POWER RESOURCES

Smith Ranch - Highland
Uranium Project
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June 25, 2004

Addressee Only
Mr. Gary Janosko, Chief FCLB
Fuel Cycle Licensing Branch, NMSS
Mail Stop T-8A33
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RE: Smith Ranch – Highland Uranium Project
Docket No. 40-8964, SUA-1548
2004-2005 Surety Estimate Revision

Dear Mr. Janosko:

In accordance with License Condition 9.5 of Source Material License SUA-1548, please find two copies of the proposed 2004-2005 Surety Estimate Revisions for the Smith Ranch-Highland Uranium Project. As your staff is aware, because there are still separate WDEQ Mining Permits for the Highland and Smith Ranch properties, there are separate Surety Estimates for each location. Also, as discussed previously with you staff, Power Resources Inc. (PRI) has, in accordance with directive from the WDEQ, revised the Smith Ranch estimate such that it conforms with the WDEQ-LQD Standardized Surety Estimate Format that uses an Excel spreadsheet and, where applicable, the cost estimates provided in the WDEQ-LQD Guideline No.12- "Standardized Reclamation Performance Bond Format and Cost Calculation Methods", dated November 2003. The 2004-2005 Surety Estimate Revisions total $38,097,700 for the entire Smith Ranch- Highland Uranium Project.

The 2004-2005 Surety Estimate Revision for Smith Ranch results in an estimate of $15,695,700, which is an increase of $1,239,400 from the currently approved Surety Estimate of $14,456,300. The attached computer disk contains the Excel file (SRBOND2004), which contains all spreadsheets and unit cost derivations. The 2004-2005 Surety Estimate Revision for Smith Ranch reflects the change to the standardized format and costs associated with new development in the next one-year surety period. Significant development during the next period includes the installation of approximately 140 wellfield patterns at Mine Unit 15 and the commencement of production operations at them. A limited number of monitoring wells are also planned for installation at the proposed new Mine Unit K area. Additional revisions to the estimate are included with the attachment.

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The 2004-2005 Surety Estimate Revision for Highland results in an estimate of $22,402,000, which is an increase of $1,123,900 from the currently approved Surety Estimate of $21,278,100. The attached computer disk contains the Excel file (HUPBOND2004), which contains all spreadsheets and unit cost derivations. The 2004-2005 Surety Estimate Revision for Highland reflects the completion of construction activities and full production operations at Mine Unit-I.. This revision also reflects that ground water restoration activities have been completed at Mine Unit-A. Additional revisions to the estimate are included with the attachment.

Copies of these 2004-2005 Surety Estimate Revisions are also being forwarded to the WDEQ-LQD. Upon WDEQ-LQD and NRC approval of these revisions, PRI will revise the existing surety instruments to the applicable amounts. Until that time, the existing surety instruments will remain in place.

PRI representatives are available to meet with your staff to assist with their review of this submittal. If you or your staff have nay questions, please don't hesitate to call me at (307)358-6541, ext. 62.

Sincerely,

Bill Kearney

W.F. Kearney
Manager-Health, Safety
& Environmental Affairs

WFK/

cc: S.P. Collings w/ atta
R. Knode w/o atta
K. Milmine w/o atta
File 4.6.4.1
R. Townley w/o atta
L. Spackman, WDEQ/LQD w/o atta

SMITH RANCH
2004-2005 Surety Estimate Revision

The 2004-2005 Smith Ranch Surety Estimate was revised to follow the WDEQ-LQD standardized bond format and, where applicable, the cost estimates provided in WDEQ-LQD Guideline No. 12 (dated November 2003). Additionally, assumptions and derivations of unit costs methods utilized in the approved Surety Estimate for the Highland Uranium Project that have been accepted by the WDEQ-LQD and the NRC for previous estimates were used in the standardized format for Smith Ranch to maintain consistency between the two estimates. The 2004-2005 Surety Estimate Revision results in an estimate of $15,695,700, which is an increase of $1,239,400 from the currently approved Surety Estimate of $14,456,300. The attached computer disk contains the Excel file (SRBOND2004), which contains all spreadsheets and unit cost derivations.

