COGEMA
Mining, Inc.

August 16, 2002

LICENSE SUA-1341
DOCKET NO. 40-8502

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

RE: Annual Surety Bond Update

Dear Mr. Gillen:

Pursuant to License Section 9.5, COGEMA Mining Inc. submits the attached annual bond update for the reclamation and restoration of the Irigaray and Christensen Ranch Projects. Changes are described in the text and detailed worksheets are included.

Please contact me if you have any questions regarding the bond report. Your timely review and approval of the updated (reduced) amount will be appreciated.

Sincerely,

John Vaselin
Radiation Safety Officer

cc: Donna Wichers - COGEMA

WP\2002MEMO\NRC-BOND

NMSSO1
Public

CHRISTENSEN MINE OPERATIONS
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COGEMA Mining, Inc. - Irigaray and Christensen Ranch Projects

Summary of the Updated Bond Estimate for 2002 -2003

The updated bond estimate consists of changes resulting from work completed during the annual report period of August 2001 to August 2002. The changes (reductions) affected three bond worksheets and Table 1 as described below.

Worksheet 1 – Groundwater Restoration

The first phase of restoration, one pore volume displacement of groundwater sweep, has been completed for all of the Irigaray wellfields, as well as Mine Units 2, 3, 4 and 5 at Christensen. In fact, all phases of restoration have been completed at Irigaray and final stabilization monitoring will be completed in the last wellfield in August 2002. If after review of the final report additional restoration were deemed necessary by the regulatory agencies, the remaining bonded level for the second phase of restoration, five pore volumes of reverse osmosis, should be plenty of surety for any remaining work. We are therefore requesting that the dollars for groundwater sweep be deleted from the Irigaray and Christensen Units 2, 3, 4 and 5 restoration bond amount as this work has been accomplished. This is a bond reduction of $277,623.

An additional year of labor has been expended for the groundwater restoration since last year's bond estimate. This brings the remaining labor for restoration down from 3.6 years to 2.6 years. This is a bond reduction of $351,520.

Worksheet 4 – Pond Reclamation

Reclamation of the 5I7 ponds has progressed through radiation surveys, soil sampling and removal of the leak detection systems. In Worksheet 4, the dollars for radiation surveys for the 5I7 ponds ($1,055) have been removed. Additionally, $44,984 had been included for the removal of Pond 1 leak detection system and transportation to Shirley Basin for disposal. This was due to a prior leak in the pond and the assumption that contamination may be found under the pond. The result of the radiation surveys, however, showed that the area within the leak detection system was not contaminated in Pond I, nor in any of the other 5I7 ponds, and the systems have been removed. Accordingly, the $44,984 in the bond for Pond 1 leak detection system removal can be deleted.

Worksheet 5 – Well Plugging and Abandonment

At Irigaray, a total of 14 wells were plugged and abandoned at the 5I7 site (13 wellfield wells and 1 monitor well). Accordingly, Worksheet 5 has been adjusted by reducing the number of wells at the 5I7/USMT site to 11, and monitor/trend wells to 314. This provides a total reduction for the Irigaray site of $2,614, bringing the Irigaray sub-total to $259,317.

At Christensen, a total of 32 injection and recovery wells were plugged and abandoned as a result of MIT failures. This provides a reduction for the Christensen site of $6,346 bringing the Christensen sub-total to $500,954. The grand total for well plugging and abandonment is now $760,271, a reduction of $8,960.

Table 1 – Summary of Reclamation/Restoration Bond Estimate 2002 – 2003

As a result of the above changes to Worksheets 1, 4 and 5, changes to Table 1 have been made. The new subtotal for restoration and reclamation is $9,408,962, or a $684,142 reduction in direct costs. A +1.35% adjustment for inflation from last year has been added (CPI base of August 2001 = 177.5 and current CPI for June 2002 = 179.5). Additionally, the 34.5% contingency remains unchanged to provide a new Grand Total restoration and reclamation cost of $12,825,898. This is an overall $749,326 reduction from last year's estimate. We respectfully request that DEQ approve the bond reduction.

COGEMA Mining, Inc.
SUMMARY OF RECLAMATION/RESTORATION BOND ESTIMATE, 2002 - 2003
WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341
TABLE 1

I	GROUNDWATER RESTORATION - Worksheet 1:		$4,842,891
II	DECOMMISSIONING AND SURFACE RECLAMATION:		
A.	Process Plant(s) Equipment Removal and Disposal Worksheet 2		$212,109
B.	Plant Building(s) Demolition and Disposal Worksheet 3		$587,632
C.	Process Pond Sludge and Liner Handling Worksheet 4		$1,259,496
D.	Well Abandonment Worksheet 5		$760,261
E.	Wellfield Equipment Removal and Disposal Worksheet 6		$832,873
F.	Topsoil Replacement and Revegation Worksheet 7		$757,774
G.	Miscellaneous Reclamation Activities Worksheet 8		$155,926
	Sub Total - Decommissioning and Surface Reclamation		$4,566,071
	TOTAL RESTORATION AND RECLAMATION		$9,408,962
	Add for Inflation: CPI Base of August 2001= 177.5 Current CPI for June 2002 = 179.5	1.35%	$127,021
	SUBTOTAL		$9,535,983

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	15%	
TOTAL CONTINGENCY	34.5%	$3,289,914

