



March 19, 2008

Mr. Keith I. McConnell, Deputy Director  
Decommissioning & Uranium Recovery Licensing Directorate  
Division of Waste Management & Environmental Protection  
Office of Federal & State Materials & Environmental Management Programs  
Mail Stop T-8F5  
U.S. Nuclear Regulatory Commission  
11545 Rockville Pike  
Rockville, Maryland 20852-2738

Re: Docket No. 40-8502, License No. SUA-1341

Dear Mr. McConnell:

Enclosed please find two copies of an updated surety estimate for the Irigaray/Christensen Ranch project, including a summary of changes from the current approved surety amount. The update was originally submitted to the Wyoming Department of Environmental Quality as part of the annual mine permit report (August 15, 2007) which was copied to the NRC. Unfortunately, no followup correspondence was sent to you specifically requesting a modification of the surety. We apologize for that oversight. An error in the calculation of the inflation adjustment on the August, 2007 estimate was discovered, and that has been rectified with this submittal.

In summary, this revised estimate totals \$9,336,189, a reduction of \$229,584 from the current surety amount as stated in License Condition 9.5. We request an amendment of SUA-1341 to incorporate the revised surety amount of \$9,336,189. Also note that the current financial institution referenced in LC 9.5 should be Crédit Industriel et Commercial (CIC).

Sincerely,

T. W. Hardgrove  
Manager, Environmental & Regulatory Affairs

Encls.

cc: D. B. Spitzberg, U.S. NRC – Region IV  
G. Mooney, WDEQ

**Reclamation Bond Assumptions  
Irigaray and Christensen Ranch ISL Projects  
WDEQ Permit to Mine No. 478.  
NRC License SUA-1341  
March 19, 2008**

The bond estimate prepared in August, 2007 (copy enclosed) is based upon the 2005-2006 base-bond estimate where very detailed explanations were provided for the updated costs. Costs in the bond estimate are thoroughly detailed and have been developed by using either 1) COGEMA's actual costs, 2) a published reference source, or 3) quotes from local third-party contractors. The method by which unit rates and costs were derived is provided in the 2005-2006 estimate and is not repeated here.

There are only two changes to the enclosed bond estimate from the approved NRC surety in License Condition 9.5 of SUA-1341: the enclosed estimate reflects the completion of the abandonment of most of the wells at the Irigaray site (Worksheet 5), and it includes an inflation adjustment for the past year.

This estimate continues to reflect the installation of the remainder of the Christensen Ranch Mine Unit 7 wells, anticipating a return to an operational status of the license, as discussed in the approved surety submittal for 2006-2007. Restoration estimates for MU7 have not been included in this bond estimate since actual lixiviant injection into a completed MU7 would not occur prior to the next update of the surety estimate (August, 2008).

The resumption of mining at Christensen Ranch will also involve processing of the uranium at the Irigaray central plant facility. Reclamation of the Irigaray wellfield and other associated structures will continue. It should be noted that no technical changes to the mine or reclamation plan are envisioned for the resumption of operations.

Additional reclamation work that has been completed at Irigaray consists of the following:

- A total of 1,093 wells have been plugged and abandoned since the last approved surety update. Worksheet 5 of the bond estimate has been adjusted to reflect the plugging and abandonment of those wells.

No additional reclamation work completion is reflected in the estimate at Christensen Ranch.

**Table 1, Summary:**

- Table 1 is the summary of all the worksheets. Table 1 also indicates an inflation adjustment of 3.5 percent. The currently approved NRC bond reflects an inflation adjustment (CPI, All Urban Consumers) through September, 2006 (see CMI correspondence to the NRC dated February 16, 2007). The enclosed Table 1 updates the inflation adjustment through December, 2007. Note that the August, 2007 submittal with the WDEQ Annual Report mistakenly utilized approximately a two year inflation adjustment (August, 2005 through June, 2007).
- No other changes were made to the Table 1 format (no changes in contingencies, or miscellaneous additions to the bond).
- With the above changes the revised WDEQ bond amount is \$9,034,705 (a decrease of \$229,941) and the revised NRC bond amount is \$9,336,189 (a decrease of \$229,584). Note that the disparity between the WDEQ estimate and the NRC estimate is due to the fact that WDEQ has credited CMI for the completion of groundwater sweep at Christensen, but the NRC has not done so.

TABLE 1

	WDEQ Estimate	NRC Estimate
<b>I GROUNDWATER RESTORATION - Worksheet 1:</b>	<b>\$3,124,253</b>	<b>\$3,358,895</b>
<b>II DECOMMISSIONING AND SURFACE RECLAMATION:</b>		
A. Process Plant(s) Equipment Removal and Disposal Worksheet 2	\$184,990	\$184,990
B. Plant Building(s) Demolition and Disposal Worksheet 3	\$750,473	\$750,473
C. Process Pond Sludge and Liner Handling Worksheet 4	\$696,640	\$696,640
D. Well Abandonment Worksheet 5	\$578,779	\$578,779
E. Wellfield Equipment Removal and Disposal Worksheet 6	\$842,007	\$842,007
F. Topsoil Replacement and Revegetation Worksheet 7	\$942,469	\$942,469
G. Miscellaneous Reclamation Activities Worksheet 8	\$116,118	\$116,118
<b>Sub Total - Decommissioning and Surface Reclamation</b>	<b>\$4,111,476</b>	<b>\$4,111,476</b>
<b>TOTAL RESTORATION AND RECLAMATION</b>	<b>\$7,235,729</b>	<b>\$7,470,371</b>
Adjustment for Inflation = 3.5% (Sep. 2006 CPI All Urban Consumers, 202.9, to Dec. 2007, 210.0)	\$253,251	\$261,463
<b>SUBTOTAL</b>	<b>\$7,488,980</b>	<b>\$7,731,834</b>
<b>Miscellaneous Costs Associated with Third Party Contractors</b>		
	WDEQ	NRC
Project Design	0.5%	0%
Contractor Profit & Mobilization	8%	3%
Pre-construction Investigation	1%	
Project Management	3%	2%
On-site monitoring	0.5%	
Site Security & Liability Assurance	1%	0.0%
Longterm Administration	2%	
<b>Subtotal miscellaneous additions to bond</b>	<b>16.0%</b>	<b>5.0%</b>
		\$1,198,237
<b>SUBTOTAL</b>		<b>\$8,687,216</b>
	WDEQ	NRC
<b>Contingency</b>	<b>4%</b>	<b>15%</b>
		\$347,489
<b>GRAND TOTAL RESTORATION AND RECLAMATION</b>		<b>\$9,034,705</b>
		<b>\$9,336,189</b>

