	\$95	\$234	\$245	\$75	\$48	\$804	\$128	\$0	\$19	\$48	\$0	\$13	\$208
TOTAL COST	\$45,788	\$31,346	\$149,723	\$131,820	\$54,558	\$24,822	\$438,056	\$91,945	\$13,847	\$9,724	\$20,195	\$10,151	\$3,713	
TOTAL COST IRIGARAY AND CHRISTENSEN	J												l	\$587,632

9

COGEMA Mining, Inc.
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 4

WORKSHEET 4											]			Christensen			
				Irigaray						517		Brine	Brine	Brine	Brine	Permeate	
POND RECLAMATION COST	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Pond 1	Pond 2A	Pond 2B	Pond 3	Pond 1	Pond 2	Pond 3	Pond 4	Pond	
	· · · · · · · · · · · · · · · · · · ·										1	<u> </u>				·····	
POND SLUDGE:	0.188	0.156	0.123	0.135	0.227	0.188	0.156					0.166	0.222	0.143	0.068	0.000	
Average Sludge Depth (Ft)		50,604	62,291	62,291	29,583	50,845	50,604					20,909	20,909	20,909	20,909	0.000	
Average Area of Sludge (Ft <sup>a</sup> )	50,845					9,583	7,907					3,466	4.651	2,983	1,414		
Volume of Sludge (Ft*)	9,583	7,907	7,683	8,435	6,729 249	9,563	293	0	6	0	0	128	172	2,500	52	0	
Volume of Sludge (Yds <sup>2</sup> )	355	293	285	312	249	20.0	293	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Volume of Sludge Per Truck Load (Yds <sup>3</sup> )	20.0	20.0	20.0	20.0				20.0	20.0	20.0	20.0	6.4	20.0	5.5	20.0	0.0	
# of Truck Loads of Sludge	17.8	14.7	14.3	15.6	12.5	17.8	14.7					\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	
Sludge Handling Cost Per Load (\$)	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00	\$238.00 \$0		\$236.00 \$2,047	\$238.00	\$238.00 \$619	\$236.00	
Total Sludge Handling Cost (\$)	\$4,236	\$3,499	\$3,403	\$3,713	\$2,975	\$4,236	\$3,499	\$0	\$0	\$0		\$1,523		\$1,309	\$019		
Transportation & Disposal													100.00	400.00	400.004	400.00	
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Distance (Miles)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Cost Per Mile (\$)	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	
Transportation Cost (\$)	\$6,889	\$5,689	\$5,534	\$6,037	\$4,838	\$6,889	\$5,689	\$0	\$0	\$0	\$0	\$2,477	\$3,328	\$2,129	\$1,006	\$0	
Disposal Cost Per Cubic Foot (\$)	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Quantity Per Truck Load (Yds*)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft*)	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	
Disposal Cost (\$)	\$105,732	\$87,318	\$84,942	\$92,664	\$74,250	\$105,732	\$87,318	\$0	\$0	\$0	\$0	\$38,016	\$51,084	\$32,670	\$15,444	\$0	
Total Transportation & Disposal (\$)	\$112,621	\$93,007	\$90,476	\$98,701	\$79,088	\$112,621	\$93,007	\$0	\$0	\$0	\$0	\$40,493	\$54,412	\$34,799	\$16,450	\$0	
TOTAL SLUDGE COST (\$)	\$116,857	\$96,506	\$93,879	\$102,414	\$82,063	\$116,857	\$96,506	\$0	\$0	\$0	\$0	\$42,016	\$56,459	\$36,108	\$17,069	\$0	\$8
												,					
POND LINER:														1			
Total Pond Area (Acres)	1.75	1.72	1.75	1.72	0.78	2.17	2.17					1.10	1.10	1.10	1.10	0.00	
Total Pond Area (Ft <sup>2</sup> )	76230	74923.2	76230	74923.2	33976.8	94525.2	94525.2	0	0	0	0	47916	47916	47916	47916	0	
Factor For Sloping Sides	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	0.0%	
Total Liner Area (Ft <sup>2</sup> )	91476	89908	91476	89908	40772	113430	113430	0	0	0	0	57499	57499	57499	57499	0	
Liner Thickness (Millimeters)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	0	
Liner Thickness (Inches)	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0.1181	0	
Liner Thickness (Ft)	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0.0098	0	
"Swell" Factor	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%	0.0%	
Liner Volume (Ft*)	1121	1101	1121	1101	499	1390	1390		0		0	704	704	704	704	0	
Truck Loads of Liner	2.1	2.0	2.1	2.0	0.9	2.6	2.6	0,0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	0.0	
Liner Handling Cost (\$)			<u> </u>			2.0											
Labor Crew Cost (\$)	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	<b>S</b> O	
Hours per Load	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	
Liner Handling Cost Per Load (\$)	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$0.00	
Total Liner Handling Cost (\$)	\$504	\$240.00 \$480	\$504	\$480	\$216	\$624	\$624	\$2.40.00	\$0	\$240.00	\$0	\$312	\$312	\$312	\$312	\$0.50	
Transportation & Disposal		კომს	3.04	00+-0	φ <u>2</u> 10	4024		40									
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	150	100.0%	150	100.0%	100.0%	100.0%	150	100.0%	150	100.0%	150	
Distance (Miles)	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	
Cost Per Mile (\$)		\$2.58 \$774		\$2.58 \$774	\$2.58 \$348	\$2.58 \$1,006	\$2.56 \$1,006	\$2.58 \$0	\$2.58 \$0	\$2.58 \$0	\$∠.56 \$0	\$503	\$2.56 \$503	\$2.56 \$503	\$2.56 \$503	\$2.56 \$0	
Transportation Cost (\$)	\$813		\$813		4			\$0 \$11.00	\$0 \$11.00	\$0 \$11.00	\$0 \$11.00	\$503	\$503 \$11.00	\$503 \$11.00	\$503 \$11.00	\$0 \$11.00	
Disposal Cost Per Cubic Foot (\$)	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00				\$11.00	540	\$11.00	\$11.00	\$11.00	540	
Quantity Per Truck Load (Ft*)	540	540	540	540	540	540	540	540	540	540						\$0	
Disposal Cost (\$)	\$12,474	\$11,880	\$12,474	\$11,880	\$5,346	\$15,444	\$15,444	\$0	\$0	\$0	\$0 \$0	\$7,722	\$7,722	\$7,722	\$7,722 \$8,225	\$0 \$0	
Total Transportation & Disposal (\$)	\$13,287	\$12,654	\$13,287	\$12,654	\$5,694	\$16,450	\$16,450	\$0	\$0	\$0	\$0	\$8,225	\$8,225	\$8,225			
TOTAL LINER COST (\$)	\$13,791	\$13,134	\$13,791	\$13,134	\$5,910	\$17,074	\$17,074	\$0	\$0	\$0	\$0	\$8,537	\$8,537	\$8,537	\$8,537	\$0	\$1
	······							· · · · ·			r		••••••	·····			
OND BACKFILL:	4 !															40000	
Backfill required (Yds <sup>3</sup> )	8740	8580	8740	8580	2517	14617	16319	2345	1837	1537	163	9048	9048	9048	9048	18070	
Backfill Cost (\$/Yd³)	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	
TOTAL BACKFILL COST (\$)	\$8,740	\$8,580	\$8,740	\$8,580	\$2,517	\$14,617	\$16,319	\$2,345	\$1,837	\$1,537	\$163	\$9,048	\$9,048	\$9,048	\$9,048	\$18,070	\$1:

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8/17/2001

									-			Christensen					
				Irigaray						517		Brine	Brine	Brine	Brine	Permeate	
POND RECLAMATION COST	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Pond 1	Pond 2A	Pond 2B	Pond 3	Pond 1	Pond 2	Pond 3	Pond 4	Pond	
RADIATION SURVEY					í												
Areal required (acres)	1.75	1.72	1.75	1.72	0.78	2.17	2.17	0.85	0.43	0.43	0.11	1.10	1.10	1.10	1.10	0	
Survey Cost (\$/acre)	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$1.00	
TOTAL SURVEY COST (\$)	\$1,015	\$998	\$1,015	\$998	\$452	\$1,259	\$1,259	\$493	\$249	\$249	\$64	\$638	\$638	\$638	\$638	\$0	\$10,603
LEAK DETECTION SYSTEM REMOVAL																	
Volume of Gravel and Piping (Ft*) (Assume 3")			14337	13851				9261						1			
Quantity per Truckload (Ft <sup>a</sup> )			540	540				540								1	
Quantity to be Shipped (Loads)			26.6	25.7				17.2									
Distance (Miles)			150	150				150				1		1			
Cost per Mile (\$)			\$2.58	\$2.58				\$2.58						1			
Transportation Cost (\$)			\$10,275	\$9,927				\$6,637						1			
Handling Cost (\$238/Load)			\$6,319	\$6,105	1			\$4,082						1			
Disposal Fee per Cubic Foot (\$)			\$3.70	\$3.70				\$3.70									
Disposal Cost (\$)			\$53,047	\$51,249				\$34,266				1		1			
TOTAL LEAK DETECTION SYSTEM REMOVAL	\$0	\$0	\$69,641	\$67,280	\$0	\$0	\$0	\$44,984	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$181,905
																	······
TOTAL POND RECLAMATION COST	\$140,403	\$119,218	\$187,066	\$192,406	\$90,942	\$149,808	\$131,158	\$47,822	\$2,086	\$1,786	\$227	\$60,239	\$74.682	\$54,331	\$35,292	\$18,070	\$1,305,536

11

### SUMMARY - IRIGARAY:

\$705,082
9/00,002
\$93,908
\$73,975
\$8,051
\$181,905
\$1,062,921

### SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST (\$)	\$151,652
TOTAL LINER COST (\$)	\$34,148
TOTAL BACKFILL COST (\$)	\$54,262
TOTAL RADIATION SURVEY COST (\$)	\$2,552
LEAK DETECTION SYSTEM REMOVAL	\$0
TOTAL POND RECLAMATION COST	\$242,614
TOTAL PROJECT COST - CR and IR (\$)	\$1,305,536

