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August 18, 2016

40-8502

Document Control Desk, Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Re: Annual Surety Update for SUA1341 Willow Creek Operations, August 2015

Dear Director:

Enclosed please find Uranium One America's annual surety adjustment as required by SUA-1341, License Condition 9.5 which specifies updates to the surety required by 10 CFR 40, Appendix A, Criterion 9, shall be provided to the NRC by August 18th of each year.

Changes to the 2016 surety have been discussed in the attached summary.

If you have any questions or need additional information please call at (307) 233-6330 or email at scott.schierman@uranium1.com.

Regards,

Scott Schierman
HSE Manager

NMSS20

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Uranium One 2016 Willow Creek Surety Estimate Update Summary

In accordance with SUA-1341 License Condition 9.5 as required by 10 CFR 40, Appendix A, Criterion 9 an updated reclamation/restoration surety estimate for July 1, 2015 through June 30, 2016 is provided in Appendix 6. Uranium One (U1) has currently put any significant development plans at the Willow Creek project on hold due to the low market price of uranium. Therefore, most changes to the 2015-2016 surety estimate concern updating current operating costs or revisions to reflect current development plans.

Changes have been highlighted in gray throughout the surety estimate worksheets and brief explanations are given below. Additionally, costs in Worksheets 2-6 have been updated using the revised "Cost Summary Sheet" as mentioned below. The costs in Worksheet 1 "Groundwater Restoration" have been escalated using an 18.2% inflation factor based on the Consumer Price Index (CPI) for all urban consumers from September 2006 to June 2016.

It should be noted that currently in Mine Unit 10 (MU10) U1 has only completed wellfield modules 10-1 (Mod 10-1 through 10-6) and as previously mentioned no further development is planned during the next reporting period. However the wells and abandonment cost associated with (Mod10-7) and (Mod 10-8) have been included in this surety estimate.

Cost Summary Sheet

- All costs taken from WDEQ-LQD Guideline 12 have been updated based on the February 2016 revision.
- Operational costs have been updated as needed.

Worksheet 1: Groundwater Restoration

- The wellfield area and number of wells for MU10 has been adjusted to include wells for Module 10-7 and 10-8. Ludeman proposed guard wells (10) and underlying wells (1) have been added to well total for 201.
- The required WDEQ-WQD 3% annual adjustment for the plugging and abandonment of deep disposal wells CR DW-1 and CR 18-3 has been accounted for and is currently over bonded based on bonding estimates conducted in August 2016.
- Credit for completion of groundwater sweep for Christensen Ranch Mine Units 2-6 has been granted by the WDEQ and authorized by NRC; therefore, separate WDEQ estimates and NRC estimates are provided.
- Removed $2800 in cost associated with IR Wellfield 1-5 pond analysis

Worksheet 2: Plant Equipment Removal and Disposal

- Cost estimate remains the same as the 2015-2016 August 2016 cost estimates.
- During the 2014-2015 reporting period Uranium One changes to account for volume of Module building for MU10-7 and MU10-8 in MU10 were included.
- Costs adjusted to reflect the February 2016 Guideline 12 update.

Worksheet 3: Building Demolition and Disposal

- Cost estimate remains the same as 2015-2016 August 2016 cost estimates.
- During the 2014-2015 building demolition and disposal activities were added for MU10-7 and 10-8 module buildings.
- Cost adjustments to reflect the February 2016 Guideline 12 update.
- Disposal and transportation cost were updated to reflect current disposal cost and transportation cost estimates received in 2016.

Worksheet 4: Pond Reclamation Cost

- Remained the same as 2015-2016 August 2016 cost estimates.

Worksheet 5: Well Plugging and Abandonment

- Costs remain the same as the 2015-2016 August 2016 cost estimates.
- The total number of wells for CR MU10 has been increased in the 2014-2015 estimates to reflect the number of wells needed for Modules at MU10-7 & MU10-8.

- Ludeman guard wells (10) in the upper most aquifer proposed for Ludeman and an underlying well (1) for MU2 have been added to the well total for MU10.

Worksheet 6: Wellfield Equipment Removal & Disposal

Section I: Wellfield Piping

- The number of wells and amount of piping in CR MU10 has been revised to include MU10-7 and MU10-8 and MU11 has been revised to reflect actual numbers and plans for the 2014-2015 reporting period.
- Added cost for 7300 feet of buried trunkline for IR wellfield expansion use.
- Removed cost associated with Mine Unit 11.

Section II: Production Well Pumps

- The number of production well pumps has been revised to reflect the MU10-7 and MU10-8 and 11 wells at Ludeman.

Section V: Manholes

- Same as 2014-2015 assumptions.

Worksheet 7: Topsoil Replacement & Revegetation

- Costs remain the same as the 2015-2016 August 2016 cost estimates.
- Same as 2014-2015 assumptions, no changes made.

Worksheet 8: Miscellaneous Reclamation

- Costs remain the same as the 2015-2016 August 2016 cost estimates.
- Added 3500 foot of fence for Mine Unit 107 and Mine Unit 108 into the cost estimate.

Table 1, Summary:

In summary, the new grand total surety estimate for WDEQ is $21,115,495 and the NRC estimate is $21,707,323. This represents an increase of $58,960 from the 2015 surety

update provided to WDEQ and an increase of $34,685 from the 2015 NRC estimate. The 2015 surety estimate of $21,624,510 is currently being reviewed by WDEQ and NRC and represents a $48,128 decrease over the current approved surety of $21,672,638 approved by WDEQ on July 1, 2015 and NRC on August 20, 2015. The current approved NRC surety is a Reclamation Surety Bond issued in the favor of the State of Wyoming-DEQ in the amount of $21,672,638 (NRC License SUA-1341 Amendment No. 4, Condition 9.5). Uranium One respectfully requests that WDEQ approve the new 2016 surety estimate in the amount of $21,707,323 for its Willow Creek Operations.

RECURRING COST

Item	Amount ($)	Units	Cost Basis
ELECTRICAL			
Power Cost (actual costs)	$0.05040	kw/hr	*Current operating cost of electricity - Powder River Energy - Jan 2016*
LABOR RATES			
Supervisor	$25.00	Hour	*Operator Wage below + $5.00 referenced in WDEQ Guideline 12, Section I*
Plant Operator	$20.00	Hour	*Based on current average wage structure for Willow Creek Operators*
Plant Operator	$20.00	hour	*Based on current average wage structure for Willow Creek Operators*
Laborers (Group 1)	$15.93	hour	*From 2015 State Wages Department of Transportation Prevailing Wages.*
Laborers (Group 2)	$18.48	hour	*From 2015 State Wages Department of Transportation Prevailing Wages.*
ANALYTICAL			
Guideline 8	$390.00	batch	*Current rate used in worksheet 1*
TRANSPORTATION AND DISPOSAI			
Distance to Landfill	115	(miles)	*The distance from Christensen Ranch/Irigaray to Casper Landfill is ~115 miles*
Transportation Cost	$0.15	($/Ton-Mile)	*Estimate from trucking company (April 2016)*
Solid Waste landfill disposal cost .	$59.20	Ton	*Casper City landfill rates for outside of Natrona County commercial trailer over 8 feet in length.*
Quantity Per Truck Load	20	(Tons)	
Quantity Per Truck Load	28.0	(Yds^3)	
11e2 disposal cost	$175.00	cubic yard	*Average cost of graduated fee schedule for disposal of soils, sands, rubble etc., at NRC Licensed Facility (White Mesa) (April 2016)*
11e2 disposal cost	$6.11	cubic foot	*Average cost of graduated fee schedule for disposal of soils, sands, rubble etc., at NRC Licensed Facility (White Mesa) (April 2016)*
11e2 disposal cost	$6.48	cubic foot	*Average cost of graduated fee schedule for disposal of sludge, resin beads, filter media, etc., at NRC Licensed Facility (White Mesa) (August 2016)*
11e2 disposal cost	$174.96	cubic yard	*Average cost of graduated fee schedule for disposal of sludge, resin beads, filter media, etc., at NRC Licensed Facility (White Mesa) (August 2016)*
Onsite Disposal	$0.33	cubic foot	*WDEQ Guideline 12, Appendix K, Concrete Disposal On Site $8.25yd^3 = $0.31ft^3$*
11e2 Transportation Cost Per Truck	$2,900.00		*Cost per load based on 2016 quote with trucking company*
VEHICLE OPERATION			
Pick up 4X4 (diesel)	$17.84	unit	*Cost per WDEQ Guideline 12 Table D-1*
PLANT DISMANTLING			
Concrete Floor Demolition	$0.80	square foot	*Costs per WDEQ Guideline 12, Appendix K*
Cost of Demolition Per Ft^3	$0.28	Cubic foot	*WDEQ Guideline 12, Appendix K*
PLANT/EQUIPMENT DECONTAMINATION AND DISPOSAL			
Decontamination	$0.13	square foot	*Based on actual costs*
Decontamination	$435.00	truck load	*Based on actual costs*
WELL PLUGGING AND ABANDONMENT			
Bentonite Chips	$4.70	50# bag	*Based on 2014 current costs from Casper Well Supply*
Cement Cones	$10.00	per hole	*Costs per WDEQ Guideline 12, App. L, Abandonment and Sealing of Drill and Monitor Wells*