The 2004-2005 Surety Estimate Revision reflects costs associated with new development during the report period and planned operations during the next one-year surety period. Significant development at Mine Unit-15 during this report period included the construction of the connecting access road from the Ross Road and installation of the monitor wells. Also, delineation drilling has begun in Mine Unit-K. During the next one-year surety period, PRI anticipates completion of approximately 140 wellfield patterns in Mine Unit-15 and it is assumed that production operations will occur at these patterns. It is also anticipated that approximately 20 monitor wells will be installed in Mine Unit-K. Incorporating costs for these areas added approximately $1,256,900 (before any escalators) to the Surety Estimate.

Revising the Smith Ranch estimate using the WDEQ-LQD standardized bond format alone resulted in a decrease of approximately $448,100 (before any escalators) to the Surety Estimate. This is largely due to the method of calculating Mine Unit groundwater restoration costs. Consistent with previous estimates for the Highland Uranium Project, PRI utilized one pore volume (PV) of groundwater sweep (GWS) and five PV's of reverse osmosis (RO) treatment (including 2 PV's of bioremediation or chemical reductant addition) for estimating ground water restoration costs. As discussed in previous submittals, such an approach should result in faster and more cost effective restoration, and less consumptive use of ground water. Groundwater restoration costs were estimated using bioremediation in place of chemical reductant. Bioremediation costs were based on actual current operating costs de-escalated to July 1998 dollars. Bioremediation shows slightly higher costs than previous costs for chemical reductant addition, but has proven to be more effective.

The remaining portion of the $1,239,400 increase in the surety estimate (approximately $430,600) is a result of the CPI escalator, which increased from 14.5 to 15.1% (July 1998 to May 2004), and the 25% contingency.

PRI believes that the 2004-2005 Surety Estimate Revision is conservative, and exceeds potential actual restoration, reclamation, and decommissioning costs in the unlikely event of bond forfeiture for the following major reasons:

- PRI believes that ground water restoration can be accomplished in less time than the restoration technique and schedule utilized in the estimate indicate.

- The added contingency of 25% further increases the conservatism of all items included in the estimate.

- No salvage value is realized for buildings, process equipment, switch gear, electrical equipment, motors, rolling stock and other uncontaminated materials and facilities which actually have significant salvage value.

- It is likely that some buildings and roads will not require demolition, disposal, and reclamation, as area landowners may desire to retain some of these facilities for their use.

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Total Restoration and Reclamation Cost Estimate		
I.	GROUNDWATER RESTORATION COST	$8,236,400
II.	EQUIPMENT REMOVAL & DISPOSAL COST	$146,776
III.	BUILDING DEMOLITION AND DISPOSAL COST	$1,057,624
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST	$291,758
V.	WELL ABANDONMENT COST	$762,441
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION COST	$56,610
VII.	TOTAL MISCELLANEOUS RECLAMATION COST	$357,652
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE	$10,909,260
	CPI ESCALATOR- July 1,1998 to April 30, 2004 (15.1%)	$1,647,298
	SUBTOTAL	$12,556,558
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)	$3,139,140
	TOTAL	$15,695,698
	TOTAL CALCULATED SURETY (IN 2004 DOLLARS)	$15,695,700