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8/17/2001

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		Irigaray				Christ	ensen	
	Mine Units	517 USMT	Monitor/		Mine Units	Monitor/	Misc.	
	#1 Thru #9	Test Sites	Trend	Sub Total	#2 Thru #7	Trend	Regional	Sub Tota
Number of Wells	1064	24	315	1403	2094	327	137	255
Average Depth	250	250	250		410	410	410	
Average Diameter	4.5	4.5	4.5		4.5	4.5	4.5	
Materials					1			
Bentonite Chips Required (Ft <sup>a</sup> Well)	11.6	11.6	11.6		11.6	11.6	11.6	
Bags of Chips Required/Well	15.0	15.0	15.0		15.0	15.0	15.0	
Cost Per Bag (\$)	\$4.50	\$4.50	\$4.50		\$4.50	\$4.50	\$4.50	
Cost/Well Bentonite Chips (\$)	\$67.50	\$67.50	\$67.50		\$67.50	\$67.50	\$67.50	
Gravel Fill Required (Ft*Weil)	15.7	15.7	15.7		33.6	33.6	33.6	
Gravel Fill Required (Yd*Well)	0.6	0.6	0.6		1.2	1.2	1.2	
Cost of Gravel/Yd <sup>+</sup> (\$)	\$17.53	\$17.53	\$17.53		\$17.53	\$17.53	\$17.53	
Cost/Well Gravel Fill (\$)	\$10.19	\$10.19	\$10.19		\$21.82	\$21.82	\$21.82	
Cement Cone/Markers Reg'd/Well	1.0	1.0	1.0		1.0	1.0	1.0	
Cost of Cement Cones/Markers (\$)	\$4.00	\$4.00	\$4.00		\$4.00	\$4.00	\$4.00	
Total Materials Cost per Well	\$81.69	\$81.69	\$81.69		\$93.32	\$93.32	\$93.32	
Labor								
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	
Labor Cost per Hour	\$70.00	\$70.00	\$70.00		\$70.00	\$70.00	\$70.00	
Total Labor Cost per Well (\$)	\$70.00	\$70.00	\$70.00		\$70.00	\$70.00	\$70.00	
Equipment Rental								
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	
Backhoe w/Operator Cost/Hr (\$)	\$35.00	\$35.00	\$35.00		\$35.00	\$35.00	\$35.00	
Total Equipment Cost per Well (\$)	\$35.00	\$35.00	\$35.00		\$35.00	\$35.00	\$35.00	
Total Cost per Well (\$)	\$186.69	\$186.69	\$186.69		\$198.32	\$198.32	\$198.32	
TOTAL WELL ABANDONMENT COST (\$)	\$198,642	\$4,481	\$58,808	\$261,931	\$415,272	\$64,849	\$27,169	\$507,29

12

GRAND TOTAL IRIGARAY AND CHRISTENSEN

\$769,221

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ELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Mine Unit(s) #1 Thru #9	Mine Units #2 Thru #4	Mine Unit #5	Mine Unit #6	Mine Unit #7	Mine Unit #8	Christense & Irigaray
I Wellfield Piping							
A. Removal							
Length/Well (Ft)	100	300	300	300			
Total Number of Wells	1064	1021	494	446			
Total Quantity (Ft)	106400	306300	148200	133800			
Cost of Removal (\$/Ft)	\$0.193	\$0.193	\$0.193	\$0.193			
Cost of Removal (\$)	\$20,535	\$59,116	\$28,603	\$25,823			\$134,07
Average OD (Inches)	3.0	3.0	3.0	3.0			
Chipped Volume Reduction (Ft*/Ft)	0.016	0.016	0.016	0.016			
Chipped Volume (Ft*)	1,702	4,901	2,371	2,141			
Quantity Per Truck Load (FP)	540	540	540	540	1		
Total Number of Truck Loads	3.2	9.1	4.4	4.0			
B. Survey & Decontamination							
Percent Requiring Decontamination	0%	0%	0%	0%			
Loads for Decontamination	0.0	0.0	0.0	0.0			
Cost for Decontamination (\$/Load)	\$550.00	\$550.00	\$550.00	\$550.00			
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0			\$
C. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%			
Loads To Be Shipped	0.0	0.0	0.0	0.0			
Distance (Miles)	48	48	48	48			
Transportation Cost (\$/mile)	\$2.58	\$2.58	\$2.58	\$2.58			
Transportation Cost (\$)	\$0	\$0	\$0	\$0			\$
b. Disposal							
Disposal Fee Per Yd <sup>a</sup>	\$12.00	\$12.00	\$12.00	\$12.00			
Yds <sup>3</sup> Per Load	20	20	20	20			
Disposal Cost (\$)	\$0	\$0	\$0	\$0			
Total Cost - Landfill	<b>\$</b> 0	\$0	\$0	\$0			\$
2.) Licensed Site							
a. Transportation	100.0%	100.0%	400.04	400.00			
Percent To Be Shipped			100.0%	100.0%			
Loads To Be Shipped	3.2	9.1	4.4	4.0			
Distance (Miles)	150	150	150	150			
Cost Per Mile (\$/mile)	\$2.58	\$2.58	\$2.58	\$2.58			<b>e</b> 0.04
Transportation Cost (\$)	\$1,238	\$3,522	\$1,703	\$1,548			\$8,01
b. Disposal							
Disposal Cost Per Ft <sup>a</sup>	\$11.00	\$11.00	\$11.00	\$11.00			
Disposal Fee Per Yd <sup>a</sup>	\$297.00	\$297.00	\$297,00	\$297.00			
Quantity Per Truck Load (Yds <sup>a</sup> )	20	20	20	20			8400 OF
Disposal Cost (\$)	\$19,008	\$54,054	\$26,136	\$23,760			\$122,95
Total Cost - Licensed Site	\$20,246	\$57,576	\$27,839	\$25,308			\$130,96
Total Cost - Transport & Disposal Total Cost - WF Piping Removal & Disposal	\$20,246 \$40,782	\$57,576 \$116,692	\$27,839 \$56,441	\$25,308 \$51,131	\$0	\$0	\$130,965