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 2007 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
Technical Assumptions:									
Wellfield Area (Ft <sup>2</sup> )	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 <sup>2</sup> )	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 <sup>3</sup> )	11290752	20323353.6	14097600	11504793.6	10061929.6	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		
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	
Baseline Water Quality wells (prod or inj)	19	27	24	19	15	25	47		
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		
PV's Required			1	1	1	1	1		
Total Gallons For Treatment			27417012.5	22374522.6	19568440.7	75057000	125664292.2		
Total KGals for Treatment			27417	22375	19568	75057	125664		
Cost Assumptions:									
Power									
Avg Connected Hp			40.00	40.00	40.00	40.00	40.00		
Kwh's/Hp			0.83	0.83	0.83	0.83	0.83		
\$/Kwh			\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365		
Gallons Per Minute			200	200	200	200	100		
Gallons Per Hour			12000	12000	12000	12000	6000		
Cost Per Hour			1.21	1.21	1.21	1.21	1.21		
Cost Per Gallon			0.00010	0.00010	0.00010	0.00010	0.00020		
Cost Per KGal (\$)			\$0.101	\$0.101	\$0.101	\$0.101	\$0.202		
Chemicals									
Antiscalent (\$/KGals)			\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947		
Elution (\$/KGals)			\$0.099	\$0.099	\$0.099	\$0.099	\$0.099		
Repair & Maintenance (\$/KGals)			\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379		
Analysis (\$/KGals)			\$0.131	\$0.127	\$0.115	\$0.050	\$0.056		
Total Cost Per KGal			\$0.464	\$0.460	\$0.448	\$0.383	\$0.490		
Total Treatment Cost			\$12,718	\$10,291	\$8,758	\$28,713	\$61,534		
Utilities									
Power (\$/Month)			\$65	\$65	\$65	\$65	\$65		
Telephone (\$/Month)			\$500	\$500	\$500	\$500	\$500		
Time For Treatment									
Minutes For Treatment			137085	111873	97842	375285	628321		
Hours For Treatment			2285	1865	1631	6255	10472		
Days For Treatment			95	78	68	261	436		
Average Days Per Month			30.4	30.4	30.4	30.4	30.4		
Months For Treatment			3.1	2.6	2.2	8.6	14.3		
Utilities Cost (\$)			\$1,768	\$1,443	\$1,262	\$4,841	\$8,105		
<b>TOTAL PLANT &amp; OFFICE COST</b>	\$0	\$0	\$14,487	\$11,734	\$10,020	\$33,554	\$69,639	\$0	\$0

I GROUNDWATER SWEEP (Continued)

B. WELLFIELD

Cost Assumptions:									
Power									
Avg Flow/Pump (gpm)			20	20	20	20	20		
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00		
Avg # of Pumps Required			10.0	10.0	10.0	10.0	10.0		
Avg Connected Hp			25	25	25	25	25		
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830		
\$/Kwh			\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365		

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2007 Restoration and Reclamation Costs  
Wyoming Operations  
WORKSHEET 1

GROUNDWATER RESTORATION	Irigaray	Irigaray	Christensen						
	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 #8
Gallons Per Minute			200	200	200	200	200		
Gallons Per Hour			12000	12000	12000	12000	12000		
Cost Per Hour (\$)			\$0.76	\$0.76	\$0.76	\$0.76	\$0.76		
Cost Per Gallon (\$)			\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001		
Cost Per KGal (\$)			0.063	0.063	0.063	0.063	0.063		
Repair & Maintenance (\$/KGals)			\$0.289	\$0.289	\$0.289	\$0.289	\$0.289		
Total Cost Per KGal			\$0.353	\$0.353	\$0.353	\$0.353	\$0.353		
<b>TOTAL WELLFIELD COST</b>	\$0	\$0	\$9,665	\$7,887	\$6,898	\$26,459	\$44,298	\$0	\$0
<b>TOTAL GROUNDWATER SWEEP COST</b>	\$0	\$0	\$24,152	\$19,622	\$16,918	\$60,012	\$113,937	\$0	\$0

II REVERSE OSMOSIS									
A. PLANT & OFFICE									
Operating Assumptions:									
Flowrate (gpm)			500	500	500	500	500		
PV's Required			5.0	5.0	5.0	5.0	5.0		
Total Gallons For Treatment			137085062	111872613	97842203.3	375285000	628321460.9		
Total KGals for Treatment			137085	111873	97842	375285	628321		
Feed to RO (gpm)			500	500	500	500	500		
Permeate Flow (gpm)			375	375	375	375	375		
Brine Flow (gpm)			125	125	125	125	125		
Average RO Recovery			75.0%	75.0%	75.0%	75.0%	75.0%		
Cost Assumptions:									
Power									
Avg Connected Hp			560.00	560.00	560.00	560.00	560.00		
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830		
\$/Kwh			\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365		
Gallons Per Minute			500	500	500	500	500		
Gallons Per Hour			30000	30000	30000	30000	30000		
Cost Per Hour (\$)			\$16.97	\$16.97	\$16.97	\$16.97	\$16.97		
Cost Per Gallon (\$)			\$0.00057	\$0.00057	\$0.00057	\$0.00057	\$0.00057		
Cost Per KGal (\$)			\$0.566	\$0.566	\$0.566	\$0.566	\$0.566		
Chemicals									
Caustic Soda (\$/KGals)			\$0.018	\$0.018	\$0.018	\$0.018	\$0.018		
Antiscalent (\$/KGals)			\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947		
Elution (\$/KGals)			\$0.099	\$0.099	\$0.099	\$0.099	\$0.099		
Repair & Maintenance (\$/KGals)			\$0.038	\$0.038	\$0.038	\$0.038	\$0.038		
Sampling & Analysis (\$/KGals)			\$0.090	\$0.122	\$0.092	\$0.039	\$0.032		
Total Cost Per KGal (\$)			\$0.905	\$0.937	\$0.907	\$0.854	\$0.847		
Total Pumping Cost (\$)	\$0	\$0	\$124,089	\$104,788	\$88,752	\$320,397	\$531,949		
Utilities									
Power (\$/Month)			\$65	\$65	\$65	\$65	\$65		
Propane (\$/Month)			\$500	\$500	\$500	\$500	\$500		
Time For Treatment									
Minutes For Treatment			274170	223745	195684	750570	1256643		
Hours For Treatment			4570	3729	3261	12510	20944		
Days For Treatment			190	155	136	521	873		
Average Days Per Month			30.4	30.4	30.4	30.4	30.4		
Months For Treatment			6.3	5.1	4.5	17.1	28.7		
Utilities Cost (\$)	\$0	\$0	\$3,560	\$2,882	\$2,543	\$9,662	\$16,216		
<b>TOTAL PLANT &amp; OFFICE COST</b>	\$0	\$0	\$127,648	\$107,670	\$91,294	\$330,059	\$548,165	\$0	\$0

II REVERSE OSMOSIS (Continued)									
B. WELLFIELD									
Cost Assumptions:									
Power									
Avg Flow/Pump (gpm)			20.00	20.00	20.00	20.00	20.00		
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00		
Avg # of Pumps Required			25.0	25.0	25.0	25.0	25.0		
Avg Connected Hp			75.0	75.0	75.0	75.0	75.0		
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830		
\$/Kwh			\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365		
Gallons Per Minute			500	500	500	500	500		
Gallons Per Hour			30000	30000	30000	30000	30000		
Cost Per Hour (\$)			\$2.27	\$2.27	\$2.27	\$2.27	\$2.27		
Cost Per Gallon (\$)			\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001		
Cost Per KGal (\$)			\$0.076	\$0.076	\$0.076	\$0.076	\$0.076		
Repair & Maintenance (\$/KGals)			\$0.289	\$0.289	\$0.289	\$0.289	\$0.289		

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WORKSHEET 1

	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
GROUNDWATER RESTORATION									
Total Cost Per KGal			\$0.365	\$0.365	\$0.365	\$0.365	\$0.365		
TOTAL WELLFIELD COST	\$0	\$0	\$50,000	\$40,804	\$35,687	\$136,881	\$229,172	\$0	\$0
Add for 1 PV of Hydrogen Sulfide gas reductant \$0.863 per Kgal			\$23,661	\$19,309	\$16,888	\$64,774	\$108,448		
TOTAL REVERSE OSMOSIS COST	\$0	\$0	\$201,309	\$167,783	\$143,869	\$531,714	\$885,785	\$0	\$0