GRAND TOTAL RESTORATION AND RECLAMATION	$12,825,898

COGEMA Mining, Inc.
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION

	Ingaray Mine Unit(s) #1 Thru #5	Ingaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
Technical Assumptions:									
Wellfield Area (Ft^2)	522720	784080	890000	798944	510088	1210968	2021243	1332936	1600000
Wellfield Area (Acres)	12 00	18 00	20 43	18 34	11.71	27 80	46 40	30 6	36 7
Affected Ore Zone Area (Ft^2)	522720	784080	890000	798944	550193	1346004	2058344		
Avg Completed Thickness (Ft)	15 0	18 0	11 0	10 0	12 7	19 9	21 8		
Affected Volume:									
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^3)	11290752	20323353 6	14097600	11504793 6	10061929 6	38593685 7	64815534 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		
Gallons 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	46	44	70	65	66	
Average Well Spacing (Ft)	35	35	85	70	85	85	100	100	
Average Well Depth (Ft)	250	250	345	300	430	450	520	550	
I 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	0	0	0	0	0	0	125664292 2		
Total KGals for Treatment	0	0	0	0	0	0	125664		
Cost Assumptions:									
Power									
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	$0 038		
Gallons Per Minute	200	200	200	200	200	200	100		
Gallons Per Hour	12000	12000	12000	12000	12000	12000	6000		
Cost Per Hour	2 62	2 62	1.14	1.14	1.14	1.14	1.14		
Cost Per Gallon	0 00022	0 00022	0 00010	0 00010	0 00010	0 00010	0 00019		
Cost Per KGal ($)	$0 218	$0 218	$0 095	$0 095	$0.095	$0 095	$0 190		
Chemicals									
Barium Chloride ($/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	$0 108		
Elution ($/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	$0	$0	$0	$0	$0	$0	$69,367		
Utilities									
Power ($/Month)	$1,840	$1,840	$200	$200	$200	$200	$200		
Propane ($/Month	$1,000	$1,000	$200	$200	$200	$200	$200		
Time For Treatment									
Minutes For Treatment	0	0	0	0	0	0	628321		
Hours For Treatment	0	0	0	0	0	0	10472		
Days For Treatment	0	0	0	0	0	0	436		
Average Days Per Month	30 4	30 4	30 4	30.4	30 4	30 4	30 4		
Months For Treatment	0 0	0 0	0 0	0 0	0 0	0 0	14 3		
Utilities Cost ($)	$0	$0	$0	$0	$0	$0	$5,738		
TOTAL PLANT & OFFICE COST	$0	$0	$0	$0	$0	$0	$75,105	$0	$0

192,540

COGEMA Mining, Inc.
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
I 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		
Avg Connected Hp	77 8	77 8	25	25	25	25	25		
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	$0 038		
Gallons Per Minute	200	200	200	200	200	200	200		
Gallons Per Hour	12000	12000	12000	12000	12000	12000	12000		
Cost Per Hour ($)	$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	$0	$0	$0	$0	$0	$0	$35,610	$0	$0
TOTAL GROUND WATER SWEEP COST	$0	$0	$0	$0	$0	$0	$110,715	$0	$0
II REVERSE OSMOSIS									
A. PLANT & OFFICE									
Operating Assumptions									
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		
Total Gallons For Treatment	65874763 47	197624290	137085062	111872613	97842203 3	375285000	628321460 9		
Total KGals for Treatment	65875	197624	137085	111873	97842	375285	628321		
Feed to RO (gpm)	300	300	500	500	500	500	500		
Permeate Flow (gpm)	240	240	375	375	375	375	375		
Brine Flow (gpm)	60	60	125	125	125	125	125		
Average RO Recovery	80 0%	80 0%	75 0%	75 0%	75 0%	75 0%	75 0%		
Cost Assumptions·									
Power									
Avg Connected Hp	120 00	120 00	560 00	560 00	560 00	560 00	560 00		
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	$0 038		
Gallons Per Minute	300	300	500	500	500	500	500		
Gallons Per Hour	18000	18000	30000	30000	30000	30000	30000		
Cost Per Hour ($)	$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	$666,021		
Utilities									
Power ($/Month)	$1,840	$1,840	$1,000	$1,000	$1,000	$1,000	$1,000		
Propane ($/Month	$1,000	$1,000	$800	$800	$800	$800	$800		
Time For Treatment									
Minutes For Treatment	219583	658748	274170	223745	195684	750570	1256643		
Hours For Treatment	3660	10979	4570	3729	3261	12510	20944		
Days For Treatment	152	457	190	155	136	521	873		
Average Days Per Month	30 4	30 4	30 4	30 4	30 4	30 4	30 4		
Months For Treatment	5 0	15 0	6.3	5 1	4 5	17.1	28 7		
Utilities Cost ($)	$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	$717,681	$0	$0

COGEMA Mining, Inc.
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
II 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		
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	$0 038		
Gallons Per Minute	300	300	500	500	500	500	500		
Gallons Per Hour	18000	18000	30000	30000	30000	30000	30000		
Cost Per Hour ($)	$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	$0
TOTAL REVERSE OSMOSIS COST	$121,553	$350,232	$211,312	$180,205	$150,925	$579,351	$970,106	$0	$0

COGEMA Mining Inc
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
III WASTE DISPOSAL WELL									
Operating Assumptions									
Annual Evaporation Capacity (Gals)			1,917,612	1,917,612	1,917,612	1,917,612	1,917,612		
Avg Monthly Evap. Capacity (Gals)			159,801	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			34,271	27,968	24,461	93,821	157,080		
Brine Concentration Factor			60%	60%	60%	60%	60%		
Total Concentrated Brine (Gals)			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		
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	15,965,907	13,957,226	53,560,153	89,661,930		
Total WDW Disposal (KGals)			19,556	15,966	13,957	53,560	89,662		
Cost Assumptions									
Power									
Avg Connected Hp			100.00	100.00	100.00	100.00	100.00		
WDW Avg Connected Hp			180.00	180.00	180.00	180.00	180.00		
Kwh's/Hp			0.750	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	$0.887	$0.887	$0.887		
Chemicals ($/Kgals)									
RO Antiscalent ($/Kgals)			$0.192	$0.192	$0.192	$0.192	$0.192		
WDW Antiscalent ($/Kgals)			$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			$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 KGal			$2.164	$2.164	$2.164	$2.164	$2.164		
TOTAL WASTE DISPOSAL WELL COST			$42,313	$34,545	$30,199	$115,886	$193,999	$0	$0

IV STABILIZATION MONITORING									
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									
Power ($/Month)	$0	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000		
Total Power Cost	$0	$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	$37,800	$37,800	$0	$0

COGEMA Mining, Inc.
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 1

GROUNDWATER RESTORATION

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8
V 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			$351,520						
Time Required - Years (See Figure 1)	2 6								
TOTAL RESTORATION LABOR COST	$913,952								

	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Unit #2 Thru #4	Total Christensen & Irigaray
VI 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

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	TOTAL
SUMMARY										
I GROUNDWATER SWEEP	$0	$0	$0	$0	$0	$0	$110,715	$0		
II REVERSE OSMOSIS	$121,553	$350,232	$211,312	$180,205	$150,925	$579,351	$970,106	$0		
III WASTE DISPOSAL WELL	$0	$0	$42,313	$34,545	$30,199	$115,886	$193,999	$0		
IV STABILIZATION	$10,800	$37,800	$37,800	$37,800	$37,800	$37,800	$37,800	$0		
SUB TOTAL	$132,353	$388,032	$291,425	$252,550	$218,923	$733,037	$1,312,619	$0		$3,328,939
V LABOR										$913,952
VI CAPITAL										$200,000
TOTAL GROUNDWATER RESTORATION COST										$4,442,891
WDEQ Mandated Estimate for Excursion Well Cleanup (April 2000)										**$400,000**
GRAND TOTAL										**$4,842,891**