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8/17/2001

	Irigaray	Christensen	Christensen	Christensen	Christensen	Christensen	Total
	Mine Unit(s)	Mine Units	Mine Unit	Mine Unit	Mine Unit	Mine Unit	Christense
LFIELD EQUIPMENT REMOVAL & DISPOSAL	#1 Thru #9	#2 Thru #4	#5	#6	#7	#8	& Irigaray
Production Well Pumps							
A. Pump and Tubing Removal		[					
Number of Production Wells	424		217	202			
Cost of Removal (\$/well)	\$21.44	\$21.44	\$21.44	\$21.44			
Cost of Removal (\$)	\$9,091	\$9,498	\$4,652	\$4,331	1		\$27,57
Number of Pumps Per Truck Load	180		180	180			
Number of Truck Loads (Pumps)	2.4	2.5	1.2	1.1			
B. Survey & Decontamination (Pumps)							
Percent Requiring Decontamination	50.0%	50.0%	50.0%	50.0%			
Loads for Decontamination	1.2	1.3	0.6	0.6			
Cost for Decontamination (\$/Load)	\$550.00	\$550.00	\$550.00	\$550.00			
Cost for Decontamination (\$)	\$660	\$715	\$330	\$330		1	\$2,03
C. Tubing Volume Reduction & Loading							
Length per Well (Ft)	100	300	300	450			
Total Quantity (Ft)	42,400	132,900	65,100	90,900		ł	
Cost of Removal (\$/Ft)	\$0.024	\$0.024	\$0.024	\$0.024			
Cost of Removal (\$)	\$1,018	\$3,190	\$1,562	\$2,182			\$7,95
Average OD (Inches)	3.0	3.0	3.0	3.0			
Chipped Volume Reduction (Ft*/Ft)	0.016	0.016	0.016	0.016			
Chipped Volume (Ft*)	678	2,126	1,042	1,454			
Quantity per Truckload (Ft*)	540	540	540	540			
Number of Truck Loads	1.3	3.9	1.9	2.7			
D. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%			
Loads To Be Shipped	1.2	1.3	0.6	0.6			
Distance (Miles)	48	48	48	48			
Cost Per Mile (\$/mile)	\$2.58	\$2.58	\$2.58	\$2.58			
Transportation Cost (\$)	\$149	\$161	\$74	\$74			\$45
b. Disposal							
Disposal Fee Per Yd <sup>a</sup>	\$12.00	\$12.00	\$12.00	\$12.00			
Yds <sup>a</sup> Per Load	20	20	20	20		; I	***
Disposal Cost (\$) Total Cost - Landfill	\$288 \$437	\$312 \$473	\$144 \$218	\$144 \$218			\$88
2.) Licensed Site	\$~~37	34/3	<b>⊉</b> ∠10	9 <b>1</b> 10			\$1,34
a. Transportation							
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%			
Percent To Be Shipped (Tubing)	100.0%	100.0%	100.0%	100.0%			
Loads To Be Shipped	2.5	5.2	2.5	3.2			
Distance (Miles)	150	150	150	150			
Cost Per Mile (\$/mile)	\$2.58	\$2.58	\$2.58	\$2.58			
Transportation Cost (\$)	\$951	\$2,008	\$979	\$1,255			\$5,19
b. Disposal	,,	42,000	40/0	41,200			40,10
Disposal Cost Per Ft <sup>a</sup>	\$11.00	\$11.00	\$11.00	\$11.00			
Disposal Fee Per Yd	\$297.00	\$297.00	\$297.00	\$297.00			
Quantity Per Truck Load (Yds <sup>a</sup> )	20	20	20	20			
Disposal Cost (\$)	\$14,590	\$30,815	\$15,022	\$19,265			\$79,69
Total Cost - Licensed Site	\$15,541	\$32,823	\$16,000	\$20,521			\$84,88
Total Cost - Transport & Disposal	\$15,978	\$33,296	\$16,219	\$20,739			\$86,23
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14

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ORKSHEET 6	Irigaray	Christensen	Christensen	Christensen	Christensen	Christensen	Total
	Mine Unit(s)	Mine Units	Mine Unit	Mine Unit	Mine Unit	Mine Unit	Christense
ELLFIELD EQUIPMENT REMOVAL & DISPOSAL	#1 Thru #9	#2 Thru #4	#5	#6	#7	#8	& Irigara
I Surface Trunkline Piping							
A. Removal							
Total Quantity (Ft)	44700	0	0	0	0	0	
Cost of Removal (\$/Ft)	\$0.143	\$0.143	\$0.143	\$0.143	\$0.143	\$0.143	
Cost of Removal (\$)	\$6,392	\$0	\$0	\$0	\$0	\$0	\$6,39
Average OD (Inches)	8.750	8.750	0.000	0.000	0.000	0.000	
Chipped Volume Reduction (Ft*/Ft)	0.088	0.088	0.088	0.088	0.088	0.088	
Chipped Volume (Ft*)	3934	0	0	0	-	0	
Quantity Per Truck Load (Ft*)	540	540	540	540		•	
Total Number of Truck Loads	7.3	0.0	0.0	0.0	0.0	0.0	
B. Survey & Decontamination							
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination (\$/Load)	\$550.00	\$550.00	\$550.00	\$550.00	\$0.00	\$0.00	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	
C. Transport & Disposal						1	
1.) Landfill							
a. Transportation							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%			
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Distance (Miles)	48	48	48	48	\$0.00	\$0.00	
Cost Per Mile (\$/mile)	\$2.58 \$0	\$2.58 \$0	\$2.58 \$0	\$2.58 \$0	\$0.00	\$0.00	
Transportation Cost (\$) b. Disposal	30			40	J *0		
Disposal Fee Per Yd*	\$12.00	\$12.00	\$12.00	\$12.00	\$0.00	\$0.00	
Yds <sup>a</sup> Per Load	312.00	\$12.00	\$12.00	\$12.00			
Disposal Cost (\$)	\$0	\$0 \$0	\$0	\$0	<b>\$</b> 0	50	
Total Cost - Landfili	50	\$0 \$0	\$0 \$0	\$0	50	so	
2.) Licensed Site	1 **		ΨŪ	••			
a. Transportation	1						
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	7.3	0.0	0.0	0.0	0.0	0.0	
Distance (Miles)	150	150	150	150	0	0	
Cost Per Mile (\$/mile)	\$2.58	\$2.58	\$2.58	\$2.58	\$0.00	\$0.00	
Transportation Cost (\$)	\$2,819	\$0	\$0	\$0	\$0	\$0	\$2,81
b, Disposal							
Disposal Cost Per Ft <sup>3</sup>	\$11.00	\$11.00	\$11.00	\$11.00	\$0.00	\$0.00	
Disposal Fee Per Yd <sup>a</sup>	\$297.00	\$297.00	\$297.00	\$297.00	\$0.00	\$0.00	
Quantity Per Truck Load (Yds*)	20	20	20	20	0	0	
Disposal Cost (\$)	\$43,270	\$0	\$0	\$0	\$0	\$0	\$43,27
Total Cost - Licensed Site	\$46,089	\$0	\$0	\$0	\$0	\$0	\$46,08
Total Cost - Transport & Disposal	\$46,089	\$0	\$0	\$0	\$0	\$0	\$46,08
Total Cost - Surface Trunkline Removal & Disposal	\$52,481	\$0	\$0	\$0	\$0	\$0	\$52,48