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 Req'm'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			0.830	0.830	0.830	0.830	0.830		
\$/Kwh			\$0.0365	\$0.0365	\$0.0365	\$0.0365	\$0.0365		
Gallons Per Minute			150	150	150	150	150		
Gallons Per Hour			9000	9000	9000	9000	9000		
Cost Per Hour (\$)			\$8.48	\$8.48	\$8.48	\$8.48	\$8.48		
Cost Per Gallon (\$)			\$0.0009	\$0.0009	\$0.0009	\$0.0009	\$0.0009		
Cost Per KGal (\$)			\$0.943	\$0.943	\$0.943	\$0.943	\$0.943		
Chemicals (\$/Kgals)									
RO Antiscalent (\$/Kgals)			\$0.190	\$0.190	\$0.190	\$0.190	\$0.190		
WDW Antiscalent (\$/Kgals)			\$0.237	\$0.237	\$0.237	\$0.237	\$0.237		
Sulfuric Acid (\$/Kgals)			\$0.534	\$0.534	\$0.534	\$0.534	\$0.534		
Corrosion Inhibitor			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000		
Algacide			\$0.111	\$0.111	\$0.111	\$0.111	\$0.111		
Repair & Maint (\$/Kgals)			\$0.077	\$0.077	\$0.077	\$0.077	\$0.077		
Total Cost Per KGal			\$2.092	\$2.092	\$2.092	\$2.092	\$2.092		
TOTAL WASTE DISPOSAL WELL COST			\$40,902	\$33,393	\$29,192	\$112,022	\$187,529	\$0	\$0

IV STABILIZATION MONITORING

Operating Assumptions:									
Time of Stabilization (mos)			9	9	9	9	9		
Frequency of Analysis (mos)			3	3	3	3	3		
Total Sets of Analysis			3	3	3	3	3		
Cost Assumptions:									
Generator Rental per sample set			\$280	\$280	\$280	\$280	\$280		
Analytical costs per set			\$3,600	\$2,850	\$2,250	\$3,750	\$7,050		
Total Sampling & Analysis Cost (\$)			\$11,640	\$9,390	\$7,590	\$12,090	\$21,990		
Utilities (Power + Telephone per month)			\$565	\$565	\$565	\$565	\$565		
Total Utilities Cost (\$)			\$5,085	\$5,085	\$5,085	\$5,085	\$5,085		
TOTAL STABILIZATION COST	\$0	\$0	\$16,725	\$14,475	\$12,675	\$17,175	\$27,075	\$0	\$0

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		1.6	
TOTAL RESTORATION LABOR COST	\$562,432		

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 2007 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
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) - new		\$0
II Plug and Abandon CR DW-1		\$73,950
III Plug and Abandon CR 18-3		\$66,250
IV 500 GPM Reverse Osmosis Unit		\$0
<b>Total</b>	\$0	\$140,200

	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
<b>SUMMARY:</b>										
I GROUNDWATER SWEEP	\$0	\$0	\$24,152	\$19,622	\$16,918	\$60,012	\$113,937	\$0		
II REVERSE OSMOSIS	\$0	\$0	\$201,309	\$167,783	\$143,869	\$531,714	\$685,785	\$0		
III WASTE DISPOSAL WELL	\$0	\$0	\$40,902	\$33,393	\$29,192	\$112,022	\$187,529	\$0		
IV STABILIZATION	\$0	\$0	\$16,725	\$14,475	\$12,675	\$17,175	\$27,075	\$0		
SUB TOTAL	\$0	\$0	\$283,088	\$235,273	\$202,654	\$720,923	\$1,214,327	\$0		\$2,656,263
V LABOR										\$562,432
VI CAPITAL										\$140,200
<b>TOTAL GROUNDWATER RESTORATION COST</b>										<b>\$3,358,895</b>
Credit for Completion of Groundwater Sweep (WDEQ)			\$24,152	\$19,622	\$16,918	\$60,012	\$113,937	\$0		\$234,642
Credit for Completion of Reverse Osmosis (WDEQ)										\$0
Credit Completion of Stabilization Monitoring (WDEQ)										\$0
Credit Subtotal			\$24,152	\$19,622	\$16,918	\$60,012	\$113,937	\$0	\$0	\$234,642
<b>GRAND TOTAL WDEQ</b>	\$0	\$0	\$258,936	\$215,651	\$185,735	\$660,910	\$1,100,389	\$0	\$0	<b>\$3,124,253</b>
<b>GRAND TOTAL NRC (no cred)</b>	\$0	\$0	\$283,088	\$235,273	\$202,654	\$720,923	\$1,214,327	\$0	\$0	<b>\$3,358,895</b>

COGEMA Mining, Inc.  
 2007 Restoration and Reclamation Costs  
 Wyoming Operations  
 WORKSHEET 2

PLANT EQUIPMENT REMOVAL AND DISPOSAL	Irigaray							Christensen				
	Maint Area & Laboratory	Main Process Building	Expansion Building	Resin +Sand Filter Media	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Resin + Sand Filter Media	Restoration Extension	Wellfield Modules	Sub Total
Volume (Yds <sup>3</sup> )	40	0	180	110	40	0		91	197	42	55	
Quantity Per Truck Load (Yds <sup>3</sup> )	20	20	20	20	20	20		20	20	20	20	
Number of Truck Loads	2.0	0.0	9.0	5.5	2.0	0.0		4.55	9.9	2.1	2.8	
<b>I Decontamination Cost</b>												
Decontamination Cost (\$/Load)	\$435	\$435	\$435	\$435	\$435	\$435		\$435	\$435	\$435	\$435	
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	\$174	\$0	\$3,915	\$0	\$870	\$0	\$4,959	\$1,979	\$0	\$914	\$1,196	\$4,089
<b>II Dismantle and Loading Cost</b>												
Cost Per Truck Load (\$)	\$650	\$650	\$650	\$650	\$650	\$650		\$650	\$650	\$650	\$650	
Total Cost	\$1,300	\$0	\$5,850	\$3,575	\$1,300	\$0	\$12,025	\$2,958	\$6,403	\$1,365	\$1,788	\$12,513
<b>III Oversize Charges</b>												
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	\$0	\$1,174	\$0	\$391	\$0	\$1,826	\$593	\$0	\$274	\$0	\$867
<b>IV Transportation &amp; Disposal</b>												
<b>A. Landfill</b>												
Percent To Be Shipped	80.0%	80.0%	80.0%	0.0%	50.0%	80.0%		80.0%	0.0%	80.0%	80.0%	
Transportation Cost Per Truck Load	\$160	\$160	\$160	\$160	\$160	\$160		\$160	\$160	\$160	\$160	
Transportation Cost	\$256	\$0	\$1,152	\$0	\$160	\$0		\$582	\$0	\$269	\$352	
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	\$0	\$1,728	\$0	\$240	\$0		\$874	\$0	\$403	\$528	
Total Cost	\$640	\$0	\$2,880	\$0	\$400	\$0		\$1,456	\$0	\$672	\$880	
<b>B. Licensed Site</b>												
Percent To Be Shipped	20.0%	20.0%	20.0%	100.0%	50.0%	20.0%		20.0%	100.0%	20.0%	20.0%	
Transportation Cost Per Truck Load	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000		\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost	\$400	\$0	\$1,800	\$5,500	\$1,000	\$0		\$910	\$9,850	\$420	\$550	
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>3</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 <sup>3</sup> )	540	540	540	540	540	540		540	540	540	540	
Disposal Cost	\$2,376	\$0	\$10,692	\$32,670	\$5,940	\$0		\$5,405	\$58,509	\$2,495	\$3,267	
Total Cost Licensed Site	\$2,776	\$0	\$12,492	\$38,170	\$6,940	\$0		\$6,315	\$68,359	\$2,915	\$3,817	
Total Cost Transportation & Disposal	\$3,416	\$0	\$15,372	\$38,170	\$7,340	\$0	\$64,298	\$7,771	\$68,359	\$3,587	\$4,697	\$84,414
<b>TOTAL COST</b>	\$5,151	\$0	\$26,311	\$41,745	\$9,901	\$0	\$83,108	\$13,301	\$74,762	\$6,139	\$7,681	\$101,883
<b>TOTAL COST - IRIGARAY AND CHRISTENSEN</b>												\$184,990