COGEMA Mining, Inc.
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 2

PLANT EQUIPMENT REMOVAL AND DISPOSAL	Irigaray: Maint Area & Laboratory	Irigaray: Main Process Building	Irigaray: Expansion Building	Irigaray: Resin +Sand Filter Media	Irigaray: Dry Pack Area	Irigaray: Restoration Building	Irigaray: Sub Total	Christensen: Satellite Plant	Christensen: Resin + Sand Filter Media	Christensen: Restoration Extension	Christensen: Wellfield Modules	Christensen: Sub Total
Volume (Yds³)	40	200	180	110	40	40		91	197	42	55	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20		20	20	20	20	
Number 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	$5,170
II Dismantle and Loading Cost												
Cost Per Truck Load ($)	$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	$13,764
III Oversize Charges												
Percent Requiring Permits	40 0%	40 0%	40 0%	0 0%	60 0%	40 0%		40 0%	0 0%	40 0%	0 0%	
Cost Per Truck Load ($)	$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	$867
IV Transportation & Disposal												
A Landfill												
Percent To Be Shipped	80 0%	80 0%	80 0%	0 0%	50 0%	80 0%		80 0%	0 0%	80 0%	80 0%	
Distance (Miles)	48	48	48	48	48	48		48	48	48	48	
Cost Per Mile ($)	$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 (Yds³)	20 0	20 0	20 0	20 0	20 0	20 0		20 0	20 0	20 0	20 0	
Quantity Per Truck Load (Ft³)	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	$76,952
TOTAL COST	$5,024	$29,519	$26,567	$38,731	$9,612	$5,904	$115,356	$13,431	$69,364	$6,199	$7,759	$96,753
TOTAL COST - IRIGARAY AND CHRISTENSEN												$212,109

COGEMA Mining, Inc
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WORKSHEET 3

	Irigaray							Christensen						
	Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs	Restoration Extension	Office Building	Warehouse	Sub Total
BUILDING DEMOLITION AND DISPOSAL														
Structural Character	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	3 Story Steel/Masonry	1 Story Steel Frame		2 Story Steel Frame	1 Story Pre Fab (22)	1 Story Pre Fab (4)	2 Story Steel Frame	1 Story Pre-Fab	1 Story Steel Frame	
Demolition Volume (Ft^3)	179400	108720	430400	386400	126000	69640		192000	95040	46720	72000	64800	11000	
Cost of Demolition Per Ft^3	$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														$304,529
CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL														
Area (Ft^2)	8020	7100	17600	18400	5600	3600		9600	0	1440	3600	0	1000	
Average Thickness (Ft)	0 5	0 5	0 5	0 5	1	0 5		0 5	0 0	0 5	0 5	0 0	0 5	
Volume (Ft^3)	4010	3550	8800	9200	5600	1800		4800	0	720	1800	0	500	
Percent Requiring Decontamination	0 0%	0 0%	100 0%	100 0%	100 0%	100 0%		100 0%	0 0%	100 0%	100 0%	0 0%	0 0%	
Percent Decontaminated	0 0%	0 0%	75 0%	75 0%	40 0%	75 0%		75 0%	0 0%	100 0%	100 0%	0 0%	0 0%	
Decontamination ($/$Ft^2$)	$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	$2,085
Demolition ($/$Ft^2$)	$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														
A. Onsite Disposal														
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	
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	$324
B. Licensed Site														
Percent to be Shipped	0%	0%	25%	25%	60%	25%		25%	100%	0%	0%	100%	0%	
Distance (Miles)	150	150	150	150	150	150		150	150	150	150	150	150	
Cost per Mile ($)	$2.58	$2 58	$2 58	$2 58	$2 58	$2 58		$2 58	$2 58	$2 58	$2 58	$2 58	$2 58	
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	$3 70	
Quantity Per Truck Load (Yds^3)	20	20	20	20	20	20		20	20	20	20	20	20	
Quantity Per Truck Load (Ft^3)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost ($)	$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	$25,898	$9,305	$157,148	$24,813	$0	$2,997	$7,493	$0	$1,911	$37,215
TOTAL COST IRIGARAY AND CHRISTENSEN														$194,361

COGEMA Mining, Inc
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WORKSHEET 3

	Irigaray							Christensen						
	Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs	Restoration Extension	Office Building	Warehouse	Sub Total
SOIL REMOVAL & DISPOSAL														
Assume removal of 3" of Contaminated Soil under 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	$444
Quantity to be Shipped (Ft^3)	0	0	4400	4600	1400	900		2400	0	0	0	0	0	
Distance (Miles)	150	150	150	150	150	150		150	150	150	150	150	150	
Cost Per Mile ($)	$2 58	$2 58	$2 58	$2 58	$2 58	$2 58		$2 58	$2 58	$2 58	$2 58	$2 58	$2 58	
Transportation Cost ($)	$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	$3 70	
Quantity per Truckload (Ft^3)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$16,280	$17,020	$5,180	$3,330	$41,810	$8,880	$0	$0	$0	$0	$0	$8,880
Removal, NPDES Pts														
Quantity to be Shipped (Ft^3)			559					5,030						
Distance (Miles)	150	150	150	150	150	150		150	150	150	150	150	150	
Cost Per Mile ($)	$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	$3 70	
Quantity per Truckload (Ft^3)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$2,068	$0	$0	$0	$2,068	$18,611	$0	$0	$0	$0	$0	$18,611
Total Cost	$0	$0	$22,717	$21,169	$6,442	$4,142	$54,470	$33,260	$0	$0	$0	$0	$0	$33,260
TOTAL COST	$0	$0	$22,717	$21,169	$6,442	$4,142	$54,470	$33,260	$0	$0	$0	$0	$0	$33,260
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	$149,576
TOTAL COST IRIGARAY AND CHRISTENSEN														$587,632