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ORKSHEET	lrigara Mine Un	· ·	Christensen Mine Units	Christensen Mine Unit	Christensen Mine Unit	Christensen Mine Unit	Christensen Mine Unit	Total Christense
ELLFIELD EQUIPMENT REMOV			#2 Thru #4	#5	#6	#7	#8	& Irigaray
V Buried Trunkline						<u></u>	<u> </u>	
A. Removal		T	· · · · · · · · · · · · · · · · · · ·					
Total Quantity (Ft)		7300	11565	24500	47000	0	0	
Cost of Removal (\$/Ft)		2.80	\$2.80	\$2.80	\$2.60	\$2.80	\$2.80	
Cost of Removal (\$)	\$20.		\$32,382	\$68,600	\$131,600	\$0	\$0	\$253,02
Average OD (Inches)		750	8,750	8,750	12.000	12.000	12.000	
Chipped Volume Reductio		088	0.088	0.088	0.130	0.130	0.130	
Chipped Volume (Ft <sup>s</sup> )		642	1018	2156	6110	0	0	
Quantity Per Truck Load (I	,	540	540	540	540	ŏ	ő	
Number of Truck Loads		1.2	1.9	4.0	11.3	0.0	0.0	
B. Survey & Decontamination	,	- <u></u>						
Dennet Dennisian Dennet			0.04	0.0%	0.0%	0.0%	0.0%	
Percent Requiring Deconta Loads for Decontamination		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
			\$550.00	\$550.00	\$550.00	\$0.00	\$0.00	
Cost for Decontamination.	(······) ····	\$0	\$050.00 \$0	\$550.00 \$0	\$050.00 \$0	\$0.00 \$0	\$0.00 \$0	9
Cost for Decontamination. C. Transport & Disposal	(2)	<u></u>				- <b>1</b>	40	
1.) Landfill			l					
a. Transportation								
Percent To Be S	hinned (	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shi		0.0	0.0	0.0	0.0	0.0	0.0	
Distance (Miles)	ppod	48	48	48	48	0	0	
Cost Per Mile (\$/	mile) \$2	2.58	\$2.58	\$2.58	\$2.58	\$0.00	\$0.00	
Transportation C		\$0	\$0	\$0	\$0	\$0	\$0	5
b. Disposal	0001 (4)	~	**	<b>*</b> *	•••	••	••	
Disposal Fee Per	V-P \$12	2.00	\$12.00	\$12.00	\$12.00	\$0.00	\$0.00	
Yds* Per Load	412 <b>4</b> 12	20	20	20	20	40.00	<b>\$</b> 0.00	
Disposal Cost (\$	、	so	\$0	so	\$0 \$0	\$0	\$0	\$
Total Cost - Landfill	/	\$0	\$0	. SO	\$0 \$0	ŝõ	so	5
2.) Licensed Site		~	**		**	**	<b>\$</b>	
a. Transportation		1						
Percent To Be Si	hipped 100	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shi	••	1.2	1.9	4.0	11.3	0.0	0.0	
Distance (Miles)		150	150	150	150	0.0	0.0	
Cost Per Mile (\$/		2.58	\$2.58	\$2.58	\$2.58	\$0.00	\$0.00	
Transportation C		464	\$735	\$1,548	\$4,373	\$0.55	\$0.50	\$7,12
b. Disposal	•••••••••••••••••••••••••••••••••••••••		4.00	¢1,010	<b>*</b> 1,010		<b>••</b>	¥.1.=
Disposal Cost Pe	e E14	1.00	\$11.00	\$11.00	\$11.00	\$0.00	\$0.00	
Disposal Fee Per			\$297.00	\$297.00	\$297.00	\$0.00	\$0.00	
Quantity Per Tru		20	20	\$297.00 20	\$297.00 20	30.00 0	30.00 0	
			\$11,286	\$23,760	20 \$67,122	\$0	\$0	\$109,29
Disposal Cost (\$) Total Cost - Licensed			\$12,021	\$25,308	\$71,495	30 \$0	\$0 \$0	\$116,41
Total Cost - Transport & D			\$12,021	\$25,308	\$71,495	\$0 \$0	\$0 \$0	\$116,41
Total Cost - Buried Trunkline R			\$44,403	\$93,908	\$203,095	\$0	\$0	\$369,43