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 (Ft³)	179400	108720	430400	386400	126000	69640			192000	95040	46720	72000	64800	11000										
Cost of Demolition Per Ft³	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650			\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	\$0.1650	
Demolition Cost (\$)	\$29,601	\$17,939	\$71,016	\$63,756	\$20,790	\$11,491	\$214,592		\$31,680	\$15,682	\$7,709	\$11,880	\$10,692	\$1,815											\$79,457
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 (\$)	\$4,440	\$1,794	\$21,305	\$6,376	\$4,158	\$1,149	\$39,221		\$6,336	\$0	\$0	\$2,376	\$1,069	\$182											\$9,963
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											
Transportation Cost per Truckload	\$160	\$160	\$160	\$160	\$160	\$160			\$160	\$160	\$160	\$160	\$160	\$160											
Transportation Cost (\$)	\$635	\$385	\$1,524	\$1,368	\$446	\$247	\$4,604		\$680	\$267	\$112	\$255	\$155	\$39											\$1,507
Disposal Cost per Truckload (25 CY)	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00			\$300.00	\$300.00	\$300.00	\$300.00	\$300.00	\$300.00											
Disposal Cost (\$)	\$1,191	\$722	\$2,857	\$2,555	\$836	\$462	\$8,632		\$1,274	\$500	\$210	\$478	\$291	\$73											\$2,826
<b>TOTAL COST</b>	<b>\$35,867</b>	<b>\$20,839</b>	<b>\$96,701</b>	<b>\$74,064</b>	<b>\$26,230</b>	<b>\$13,348</b>	<b>\$267,050</b>		<b>\$39,970</b>	<b>\$16,448</b>	<b>\$8,031</b>	<b>\$14,989</b>	<b>\$12,207</b>	<b>\$2,108</b>											<b>\$93,754</b>
<b>TOTAL COST IRIGARAY AND CHRISTENSEN</b>																									<b>\$360,804</b>

**CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL**

Area (Ft²)	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 (Ft³)	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 (\$/Ft²)	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134			\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134												
Decontamination Cost	\$0	\$0	\$1,769	\$1,849	\$300	\$362	\$4,280		\$965	\$0	\$193	\$482	\$0	\$0											\$1,640	
Demolition (\$/Ft²)	\$3.05	\$3.05	\$3.05	\$3.05	\$3.05	\$3.05			\$3.05	\$3.05	\$3.05	\$3.05	\$3.05	\$3.05												
Demolition Cost	\$24,461	\$21,655	\$53,680	\$56,120	\$17,080	\$10,980	\$183,976		\$29,280	\$0	\$4,392	\$10,980	\$0	\$3,050											\$47,702	
Transportation & Disposal																										
A. Onsite Disposal																										
Percent to be Disposed Onsite	100%	100%	90%	90%	40%	90%			90%	0%	100%	100%	0%	100%												
Transportation Cost	\$0	\$0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0	\$0												
Disposal Cost per Cubic Foot	\$0.230	\$0.230	\$0.230	\$0.230	\$0.230	\$0.230			\$0.230	\$0.230	\$0.230	\$0.230	\$0.230	\$0.230												
Disposal Cost (\$)	\$922	\$817	\$1,822	\$1,904	\$515	\$373	\$6,353		\$994	\$0	\$166	\$414	\$0	\$115											\$1,688	
B. Licensed Site																										
Percent to be Shipped	0%	0%	10%	10%	60%	10%			10%	100%	0%	0%	100%	0%												
Transportation Cost per Truckload	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000			\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000												
Transportation Cost (\$)	\$0	\$0	\$1,630	\$1,704	\$6,222	\$333	\$9,889		\$889	\$0	\$0	\$0	\$0	\$0											\$889	
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 (Yds³)	20	20	20	20	20	20			20	20	20	20	20	20												
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540			540	540	540	540	540	540												
Disposal Cost (\$)	\$0	\$0	\$3,256	\$3,404	\$12,432	\$666	\$19,758		\$1,776	\$0	\$0	\$0	\$0	\$0											\$1,776	
<b>TOTAL COST</b>	<b>\$25,383</b>	<b>\$22,472</b>	<b>\$62,156</b>	<b>\$64,981</b>	<b>\$38,550</b>	<b>\$12,714</b>	<b>\$224,255</b>		<b>\$33,903</b>	<b>\$0</b>	<b>\$4,751</b>	<b>\$11,876</b>	<b>\$0</b>	<b>\$3,165</b>											<b>\$53,695</b>	
<b>TOTAL COST IRIGARAY AND CHRISTENSEN</b>																									<b>\$277,951</b>	

**SOIL REMOVAL & DISPOSAL**

Assume removal of 3" of Contaminated Soil under Primary Areas, Disposal at a Licensed facility.																									
Removal with Loader (\$75/hr)	\$75	\$0	\$1,222	\$1,278	\$389	\$250	\$3,139		\$667	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$667
Quantity to be Shipped (Ft³)	0	0	4400	4600	1400	900			2400	0	0	0	0	0											
Transportation Cost per Truckload	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000			\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000											
Transportation Cost (\$)	\$0	\$0	\$8,148	\$8,519	\$2,593	\$1,667	\$20,926		\$4,444	\$0	\$0	\$0	\$0	\$0											\$4,444
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 (Ft³)	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 (Ft³)			559						5,030																
Transportation Cost per Truckload	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000			\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000											

	Irigaray							Christensen						Sub Total	
	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		
Transportation Cost (\$)	\$0	\$0	\$1,035	\$0	\$0	\$0	\$1,035	\$9,315	\$0	\$0	\$0	\$0	\$0	\$0	\$9,315
Disposal fee Per Cubic Foot(\$), Quantity per Truckload (FT³)	\$3.70 540	\$3.70 540	\$3.70 540	\$3.70 540	\$3.70 540	\$3.70 540		\$3.70 540	\$3.70 540	\$3.70 540	\$3.70 540	\$3.70 540	\$3.70 540	\$3.70 540	
Disposal Cost (\$)	\$0	\$0	\$2,068	\$0	\$0	\$0	\$2,068	\$18,611	\$0	\$0	\$0	\$0	\$0	\$0	\$18,611
Total Cost	\$0	\$0	\$28,753	\$26,816	\$8,161	\$5,247	\$68,978	\$41,917	\$0	\$0	\$0	\$0	\$0	\$0	\$41,917
TOTAL COST:	\$0	\$0	\$28,753	\$26,816	\$8,161	\$5,247	\$68,978	\$41,917	\$0	\$0	\$0	\$0	\$0	\$0	\$41,917
<b>TOTAL COST IRIGARAY AND CHRISTENSEN</b>														<b>\$110,895</b>	