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

POND RECLAMATION COST	Irigaray							517				Christensen					
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Pond 1	Pond 2A	Pond 2B	Pond 3	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond	
POND SLUDGE																	
Average Sludge Depth (Ft)	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 Area of Sludge (Ft²)	50,845	50,604	62,291	62,291	29,583	50,845	50,604					20,909	20,909	20,909	20,909	-	
Volume of Sludge (Ft³)	9,583	7,907	7,683	8,435	6,729	9,583	7,907					3,466	4,651	2,983	1,414	-	
Volume of Sludge (Yds³)	355	293	285	312	249	355	293	0	0	0	0	128	172	110	52	0	
Volume of Sludge Per Truck Load (Yds³)	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	
# of Truck Loads of Sludge	17 8	14.7	14 3	15 6	12 5	17 8	14.7	0 0	0 0	0 0	0 0	6 4	8 6	5 5	2 6	0 0	
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	$238 00	$238 00	$238 00	$238 00	$238 00	
Total Sludge Handling Cost ($)	$4,236	$3,499	$3,403	$3,713	$2,975	$4,236	$3,499	$0	$0	$0	$0	$1,523	$2,047	$1,309	$619	$0	
Transportation & Disposal																	
Percent To Be Shipped	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	
Distance (Miles)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Cost Per Mile ($)	$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	$11 00	
Quantity Per Truck Load (Yds³)	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	20 0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	
Disposal Cost ($)	$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	$856,734
POND LINER																	
Total Pond Area (Acres)	1.75	1.72	1 75	1 72	0.78	2 17	2 17					1.10	1.10	1 10	1.10	0 00	
Total Pond Area (Ft²)	76230	74923 2	76230	74923 2	33976 8	94525 2	94525 2	0	0	0	0	47916	47916	47916	47916	0	
Factor For Sloping Sides	20 0%	20 0%	20.0%	20 0%	20 0%	20 0%	20 0%	20 0%	20 0%	20 0%	20 0%	20 0%	20 0%	20 0%	20 0%	0 0%	
Total Liner Area (Ft²)	91476	89908	91476	89908	40772	113430	113430	0	0	0	0	57499	57499	57499	57499	0	
Liner Thickness (Millimeters)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	0	
Liner Thickness (Inches)	0 1181	0 1181	0 1181	0.1181	0 1181	0 1181	0 1181	0.1181	0 1181	0 1181	0 1181	0.1181	0 1181	0 1181	0.1181	0	
Liner Thickness (Ft)	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0 0098	0	
"Swell" Factor	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	25 0%	0 0%	
Liner Volume (Ft³)	1121	1101	1121	1101	499	1390	1390	0	0	0	0	704	704	704	704	0	
Truck Loads of Liner	2 1	2 0	2 1	2 0	0 9	2 6	2 6	0 0	0 0	0 0	0 0	1 3	1 3	1 3	1 3	0 0	
Liner Handling Cost ($)																	
Labor Crew Cost per Hour ($)	$120	$120	$120	$120	$120	$120	$120	$120	$120	$120	$120	$120	$120	$120	$120	$0	
Hours per Load	2 0	2 0	2.0	2.0	2 0	2 0	2 0	2 0	2 0	2 0	2 0	2 0	2 0	2 0	2 0	0 0	
Liner Handling Cost Per Load ($)	$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	$480	$504	$480	$216	$624	$624	$0	$0	$0	$0	$312	$312	$312	$312	$0	
Transportation & Disposal																	
Percent To Be Shipped	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	
Distance (Miles)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	
Cost Per Mile ($)	$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	$2 58	
Transportation Cost ($)	$813	$774	$813	$774	$348	$1,006	$1,006	$0	$0	$0	$0	$503	$503	$503	$503	$0	
Disposal Cost Per Cubic Foot ($)	$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	$11 00	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	
Disposal Cost ($)	$12,474	$11,880	$12,474	$11,880	$5,346	$15,444	$15,444	$0	$0	$0	$0	$7,722	$7,722	$7,722	$7,722	$0	
Total Transportation & Disposal ($)	$13,287	$12,654	$13,287	$12,654	$5,694	$16,450	$16,450	$0	$0	$0	$0	$8,225	$8,225	$8,225	$8,225	$0	
TOTAL LINER COST ($)	$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	$128,057
POND BACKFILL																	
Backfill required (Yds³)	8740	8580	8740	8580	2517	14617	16319	2345	1837	1537	163	9048	9048	9048	9048	18070	
Backfill Cost ($/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	$128,237

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

POND RECLAMATION COST	Irigaray							5I7				Christensen					
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Pond 1	Pond 2A	Pond 2B	Pond 3	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond	
RADIATION SURVEY																	
Areal required (acres)	1.75	1 72	1 75	1.72	0 78	2.17	2.17	0 00	0.00	0 00	0 00	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	$0	$0	$0	$0	$638	$638	$638	$638	$0	$9,548
LEAK DETECTION SYSTEM REMOVAL																	
Volume of Gravel and Piping (Ft³) (Assume 3")			14337	13851				0									
Quantity per Truckload (Ft³)			540	540				540									
Quantity to be Shipped (Loads)			26 6	25 7				0 0									
Distance (Miles)			150	150				150									
Cost per Mile ($)			$2 58	$2 58				$2 58									
Transportation Cost ($)			$10,275	$9,927				$0									
Handling Cost ($238/Load)			$6,319	$6,105				$0									
Disposal Fee per Cubic Foot ($)			$3 70	$3 70				$3 70									
Disposal Cost ($)			$53,047	$51,249				$0									
TOTAL LEAK DETECTION SYSTEM REMOVAL	$0	$0	$69,641	$67,280	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$136,921
TOTAL POND RECLAMATION COST	$140,403	$119,218	$187,066	$192,406	$90,942	$149,808	$131,158	$2,345	$1,837	$1,537	$163	$60,239	$74,682	$54,331	$35,292	$18,070	$1,259,496

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST ($)	$705,082
TOTAL LINER COST ($)	$93,908
TOTAL BACKFILL COST ($)	$73,975
TOTAL RADIATION SURVEY COST ($)	$6,996
LEAK DETECTION SYSTEM REMOVAL	$136,921
TOTAL POND RECLAMATION COST	$1,016,882

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 ($) $1,259,496

COGEMA Mining, Inc.
Restoration and Reclamation Costs
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WORKSHEET 5