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8/17/2001

	Irigaray Mine Unit(s)	Christensen Mine Units	Christensen Mine Unit	Christensen Mine Unit	Christensen Mine Unit	Mine Unit	Total Christense
LFIELD EQUIPMENT REMOVAL & DISPOSAL	#1 Thru #9	#2 Thru #4	#5	#6	#7	#8	& Irigaray
Manholes						· · · · · ·	
A. Removal			_		_		
Total Quantity	5	8	5	11	0	0	
Cost of Removal (\$ Each)	\$130.00	\$130.00	\$130.00	\$130.00	\$130.00	\$130.00	
Cost of Removal (\$)	\$650	\$1,040	\$650	\$1,430	\$0	\$0	\$3,77
Quantity Per Truck Load	10	10	10	10			
Number of Truck Loads	0.5	0.8	0.5	1.1	0.0	0.0	
B. Survey & Decontamination							
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%		
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination (\$/Load)	\$550.00	\$550.00	\$550.00	\$550.00	\$0.00	\$0.00	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$
C. Transport & Disposal							
1.) Landfill							
a. Transportation					i		
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	
Distance (Miles)	48	48	48	48	0	0	
Cost Per Mile (\$/mile)	\$2.58	\$2.58	\$2.58	\$2.58	\$0.00	\$0.00	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	S
b. Disposal							
Disposal Fee Per Yd* (\$)	\$12.00	\$12.00	\$12.00	\$12.00	\$0.00	\$0.00	
Yds <sup>a</sup> Per Load	20	20	20	20	0	0	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$
Total Cost - Landfill	\$0	\$0	\$0	\$0	\$0	\$0	\$
2.) Licensed Site							
a. Transportation							
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.5	0.8	0.5	1.1	0.0	0.0	
Distance (Miles)	150	150	150	150	0	0	
Cost Per Mile (\$/mile)	\$2.58	\$2.58	\$2.58	\$2.58	\$0.00	\$0.00	
Transportation Cost (\$)	\$194	\$310	\$194	\$426	\$0	\$0	\$1,12
b. Disposal							
Disposal Cost Per Ft*	\$11.00	\$11.00	\$11.00	\$11.00	\$0.00	\$0.00	
Disposal Fee Per Yd <sup>a</sup>	\$297.00	\$297.00	\$297.00	\$297.00	\$0.00	\$0.00	
Quantity Per Truck Load (Yds <sup>3</sup> )	20	20	20	20	0	0	
Disposal Cost (\$)	\$2,970	\$4,752	\$2,970	\$6,534	\$0	\$0	\$17,22
Total Cost - Licensed Site	\$3,164	\$5,062	\$3,164	\$6,960	\$0	\$0	\$18,34
Total Cost - Transport & Disposal	\$3,164	\$5,062	\$3,164	\$6,960	\$0	\$0	\$18,34
Total Cost Manhole Removal & Disposal	\$3,814	\$6,102	\$3,814	\$8,390	\$0	\$0	\$22,11

17

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	Irigaray	Christensen	Christensen	Christensen	Christensen		Total
	Mine Unit(s)	Mine Units	Mine Unit	Mine Unit	Mine Unit	Mine Unit	Christense
PSOIL REPLACEMENT & REVEGETATION	#1 Thru #9	#2 Thru #4	#5	#6	#7	#8	& Irigaray
Process Plant and Office Building	Г						
A. Topsoil Handling & Grading					1		
Affected Area (Acres)	5.0	2.5	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12.0	12.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds <sup>a</sup> )	8067	4033	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd*)	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	
Topsoil Handling Cost (\$)	\$8,067	\$4,033	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	
Grading Cost (\$)	\$250	\$125	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$8,317	\$4,158	\$0	\$0	\$0	\$0	\$12,4
B. Radiation Survey & Soil Analysis					<b></b>		
Unit Cost (\$/Ac)	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	
Sub Total - Survey & Analysis	\$2,900	\$1,450	\$0	\$0	\$0	\$0	\$4,3
C. Revegetation	1 1						
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	
Sub Total - Revegation	\$2,459	\$1,229	\$0	\$0	\$0	\$0	\$3,6
Sub Total - Process Plant and Office Bldg.	\$13,675	\$6,838	\$0	\$0	\$0	\$0	\$20,5
Ponds							
A. Topsoil Handling & Grading							
Affected Area (Acres)	20.0	12.0	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12	12	0	0	0	0	
Topsoil Volume (Yds*)	32267	19360	0	0	0	0	
Unit Cost - Haul/Place (\$/YdP)	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	
Topsoil Handling Cost (\$)	\$32,267	\$19,360	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	
Grading Cost (\$)	\$1,000	\$600	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$33,267	\$19,960	\$0	\$0	\$0	\$0	\$53,22
B. Radiation Survey & Soil Analysis							
Unit Cost (\$/Ac)	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	
Sub Total - Survey & Analysis	\$11,600	\$6,960	\$0	\$0	\$0	\$0	\$18,56
C. Revegation	1 1						
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
Mutching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	
Sub Total - Revegation	\$9,834	\$5,901	\$0	\$0	\$0	\$0	\$15,73
Sub Total - Ponds	\$54,701	\$32,821	\$0	\$0	\$0	\$0	\$71,36