EQUIPMENT			
Dozer	$83.31	acre	*Cost per WDEQ Guideline 12, App M, rough grading/backfill*
Backhoe Loader (Cat 430E 4WD)	$28.47	hour	*Cost per WDEQ Guideline 12, Table D-1*
Loader (Cat 980H)	$101.32	hour	*Cost per WDEQ Guideline 12, Table D-1*
Pick up 4X4 (gasoline)	$30.35	hour	*Cost per WDEQ Guideline 12, Table D-1*
Hose Reel	$45.00	hour	*Costs for equipment from operating ISR facility*
CULVERT REMOVAL			
20 foot culvert	$120.73		*Cost per WDEQ Guideline 12, Appendix J*
per foot	$6.04	foot	
ELECTRICAL POWERLINES & TRANSFORMERS			
Distribution/Transmission Lines	$0.00		*Tri-County Electric will remove at no cost, WDEQ Guideline 12, Appendix H*
Transformers	$0.00		*Tri-County Electric will remove at no cost, WDEQ Guideline 12, Appendix H*
FENCING			
Removal	$0.38	linear foot	*WDEQ Guideline 12, Appendix H*
RECLAMATION			
Disking and Seeding	$280	acre	*Operator Experience based on Current Contractor Pricing*
Top Soil Application	$0.870	cu/yd	*Cost per WDEQ Guideline 12A, II(A) Average travel distance of 1000 feet*
Unit Cost - Haul/Place ($/Yd^3)	$0.870	cu/yd	*Cost per WDEQ Guideline 12A, II(A) Average travel distance of 1000 feet*
Unit Cost - Grading ($/Ac)	$82.31	acre	*Costs per WDEQ Guideline 12, Appendix M D9 dozer*

References

Guideline 12 Reclamation cost were updated using Feb. 2016 version

Uranium One USA, Inc.
SUMMARY OF RECLAMATION/RESTORATION SURETY ESTIMATE, June 30, 2015 - July 1, 2016
WDEQ PERMIT NO. 478/USNRC LICENSE SUA-1341
TABLE 1

			WDEQ Estimate	NRC Estimate
I GROUNDWATER RESTORATION - Worksheet 1:			$8,789,415	$9,050,475
Adjustment for Inflation = 18.2%				
(Sep. 2006 CPI All Urban Consumers, 202.9, to June 2016, 239.927)			$1,603,971	$1,651,611
Subtotal Groundwater Restoration			$10,393,386	$10,702,086
II DECOMMISSIONING AND SURFACE RECLAMATION:				
A. Process Plant(s) Equipment Removal and Disposal Worksheet 2			$213,812	$213,812
B. Plant Building(s) Demolition and Disposal Worksheet 3			$1,115,636	$1,115,636
C. Process Pond Sludge and Liner Handling Worksheet 4			$1,195,777	$1,195,777
D. Well Abandonment Worksheet 5			$871,027	$871,027
E. Wellfield Equipment Removal and Disposal Worksheet 6			$1,954,929	$1,954,929
F. Topsoil Replacement and Revegetation Worksheet 7			$1,175,506	$1,175,506
G. Miscellaneous Reclamation Activities Worksheet 8			$137,086	$137,086
Sub Total - Decommissioning and Surface Reclamation			$6,663,772	$6,663,772
TOTAL RESTORATION AND RECLAMATION			$17,057,158	$17,365,858
	SUBTOTAL		$17,057,158	$17,365,858
Miscellaneous Costs Associated with Third Party Contractors				
	WDEQ	NRC		
Project Design	$250,000.00	15%		
Site Security & Liability Assurance	$250,000.00			
Contractor Profit & Mobilization	10%			
Pre-construction Investigation	1%			
Project Management	3%	10%		
On-site monitoring	0.5%			
Longterm Administration	2%			
Subtotal miscellaneous additions to surety	16.1%	25.0%	$3,246,202	$4,341,464.60
	SUBTOTAL		$20,303,360	$21,707,323
	WDEQ			
Contingency	4%		$812,134	$0
GRAND TOTAL RESTORATION AND RECLAMATION			**$21,115,495**	**$21,707,323**

Uranium One USA, Inc.
2015-2016 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	Christensen Mine Unit #10	Christensen Mine Unit #11
Technical Assumptions:											
Wellfield Area (Ft²)	522720	784080	890000	798944	510088	1210968	2021243	1180476	1750020	1337940	780591
Wellfield Area (Acres)	12.00	18.00	20.43	18.34	11.71	27.80	46.40	27.10	40.17	30.71	17.92
Affected Ore Zone Area (Ft³)	522720	784080	890000	798944	550193	1346004	2058344	1180476	1750020	1337940	0
Avg Completed Thickness (Ft)	15.0	18.0	11.0	10.0	12.7	19.9	21.8	18.0	20.0	20.0	20.0
Affected Volume:											
Factor For Vertical Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Factor For Horizontal Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Total Volume (Ft³)	11290752	20323353.6	14097600	11504793.6	10061929.6	38593685.7	64615534.8	30597937.92	50400576	38532672	0
Porosity	26.0%	26.0%	26.0%	26.0%	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	7.48	7.48	7.48	7.48
Gallons Per Pore Volume	21958254.5	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292	59506869.67	98019040.2	74938340.51	0
Number of Wells in Unit(s)											
Production Wells	150	274	91	176	81	134	178	167	264	261	0
Injection Wells	310	330	195	267	130	188	202	389	516	473	0
Monitor Wells	150	165	50	47	33	72	64	66	76	83	44
Baseline Water Quality wells (prod or inj)	19	27	24	19	15	25	47	11	14	10	6
Average Well Spacing (Ft)	35	35	85	70	85	85	100	70	60	60	60
Average Well Depth (Ft)	250	250	345	300	430	450	520	550	375	500	500
I GROUNDWATER SWEEP											
A. PLANT & OFFICE											
Operating Assumptions:											
Flowrate (gpm)			200	200	200	200	200	200	200	200	200
PV's Required			1	1	1	1	1	1	1	1	1
Total Gallons For Treatment			27417012.5	22374522.6	19568440.7	75057000	125664292	59506869.67	98019040.2	74938340.51	0
Total KGals for Treatment			27417	22375	19568	75057	125664	59507	98019	74938	0
Cost Assumptions:											
Power											
Avg Connected Hp			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Kwh's/Hp			0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504
Gallons Per Minute			200	200	200	200	100	100	100	100	100
Gallons Per Hour			12000	12000	12000	12000	6000	6000	6000	6000	6000
Cost Per Hour			1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
Cost Per Gallon			0.00014	0.00014	0.00014	0.00014	0.00028	0.00028	0.00028	0.00028	0.00028
Cost Per KGal ($)			$0.139	$0.139	$0.139	$0.139	$0.279	$0.279	$0.279	$0.279	$0.279
Chemicals											
Antiscalent ($/Kgals)			$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947
Elution ($/KGals)			$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099
Repair & Maintenance ($/KGals)			$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379	$0.0379
Analysis ($/KGals)			$0.131	$0.127	$0.115	$0.050	$0.056	$0.028	$0.021	$0.020	$0.000
Total Cost Per KGal			$0.502	$0.498	$0.486	$0.421	$0.567	$0.538	$0.532	$0.530	$0.510
Total Treatment Cost			$13,773	$11,152	$9,511	$31,599	$71,199	$32,027	$52,137	$39,755	$0
Utilities											
Power ($/Month)			$65	$65	$65	$65	$65	$65	$65	$65	$65
Telephone ($/Month			$500	$500	$500	$500	$500	$500	$500	$500	$500
Time For Treatment											
Minutes For Treatment			137085	111873	97842	375285	628321	0	0	0	0
Hours For Treatment			2285	1865	1631	6255	10472	0	0	0	0
Days For Treatment			95	78	68	261	436	0	0	0	0
Average Days Per Month			30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment			3.1	2.6	2.2	8.6	14.3	0.0	0.0	0.0	0.0
Utilities Cost ($)			$1,768	$1,443	$1,262	$4,841	$8,105	$0	$0	$0	$0
TOTAL PLANT & OFFICE COST	$0	$0	$15,541	$12,595	$10,773	$36,440	$79,304	$32,027	$52,137	$39,755	$0
I GROUNDWATER SWEEP (Continued)											
B. WELLFIELD											
Cost Assumptions:											
Power											
Avg Flow/Pump (gpm)			20	20	20	20	20	20	20	20	20
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg # of Pumps Required			10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Avg Connected Hp			30	30	30	30	30	30	30	30	30
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504