WELL PLUGGING AND ABANDONMENT	Irigaray				Christensen			
	Mine Units #1 Thru #9	517 USMT Test Sites	Monitor/ Trend	Sub Total	Mine Units #2 Thru #7	Monitor/ Trend	Misc. Regional	Sub Total
Number of Wells	1064	11	314	1389	2062	327	137	2526
Average Depth	250	250	250		410	410	410	
Average Diameter	4 5	4 5	4 5		4 5	4 5	4 5	
Materials								
Bentonite Chips Required (Ft^3/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	$67.50	
Gravel Fill Required (Ft^3/Well)	15 7	15.7	15 7		33 6	33 6	33 6	
Gravel Fill Required (Yd^3/Well)	0 6	0 6	0 6		1 2	1 2	1.2	
Cost of Gravel/Yd^3 ($)	$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	$21 82	
Cement Cone/Markers Req'd/Well	1 0	1 0	1 0		1 0	1 0	1 0	
Cost of Cement Cones/Markers ($)	$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	$2,054	$58,622	$259,317	$408,926	$64,849	$27,169	$500,944

GRAND TOTAL IRIGARAY AND CHRISTENSEN	$760,261

COGEMA Mining, Inc
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 6

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & 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			$134,077
Average OD (Inches)	3 0	3 0	3 0	3 0			
Chipped Volume Reduction (Ft^3/Ft)	0 016	0 016	0 016	0 016			
Chipped Volume (Ft^3)	1,702	4,901	2,371	2,141			
Quantity Per Truck Load (Ft^3)	540	540	540	540			
Total Number of Truck Loads	3 2	9 1	4 4	4 0			
B Survey & Decontamination							
Percent Requiring Decontamination	0%	0%	0%	0%			
Loads for Decontamination	0 0	0 0	0 0	0 0			
Cost for Decontamination ($/Load)	$550 00	$550 00	$550 00	$550 00			
Cost for Decontamination ($)	$0	$0	$0	$0			$0
C Transport & Disposal							
1) Landfill							
a Transportation							
Percent To Be Shipped	0 0%	0 0%	0 0%	0 0%			
Loads To Be Shipped	0 0	0 0	0 0	0 0			
Distance (Miles)	48	48	48	48			
Transportation Cost ($/mile)	$2 58	$2.58	$2 58	$2.58			
Transportation Cost ($)	$0	$0	$0	$0			$0
b. Disposal							
Disposal Fee Per Yd^3	$12 00	$12 00	$12 00	$12 00			
Yds^3 Per Load	20	20	20	20			
Disposal Cost ($)	$0	$0	$0	$0			
Total Cost - Landfill	$0	$0	$0	$0			$0
2) Licensed Site							
a Transportation							
Percent To Be Shipped	100 0%	100 0%	100 0%	100 0%			
Loads To Be Shipped	3 2	9.1	4 4	4 0			
Distance (Miles)	150	150	150	150			
Cost Per Mile ($/mile)	$2 58	$2 58	$2 58	$2 58			
Transportation Cost ($)	$1,238	$3,522	$1,703	$1,548			$8,011
b. Disposal							
Disposal Cost Per Ft^3	$11 00	$11 00	$11 00	$11.00			
Disposal Fee Per Yd^3	$297 00	$297 00	$297.00	$297 00			
Quantity Per Truck Load (Yds^3)	20	20	20	20			
Disposal Cost ($)	$19,008	$54,054	$26,136	$23,760			$122,958
Total Cost - Licensed Site	$20,246	$57,576	$27,839	$25,308			$130,969
Total Cost - Transport & Disposal	$20,246	$57,576	$27,839	$25,308			$130,969
Total Cost - WF Piping Removal & Disposal	$40,782	$116,692	$56,441	$51,131	$0	$0	$265,046

COGEMA Mining, Inc
Restoration and Reclamation Costs
Wyoming Operations
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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
II Production Well Pumps							
A. Pump and Tubing Removal							
Number of Production Wells	424	443	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			$27,572
Number of Pumps Per Truck Load	180	180	180	180			
Number of Truck Loads (Pumps)	2 4	2 5	1 2	1 1			
B Survey & Decontamination (Pumps)							
Percent Requiring Decontamination	50 0%	50 0%	50 0%	50 0%			
Loads for Decontamination	1 2	1 3	0 6	0 6			
Cost for Decontamination ($/Load)	$550 00	$550 00	$550 00	$550 00			
Cost for Decontamination ($)	$660	$715	$330	$330			$2,035
C Tubing Volume Reduction & Loading							
Length per Well (Ft)	100	300	300	450			
Total Quantity (Ft)	42,400	132,900	65,100	90,900			
Cost of Removal ($/Ft)	$0 024	$0 024	$0 024	$0 024			
Cost of Removal ($)	$1,018	$3,190	$1,562	$2,182			$7,951
Average OD (Inches)	3 0	3 0	3 0	3 0			
Chipped Volume Reduction (Ft^3/Ft)	0 016	0 016	0 016	0 016			
Chipped Volume (Ft^3)	678	2,126	1,042	1,454			
Quantity per Truckload (Ft^3)	540	540	540	540			
Number of Truck Loads	1 3	3 9	1 9	2 7			
D Transport & Disposal							
1) Landfill							
a Transportation							
Percent To Be Shipped (Pumps)	50 0%	50 0%	50 0%	50 0%			
Loads To Be Shipped	1 2	1.3	0 6	0 6			
Distance (Miles)	48	48	48	48			
Cost Per Mile ($/mile)	$2 58	$2.58	$2 58	$2 58			
Transportation Cost ($)	$149	$161	$74	$74			$458
b Disposal							
Disposal Fee Per Yd^3	$12 00	$12 00	$12 00	$12 00			
Yds^3 Per Load	20	20	20	20			
Disposal Cost ($)	$288	$312	$144	$144			$888
Total Cost - Landfill	$437	$473	$218	$218			$1,346
2) Licensed Site							
a. Transportation							
Percent To Be Shipped (Pumps)	50 0%	50 0%	50 0%	50 0%			
Percent To Be Shipped (Tubing)	100 0%	100 0%	100 0%	100 0%			
Loads To Be Shipped	2 5	5 2	2 5	3 2			
Distance (Miles)	150	150	150	150			
Cost Per Mile ($/mile)	$2 58	$2 58	$2 58	$2 58			
Transportation Cost ($)	$951	$2,008	$979	$1,255			$5,192
b Disposal							
Disposal Cost Per Ft^3	$11.00	$11 00	$11.00	$11.00			
Disposal Fee Per Yd^3	$297 00	$297.00	$297 00	$297 00			
Quantity Per Truck Load (Yds^3)	20	20	20	20			
Disposal Cost ($)	$14,590	$30,815	$15,022	$19,265			$79,693
Total Cost - Licensed Site	$15,541	$32,823	$16,000	$20,521			$84,885
Total Cost - Transport & Disposal	$15,978	$33,296	$16,219	$20,739			$86,231
Total Cost - Pump Removal & Disposal	$26,746	$48,699	$22,763	$27,581	$0	$0	$123,789