18

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		Irigaray Mine Unit(s)	Christensen Mine Units	Christensen Mine Unit	Christensen Mine Unit	Christensen Mine Unit	Christensen Mine Unit	Total Christense
	L REPLACEMENT & REVEGETATION	#1 Thru #9	#2 Thru #4	#5	#6	#7	#8	& Irigara
Well			#2 1110 #4	<b>mv</b>		<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>		a ngara
	Topsoil Handling & Grading							
1	Affected Area (Acres)	40.0	55.0	30.0	50.0	35.0	40.0	
	Average Affected Thickness (Ins)	3.5	0.0	0.0	0.0	0.0	0.0	
	Topsoil Volume (Yds*)	18822	0	0	0	0	0	
	Unit Cost - Haul/Place (\$/Yd*)	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	
	Topsoil Handling Cost (\$)	\$18,822	\$0	\$0	\$0	\$0	\$0	
	Unit Cost - Grading (\$/Ac)	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$0.00	
	Grading Cost (\$)	\$2,000	\$2,750	\$1,500	\$2,500	\$1,750	\$0	
	Sub Total - Topsoil	\$20,822	\$2,750	\$1,500	\$2,500	\$1,750	\$0	\$29,3
<b>B</b> .	Radiation Survey & Soil Analysis							
	Unit Cost (\$/Ac)	\$580.00	\$580.00	\$580.00	\$580.00	\$0.00	\$0.00	
	Sub Total - Survey & Analysis	\$23,200	\$31,900	\$17,400	\$29,000	\$0	\$0	\$101,5
C:								
1	Affected Area (Acres)	0.054	0.036	0	0	0	0	
	Affected Area (ft <sup>2</sup> )	2,352	1,568	0	0	0	0	
	Average Affected Thickness (ft)	0.25	0.25	0	0	0	0	
1	Affected Volume (ft*)	588	392	0	0	0	0	
	Quantity per Truckload (ft <sup>a</sup> )	540	540	540	540	540	540	
	Quantity to be Shipped (Loads)	1.1	0.7	0.0	0.0	0.0	0.0	
	Distance (Miles)	150	150	150	150	150	150	
	Cost per Mile (\$)	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	\$2.58	
	Transportation Cost (\$)	\$421	\$281	\$0	\$0	\$0	\$0	
Í	Handling Cost (\$200/Load)	\$259	\$173	\$0	\$0	\$0	\$0	
	Disposal Fee per Cubic Foot (\$)	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	
	Disposal Cost (\$)	\$2,176	\$1,450	\$0	\$0	\$0	\$0	
	Sub Total - Spill Cleanup	\$2,597	\$1,731	\$0	\$0	\$0	\$0	\$4,3
D.	Revegation							
	Fertilizer (\$/Ac)	\$46.49	\$46,49	\$46.49	\$46.49	\$46.49	\$46.49	
	Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	\$168.68	
	Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
	Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	\$491.71	
	Sub Total - Revegation	\$19,668	\$27,044	\$14,751	\$24,586	\$17,210	\$19,668	\$122,9
	Total - Wellfields (\$)	\$66,288	\$63,425	\$33,651	\$56,086	\$18,960	\$19,668	\$258,0
Roa							·····	
A.	Topsoil Handling & Grading			15.0				
	Affected Area (Acres)	25.0	20.0	15.0	21.0	0.0	0.0	
	Average Affected Thickness (Ins)	12 40333	12 32267	12 24200	12 33880	12 0	12 0	
	Topsoil Volume (Yds²) Unit Cost - Haul/Place (\$/Yd²)	\$1.00	32207 \$1.00	24200 \$1.00	\$1.00	\$1.00	\$1.00	
	Topsoil Handling Cost (\$)	\$40,333	\$1.00	\$24,200	\$33,880	\$1.00	\$1.00	
	Unit Cost - Grading (\$/Ac)	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	
	Grading Cost (\$)	\$1,250	\$1,000	\$750	\$1,050	\$0	\$0	
	Sub Total - Topsoil	\$41,583	\$33,267	\$24,950	\$34,930	\$0	\$0	\$134,7
B	Radiation Survey & Soil Analysis			1-1,000	10.0000			<b>4</b> .4.4.
1	Unit Cost (\$/Ac)	\$580.00	\$580.00	\$580.00	\$580.00	\$0.00	\$0.00	
	Sub Total - Survey & Analysis	\$14,500	\$11,600	\$8,700	\$12,180	\$0	\$0	\$46,9
C.	Revegation							
	Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46,49	\$46,49			
	Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68			
	Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54		1	
	Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71		1	
	Sub Total - Revegation	\$12,293	\$9,834	\$7,376	\$10,326	<b>\$</b> 0	\$0	\$39,8
	Total - Roads (\$)	\$68,376	\$54,701	\$41,026	\$57,436	\$0	\$0	\$221,5