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Gallons Per Minute			200	200	200	200	200	200	200	200	200
Gallons Per Hour			12000	12000	12000	12000	12000	12000	12000	12000	12000
Cost Per Hour ($)			$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25
Guideline 12 costs Cost Per Gallon ($)			$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001
Cost Per KGal ($)			0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
Repair & Maintenance ($/KGals)			$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289
Total Cost Per KGal			$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394
TOTAL WELLFIELD COST	$0	$0	$10,802	$8,815	$7,710	$29,571	$49,509	$23,445	$38,618	$29,524	$0
TOTAL GROUND WATER SWEEP COST	$0	$0	$26,343	$21,410	$18,482	$66,011	$128,813	$55,472	$90,754	$69,279	$0
II REVERSE OSMOSIS											
A. PLANT & OFFICE											
Operating Assumptions:											
Flowrate (gpm)			500	500	500	500	500	500	500	500	500
PV's Required			5.0	5.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0
Total Gallons For Treatment			137085062	111872613	97842203.3	375285000	628321461	595068696.7	980190402	749383405.1	0
Total KGals for Treatment			137085	111873	97842	375285	628321	595069	980190	749383	0
Feed to RO (gpm)			500	500	500	500	500	500	500	500	500
Permeate Flow (gpm)			375	375	375	375	375	375	375	375	375
Brine Flow (gpm)			125	125	125	125	125	125	125	125	125
Average RO Recovery			75.0%	75.0%	75.0%	75.0%	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	560.00	560.00	560.00	560.00
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504
Gallons Per Minute			500	500	500	500	500	500	500	500	500
Gallons Per Hour			30000	30000	30000	30000	30000	30000	30000	30000	30000
Cost Per Hour ($)			$23.43	$23.43	$23.43	$23.43	$23.43	$23.43	$23.43	$23.43	$23.43
Cost Per Gallon ($)			$0.00078	$0.00078	$0.00078	$0.00078	$0.00078	$0.00078	$0.00078	$0.00078	$0.00078
Cost Per KGal ($)			$0.781	$0.781	$0.781	$0.781	$0.781	$0.781	$0.781	$0.781	$0.781
Chemicals											
Caustic Soda ($/KGals)			$0.018	$0.018	$0.018	$0.018	$0.018	$0.018	$0.018	$0.018	$0.018
Antiscalent ($/Kgals)			$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947	$0.0947
Elution ($/Kgals)			$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099	$0.099
Repair & Maintenance ($/KGals)			$0.038	$0.038	$0.038	$0.038	$0.038	$0.038	$0.038	$0.038	$0.038
Sampling & Analysis ($/KGals)			$0.090	$0.122	$0.092	$0.039	$0.032	$0.054	$0.034	$0.042	
Total Cost Per KGal ($)			$1.121	$1.152	$1.122	$1.069	$1.062	$1.085	$1.064	$1.073	
Total Pumping Cost ($)	$0	$0	$153,611	$128,881	$109,823	$401,218	$667,263	$645,387	$1,043,411	$804,013	
Utilities											
Power ($/Month)			$65	$65	$65	$65	$65	$65	$65	$65	$65
Propane ($/Month			$500	$500	$500	$500	$500	$500	$500	$500	$500
Time For Treatment											
Minutes For Treatment			274170	223745	195684	750570	1256643	1190137	1960381	1498767	0
Hours For Treatment			4570	3729	3261	12510	20944	19836	32673	24979	0
Days For Treatment			190	155	136	521	873	826	1361	1041	0
Average Days Per Month			30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment			6.3	5.1	4.5	17.1	28.7	27.2	44.8	34.2	0.0
Utilities Cost ($)	$0	$0	$3,560	$2,882	$2,543	$9,662	$16,216	$15,368	$25,312	$19,323	$0
TOTAL PLANT & OFFICE COST	$0	$0	$157,171	$131,762	$112,365	$410,879	$683,478	$660,755	$1,068,723	$823,336	$0
II REVERSE OSMOSIS (Continued)											
B. WELLFIELD											
Cost Assumptions:											
Power											
Avg Flow/Pump (gpm)			20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg # of Pumps Required			25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Avg Connected Hp			75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504
Gallons Per Minute			500	500	500	500	500	500	500	500	500
Gallons Per Hour			30000	30000	30000	30000	30000	30000	30000	30000	30000
Cost Per Hour ($)			$3.14	$3.14	$3.14	$3.14	$3.14	$3.14	$3.14	$3.14	$3.14
Cost Per Gallon ($)			$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001	$0.0001
Cost Per KGal ($)			$0.105	$0.105	$0.105	$0.105	$0.105	$0.105	$0.105	$0.105	$0.105
Repair & Maintenance ($/KGals)			$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289	$0.289

Uranium One USA, Inc.
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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	Christensen Mine Unit #10	Christensen Mine Unit #11
Total Cost Per KGal			$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394	$0.394
TOTAL WELLFIELD COST	$0	$0	$53,954	$44,031	$38,509	$147,705	$247,295	$234,207	$385,783	$294,942	$0
Circulate 1 PV of Hydrogen Sulfide gas reductant $0.863 per Kgal			$23,661	$19,309	$16,888	$64,774	$108,448	$51,354	$84,590	$64,672	$0
TOTAL REVERSE OSMOSIS COST	$0	$0	$234,786	$195,102	$167,762	$623,358	$1,039,221	$946,316	$1,539,097	$1,182,950	$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	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	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	148,767,174	245,047,601	187,345,851	0
RO Brine Total KGallons			34,271	27,968	24,461	93,821	157,080	148,767	245,048	187,346	0
Brine Concentration Factor			60%	60%	60%	60%	60%	60%	60%	60%	60%
Total Concentrated Brine (Gals)			20,562,759	16,780,892	14,676,330	56,292,750	94,248,219	89,260,305	147,028,560	112,407,511	0
Months of RO Operation			6.3	5.1	4.5	17.1	28.7	27.2	44.8	34.2	0.0
Average Monthly Reqm't (Gallons)			3,263,930	3,290,371	3,261,407	3,291,974	3,283,910	3,281,629	3,281,888	3,286,769	
Monthly Balance for DDW (Gals)			3,104,129	3,130,570	3,101,606	3,132,173	3,124,109	3,121,828	3,122,087	3,126,968	
Total WDW Disposal (Gallons)			19,556,013	15,965,907	13,957,226	53,560,153	89,661,930	84,913,717	139,869,476	106,942,317	
Total WDW Disposal (KGals)			19,556	15,966	13,957	53,560	89,662	84,914	139,869	106,942	
Cost Assumptions:											
Power											
Avg Connected Hp			100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WDW Avg Connected Hp			180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
$/Kwh			$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504	$0.0504
Gallons Per Minute			150	150	150	150	150	150	150	150	150
Gallons Per Hour			9000	9000	9000	9000	9000	9000	9000	9000	9000
Cost Per Hour ($)			$11.71	$11.71	$11.71	$11.71	$11.71	$11.71	$11.71	$11.71	$11.71
Cost Per Gallon ($)			$0.0013	$0.0013	$0.0013	$0.0013	$0.0013	$0.0013	$0.0013	$0.0013	$0.0013
Cost Per KGal ($)			$1.301	$1.301	$1.301	$1.301	$1.301	$1.301	$1.301	$1.301	$1.301
Chemicals ($/Kgals)											
RO Antiscalent ($/Kgals)			$0.190	$0.190	$0.190	$0.190	$0.190	$0.190	$0.190	$0.190	$0.190
WDW Antiscalent ($/Kgals)			$0.237	$0.237	$0.237	$0.237	$0.237	$0.237	$0.237	$0.237	$0.237
Sulfuric Acid ($/Kgals)			$0.534	$0.534	$0.534	$0.534	$0.534	$0.534	$0.534	$0.534	$0.534
Corrosion Inhibitor			$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000	$0.000
Algacide			$0.111	$0.111	$0.111	$0.111	$0.111	$0.111	$0.111	$0.111	$0.111
Repair & Maint ($/Kgals)			$0.077	$0.077	$0.077	$0.077	$0.077	$0.077	$0.077	$0.077	$0.077
Total Cost Per KGal			$2.450	$2.450	$2.450	$2.450	$2.450	$2.450	$2.450	$2.450	$2.450
TOTAL WASTE DISPOSAL WELL COST			$47,921	$39,123	$34,201	$131,246	$219,711	$208,076	$342,742	$262,056	$0

IV STABILIZATION MONITORING											
Operating Assumptions:											
Time of Stabilization (mos)			12	12	12	12	12	12	12	12	9
Frequency of Analysis (mos)			3	3	3	3	3	3	3	3	3
Total Sets of Analysis			4	4	4	4	4	4	4	4	4
Cost Assumptions:											
Generator Rental per sample set			$280	$280	$280	$280	$280	$280	$280	$280	$280
Analytical costs per set			$9,360	$7,410	$5,850	$9,750	$18,330	$4,290	$5,460	$3,900	$2,340
Total Sampling & Analysis Cost ($)			$38,560	$30,760	$24,520	$40,120	$74,440	$18,280	$22,960	$16,720	$10,480
Utilities (Power + Telephone per month)			$565	$565	$565	$565	$565	$565	$565	$565	$565
Total Utilities Cost ($)			$6,780	$6,780	$6,780	$6,780	$6,780	$6,780	$6,780	$6,780	$5,085
TOTAL STABILIZATION COST	$0	$0	$45,340	$37,540	$31,300	$46,900	$81,220	$25,060	$29,740	$23,500	$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	$24.10	2080	$100,235
1 MIT Vehicle & Equip	$21.00	2080	$43,680
Cost per Year			$445,515
Time Required - Years	2.0		
TOTAL RESTORATION LABOR COST	$891,030		

Uranium One USA, Inc.
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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	Christensen Mine Unit #10	Christensen Mine Unit #11

	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
WDEQ-WQD 3% Annual Adjustment		$8,412
Total	$0	$148,612