COGEMA Mining, Inc
Restoration and Reclamation Costs
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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
III 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	$6,392
Average OD (Inches)	8 750	8 750	0 000	0 000	0 000	0 000	
Chipped Volume Reduction (Ft^3/Ft)	0 088	0 088	0 088	0 088	0 088	0 088	
Chipped Volume (Ft^3)	3934	0	0	0	0	0	
Quantity Per Truck Load (Ft^3)	540	540	540	540	0	0	
Total Number of Truck Loads	7.3	0 0	0 0	0 0	0 0	0 0	
B Survey & Decontamination							
Percent Requiring Decontamination	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	
Loads for Decontamination	0 0	0 0	0 0	0 0	0 0	0 0	
Cost for Decontamination ($/Load)	$550 00	$550 00	$550 00	$550 00	$0 00	$0 00	
Cost for Decontamination ($)	$0	$0	$0	$0	$0	$0	$0
C Transport & Disposal							
1) Landfill							
a Transportation							
Percent To Be Shipped	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	
Loads To Be Shipped	0 0	0 0	0 0	0 0	0 0	0 0	
Distance (Miles)	48	48	48	48	0	0	
Cost Per Mile ($/mile)	$2 58	$2 58	$2 58	$2 58	$0 00	$0 00	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0
b Disposal							
Disposal Fee Per Yd^3	$12 00	$12.00	$12.00	$12 00	$0 00	$0 00	
Yds^3 Per Load	20	20	20	20	0	0	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0
2) Licensed Site							
a. Transportation							
Percent To Be Shipped	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	
Loads To Be Shipped	7 3	0 0	0 0	0 0	0 0	0 0	
Distance (Miles)	150	150	150	150	0	0	
Cost Per Mile ($/mile)	$2 58	$2 58	$2 58	$2 58	$0 00	$0 00	
Transportation Cost ($)	$2,819	$0	$0	$0	$0	$0	$2,819
b Disposal							
Disposal Cost Per Ft^3	$11.00	$11.00	$11 00	$11 00	$0 00	$0 00	
Disposal Fee Per Yd^3	$297 00	$297 00	$297 00	$297 00	$0 00	$0 00	
Quantity Per Truck Load (Yds^3)	20	20	20	20	0	0	
Disposal Cost ($)	$43,270	$0	$0	$0	$0	$0	$43,270
Total Cost - Licensed Site	$46,089	$0	$0	$0	$0	$0	$46,089
Total Cost - Transport & Disposal	$46,089	$0	$0	$0	$0	$0	$46,089
Total Cost - Surface Trunkline Removal & Disposal	$52,481	$0	$0	$0	$0	$0	$52,481

COGEMA Mining, Inc.
Restoration and Reclamation Costs
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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
IV Buried Trunkline							
A. Removal							
Total Quantity (Ft)	7300	11565	24500	47000	0	0	
Cost of Removal ($/Ft)	$2 80	$2 80	$2 80	$2 80	$2 80	$2 80	
Cost of Removal ($)	$20,440	$32,382	$68,600	$131,600	$0	$0	$253,022
Average OD (Inches)	8 750	8 750	8 750	12 000	12 000	12 000	
Chipped Volume Reduction (Ft^3/Ft)	0 088	0 088	0 088	0 130	0 130	0 130	
Chipped Volume (Ft^3)	642	1018	2156	6110	0	0	
Quantity Per Truck Load (Ft^3)	540	540	540	540	0	0	
Number of Truck Loads	1 2	1 9	4 0	11.3	0 0	0 0	
B. Survey & Decontamination							
Percent Requiring Decontamination	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	
Loads for Decontamination	0 0	0 0	0 0	0 0	0 0	0 0	
Cost for Decontamination ($/Load)	$550 00	$550 00	$550 00	$550 00	$0 00	$0 00	
Cost for Decontamination ($)	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal							
1) Landfill							
a Transportation							
Percent To Be Shipped	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	
Loads To Be Shipped	0 0	0 0	0 0	0 0	0 0	0 0	
Distance (Miles)	48	48	48	48	0	0	
Cost Per Mile ($/mile)	$2 58	$2 58	$2 58	$2 58	$0 00	$0 00	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0
b. Disposal							
Disposal Fee Per Yd^3	$12 00	$12 00	$12 00	$12 00	$0 00	$0 00	
Yds^3 Per Load	20	20	20	20	0	0	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$0	$0	$0	$0	$0
2) Licensed Site							
a Transportation							
Percent To Be Shipped	100 0%	100 0%	100 0%	100 0%	100 0%	100 0%	
Loads To Be Shipped	1.2	1 9	4 0	11.3	0 0	0 0	
Distance (Miles)	150	150	150	150	0	0	
Cost Per Mile ($/mile)	$2 58	$2.58	$2 58	$2 58	$0 00	$0 00	
Transportation Cost ($)	$464	$735	$1,548	$4,373	$0	$0	$7,121
b Disposal							
Disposal Cost Per Ft^3	$11.00	$11 00	$11 00	$11 00	$0 00	$0 00	
Disposal Fee Per Yd^3	$297.00	$297 00	$297 00	$297 00	$0 00	$0 00	
Quantity Per Truck Load (Yds^3)	20	20	20	20	0	0	
Disposal Cost ($)	$7,128	$11,286	$23,760	$67,122	$0	$0	$109,296
Total Cost - Licensed Site	$7,592	$12,021	$25,308	$71,495	$0	$0	$116,417
Total Cost - Transport & Disposal	$7,592	$12,021	$25,308	$71,495	$0	$0	$116,417
Total Cost - Buried Trunkline Removal & Disposal	$28,032	$44,403	$93,908	$203,095	$0	$0	$369,439