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)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00		\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00
TOTAL SURVEY COST (\$)	\$96		\$210	\$220	\$67	\$43	\$636	\$115	\$0	\$17	\$43	\$0	\$12	\$187

TOTAL COST	\$61,346	\$43,311	\$187,820	\$166,082	\$71,008	\$31,352	\$560,919	\$115,906	\$16,448	\$12,799	\$26,908	\$12,207	\$5,285	\$189,554
<b>TOTAL COST IRIGARAY AND CHRISTENSEN</b>														<b>\$750,473</b>

OGEMA Mining, Inc.  
 2007 Restoration and Reclamation Costs  
 Wyoming Operations  
 WORKSHEET 4

POND RECLAMATION COST	Irigaray						Christensen						
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond	
<b>POND SLUDGE:</b>													
Average Sludge Depth (Ft)		0.156					0.156	0.166	0.222	0.143	0.068	0.000	
Average Area of Sludge (Ft²)		50,604					50,604	20,909	20,909	20,909	20,909	-	
Volume of Sludge (Ft³)		7,907					7,907	3,466	4,651	2,983	1,414	-	
Volume of Sludge (Yds³)		293					293	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	
# of Truck Loads of Sludge		14.7					14.7	6.4	8.6	5.5	2.6	0.0	
Sludge Handling Cost Per Load (\$)		\$240.00					\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	
Total Sludge Handling Cost (\$)	\$0	\$3,528	\$0	\$0	\$0	\$0	\$3,528	\$1,536	\$2,064	\$1,320	\$624	\$0	
<b>Transportation &amp; Disposal</b>													
Percent To Be Shipped to Licensed Site		100.0%					100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transportation Cost per Truckload		\$1,000					\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)		\$14,700					\$14,700	\$6,400	\$8,600	\$5,500	\$2,600	\$0	
Disposal Cost Per Cubic Foot (\$)		\$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	
Quantity Per Truck Load (Ft³)		540					540	540	540	540	540	540	
Disposal Cost (\$)		\$87,318					\$87,318	\$38,016	\$51,084	\$32,670	\$15,444	\$0	
Total Transportation & Disposal (\$)	\$0	\$102,018	\$0	\$0	\$0	\$0	\$102,018	\$44,416	\$59,684	\$38,170	\$18,044	\$0	
<b>TOTAL SLUDGE COST (\$)</b>	<b>\$0</b>	<b>\$105,546</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$105,546</b>	<b>\$45,952</b>	<b>\$61,748</b>	<b>\$39,490</b>	<b>\$18,668</b>	<b>\$0</b>	<b>\$376,950</b>
<b>POND LINER:</b>													
Total Pond Area (Acres)		1.72					2.17	1.10	1.10	1.10	1.10	0.00	
Total Pond Area (Ft²)		74923.2					94525.2	47916	47916	47916	47916	0	
Factor For Sloping Sides		20.0%					20.0%	20.0%	20.0%	20.0%	20.0%	0.0%	
Total Liner Area (Ft²)		89908					113430	57499	57499	57499	57499	0	
Liner Thickness (Millimeters)		30					30	30	30	30	30	0	
Liner Thickness (Inches)		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	
"Swell" Factor		25.0%					25.0%	25.0%	25.0%	25.0%	25.0%	0.0%	
Liner Volume (Ft³)		1101					1390	704	704	704	704	0	
Truck Loads of Liner		2.0					2.6	1.3	1.3	1.3	1.3	0.0	
<b>Liner Handling Cost (\$)</b>													
Labor Crew Cost per Hour (\$)		\$90					\$90	\$90	\$90	\$90	\$90	\$0	
Hours per Load		2.0					2.0	2.0	2.0	2.0	2.0	0.0	
Liner Handling Cost Per Load (\$)		\$180.00					\$180.00	\$180.00	\$180.00	\$180.00	\$180.00	\$0.00	
Total Liner Handling Cost (\$)	\$0	\$360	\$0	\$0	\$0	\$0	\$468	\$234	\$234	\$234	\$234	\$0	
<b>Transportation &amp; Disposal</b>													
Percent To Be Shipped to Licensed Site		100.0%					100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transportation Cost per Truckload		\$1,000					\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)		\$2,000					\$2,600	\$1,300	\$1,300	\$1,300	\$1,300	\$0	
Disposal Cost Per Cubic Foot (\$)		\$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	
Disposal Cost (\$)		\$11,880					\$15,444	\$7,722	\$7,722	\$7,722	\$7,722	\$0	
Total Transportation & Disposal (\$)	\$0	\$13,880	\$0	\$0	\$0	\$0	\$18,044	\$9,022	\$9,022	\$9,022	\$9,022	\$0	
<b>TOTAL LINER COST (\$)</b>	<b>\$0</b>	<b>\$14,240</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$18,512</b>	<b>\$9,256</b>	<b>\$9,256</b>	<b>\$9,256</b>	<b>\$9,256</b>	<b>\$0</b>	<b>\$69,776</b>
<b>POND BACKFILL:</b>													
Backfill required (Yds³)	8740	8580	8740	8580	2517	14617	16319	9048	9048	9048	9048	18070	
Backfill Cost (\$/Yd³)	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
<b>TOTAL BACKFILL COST (\$)</b>	<b>\$17,480</b>	<b>\$17,160</b>	<b>\$17,480</b>	<b>\$17,160</b>	<b>\$5,034</b>	<b>\$29,234</b>	<b>\$32,638</b>	<b>\$18,096</b>	<b>\$18,096</b>	<b>\$18,096</b>	<b>\$18,096</b>	<b>\$36,140</b>	<b>\$244,710</b>
<b>RADIATION SURVEY</b>													
Areal required (acres)		1.72		1.72			2.17	1.10	1.10	1.10	1.10	0	
Survey Cost (\$/acre)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
<b>TOTAL SURVEY COST (\$)</b>	<b>\$0</b>	<b>\$894</b>	<b>\$0</b>	<b>\$894</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,128</b>	<b>\$572</b>	<b>\$572</b>	<b>\$572</b>	<b>\$572</b>	<b>\$0</b>	<b>\$5,204</b>
<b>LEAK DETECTION SYSTEM REMOVAL</b>													
Volume of Gravel and Piping (Ft³) (Assume 3")													
Quantity per Truckload (Ft³)													
Quantity to be Shipped to Licensed Site (Loads)													
Transportation Cost per Truckload													
Transportation Cost (\$)													
Handling Cost per load													
Disposal Fee per Cubic Foot (\$)													
Disposal Cost (\$)													

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POND RECLAMATION COST	Irigaray							Christensen					
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond	
TOTAL LEAK DETECTION SYSTEM REMOVAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL POND RECLAMATION COST</b>	<b>\$17,480</b>	<b>\$137,840</b>	<b>\$17,480</b>	<b>\$18,054</b>	<b>\$5,034</b>	<b>\$29,234</b>	<b>\$157,824</b>	<b>\$73,876</b>	<b>\$89,672</b>	<b>\$67,414</b>	<b>\$46,592</b>	<b>\$36,140</b>	<b>\$696,640</b>

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST (\$)	\$211,092
TOTAL LINER COST (\$)	\$32,752
TOTAL BACKFILL COST (\$)	\$136,186
TOTAL RADIATION SURVEY COST (\$)	\$2,916
LEAK DETECTION SYSTEM REMOVAL	\$0
<b>TOTAL POND RECLAMATION COST</b>	<b>\$382,946</b>

SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST (\$)	\$165,858
TOTAL LINER COST (\$)	\$37,024
TOTAL BACKFILL COST (\$)	\$108,524
TOTAL RADIATION SURVEY COST (\$)	\$2,288
LEAK DETECTION SYSTEM REMOVAL	\$0
<b>TOTAL POND RECLAMATION COST</b>	<b>\$313,694</b>
<b>TOTAL PROJECT COST - CR and IR (\$)</b>	<b>\$696,640</b>

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WELL PLUGGING AND ABANDONMENT	Irigaray				Christensen			
	Mine Units #1 Thru #9	5/7 USMT Test Sites	Monitor/ Trend	Sub Total	Mine Units #2 Thru #7	Monitor/ Trend	Misc. Regional	Sub Total
Number of Wells	68	11	0		2379	327	137	2843
Average Depth	250	250	250		450	450	410	
Average Diameter	4.5	4.5	4.5		4.5	4.5	4.5	
<b>Materials</b>								
Bentonite Chips Required (Ft <sup>3</sup> /Well)	11.4	11.4	11.4		11.4	11.4	11.4	
Bags of Chips Required/Well	15.0	15.0	15.0		16.0	16.0	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		\$72.00	\$72.00	\$67.50	
Gravel Fill Required (Ft <sup>3</sup> /Well)	15.7	15.7	15.7		33.6	33.6	33.6	
Gravel Fill Required (Yd <sup>3</sup> /Well)	0.58	0.58	0.58		1.24	1.24	1.24	
Cost of Gravel/Yd <sup>3</sup> (\$)	\$20.00	\$20.00	\$20.00		\$20.00	\$20.00	\$20.00	
Cost/Well Gravel Fill (\$)	\$11.63	\$11.63	\$11.63		\$24.89	\$24.89	\$24.89	
Cement Cones/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	\$83.13	\$83.13	\$83.13		\$100.89	\$100.89	\$96.39	
<b>Labor</b>								
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	
Labor Cost per Hour	\$60.00	\$60.00	\$60.00		\$60.00	\$60.00	\$60.00	
Total Labor Cost per Well (\$)	\$60.00	\$60.00	\$60.00		\$60.00	\$60.00	\$60.00	
<b>Equipment Rental</b>								
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	
Backhoe w/Operator Cost/Hr (\$)	\$38.50	\$38.50	\$38.50		\$38.50	\$38.50	\$38.50	
Total Equipment Cost per Well (\$)	\$38.50	\$38.50	\$38.50		\$38.50	\$38.50	\$38.50	
Total Cost per Well (\$)	\$181.63	\$181.63	\$181.63		\$199.39	\$199.39	\$194.89	
<b>TOTAL WELL ABANDONMENT COSTS (\$)</b>	<b>\$10,585</b>	<b>\$1,998</b>	<b>\$0</b>	<b>\$12,582</b>	<b>\$474,346</b>	<b>\$65,200</b>	<b>\$26,700</b>	<b>\$566,246</b>
<b>GRAND TOTAL IRIGARAY AND CHRISTENSEN</b>								<b>\$578,799</b>

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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
<b>I Wellfield Piping</b>							
<b>A. Removal</b>							
Length/Well (Ft)	100	300	300	300			
Total Number of Wells	602	1021	494	446			
Total Quantity (Ft)	60200	306300	148200	133800			
Cost of Removal (\$/Ft)	\$0.202	\$0.202	\$0.202	\$0.202			
Cost of Removal (\$)	\$12,160	\$61,873	\$29,936	\$27,028			\$130,997
Average OD (Inches)	3.0	3.0	3.0	3.0			
Chipped Volume Reduction (Ft <sup>3</sup> /Ft)	0.016	0.016	0.016	0.016			
Chipped Volume (Ft <sup>3</sup> )	963	4,901	2,371	2,141			
Quantity Per Truck Load (Ft <sup>3</sup> )	540	540	540	540			
Total Number of Truck Loads	1.8	9.1	4.4	4.0			
<b>B. Survey &amp; Decontamination</b>							
Percent Requiring Decontamination	0%	0%	0%	0%			
Loads for Decontamination	0.0	0.0	0.0	0.0			
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00			
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0			\$0
<b>C. Transport &amp; Disposal</b>							
<b>1.) Landfill</b>							
<b>a. Transportation</b>							
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%			
Loads To Be Shipped	0.0	0.0	0.0	0.0			
Transportation Cost per Load	\$160	\$160	\$160	\$160			
Transportation Cost (\$)	\$0	\$0	\$0	\$0			\$0
<b>b. Disposal</b>							
Disposal Fee Per Yd <sup>3</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	\$0	\$0	\$0	\$0			\$0
<b>2.) Licensed Site</b>							
<b>a. Transportation</b>							
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%			
Loads To Be Shipped	1.8	9.1	4.4	4.0			
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000			
Transportation Cost (\$)	\$1,800	\$9,100	\$4,400	\$4,000			\$19,300
<b>b. Disposal</b>							
Disposal Cost Per Ft <sup>3</sup>	\$11.00	\$11.00	\$11.00	\$11.00			
Disposal Fee Per Yd <sup>3</sup>	\$297.00	\$297.00	\$297.00	\$297.00			
Quantity Per Truck Load (Yds <sup>3</sup> )	20	20	20	20			
Disposal Cost (\$)	\$10,692	\$54,054	\$26,136	\$23,760			\$114,642
Total Cost - Licensed Site	\$12,492	\$63,154	\$30,536	\$27,760			\$133,942
Total Cost - Transport & Disposal	\$12,492	\$63,154	\$30,536	\$27,760			\$133,942
Total Cost - WF Piping Removal & Disposal	\$24,652	\$125,027	\$60,472	\$54,788	\$0	\$0	\$264,939
<b>ii Production Well Pumps</b>							
<b>A. Pump and Tubing Removal</b>							
Number of Production Wells	424	443	217	202			
Cost of Removal (\$/well)	\$22.50	\$22.50	\$22.50	\$22.50			
Cost of Removal (\$)	\$0	\$9,968	\$4,883	\$4,545			\$19,395
Number of Pumps Per Truck Load	180	180	180	180			
Number of Truck Loads (Pumps)	0.0	2.5	1.2	1.1			
<b>B. Survey &amp; Decontamination (Pumps)</b>							
Percent Requiring Decontamination	50.0%	50.0%	50.0%	50.0%			
Loads for Decontamination	0.0	1.3	0.6	0.6			
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00			
Cost for Decontamination (\$)	\$0	\$566	\$261	\$261			\$1,088
<b>C. Tubing Volume Reduction &amp; Loading</b>							
Length per Well (Ft)	100	300	300	450			
Total Quantity (Ft)	42,400	132,900	65,100	90,900			
Cost of Removal (\$/Ft)	\$0.025	\$0.025	\$0.025	\$0.025			
Cost of Removal (\$)	\$0	\$3,323	\$1,628	\$2,273			\$7,223
Average OD (Inches)	3.0	3.0	3.0	3.0			
Chipped Volume Reduction (Ft <sup>3</sup> /Ft)	0.016	0.016	0.016	0.016			
Chipped Volume (Ft <sup>3</sup> )	678	2,126	1,042	1,454			