	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	Christensen Mine Unit #10	Christensen Mine Unit #11	TOTAL
SUMMARY:												
I GROUNDWATER SWEEP	$0	$0	$26,343	$21,410	$18,482	$66,011	$128,813	$55,472	$90,754	$69,279	$0	
II REVERSE OSMOSIS	$0	$0	$234,786	$195,102	$167,762	$623,358	$1,039,221	$946,316	$1,539,097	$1,182,950	$0	
III WASTE DISPOSAL WELL	$0	$0	$47,921	$39,123	$34,201	$131,246	$219,711	$208,076	$342,742	$262,056	$0	
IV STABILIZATION	$0	$0	$45,340	$37,540	$31,300	$46,900	$81,220	$25,060	$29,740	$23,500	$0	
SUB TOTAL	$0	$0	$354,389	$293,176	$251,745	$867,515	$1,468,966	$1,234,924	$2,002,333	$1,537,784	$0	$8,010,832
V LABOR												$891,030
VI CAPITAL												$148,612
TOTAL GROUNDWATER RESTORATION COST												**$9,050,475**
Credit for Completion of Groundwater Sweep (WDEQ)			$26,343	$21,410	$18,482	$66,011	$128,813	$0	$0	$0	$0	$261,060
Credit for Completion of Reverse Osmosis (WDEQ)												$0
Credit Completion of Stabilization Monitoring (WDEQ)												$0
Credit Subtotal			$26,343	$21,410	$18,482	$66,011	$128,813	$0	$0	$0	$0	**$261,060**
GRAND TOTAL WDEQ	$0	$0	$328,046	$271,766	$233,263	$801,504	$1,340,152	$1,234,924	$2,002,333	$1,537,784	$0	**$8,789,415**
GRAND TOTAL NRC (no credit)	$0	$0	$354,389	$293,176	$251,745	$867,515	$1,468,966	$1,234,924	$2,002,333	$1,537,784	$0	**$9,050,475**

Uranium One USA, Inc.
2015-2016 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 (Yds³)	40	0	188	110	40	0		116	215.6	42	97.5	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20		20	20	20	20	
Number of Truck Loads	2.0	0.0	9.4	5.5	2.0	0.0		5.80	10.8	2.1	4.9	
I Decontamination Cost												
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	$4,089	$0	$870	$0	$5,133	$2,523	$0	$914	$2,121	$5,557
II Dismantle and Loading Cost												
Cost Per Truck Load ($)	$650	$650	$650	$650	$650	$650		$650	$650	$650	$650	
Total Cost	$1,300	$0	$6,110	$3,575	$1,300	$0	$12,285	$3,770	$7,007	$1,365	$3,169	$15,311
III Oversize Charges												
Percent Requiring Permits	40.0%	40.0%	40.0%	0.0%	60.0%	40.0%		40.0%	0.0%	40.0%	0.0%	
Cost Per Truck Load ($)	$326	$326	$326	$326	$326	$326		$326	$326	$326	$326	
Total Cost	$261	$0	$1,226	$0	$391	$0	$1,878	$756	$0	$274	$0	$1,030
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%	
Transportation Cost Per Truck Load	$345	$345	$345	$345	$345	$345		$345	$345	$345	$345	
Transportation Cost	$552	$0	$2,594	$0	$345	$0		$1,601	$0	$580	$1,346	
Disposal Fee Per Ton (1 yd³ = 1 ton)	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20		$59.20	$59.20	$59.20	$59.20	
Disposal Cost ($)	$1,894	$0	$8,904	$0	$1,184	$0		$5,494	$0	$1,989	$4,618	
Total Cost	$2,446	$0	$11,498	$0	$1,529	$0		$7,095	$0	$2,569	$5,963	
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%	
Transportation Cost Per Truck Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		$2,900	$2,900	$2,900	$2,900	
Transportation Cost	$1,160	$0	$5,452	$15,950	$2,900	$0		$3,364	$31,262	$1,218	$2,828	
Disposal Cost Per Cubic Foot ($)	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48		$6.48	$6.48	$6.48	$6.48	
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	$1,400	$0	$6,578	$19,246	$3,499	$0		$4,059	$37,721	$1,470	$3,412	
Total Cost Licensed Site	$2,560	$0	$12,030	$35,196	$6,399	$0		$7,423	$68,983	$2,688	$6,239	
Total Cost Transportation & Disposal	$5,006	$0	$23,529	$35,196	$7,928	$0	$71,658	$14,518	$68,983	$5,256	$12,202	$100,960
TOTAL COST	$6,741	$0	$34,953	$38,771	$10,489	$0	$90,954	$21,567	$75,990	$7,809	$17,492	$122,858
TOTAL COST - IRIGARAY AND CHRISTENSEN												$213,812

Uranium One USA, 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	Misc Buildings	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 (39)	1 Story Pre Fab (5)	2 Story Steel Frame	1 Story Pre-Fab	1 Story Steel Frame	1 Story Steel Frame (5)	
Demolition Volume (Ft³)	179400	108720	430400	386400	126000	69640		192000	168480	75920	104800	64800	11000	115800	
Cost of Demolition Per Ft³	$0.2800	$0.2800	$0.2800	$0.2800	$0.2800	$0.2800		$0.2800	$0.2800	$0.2800	$0.2800	$0.2800	$0.2800	$0.2800	
Demolition Cost ($)	$50,232	$30,442	$120,512	$108,192	$35,280	$19,499	$364,157	$53,760	$47,174	$21,258	$29,344	$18,144	$3,080	$32,424	$172,760
Factor For Gutting	15.0%	10.0%	30.0%	10.0%	20.0%	10.0%		20.0%	0.0%	0.0%	20.0%	10.0%	10.0%	10.0%	
Cost For Gutting ($)	$7,535	$3,044	$36,154	$10,819	$7,056	$1,950	$66,558	$10,752	$0	$0	$5,869	$1,814	$308	$3,242	$18,743
Weight (pounds)	158761	96212	380885	341947	111504	61628		169912	66660	28032	63717	38802	9735	80640	
Weight per Truckload (Tons)	20	20	20	20	20	20		20	20	20	20	20	20	20	
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	2.0	
Distance to Landfill	115	115	115	115	115	115		115	115	115	115	115	115	115	
Unit Cost (Ton/Mile)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15		$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	
Transportation Cost per Truckload	$345	$345	$345	$345	$345	$345		$345	$345	$345	$345	$345	$345	$345	
Transportation Cost ($)	$1,369	$830	$3,285	$2,949	$962	$532	$9,927	$1,465	$575	$242	$550	$335	$84	$696	$3,250
Disposal Cost per Truckload	$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,184.00		$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,184.00	$1,170.00	
Disposal Cost ($)	$4,699	$2,848	$11,274	$10,122	$3,301	$1,824	$34,068	$5,029	$1,973	$830	$1,886	$1,149	$288	$2,359	$11,155
TOTAL COST	$63,835	$37,163	$171,225	$132,082	$46,598	$23,805	$474,709	$71,007	$49,722	$22,329	$37,648	$21,442	$3,760	$38,721	$205,909
TOTAL COST IRIGARAY AND CHRISTENSEN															$680,618
CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL															
Area (Ft²)	8020	7100	17600	18400	5600	3600		9600	0	1800	5240	0	1000	6240	
Average Thickness (Ft)	0.5	0.5	0.5	0.5	1	0.5		0.5	0.0	0.5	0.5	0.0	0.5	0.5	
Volume (Ft³)	4010	3550	8800	9200	5600	1800		4800	0	900	2620	0	500	3120	
Percent Requiring Decontamination	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	0.0%	
Percent Decontaminated	0.0%	0.0%	75.0%	75.0%	40.0%	75.0%		75.0%	0.0%	100.0%	100.0%	0.0%	0.0%	0.0%	
Decontamination ($/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	$0.134	
Decontamination Cost	$0	$0	$1,769	$1,849	$300	$362	$4,280	$965	$0	$241	$702	$0	$0	$0	$1,908
Demolition ($/Ft²)	$0.80	$0.80	$0.80	$0.80	$0.80	$0.80		$0.80	$0.80	$0.80	$0.80	$0.80	$0.80	$0.80	
Demolition Cost	$6,416	$5,680	$14,080	$14,720	$4,480	$2,880	$48,256	$7,680	$0	$1,440	$4,192	$0	$800	$4,992	$14,112
Transportation & Disposal															
A. Onsite Disposal															
Percent to be Disposed Onsite	100%	100%	90%	90%	40%	90%		90%	0%	100%	100%	0%	100%	100%	
Transportation Cost	$0	$0	$0	$0	$0	$0		$0	$0	$0	$0	$0	$0	$0	
Disposal Cost per Cubic Foot	$0.330	$0.330	$0.330	$0.330	$0.330	$0.330		$0.330	$0.330	$0.330	$0.330	$0.330	$0.330	$0.330	
Disposal Cost ($)	$1,323	$1,172	$2,614	$2,732	$739	$535	$9,115	$1,426	$0	$297	$865	$0	$165	$1,030	$2,752
B. Licensed Site															
Percent to be Shipped	0%	0%	10%	10%	60%	10%		10%	100%	0%	0%	100%	0%	0%	
Transportation Cost per Truckload	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$0	$4,726	$4,941	$18,044	$967	$28,678	$2,578	$0	$0	$0	$0	$0	$0	$2,578
Disposal Cost per Cubic Foot	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20		20	20	20	20	20	20	20	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540		540	540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$5,377	$5,621	$20,530	$1,100	$32,627	$2,933	$0	$0	$0	$0	$0	$0	$2,933
TOTAL COST	$7,739	$6,852	$28,565	$29,864	$44,093	$5,843	$122,956	$15,581	$0	$1,978	$5,759	$0	$965	$6,022	$24,283
TOTAL COST IRIGARAY AND CHRISTENSEN															$147,239
SOIL REMOVAL & DISPOSAL															
Assume removal of 3" of Contaminated Soil under Primary Areas, Disposal at a Licensed facility.															
Removal with Loader ($116/hr) $101	$0	$0	$1,651	$1,726	$525	$338	$4,240	$901	$0	$0	$492	$0	$0	$0	$1,392
Quantity to be Shipped (Ft³)	0	0	4400	4600	1400	900		2400	0	0	1310	0	0	0	
Transportation Cost per Truckload	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$0	$23,630	$24,704	$7,519	$4,833	$60,685	$12,889	$0	$0	$7,035	$0	$0	$0	$19,924
Disposal fee Per Cubic Foot($)	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	
Quantity per Truckload (Ft³)	540	540	540	540	540	540		540	540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$26,884	$28,106	$8,554	$5,499	$69,043	$14,664	$0	$0	$8,004	$0	$0	$0	$22,668
Removal, NPDES Pts.															
Quantity to be Shipped (Ft³)			559					5,030							
Transportation Cost per Truckload	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	