19

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8/17/2001

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	Irigaray Mine Unit(s)	Christensen	Christensen Mine Unit	Christensen	Christensen	Christensen	Total
		Mine Units		Mine Unit	Mine Unit	Mine Unit	Christense
DPSOIL REPLACEMENT & REVEGETATION	#1 Thru #9	#2 Thru #4	#5	#6	#7	#8	& Irigara
01.0.				· · · · ·			
A. Topsoil Handling & Grading		40.0					
Affected Area (Acres)	41.0	19.0	5.0	5.0	0.0	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0	0	0	0	
Topsoil Volume (Yds <sup>1</sup> )	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd <sup>a</sup> )	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	
Topsoil Handling Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$0.00	
Grading Cost (\$)	\$2,050	\$950	\$250	\$250	\$0	\$0	
Sub Total - Topsoil	\$2,050	\$950	\$250	\$250	\$0	\$0	\$3,50
B. Radiation Survey & Soil Analysis							
Unit Cost (\$/Ac)	\$580.00	\$580.00	\$580.00	\$580.00	\$0.00	\$0.00	
Sub Total - Survey & Analysis	\$23,780	\$11,020	\$2,900	\$2,900	\$0	\$0	\$40,60
C. Revegation							
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$0.00	\$0.00	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$0.00	\$0.00	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$0.00	\$0.00	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$0.00	\$0.00	
Sub Total - Revegation	\$20,160	\$9,342	\$2,459	\$2,459	\$0	\$0	\$34,42
Sub Total - Other	\$45,990	\$21,312	\$5,609	\$5,609	\$0	\$0	\$78,52
Remedial Action							
A. Topsoil Handling & Grading							
Affected Area (Acres)	65.5	54.3	25.0	38.0	17.5	20.0	
Average Affected Thickness (Ins)	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds <sup>a</sup> )	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd*)	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	
Topsoil Handling Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Grading Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$0	\$0	\$0	\$0	\$0	\$0	5
B. Radiation Survey & Soil Analysis							
Unit Cost (\$/Ac)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Sub Total - Survey & Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$
C. Revegation							
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$168.68	\$168.68	\$168.68	\$168.68	\$0.00	\$0.00	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$0.00	\$0.00	
Sub Total Cost/Acre	\$491.71	\$491.71	\$491.71	\$491.71	\$46.49	\$46.49	
Sub Total - Revegation	\$32,207	\$26,675	\$12,293	\$18,685	\$814	\$930	\$91,60
Sub Total - Remedial Action	\$32,207	\$26,675	\$12,293	\$18,685	\$814	\$930	\$91.60

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8/17/2001

ORKSHEET 8							
	Irigaray	Christensen	Christensen	Christensen	Christensen	Christensen	Total
	Mine Unit(s)	Mine Units	Mine Unit	Mine Unit	Mine Unit	Mine Unit	Christenser
MISCELLANEOUS RECLAMATION	#1 Thru #9	#2 Thru #4	#5	#6	#7	#8	& Irigaray
I Fence Removal & Disposal	1						
Quantity (Feet)	15240	35260	20000	9000	0	0	
Cost of Removal/Disposal (\$/Ft)	\$0.68	\$0.68	\$0.68	\$0.68	\$0.68	\$0.68	
Cost of Removal/Disposal (\$)	\$10,363	\$23,977	\$13,600	\$6,120	\$0	\$0	\$54,06
Il Powerline Removal & Disposal							
Quantity (Feet)	9450	10565	18000	18000	0	0	
Cost of Removal/Disposal (\$/Ft)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$
III Powerpole Removal & Disposal	1						
Quantity	25	30	60	60	0	0	
Cost of Removal/Disposal (\$/Each)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$
IV Transformer Removal & Disposal							
Quantity	3	1	0	18	0	0	
Cost of Removal/Disposal (\$/Each)	\$2,428	\$2,428	\$2,428	\$595	\$595	\$595	
Cost of Removal/Disposal (\$)	\$7,283	\$2,428	\$0	\$10,710	\$0	\$0	\$20,42
V Booster Pump Assembly Removal &							
Quantity	0	6	5	5	0	0	
Cost of Removal/Disposal (\$/Each)	\$298	\$298	\$298	\$298	\$298	\$298	
Cost of Removal/Disposal (\$)	\$0	\$1,785	\$1,488	\$1,488	\$0	\$0	\$4,76
VI Culvert Removal & Disposal							
Quantity (Feet)	150	1200	1000	1000	0	0	
Cost of Removal/Disposal (\$/Ft)	\$3.48	\$3.48	\$3.48	\$3.48	\$3.48	\$3.48	
Cost of Removal/Disposal (\$)	\$522	\$4,176	\$3,480	\$3,480	\$0	\$0	\$11,65
VII Guardrail Removal							
Quantity (Feet)	200	3000	0	0	0	0	
Cost of Removal/Disposal (\$/Ft)	\$6.19	\$6.19	\$6.19	\$6.19	\$6.19	\$6,19	
Cost of Removal/Disposal (\$)	\$1,238	\$18,570	\$0	\$0	\$0	\$0	\$19,80
VIII Low Water Stream Crossing				· · · ·			
Quantity	0	1	1	0	0	0	
Cost of Removal/Disposal (\$/Each)	\$8,330	\$8,330	\$8,330	\$8,330	\$8,330	\$8,330	
Cost of Removal/Disposal (\$)	\$0	\$8,330	\$8,330	\$0	\$0	\$0	\$16,66
IX Utilities Cost		40,000	40,000				
Quantity (Mos)		8	A	4	0	0	
	\$2,380	\$1,190	\$1,190	\$1,190	\$1,190	\$1,190	
Cost Per Month (\$/Month)	\$2,380	\$9,520	\$4,760	\$4,760	\$1,150	\$0	\$28,56
Total Cost (\$)	1. 49,020	<b>\$9,020</b>			40		<b>420,00</b>
TOTAL MOOFUL ANDOUR COOT	1 600.000	CO 705	\$31,658	\$26,558	\$0	\$0	\$155,92
TOTAL MISCELLANEOUS COST	\$28,926	\$68,785	901,000	a20,000	<b>\$</b> 0	30	9100,82

21