COGEMA Mining, Inc.
Restoration and Reclamation Costs
Wyoming Operations
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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Ingaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
V 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	$3,770
Quantity Per Truck Load	10	10	10	10	10	10	
Number of Truck Loads	0 5	0 8	0 5	1.1	0 0	0 0	
B Survey & Decontamination							
Percent Requiring Decontamination	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	
Loads for Decontamination	0 0	0 0	0 0	0 0	0 0	0 0	
Cost for Decontamination ($/Load)	$550 00	$550 00	$550 00	$550 00	$0 00	$0 00	
Cost for Decontamination ($)	$0	$0	$0	$0	$0	$0	$0
C. Transport & Disposal							
1.) Landfill							
a. Transportation							
Percent To Be Shipped	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	
Loads To Be Shipped	0 0	0 0	0 0	0 0	0 0	0 0	
Distance (Miles)	48	48	48	48	0	0	
Cost Per Mile ($/mile)	$2 58	$2 58	$2 58	$2 58	$0 00	$0 00	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0
b Disposal							
Disposal Fee Per Yd³ ($)	$12 00	$12 00	$12 00	$12 00	$0 00	$0 00	
Yds³ Per Load	20	20	20	20	0	0	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$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	$1,122
b. Disposal							
Disposal Cost Per Ft³	$11 00	$11 00	$11 00	$11 00	$0 00	$0 00	
Disposal Fee Per Yd³	$297 00	$297.00	$297 00	$297.00	$0 00	$0 00	
Quantity Per Truck Load (Yds³)	20	20	20	20	0	0	
Disposal Cost ($)	$2,970	$4,752	$2,970	$6,534	$0	$0	$17,226
Total Cost - Licensed Site	$3,164	$5,062	$3,164	$8,960	$0	$0	$18,348
Total Cost - Transport & Disposal	$3,164	$5,062	$3,164	$8,960	$0	$0	$18,348
Total Cost Manhole Removal & Disposal	$3,814	$6,102	$3,814	$8,390	$0	$0	$22,118
TOTAL COST - WELLFIELD EQUIP REMOVAL & DISP	$151,854	$213,895	$176,926	$290,198	$0	$0	$832,873

COGEMA Mining, Inc.
Restoration and Reclamation Costs
Wyoming Operations
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TOPSOIL REPLACEMENT & REVEGETATION

	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
I Process Plant and Office Building							
A. Topsoil Handling & Grading							
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^3)	8067	4033	0	0	0	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$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	$12,475
B Radiation Survey & Soil Analysis							
Unit Cost ($/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	$4,350
C Revegetation							
Fertilizer ($/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	$3,688
Sub Total - Process Plant and Office Bldg	$13,675	$6,838	$0	$0	$0	$0	$20,513
II Ponds							
A. Topsoil Handling & Grading							
Affected Area (Acres)	20 0	12 0	0 0	0 0	0 0	0 0	
Average Affected Thickness (Ins)	12	12	0	0	0	0	
Topsoil Volume (Yds^3)	32267	19360	0	0	0	0	
Unit Cost - Haul/Place ($/$Yd^3$)	$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	$53,227
B. Radiation Survey & Soil Analysis							
Unit Cost ($/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	$18,560
C Revegation							
Fertilizer ($/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	$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	$9,834	$5,901	$0	$0	$0	$0	$15,735
Sub Total - Ponds	$54,701	$32,821	$0	$0	$0	$0	$71,362

COGEMA Mining, Inc.
Restoration and Reclamation Costs
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TOPSOIL REPLACEMENT & REVEGETATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
III Wellfields							
A. Topsoil Handling & Grading							
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^3)	18822	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd^3$)	$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	$29,322
B Radiation Survey & Soil Analysis							
Unit Cost ($/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	$101,500
C. Spill Cleanup							
Affected Area (Acres)	0 054	0 036	0	0	0	0	
Affected Area (ft^2)	2,352	1,568	0	0	0	0	
Average Affected Thickness (ft)	0 25	0 25	0	0	0	0	
Affected Volume (ft^3)	588	392	0	0	0	0	
Quantity per Truckload (ft^3)	540	540	540	540	540	540	
Quantity to be Shipped (Loads)	1.1	0 7	0 0	0 0	0 0	0 0	
Distance (Miles)	150	150	150	150	150	150	
Cost per Mile ($)	$2 58	$2 58	$2 58	$2 58	$2 58	$2.58	
Transportation Cost ($)	$421	$281	$0	$0	$0	$0	
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	$4,328
D Revegation							
Fertilizer ($/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	$122,928
Sub Total - Wellfields ($)	$66,288	$63,425	$33,651	$56,086	$18,960	$19,668	$258,078
IV Roads							
A. Topsoil Handling & Grading							
Affected Area (Acres)	25 0	20 0	15 0	21 0	0 0	0 0	
Average Affected Thickness (Ins)	12	12	12	12	12	12	
Topsoil Volume (Yds^3)	40333	32267	24200	33880	0	0	
Unit Cost - Haul/Place ($/Yd^3$)	$1 00	$1 00	$1 00	$1.00	$1 00	$1 00	
Topsoil Handling Cost ($)	$40,333	$32,267	$24,200	$33,880	$0	$0	
Unit Cost - Grading ($/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	$134,730
B Radiation Survey & Soil Analysis							
Unit Cost ($/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	$46,980
C Revegation							
Fertilizer ($/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			
Sub Total Cost/Acre	$491.71	$491.71	$491.71	$491.71			
Sub Total - Revegation	$12,293	$9,834	$7,376	$10,326	$0	$0	$39,829
Sub Total - Roads ($)	$68,376	$54,701	$41,026	$57,436	$0	$0	$221,539