Uranium One USA, Inc.
2015-2016 Restoration and Reclamation Costs
Wyoming Operations
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	Misc Buildings	Sub Total
Transportation Cost ($)	$0	$0	$3,002	$0	$0	$0	$3,002	$27,014	$0	$0	$0	$0	$0	$0	$27,014
Guideline Disposal fee Per Cubic Foot($)	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	
Quantity per Truckload (Ft^3)	540	540	540	540	540	540		540	540	540	540	540	540	540	
Disposal Cost ($)	$0	$0	$3,415	$0	$0	$0	$3,415	$30,734	$0	$0	$0	$0	$0	$0	$30,734
Total Cost	$0	$0	$58,581	$54,536	$16,598	$10,670	$140,385	$86,201	$0	$0	$15,531	$0	$0	$0	$101,732
TOTAL COST	$0	$0	$58,581	$54,536	$16,598	$10,670	$140,385	$86,201	$0	$0	$15,531	$0	$0	$0	$101,732
TOTAL COST IRIGARAY AND CHRISTENSEN															$242,117

RADIATION SURVEY															
Area required (acres)	0.18	0.16	0.40	0.42	0.13	0.08		0.22	0.00	0.04	0.12	0.00	0.02	0.14	
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	$21	$63	$0	$12	$74	$211

TOTAL COST	$71,671	$44,015	$258,581	$216,702	$107,357	$40,361	$738,686	$172,904	$49,722	$24,328	$59,001	$21,442	$4,737	$44,816	$376,951
TOTAL COST IRIGARAY AND CHRISTENSEN															$1,115,636

Uranium One USA, Inc.
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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	
POND SLUDGE:													
Average Sludge Depth (Ft)		0.156		0.156		0.156	0.156	0.166	0.222	0.143	0.068	0.000	
Average Area of Sludge (Ft²)		50,604		50,604		64,299	64,299	20,909	20,909	20,909	20,909	-	
Volume of Sludge (Ft³)		7,907		7,907		10,047	10,047	3,466	4,651	2,983	1,414	-	
Volume of Sludge (Yds³)		293		293		372	372	128	172	110	52	0	
Volume of Sludge Per Truck Load (Yds³)		25.0		25.0		25.0	25.0	25.0	25.0	25.0	25.0	25.0	
# of Truck Loads of Sludge		11.7		11.7		14.9	14.9	5.1	6.9	4.4	2.1	0.0	
Sludge Handling Cost Per Load ($)		$240.00		$240.00		$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	$240.00	
Total Sludge Handling Cost ($)	$0	$2,808	$0	$2,808	$0	$3,576	$3,576	$1,224	$1,656	$1,056	$504	$0	
Transportation & Disposal													
Percent To Be Shipped to Licensed Site		100.0%		100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transportation Cost per Truckload		$2,900		$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)		$33,930		$33,930		$43,210	$43,210	$14,790	$20,010	$12,760	$6,090	$0	
Disposal Cost Per Cubic Foot ($)		$6.11		$6.11		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.48	
Quantity Per Truck Load (Yds³)		20.0		20.0		20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft³)		540		540		540	540	540	540	540	540	540	
Disposal Cost ($)		$38,603		$38,603		$49,161	$49,161	$16,827	$22,766	$14,517	$6,929	$0	
Total Transportation & Disposal ($)	$0	$72,533	$0	$72,533	$0	$92,371	$92,371	$31,617	$42,776	$27,277	$13,019	$0	
TOTAL SLUDGE COST ($)	$0	$75,341	$0	$75,341	$0	$95,947	$95,947	$32,841	$44,432	$28,333	$13,523	$0	$461,705
POND LINER:													
Total Pond Area (Acres)		1.72		1.72		2.17	2.17	1.10	1.10	1.10	1.10	0.00	
Total Pond Area (Ft²)		74923.2		74923.2		94525.2	94525.2	47916	47916	47916	47916	0	
Factor For Sloping Sides		20.0%		20.0%		20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	0.0%	
Total Liner Area (Ft²)		89908		89908		113430	113430	68660	57499	57499	57499	0	
Liner Thickness (Mil)		30		180		180	30	180	30	30	30	0	
Liner Thickness (Inches)		0.0300		0.1800		0.1800	0.0300	0.1800	0.0300	0.0300	0.0300	0	
Liner Thickness (Ft)		0.0025		0.0150		0.0150	0.0025	0.0150	0.0025	0.0025	0.0025	0	
"Swell" Factor		25.0%		25.0%		25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	0.0%	
Liner Volume (Ft³)		281		1686		2127	354	1287	180	180	180	0	
Truck Loads of Liner		0.5		3.1		3.9	0.7	2.4	0.3	0.3	0.3	0.0	
Liner Handling Cost ($)													
Labor Crew Cost per Hour ($)		$146		$146		$146	$146	$146	$146	$146	$146	$0	
Hours per Load		2.0		2.0		2.0	2.0	2.0	2.0	2.0	2.0	0.0	
Liner Handling Cost Per Load ($)		$292.64		$292.64		$292.64	$292.64	$292.64	$292.64	$292.64	$292.64	$0.00	
Total Liner Handling Cost ($)	$0	$146	$0	$907	$0	$1,141	$205	$702	$88	$88	$88	$0	
Transportation & Disposal													
Percent To Be Shipped to Licensed Site		100.0%		100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Transportation Cost per Truckload		$2,900		$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)		$1,450		$8,990		$11,310	$2,030	$6,960	$870	$870	$870	$0	
Disposal Cost Per Cubic Foot ($)		$6.48		$6.48		$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Quantity Per Truck Load (Ft³)		540		540		540	540	540	540	540	540	540	
Disposal Cost ($)		$1,750		$10,848		$13,647	$2,449	$8,398	$1,050	$1,050	$1,050	$0	
Total Transportation & Disposal ($)	$0	$3,200	$0	$19,838	$0	$24,957	$4,479	$15,358	$1,920	$1,920	$1,920	$0	
TOTAL LINER COST ($)	$0	$3,346	$0	$20,745	$0	$26,098	$4,684	$16,060	$2,008	$2,008	$2,008	$0	$76,956
POND BACKFILL:													
Backfill required (Yds³)	8740	8580	8740	8580	2517	14617	16319	9048	9048	9048	9048	18070	
Backfill Cost ($/Yd³)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
TOTAL BACKFILL COST ($)	$7,604	$7,465	$7,604	$7,465	$2,190	$12,717	$14,198	$7,872	$7,872	$7,872	$7,872	$15,721	$106,452
RADIATION SURVEY													
Areal required (acres)	0.00	1.72	0.00	1.72		2.90	2.17	1.10	1.10	1.10	1.10	0	
Survey Cost ($/acre)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
TOTAL SURVEY COST ($)	$0	$894	$0	$894	$0	$1,508	$1,128	$572	$572	$572	$572	$0	$6,712
LEAK DETECTION SYSTEM REMOVAL													
Volume of Gravel and Piping (Ft³) (Assume 3")		8,209		8209		13,840	10,357	5,250	5,250	$5,200	$5,200		
Quantity per Truckload (Ft³)		1,350		1,350		1,350	1,350	1,350	1,350	1,350	1,350		
Quantity to be Shipped to Licensed Site (Loads)		6		6		10	8	4	4	4	4		
Transportation Cost per Truckload		$2,900		$2,900		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900		
Transportation Cost ($)		$18,000		$18,000		$30,000	$22,000	$11,000	$11,000	$11,000	$11,000		
Total Handling Cost per load		$1,779		$1,779		$3,000	$2,245	$1,138	$1,138	$1,127	$1,127		
Disposal Fee per Cubic Foot ($)		$6.48		$6.48		$6.48	$6.48	$6.48	$6.48	$6.48	$6.48		
Disposal Cost ($)		$53,194		$53,194		$89,683	$67,113	$34,020	$34,020	$33,696	$33,696		
TOTAL LEAK DETECTION SYSTEM REMOVAL	$0	$72,974	$0	$72,974	$0	$122,683	$91,358	$46,158	$46,158	$45,823	$45,823	$0	$543,952
TOTAL POND RECLAMATION COST	$7,604	$160,019	$7,604	$177,418	$2,190	$258,953	$207,316	$103,503	$101,042	$84,608	$69,798	$15,721	$1,195,777

Guideline 12 costs were updated using Feb 2016 version.