POWER RESOURCES INC\SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Ground Water Restoration	Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit- 4	Mine Unit-4A	Mine Unit-4 Extension	Mine Unit-15
PV Assumptions								
Wellfield Area (ft2)	1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	1,698,200
Wellfield Area (acres)	25.6	51.9	37.2	18.0	30.6	24.1	7.8	39.0
Affected Ore Zone Area (ft2)	1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	1,698,200
Avg. Completed Thickness	18	24	20	14	18	17	18	22
Porosity	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Flare Factor	1.7	1.5	1.5	1.5	1.5	1.5	1.7	1.5
Affected Volume (ft3)	34,126,007	81,366,192	48,673,860	16,438,800	36,039,546	26,789,688	10,416,883	56,040,600
Kgallons per Pore Volume	68,921	164,327	98,302	33,200	72,785	54,104	21,038	113,180
Number of Patterns in Unit(s)								
Current	116	146	162	76	128	101	35	0
Estimated next report period	0	0	0	0	0	0	0	140
Total Estimated	116	146	162	76	128	101	35	140
Number of Wells in Unit(s)								
Production Wells								
Current	115	146	145	Wells	124	101	Wells	0
Estimated next report period	0	0	0	included	0	0	included	140
Total Estimated	115	146	145	under	124	101	under	140
Injection Wells				Wellfield 3			Wellfield 4	
Current	210	262	251		219	175	and	0
Estimated next report period	0	0	0		0	0	Wellfield 4A	252
Total Estimated	210	262	251		219	175		252
Monitoring Wells								
Current	49	50	40		51	39		105
Estimated next report period	0	0	0		0	0		0
Total Estimated	49	50	40		51	39		105
Number of Wells per Wellfield	374	458	436		394	315		497
Total Number of Wells	2474							
Average Well Depth (ft)	500	850	750		850	750		450
I. **Ground Water Sweep Costs**								
PV's Required	1	1	1	1	1	1	1	1
Total Kgals for Treatment	68,921	164,327	98,302	33,200	72,785	54,104	21,038	113,180
Ground Water Sweep Unit Cost ($/Kgal)	$0.57	$0.57	$0.57	$0.57	$0.57	$0.57	$0.57	$0.57
Subtotal Ground Water Sweep Costs per Wellfield	$39,483	$94,139	$56,315	$19,019	$41,697	$30,995	$12,052	$64,838
Total Ground Water Sweep Costs	$293,700							
II. **Reverse Osmosis Costs**								
PV's Required	5	5	5	5	5	5	5	5
Total Kgals for Treatment	344,604	821,636	491,509	165,999	363,927	270,522	105,190	565,898
Reverse Osmosis Unit Cost ($/Kgal)	$1.26	$1.26	$1.26	$1.26	$1.26	$1.26	$1.26	$1.26
Subtotal Reverse Osmosis Costs per Wellfield	$434,822	$1,036,740	$620,186	$209,458	$459,204	$341,345	$132,728	$714,050
Total Reverse Osmosis Costs	$3,234,483							