COGEMA Mining, Inc
Restoration and Reclamation Costs
Wyoming Operations
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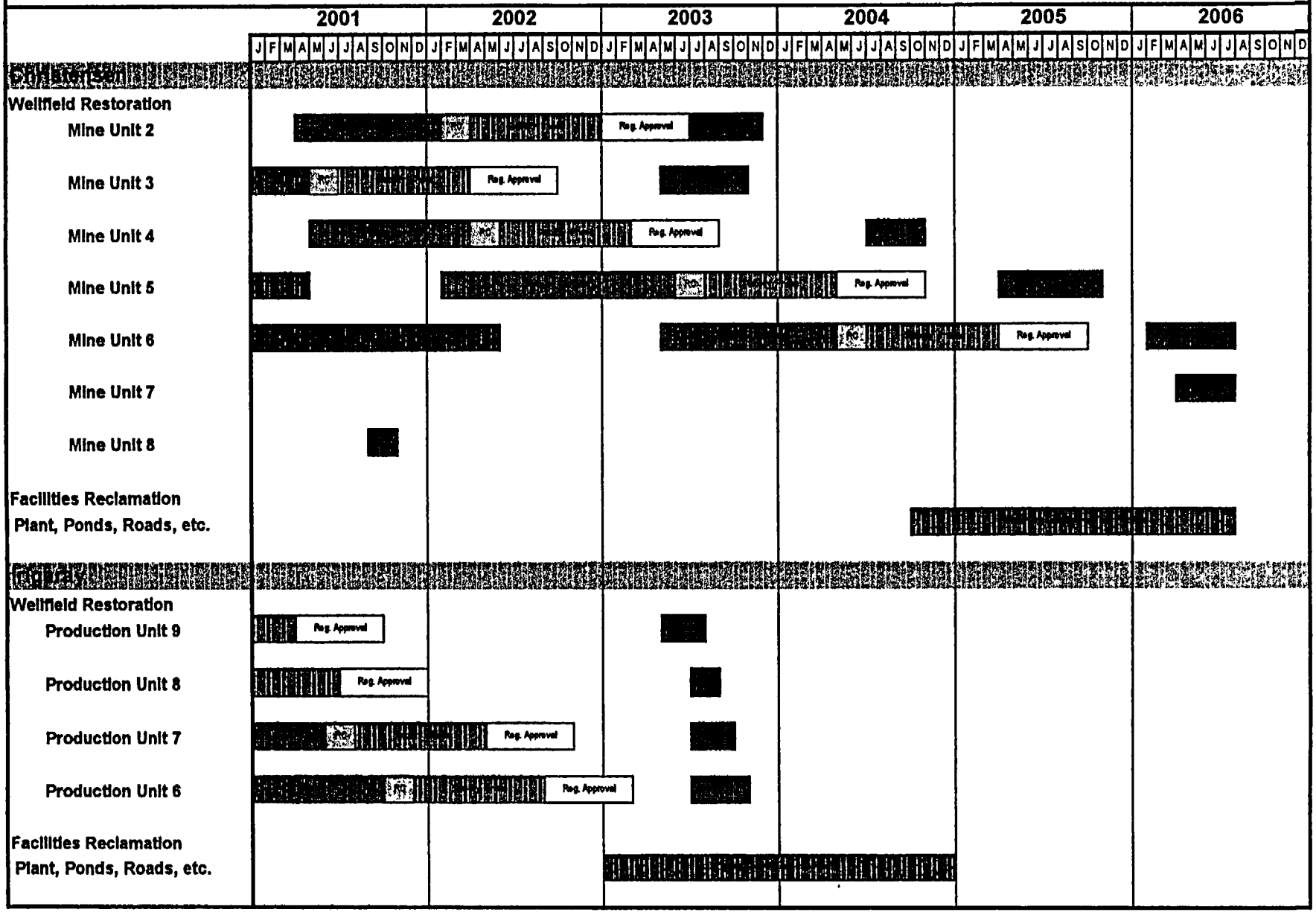
TOPSOIL REPLACEMENT & REVEGETATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
V Other							
A Topsoil Handling & Grading							
Affected Area (Acres)	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^3)	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd^3$)	$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	$3,500
B Radiation Survey & Soil Analysis							
Unit Cost ($/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	$40,600
C Revegation							
Fertilizer ($/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	$34,420
Sub Total - Other	$45,990	$21,312	$5,609	$5,609	$0	$0	$78,520
VI Remedial Action							
A. Topsoil Handling & Grading							
Affected Area (Acres)	65 5	54 3	25 0	38 0	17 5	20 0	
Average Affected Thickness (Ins)	0 0	0 0	0 0	0 0	0 0	0 0	
Topsoil Volume (Yds^3)	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd^3$)	$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	$0
B Radiation Survey & Soil Analysis							
Unit Cost ($/Ac)	$0 00	$0 00	$0 00	$0.00	$0 00	$0 00	
Sub Total - Survey & Analysis	$0	$0	$0	$0	$0	$0	$0
C. Revegation							
Fertilizer ($/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	$91,603
Sub Total - Remedial Action	$32,207	$26,675	$12,293	$18,685	$814	$930	$91,603
TOTAL COST - TOPSOIL & REVEGETATION	$281,237	$205,772	$92,578	$137,815	$19,773	$20,598	$757,774

COGEMA Mining, Inc
Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 8

	MISCELLANEOUS RECLAMATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Total Christensen & Irigaray
I	Fence Removal & Disposal							
	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	$54,060
II	Powerline Removal & Disposal							
	Quantity (Feet)	9450	10565	18000	18000	0	0	
	Cost of Removal/Disposal ($/Ft)	$0 00	$0 00	$0 00	$0 00	$0 00	$0 00	
	Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0
III	Powerpole Removal & Disposal							
	Quantity	25	30	60	60	0	0	
	Cost of Removal/Disposal ($/Each)	$0 00	$0 00	$0 00	$0 00	$0 00	$0 00	
	Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0
IV	Transformer Removal & Disposal							
	Quantity	3	1	0	18	0	0	
	Cost of Removal/Disposal ($/Each)	$2,428	$2,428	$2,428	$595	$595	$595	
	Cost of Removal/Disposal ($)	$7,283	$2,428	$0	$10,710	$0	$0	$20,420
V	Booster Pump Assembly Removal & Disposal							
	Quantity	0	6	5	5	0	0	
	Cost of Removal/Disposal ($/Each)	$298	$298	$298	$298	$298	$298	
	Cost of Removal/Disposal ($)	$0	$1,785	$1,488	$1,488	$0	$0	$4,760
VI	Culvert Removal & Disposal							
	Quantity (Feet)	150	1200	1000	1000	0	0	
	Cost of Removal/Disposal ($/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	$11,658
VII	Guardrail Removal							
	Quantity (Feet)	200	3000	0	0	0	0	
	Cost of Removal/Disposal ($/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	$19,808
VIII	Low Water Stream Crossing							
	Quantity	0	1	1	0	0	0	
	Cost of Removal/Disposal ($/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	$16,660
IX	Utilities Cost							
	Quantity (Mos)	4	8	4	4	0	0	
	Cost Per Month ($/Month)	$2,380	$1,190	$1,190	$1,190	$1,190	$1,190	
	Total Cost ($)	$9,520	$9,520	$4,760	$4,760	$0	$0	$28,560
	TOTAL MISCELLANEOUS COST	$28,926	$68,785	$31,658	$26,558	$0	$0	$155,926

Figure 1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Christensen
Wellfield Restoration
Mine Unit 2
Mine Unit 3
Mine Unit 4
Mine Unit 5
Mine Unit 6
Mine Unit 7
Mine Unit 8
Facilities Reclamation
Plant, Ponds, Roads, etc.
Reg. Approval
Highland
Wellfield Restoration
Production Unit 9
Production Unit 8
Production Unit 7
Production Unit 6
Facilities Reclamation
Plant, Ponds, Roads, etc.
Reg. Approval