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	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
<b>WELLFIELD EQUIPMENT REMOVAL &amp; DISPOSAL</b>							
Quantity per Truckload (Ft³)	540	540	540	540			
Number of Truck Loads	1.3	3.9	1.9	2.7			
<b>D. Transport &amp; Disposal</b>							
1.) Landfill							
a. Transportation							
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%			
Loads To Be Shipped	0.0	1.3	0.6	0.6			
Transportation Cost per Load	\$160	\$160	\$160	\$160			
Transportation Cost (\$)	\$0	\$208	\$96	\$96			\$400
b. Disposal							
Disposal Fee Per Yd³	\$12.00	\$12.00	\$12.00	\$12.00			
Yds³ Per Load	20	20	20	20			
Disposal Cost (\$)	\$0	\$312	\$144	\$144			\$600
Total Cost - Landfill	\$0	\$520	\$240	\$240			\$1,000
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	1.3	5.2	2.5	3.2			
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000			
Transportation Cost (\$)	\$1,256	\$5,188	\$2,529	\$3,243			\$12,216
b. Disposal							
Disposal Cost Per Ft³	\$11.00	\$11.00	\$11.00	\$11.00			
Disposal Fee Per Yd³	\$297.00	\$297.00	\$297.00	\$297.00			
Quantity Per Truck Load (Yds³)	20	20	20	20			
Disposal Cost (\$)	\$7,462	\$30,815	\$15,022	\$19,265			\$72,565
Total Cost - Licensed Site	\$8,719	\$36,003	\$17,550	\$22,509			\$84,781
Total Cost - Transport & Disposal	\$8,719	\$36,523	\$17,790	\$22,749			\$85,781
Total Cost - Pump Removal & Disposal	\$8,719	\$50,379	\$24,561	\$29,827	\$0	\$0	\$113,486
<b>III Surface Trunkline Piping</b>							
A. Removal							
Total Quantity (Ft)	44700	0	0	0	0	0	
Cost of Removal (\$/Ft)	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0
Cost of Removal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Average OD (Inches)	8.750	8.750	0.000	0.000	0.000	0.000	
Chipped Volume Reduction (Ft³/Ft)	0.088	0.088	0.088	0.088	0.088	0.088	
Chipped Volume (Ft³)	3934	0	0	0	0	0	
Quantity Per Truck Load (Ft³)	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)	\$435.00	\$435.00	\$435.00	\$435.00	\$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	
Transportation Cost per Load	\$160	\$160	\$160	\$160	\$0	\$0	
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	7.3	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	
Transportation Cost (\$)	\$7,284	\$0	\$0	\$0	\$0	\$0	\$7,284
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	

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	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
<b>WELLFIELD EQUIPMENT REMOVAL &amp; DISPOSAL</b>							
Quantity Per Truck Load (Yds*)	20	20	20	20	0	0	
Disposal Cost (\$)	\$43,270	\$0	\$0	\$0	\$0	\$0	\$43,270
Total Cost - Licensed Site	\$50,554	\$0	\$0	\$0	\$0	\$0	\$50,554
Total Cost - Transport & Disposal	\$50,554	\$0	\$0	\$0	\$0	\$0	\$50,554
Total Cost - Surface Trunkline Removal & Disposal	\$50,554	\$0	\$0	\$0	\$0	\$0	\$50,554
<b>IV Buried Trunkline</b>							
<b>A. Removal</b>							
Total Quantity (Ft)	7300	11565	24500	47000	0	0	
Cost of Removal (\$/Ft)	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	
Cost of Removal (\$)	\$22,776	\$36,083	\$76,440	\$146,640	\$0	\$0	\$281,939
Average OD (Inches)	8.750	8.750	8.750	12.000	12.000	12.000	
Chipped Volume Reduction (Ft <sup>3</sup> /Ft)	0.088	0.088	0.088	0.130	0.130	0.130	
Chipped Volume (Ft <sup>3</sup> )	642	1018	2156	6110	0	0	
Quantity Per Truck Load (Ft <sup>3</sup> )	540	540	540	540	0	0	
Number of Truck Loads	1.2	1.9	4.0	11.3	0.0	0.0	
<b>B. Survey &amp; Decontamination</b>							
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)	\$435.00	\$435.00	\$435.00	\$435.00	\$0.00	\$0.00	
Cost for Decontamination. (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>C. Transport &amp; Disposal</b>							
<b>1.) Landfill</b>							
<b>a. Transportation</b>							
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	
Transportation Cost per Load	\$160	\$160	\$160	\$160	\$0	\$0	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>b. Disposal</b>							
Disposal Fee Per Yd <sup>3</sup>	\$12.00	\$12.00	\$12.00	\$12.00	\$0.00	\$0.00	
Yds <sup>3</sup> 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
<b>2.) Licensed Site</b>							
<b>a. Transportation</b>							
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	
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	
Transportation Cost (\$)	\$1,200	\$1,900	\$4,000	\$11,300	\$0	\$0	\$18,400
<b>b. Disposal</b>							
Disposal Cost Per Ft <sup>3</sup>	\$11.00	\$11.00	\$11.00	\$11.00	\$0.00	\$0.00	
Disposal Fee Per Yd <sup>3</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 (\$)	\$7,128	\$11,286	\$23,760	\$67,122	\$0	\$0	\$109,296
Total Cost - Licensed Site	\$8,328	\$13,186	\$27,760	\$78,422	\$0	\$0	\$127,696
Total Cost - Transport & Disposal	\$8,328	\$13,186	\$27,760	\$78,422	\$0	\$0	\$127,696
Total Cost - Buried Trunkline Removal & Disposal	\$31,104	\$49,269	\$104,200	\$225,062	\$0	\$0	\$409,635
<b>V Manholes</b>							
<b>A. Removal</b>							
Total Quantity	5	8	5	11	0	0	
Cost of Removal (\$ Each)	\$117.00	\$117.00	\$117.00	\$117.00	\$117.00	\$117.00	
Cost of Removal (\$)	\$585	\$936	\$585	\$1,287	\$0	\$0	\$3,393
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>B. Survey &amp; Decontamination</b>							
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)	\$435.00	\$435.00	\$435.00	\$435.00	\$0.00	\$0.00	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>C. Transport &amp; Disposal</b>							
<b>1.) Landfill</b>							
<b>a. Transportation</b>							
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	
Transportation Cost per Load	\$160	\$160	\$160	\$160	\$0	\$0	

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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
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal							
Disposal Fee Per Yd <sup>3</sup> (\$)	\$12.00	\$12.00	\$12.00	\$12.00	\$0.00	\$0.00	
Yds <sup>3</sup> 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	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	
Transportation Cost per Load	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
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>3</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 (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Licensed Site	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Transport & Disposal	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Cost Manhole Removal &amp; Disposal</b>	<b>\$585</b>	<b>\$936</b>	<b>\$585</b>	<b>\$1,287</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,393</b>
<b>TOTAL COST - WELLFIELD EQUIP REMOVAL &amp; DISP</b>	<b>\$115,614</b>	<b>\$225,610</b>	<b>\$189,819</b>	<b>\$310,964</b>	<b>\$0</b>	<b>\$0</b>	<b>\$842,007</b>