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST ($)	$342,576
TOTAL LINER COST ($)	$54,872
TOTAL BACKFILL COST ($)	$59,243
TOTAL RADIATION SURVEY COST ($)	$4,424
LEAK DETECTION SYSTEM REMOVAL	$359,989
TOTAL POND RECLAMATION COST	$821,105

SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST ($)	$119,129
TOTAL LINER COST ($)	$22,083
TOTAL BACKFILL COST ($)	$47,209
TOTAL RADIATION SURVEY COST ($)	$2,288
LEAK DETECTION SYSTEM REMOVAL	$183,963
TOTAL POND RECLAMATION COST	$374,672
TOTAL PROJECT COST - CR and IR ($)	$1,195,777

Uranium One USA, Inc.
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Wyoming Operations
WORKSHEET 5

WELL PLUGGING AND ABANDONMENT	Irigaray				Christensen									
	Mine Units	5I7 USMT	Monitor/		Mine Units									
	#1 Thru #9	Test Sites	Trend	Sub Total	#2	#3	#4	#5	#6	#7	#8	#10	#11	
Number of Wells	0	11		11										
Production / Injection Wells (Inclusive of Misc. Baseline / Regional Wells)					286	443	211	322	380	556	780	734	6	2978
Monitor Wells (Shallow, Deep, Perimeter)					50	47	33	72	64	66	76	72	0	408
Total					336	490	244	394	444	622	856	806	6	4198
Average Depth	250	250	250		345	300	430	450	520	550	375	500	500	
Average Diameter	4.5	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
Materials														
Bentonite Chips Required (Ft^3/Well)	11.4	11.4	11.4		11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	
Bags of Chips Required/Well	15.0	15.0	15.0		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
Cost Per Bag ($)	$4.70	$4.70	$4.70		$4.70	$4.70	$4.70	$4.70	$4.70	$4.70	$4.70	$4.70	$4.70	
Cost/Well Bentonite Chips ($)	$70.50	$70.50	$70.50		$70.50	$70.50	$70.50	$70.50	$70.50	$70.50	$70.50	$70.50	$70.50	
Gravel Fill Required (Ft^3/Well)	15.7	15.7	15.7		26.5	21.5	35.9	38.1	45.8	49.1	24.9	25.9	26.9	
Gravel Fill Required (Yd^3/Well)	0.58	0.58	0.58		0.98	0.80	1.33	1.41	1.70	1.82	0.92	0.96	1.00	
Cost of Gravel/Yd^3 ($)	$20.00	$20.00	$20.00		$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$21.00	$22.00	
Cost/Well Gravel Fill ($)	$11.63	$11.63	$11.63		$19.63	$15.93	$26.59	$28.22	$33.93	$36.37	$18.44	$20.14	$21.92	
Cement Cone/Markers Req'd/Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	
Cost of Cement Cones/Markers ($)	$10.00	$10.00	$10.00		$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	
Total Materials Cost per Well	$92.13	$92.13	$92.13		$100.13	$96.43	$107.09	$108.72	$114.43	$116.87	$98.94	$100.64	$102.42	
Labor														
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	
Labor Cost per Hour	$45.00	$45.00	$45.00		$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	
Total Labor Cost per Well ($)	$45.00	$45.00	$45.00		$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$45.00	$90.00	$135.00	
Equipment Rental														
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Backhoe w/Operator Cost/Hr ($)	$48.47	$48.47	$48.47		$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	
Total Equipment Cost per Well ($)	$48.47	$48.47	$48.47		$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	$48.47	
Total Cost per Well ($)	$185.60	$185.60	$185.60		$193.60	$189.90	$200.56	$202.19	$207.90	$210.34	$192.41	$239.11	$285.89	
										$72,485				
TOTAL WELL ABANDONMENT COST ($)	$0	$2,042	$0	$2,042	$65,049	$93,049	$48,937	$79,664	$92,306	$130,832	$164,707	$192,726	$1,715	$868,985

GRAND TOTAL IRIGARAY AND CHRISTENSEN	$871,027

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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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
I Wellfield Piping									
A. Removal									
Length/Well (Ft)	100	300	300	300	500	800	800	0	
Total Number of Wells	0	940	322	380	556	780	734	0	
Total Quantity (Ft)	0	282000	96600	114000	278000	624000	587200	0	
Cost of Removal ($/Ft)	$0.202	$0.202	$0.202	$0.202	$0.202	$0.202	$0.202	$0.202	
Cost of Removal ($)	$0	$56,964	$19,513	$23,028	$56,156	$126,048	$118,614	$0	$400,324
Average OD (Inches)	3.0	3.0	3.0	3.0	1.0	1.0	1.0	1.0	
Chipped Volume Reduction (Ft^3/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft^3)	0	4,512	1,546	1,824	4,448	9,984	9,395	0	
Quantity Per Truck Load (Ft^3)	540	540	540	540	540	540	540	540	
Total Number of Truck Loads	0.0	8.4	2.9	3.4	8.2	18.5	17.4	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0%	0%	0%	0%	0%	0%	0%	0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination ($)	$0	$0	$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Fee Per Yd^3	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	
Yds^3 Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	
Total Cost - Landfill	$0	$0	$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%	100.0%	100.0%	
Loads To Be Shipped	0.0	8.4	2.9	3.4	8.2	18.5	17.4	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$24,360	$8,410	$9,860	$23,780	$53,650	$50,460	$0	$170,520
b. Disposal									
Disposal Cost Per Ft^3	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd^3	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	
Quantity Per Truck Load (Yds^3)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$29,393	$10,148	$11,897	$28,693	$64,735	$60,886	$0	$205,753
Total Cost - Licensed Site	$0	$53,753	$18,558	$21,757	$52,473	$118,385	$111,346	$0	$376,273
Total Cost - Transport & Disposal	$0	$53,753	$18,558	$21,757	$52,473	$118,385	$111,346	$0	$376,273
Total Cost - WF Piping Removal & Disposal	$0	$110,717	$38,071	$44,785	$108,629	$244,433	$229,960	$0	$776,597
II Production Well Pumps									
A. Pump and Tubing Removal									
Number of Production Wells	424	348	134	178	167	264	261	0	
Cost of Removal ($/well)	$60.18	$60.18	$60.18	$60.18	$60.18	$60.18	$60.18	$60.18	
Cost of Removal ($)	$0	$20,941	$8,063	$10,711	$10,049	$15,886	$15,706	$0	$81,357
Number of Pumps Per Truck Load	180	180	180	180	180	180	180	180	
Number of Truck Loads (Pumps)	0.0	1.9	0.7	1.0	0.9	1.5	1.5	0.0	
B. Survey & Decontamination (Pumps)									
Percent Requiring Decontamination	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Loads for Decontamination	0.0	1.0	0.4	0.5	0.5	0.8	0.8	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination ($)	$0	$435	$174	$218	$218	$348	$348	$0	$1,740
C. Tubing Volume Reduction & Loading									
Length per Well (Ft)	100	300	300	450	500	230	500	500	
Total Quantity (Ft)	42,400	104,400	40,200	80,100	83,500	60,720	130,500	0	
Cost of Removal ($/Ft)	$0.025	$0.025	$0.025	$0.025	$0.025	$0.025	$0.025	$0.025	
Cost of Removal ($)	$0	$2,610	$1,005	$2,003	$2,088	$1,518	$3,263	$0	$12,486
Average OD (Inches)	3.0	3.0	3.0	3.0	1.0	1.0	1.0	1.0	
Chipped Volume Reduction (Ft^3/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft^3)	678	1,670	643	1,282	1,336	972	2,088	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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Quantity per Truckload (Ft³)	540	540	540	540	540	540	540	540	
Number of Truck Loads	1.3	3.1	1.2	2.4	2.5	1.8	3.9	0.0	
D. Transport & Disposal									
Guideline 1.) Landfill									
a. Transportation									
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Loads To Be Shipped	0.0	1.0	0.4	0.5	0.5	0.8	0.8	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	
Transportation Cost ($)	$0	$1,184	$474	$592	$592	$947	$947	$0	$4,736
b. Disposal									
Disposal Fee Per Yd³	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$1,184	$474	$592	$592	$947	$947	$0	$4,736
Total Cost - Landfill	$0	$2,368	$947	$1,184	$1,184	$1,894	$1,894	$0	$9,472
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Percent To Be Shipped (Tubing)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	1.3	4.0	1.5	2.9	2.9	2.5	4.6	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$3,643	$11,726	$4,469	$8,333	$8,480	$7,392	$13,388	$0	$57,431
b. Disposal									
Disposal Cost Per Ft³	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd³	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$4,396	$14,148	$5,393	$10,054	$10,232	$8,920	$16,155	$0	$69,298
Total Cost - Licensed Site	$8,039	$25,874	$9,862	$18,387	$18,712	$16,312	$29,543	$0	$126,729
Total Cost - Transport & Disposal	$8,039	$28,242	$10,809	$19,571	$19,896	$18,207	$31,437	$0	$136,201
Total Cost - Pump Removal & Disposal	$8,039	$52,228	$20,052	$32,502	$32,250	$35,959	$50,754	$0	$231,783
III Surface Trunkline Piping									
A. Removal									
Total Quantity (Ft)	0	0	0	0	0	0	0	0	
Cost of Removal ($/Ft)	$0.146	$0.146	$0.146	$0.146	$0.146	$0.146	$0.146	$0.146	
Cost of Removal ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Average OD (Inches)	8.750	8.750	0.000	0.000	0.000	0.000	0.000	0.000	
Chipped Volume Reduction (Ft³/Ft)	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
Chipped Volume (Ft³)	0	0	0	0	0	0	0	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Total Number of Truck Loads	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination ($)	$0	$0	$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Fee Per Yd³	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$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%	100.0%	100.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Cost Per Ft³	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd³	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	

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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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Licensed Site	$0	$0	$0	$0	$0	$0	$0	$0	$0
Tota Recirculation Phase $0.863 per Kgal	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Surface Trunkline Removal & Disposal	$0	$0	$0	$0	$0	$0	$0	$0	$0
IV Buried Trunkline									
A. Removal									
Total Quantity (Ft)	7300	11565	24500	47000	28500	49436	35636	0	
Cost of Removal ($/Ft)	$3.12	$3.12	$3.12	$3.12	$3.12	$3.12	$3.12	$3.12	
Cost of Removal ($)	$22,776	$36,083	$76,440	$146,640	$88,920	$154,240	$111,184	$0	$636,283
Average OD (Inches)	8.750	8.750	8.750	12.000	12.000	12.000	14.000	14.000	
Chipped Volume Reduction (Ft³/Ft)	0.088	0.088	0.088	0.130	0.130	0.130	0.152	0.152	
Chipped Volume (Ft³)	642	1018	2156	6110	3705	6426.68	5416.672	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Number of Truck Loads	1.2	1.9	4.0	11.3	6.9	11.9	10.0	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination. ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination. ($)	$0	$0	$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Fee Per Yd³	$59.20	$59.20	$59.20	59.2	$59.20	$59.20	$59.20	$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$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%	100.0%	100.0%	
Loads To Be Shipped	1.2	1.9	4.0	11.3	6.9	11.9	10.0	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$3,480	$5,510	$11,600	$32,770	$20,010	$34,510	$29,000	$0	$136,880
b. Disposal									
Disposal Cost Per Ft³	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd³	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$4,199	$6,648	$13,997	$39,541	$24,144	$41,640	$34,992	$0	$165,162
Total Cost - Licensed Site	$7,679	$12,158	$25,597	$72,311	$44,154	$76,150	$63,992	$0	$302,042
Total Cost - Transport & Disposal	$7,679	$12,158	$25,597	$72,311	$44,154	$76,150	$63,992	$0	$302,042
Total Cost - Buried Trunkline Removal & Disposal	$30,455	$48,241	$102,037	$218,951	$133,074	$230,391	$175,176	$0	$938,326
V Manholes									
A. Removal									
Total Quantity	0	8	5	11	5	15	11	0	
Cost of Removal ($ Each)	$117.00	$149.51	$149.51	$149.51	$149.51	$149.51	$149.51	$149.51	
Cost of Removal ($)	$0	$1,196	$748	$1,645	$748	$2,243	$1,645	$0	$8,223
Quantity Per Truck Load	10	10	10	10	10	10	10	10	
Number of Truck Loads	0.0	0.8	0.5	1.1	0.5	1.5	1.1	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination ($/Load)	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	$435.00	
Cost for Decontamination ($)	$0	$0	$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	$1,184	

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Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Fee Per Yd³ ($)	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	$59.20	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Landfill	$0	$0	$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%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
b. Disposal									
Disposal Cost Per Ft³	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	$6.48	
Disposal Fee Per Yd³	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	$174.96	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Licensed Site	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost - Transport & Disposal	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Cost Manhole Removal & Disposal	$0	$1,196	$748	$1,645	$748	$2,243	$1,645	$0	$8,223
TOTAL COST - WELLFIELD EQUIP REMOVAL & DISP	$38,494	$212,383	$160,907	$297,883	$274,701	$513,026	$457,535	$0	$1,954,929

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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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
I Process Plant and Office Building									
A. Topsoil Handling & Grading									
Affected Area (Acres)	5.0	2.5	5.0	5.0	5.0	5.0	5.0	0.0	
Average Affected Thickness (Ins)	12.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	8067	4033	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd³)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$7,018	$3,509	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$417	$208	$417	$417	$417	$417	$417	$0	
Sub Total - Topsoil	$7,435	$3,717	$417	$417	$417	$417	$417	$0	$13,235
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$2,600	$1,300	$2,600	$2,600	$2,600	$2,600	$2,600	$0	$16,900
C. Revegetation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$3,015	$1,508	$3,015	$3,015	$3,015	$3,015	$3,015	$0	$19,598
Sub Total - Process Plant and Office Bldg.	$13,050	$6,525	$6,032	$6,032	$6,032	$6,032	$6,032	$0	$49,733
II Ponds									
A. Topsoil Handling & Grading									
Affected Area (Acres)	20.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12	12	0	0	0	0	0	0	
Topsoil Volume (Yds³)	32267	19360	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd³)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$28,072	$16,843	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$1,666	$1,000	$0	$0	$0	$0	$0	$0	
Sub Total - Topsoil	$29,738	$17,843	$0	$0	$0	$0	$0	$0	$47,581
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$10,400	$6,240	$0	$0	$0	$0	$0	$0	$16,640
C. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$12,061	$7,236	$0	$0	$0	$0	$0	$0	$19,297
Sub Total - Ponds	$52,199	$31,319	$0	$0	$0	$0	$0	$0	$83,518
III Wellfields									
A. Topsoil Handling & Grading									
Affected Area (Acres)	40.0	55.0	30.0	50.0	35.0	40.0	35.0	0.0	
Average Affected Thickness (Ins)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
Topsoil Volume (Yds³)	18822	25881	14117	23528	16469	18822	16469	0	
Unit Cost - Haul/Place ($/Yd³)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$16,375	$22,516	$12,282	$20,469	$14,328	$16,375	$14,328	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$3,332	$4,582	$2,499	$4,166	$2,916	$3,332	$2,916	$0	
Sub Total - Topsoil	$19,708	$27,098	$14,781	$24,635	$17,244	$19,708	$17,244	$0	$140,418
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$20,800	$28,600	$15,600	$26,000	$18,200	$20,800	$18,200	$0	$148,200
C: Spill Cleanup									
Affected Area (Acres)		0.036	0	0	0	0	0.10	0	
Affected Area (ft²)		1,568	0	0	0	0	4529	0	
Average Affected Thickness (ft)		0.25	0	0	0	0	0	0	
Affected Volume (ft³)		392	0	0	0	0	0	0	
Quantity per Truckload (ft³)		540	540	540	540	540	540	540	
Quantity to be Shipped (Loads)		0.7	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load		$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	$2,900	
Transportation Cost ($)		$2,105	$0	$0	$0	$0	$0	$0	
Handling Cost ($240/load)		$174	$0	$0	$0	$0	$0	$0	
Disposal Fee per Cubic Foot ($)		$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	$6.11	
Disposal Cost ($)		$2,395	$0	$0	$0	$0	$0	$0	