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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
<b>I Process Plant and Office Building</b>							
<b>A. Topsoil Handling &amp; Grading</b>							
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>3</sup> )	8067	4033	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd <sup>3</sup> )	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$16,133	\$8,067	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	
Grading Cost (\$)	\$192	\$96	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$16,326	\$8,163	\$0	\$0	\$0	\$0	\$24,488
<b>B. Radiation Survey &amp; Soil Analysis</b>							
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$2,600	\$1,300	\$0	\$0	\$0	\$0	\$3,900
<b>C. Revegetation</b>							
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 - Revegetation	\$2,459	\$1,229	\$0	\$0	\$0	\$0	\$3,688
Sub Total - Process Plant and Office Bldg.	\$21,384	\$10,692	\$0	\$0	\$0	\$0	\$32,076
<b>II Ponds</b>							
<b>A. Topsoil Handling &amp; Grading</b>							
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 <sup>3</sup> )	32267	19360	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd <sup>3</sup> )	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$64,533	\$38,720	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	
Grading Cost (\$)	\$769	\$461	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$65,302	\$39,181	\$0	\$0	\$0	\$0	\$104,484
<b>B. Radiation Survey &amp; Soil Analysis</b>							
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$10,400	\$6,240	\$0	\$0	\$0	\$0	\$16,640
<b>C. Revegetation</b>							
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 - Revegetation	\$9,834	\$5,901	\$0	\$0	\$0	\$0	\$15,735
Sub Total - Ponds	\$85,537	\$51,322	\$0	\$0	\$0	\$0	\$136,858
<b>III Wellfields</b>							
<b>A. Topsoil Handling &amp; Grading</b>							
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 <sup>3</sup> )	18822	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd <sup>3</sup> )	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$37,644	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$0.00	
Grading Cost (\$)	\$1,538	\$2,115	\$1,154	\$1,923	\$1,346	\$0	
Sub Total - Topsoil	\$39,182	\$2,115	\$1,154	\$1,923	\$1,346	\$0	\$45,719
<b>B. Radiation Survey &amp; Soil Analysis</b>							
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$0.00	\$0.00	
Sub Total - Survey & Analysis	\$20,800	\$28,600	\$15,600	\$26,000	\$0	\$0	\$91,000
<b>C. Spill Cleanup</b>							
Affected Area (Acres)		0.036	0	0	0	0	
Affected Area (ft <sup>2</sup> )		1,568	0	0	0	0	
Average Affected Thickness (ft)		0.25	0	0	0	0	
Affected Volume (ft <sup>3</sup> )		392	0	0	0	0	
Quantity per Truckload (ft <sup>3</sup> )		540	540	540	540	540	
Quantity to be Shipped (Loads)		0.7	0.0	0.0	0.0	0.0	
Transportation Cost per Load		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Transportation Cost (\$)		\$726	\$0	\$0	\$0	\$0	
Handling Cost (\$240/load)		\$174	\$0	\$0	\$0	\$0	
Disposal Fee per Cubic Foot (\$)		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	
Disposal Cost (\$)		\$1,450	\$0	\$0	\$0	\$0	

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	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
<b>TOPSOIL REPLACEMENT &amp; REVEGETATION</b>							
Sub Total - Spill Cleanup	\$0	\$2,351	\$0	\$0	\$0	\$0	\$2,351
<b>D. Revegation</b>							
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 (\$)	\$79,651	\$60,109	\$31,505	\$52,508	\$18,556	\$19,668	\$261,997
<b>IV Roads</b>							
<b>A. Topsoil Handling &amp; Grading</b>							
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 <sup>3</sup> )	40333	32267	24200	33880	0	0	
Unit Cost - Haul/Place (\$/Yd <sup>3</sup> )	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$80,667	\$64,533	\$48,400	\$67,760	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	
Grading Cost (\$)	\$961	\$769	\$577	\$807	\$0	\$0	
Sub Total - Topsoil	\$81,628	\$65,302	\$48,977	\$68,567	\$0	\$0	\$264,474
<b>B. Radiation Survey &amp; Soil Analysis</b>							
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$0.00	\$0.00	
Sub Total - Survey & Analysis	\$13,000	\$10,400	\$7,800	\$10,920	\$0	\$0	\$42,120
<b>C. Revegation</b>							
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 (\$)	\$106,921	\$85,537	\$64,152	\$89,813	\$0	\$0	\$346,423
<b>V Other</b>							
<b>A. Topsoil Handling &amp; Grading</b>							
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>3</sup> )	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd <sup>3</sup> )	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	
Topsoil Handling Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$38.45	\$38.45	\$38.45	\$38.45	\$38.45	\$0.00	
Grading Cost (\$)	\$1,576	\$731	\$192	\$192	\$0	\$0	
Sub Total - Topsoil	\$1,576	\$731	\$192	\$192	\$0	\$0	\$2,692
<b>B. Radiation Survey &amp; Soil Analysis</b>							
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$0.00	\$0.00	
Sub Total - Survey & Analysis	\$21,320	\$9,880	\$2,600	\$2,600	\$0	\$0	\$36,400
<b>C. Revegation</b>							
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	\$43,057	\$19,953	\$5,251	\$5,251	\$0	\$0	\$73,511
<b>VI Remedial Action</b>							
<b>A. Topsoil Handling &amp; Grading</b>							
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>3</sup> )	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd <sup>3</sup> )	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
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>B. Radiation Survey &amp; Soil Analysis</b>							
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
<b>C. Revegation</b>							
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	

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	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
TOPSOIL REPLACEMENT & REVEGETATION							
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
<b>TOTAL COST - TOPSOIL &amp; REVEGETATION</b>	<b>\$368,756</b>	<b>\$254,288</b>	<b>\$113,201</b>	<b>\$166,257</b>	<b>\$19,369</b>	<b>\$20,598</b>	<b>\$942,469</b>

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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
<b>I Fence Removal &amp; Disposal</b>							
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
<b>II Powerline Removal &amp; Disposal</b>							
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
<b>III Powerpole Removal &amp; Disposal</b>							
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
<b>IV Transformer Removal &amp; Disposal</b>							
Quantity	0	1	0	18	3	0	
Cost of Removal/Disposal (\$/Each)	\$2,525	\$2,525	\$2,525	\$619	\$619	\$619	
Cost of Removal/Disposal (\$)	\$0	\$2,525	\$0	\$11,142	\$1,857	\$0	\$15,524
<b>V Booster Pump Assembly Removal &amp; Disposal</b>							
Quantity	0	6	5	5	0	0	
Cost of Removal/Disposal (\$/Each)	\$248	\$248	\$248	\$248	\$248	\$248	
Cost of Removal/Disposal (\$)	\$0	\$1,488	\$1,240	\$1,240	\$0	\$0	\$3,968
<b>VI Culvert Removal &amp; Disposal</b>							
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
<b>VII Guardrail Removal</b>							
Quantity (Feet)	200	3000	0	0	0	0	
Cost of Removal/Disposal (\$/Ft)	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	
Cost of Removal/Disposal (\$)	\$1,288	\$19,320	\$0	\$0	\$0	\$0	\$20,608
<b>VIII Low Water Stream Crossing</b>							
Quantity	0	1	1	0	0	0	
Cost of Removal/Disposal (\$/Each)	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	
Cost of Removal/Disposal (\$)	\$0	\$4,500	\$4,500	\$0	\$0	\$0	\$9,000
<b>IX Utilities Cost</b>							
Quantity (Mos)	0	8	4	4	4	0	
Cost Per Month (\$/Month)	\$65	\$65	\$65	\$65	\$65	\$65	
Total Cost (\$)	\$0	\$520	\$260	\$260	\$260	\$0	\$1,300
<b>TOTAL MISCELLANEOUS COST</b>	<b>\$12,173</b>	<b>\$56,506</b>	<b>\$23,080</b>	<b>\$22,242</b>	<b>\$2,117</b>	<b>\$0</b>	<b>\$116,118</b>