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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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Sub Total - Spill Cleanup	$0	$4,675	$0	$0	$0	$0	$0	$0	$4,675
D. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Guideline Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$24,121	$33,167	$18,091	$30,152	$21,106	$24,121	$21,106	$0	$171,864
Sub Total - Wellfields ($)	$64,629	$93,539	$48,472	$80,786	$56,550	$64,629	$56,550	$0	$465,156
IV Roads									
A. Topsoil Handling & Grading									
Affected Area (Acres)	25.0	20.0	15.0	21.0	12.0	15.0	10.0	0.0	
Average Affected Thickness (Ins)	12	12	12	12	12	12	12	12	
Topsoil Volume (Yds³)	40333	32267	24200	33880	19360	24200	16133	0	
Unit Cost - Haul/Place ($/Yd³)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$35,090	$28,072	$21,054	$29,476	$16,843	$21,054	$14,036	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$2,083	$1,666	$1,250	$1,750	$1,000	$1,250	$833	$0	
Sub Total - Topsoil	$37,173	$29,738	$22,304	$31,225	$17,843	$22,304	$14,869	$0	$175,455
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$13,000	$10,400	$7,800	$10,920	$6,240	$7,800	$5,200	$0	$61,360
C. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$15,076	$12,061	$9,045	$12,664	$7,236	$9,045	$6,030	$0	$71,158
Sub Total - Roads ($)	$65,249	$52,199	$39,149	$54,809	$31,319	$39,149	$26,099	$0	$307,973
V Other									
A. Topsoil Handling & Grading									
Affected Area (Acres)	41.0	19.0	5.0	5.0	5.0	5.0	5.0	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0	0	0	0	0	0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd³)	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	$0.87	
Topsoil Handling Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	$83.31	
Grading Cost ($)	$3,416	$1,583	$417	$417	$417	$417	$417	$0	
Sub Total - Topsoil	$3,416	$1,583	$417	$417	$417	$417	$417	$0	$7,081
B. Radiation Survey & Soil Analysis									
Unit Cost ($/Ac)	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	$520.00	
Sub Total - Survey & Analysis	$21,320	$9,880	$2,600	$2,600	$2,600	$2,600	$2,600	$0	$44,200
C. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	
Sub Total - Revegation	$24,724	$11,458	$3,015	$3,015	$3,015	$3,015	$3,015	$0	$51,258
Sub Total - Other	$49,460	$22,920	$6,032	$6,032	$6,032	$6,032	$6,032	$0	$102,539
VI Remedial Action									
A. Topsoil Handling & Grading									
Affected Area (Acres)	65.5	54.3	27.5	40.5	28.5	32.5	27.5	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	0	0	
Unit Cost - Haul/Place ($/Yd³)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Topsoil Handling Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	
Unit Cost - Grading ($/Ac)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Grading Cost ($)	$0	$0	$0	$0	$0	$0	$0	$0	
Sub Total - Topsoil	$0	$0	$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	$0.00	$0.00	
Sub Total - Survey & Analysis	$0	$0	$0	$0	$0	$0	$0	$0	$0
C. Revegation									
Fertilizer ($/Ac)	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	$46.49	
Seeding Prep & Seeding ($/Ac)	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	$280.00	
Mulching & Crimping ($/Ac)	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	$276.54	
Sub Total Cost/Acre	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	$603.03	

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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	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Sub Total - Revegation	$39,498	$32,714	$16,583	$24,423	$17,186	$19,598	$16,583	$0	$166,587
Sub Total - Remedial Action	$39,498	$32,714	$16,583	$24,423	$17,186	$19,598	$16,583	$0	$166,587
TOTAL COST - TOPSOIL & REVEGETATION	$284,084	$239,217	$116,268	$172,081	$117,119	$135,440	$111,296	$0	$1,175,506

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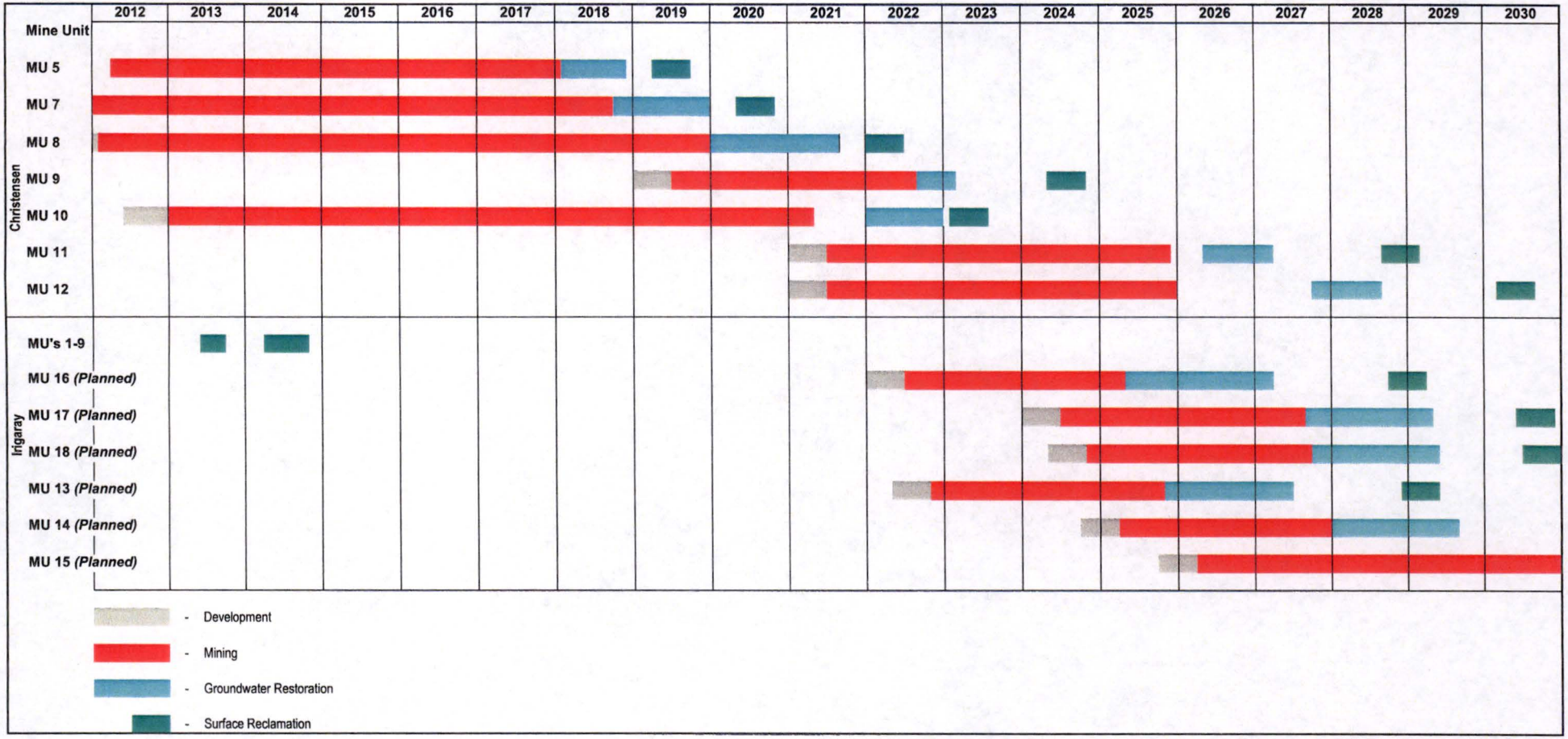
MISCELLANEOUS RECLAMATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
I Fence Removal & Disposal									
Quantity (Feet)	15240	35260	20000	9000	18000	19300	26064	0	
Cost of Removal/Disposal ($/Ft)	$0.38	$0.38	$0.38	$0.38	$0.38	$0.38	$0.38	$0.38	
Cost of Removal/Disposal ($)	$5,791	$13,399	$7,600	$3,420	$6,840	$7,334	$9,904	$0	$54,288
II Powerline Removal & Disposal									
Quantity (Feet)	9450	10565	18000	18000	5500	21990	13136	0	
Cost of Removal/Disposal ($/Ft)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
III Powerpole Removal & Disposal									
Quantity	25	30	60	60	19	74	44	0	
Cost of Removal/Disposal ($/Each)	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
IV Transformer Removal & Disposal									
Quantity	0	1	0	0	18	27	18	0	
Cost of Removal/Disposal ($/Each)	$0.00	$0.00	$0.00	$0.00	$0	$0	$0	$0	
Cost of Removal/Disposal ($)	$0	$0	$0	$0	$0	$0	$0	$0	$0
V Booster Pump Assembly Removal & Disposal									
Quantity	0	6	5	5	12	16	12	0	
Cost of Removal/Disposal ($/Each)	$248	$248	$248	$248	$248	$248	$248	$248	
Cost of Removal/Disposal ($)	$0	$1,488	$1,240	$1,240	$2,976	$3,968	$2,976	$0	$13,888
VI Culvert Removal & Disposal									
Quantity (Feet)	150	1200	1000	1000	500	20	20	0	
Cost of Removal/Disposal ($/Ft)	$6.04	$6.04	$6.04	$6.04	$6.04	$6.04	$6.04	$6.04	
Cost of Removal/Disposal ($)	$905	$7,244	$6,037	$6,037	$3,018	$121	$121	$0	$23,482
VII Guardrail Removal									
Quantity (Feet)	200	3000	0	0	0	0	0	0	
Cost of Removal/Disposal ($/Ft)	$6.44	$6.44	$6.44	$6.44	$6.44	$6.44	$6.44	$6.44	
Cost of Removal/Disposal ($)	$1,288	$19,320	$0	$0	$0	$0	$0	$0	$20,608
VIII Low Water Stream Crossing									
Quantity	0	1	1	0	0	0	0	0	
Cost of Removal/Disposal ($/Each)	$4,500	$4,500	$4,500	$4,500	$4,500	$4,500	$4,500	$4,500	
Cost of Removal/Disposal ($)	$0	$4,500	$4,500	$0	$0	$0	$0	$0	$9,000
IX Utilities Cost									
Quantity (Mos)	0	8	4	4	4	4	4	0	
Power ($/Month)	$65	$65	$65	$65	$65	$65	$65	$65	
Telephone ($/Month)	$500	$500	$500	$500	$500	$500	$500	$500	
Total Cost ($)	$0	$4,520	$2,260	$2,260	$2,260	$2,260	$2,260	$0	$15,820
TOTAL MISCELLANEOUS COST	$7,985	$50,471	$21,637	$12,957	$15,094	$13,683	$15,261	$0	$137,086

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Willow Creek Project Projected Life of Mine