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Ground Water Restoration			Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit- 4	Mine Unit-4A	Mine Unit-4 Extension	Mine Unit-15
III.	Chemical Reductant Costs									
	Total Kgals for Treatment (2 Pore Volumes)		137842	328654	196603	66400	145571	108209	42076	226359
	Chemical Reductant Unit Cost ($/Kgal)		$0.29	$0.29	$0.29	$0.29	$0.29	$0.29	$0.29	$0.29
	Subtotal Chemical Reductant Costs per Wellfield		$39,974	$95,310	$57,015	$19,256	$42,216	$31,381	$12,202	$65,644
	Total Chemical Reductant Costs		$297,354							
IV.	**Elution Costs**									
	A. Elution Processing Costs									
		Kgals/Elution Required	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000
		Number of Elutions	12	28	17	6	12	9	4	19
		Processing Unit Cost ($/Elution)	$525	$525	$525	$525	$525	$525	$525	$525
	Subtotal Processing Costs		$6,300	$14,700	$8,925	$3,150	$6,300	$4,725	$2,100	$9,975
	B. Deep Well Injection Costs									
		Deep Well Injection Volume (Kgals/Elution)	12	12	12	12	12	12	12	12
		Total Kgals for Injection	144	336	204	72	144	108	48	228
		Deep Well Injection Unit Cost ($/Kgals)	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39
	Subtotal Deep Well Injection Costs		$200	$467	$284	$100	$200	$150	$67	$317
	Subtotal Elution Costs per Wellfield		$6,500	$15,167	$9,209	$3,250	$6,500	$4,875	$2,167	$10,292
	Total Elution Costs		$57,960							
V.	**Monitoring and Sampling Costs**									
	A. Active Restoration Period									
	Estimated Restoration Period (Years)		5	5	5		5	5		5
	1. UCL Sampling									
		# of Wells	49	51	43		55	36		108
		$/sample	$20	$20	$20		$20	$20		$20
		Samples/Year	6	6	6		6	6		6
	Sub-total Restoration Analyses		$29,400	$30,600	$25,800		$33,000	$21,600		$64,800
	B. Stability Period									
	Estimated Stabilization Period (Years)		1	1	1		1	1		1
	1. Full Suite Analyses									
		# of Wells	17	31	24		20	10		61
		Samples/Year	3	3	3		3	3		3
		$/sample	$150	$150	$150		$150	$150		$150
	2. Short List Analyses									
		# of Wells	17	31	24		20	10		61
		Samples/Year	9	9	9		9	9		9
		$/sample	$34	$34	$34		$34	$34		$34
	Sub-total Stability Analyses		$12,852	$23,436	$18,144		$15,120	$7,560		$46,116
	Subtotal Monitoring and Sampling Costs per Wellfield		$42,252	$54,036	$43,944		$48,120	$29,160		$110,916
	Total Monitoring and Sampling Costs		$328,428							
VI.	**Mechanical Integrity Test (MIT) Costs**									
	Five Year MIT Unit Cost ($/well)		$71	$71	$71		$71	$71		$71
	Number of Wells (30% of Inj. and Rest. Wells)		63	79	75		66	53		76

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Ground Water Restoration		Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit- 4	Mine Unit-4A	Mine Unit-4 Extension	Mine Unit-15
	Subtotal Mechanical Integrity Testing Costs per Wellfield	$4,473	$5,581	$5,346		$4,665	$3,728		$5,368
	Total Mechanical Integrity Testing Cost	$29,161							
TOTAL RESTORATION COSTS PER WELLFIELD		$567,504	$1,300,973	$792,015	$250,983	$602,402	$441,484	$159,149	$971,108
TOTAL WELLFIELD RESTORATION COST		$5,085,618							
VII.	Building Utility Costs	Central Plant	Main Office	Satellite SR-1					
	Electricity ($/Month)	$8,500	$1,825	$8,500					
	Natural Gas ($/Month)	$2,500	$595	$765					
	Number of Months	48	60	36					
	Subtotal Utility Costs per Building	$528,000	$145,200	$333,540					
	Total Building Utility Costs	$1,006,740							
XI.	Vehicle Operation Costs								
	Number of Pickup Trucks/Pulling Units (Gas)	10							
	Unit Cost in $/hr (WDEQ Guideline No.12, Table D-1)	$10.13							
	Unit Cost in $/hr (July 1998 dollars w/o escalator)	$8.80							
	Average Operating Time (Hrs/Year)	1000							
	Total Number of Years (Average)	4							
	Total Vehicle Operation Costs	$352,042							
XII.	Labor Costs								
	Number of Environmental Managers/RSOs	1							
	$/Year	$60,000							
	Number of Restoration Managers	1							
	$/Year	$50,000							
	Number of Environmental Technicians	2							
	$/Year	$28,000							
	Number of Operators/Laborers	7							
	$/Year	$28,000							
	Number of Maintenance Technicians	2							
	$/Year	$28,000							
	Number of Years	4							
	Total Labor Costs	$1,672,000							
XIII	Capital Costs								
	Purchase RO Units (2X800 gpm Units)	$120,000							
	Total Labor Costs	$120,000							
TOTAL GROUND WATER RESTORATION COSTS		$8,236,400							

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Equipment Removal and Loading	CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse
I. Removal and Loading Costs						
A. Tankage						
Number of Tanks	13	51	0	10	15	3
Volume of Tank Construction Material (ft^3)	835	1340	300	397	260	164
1. Labor						
Number of Persons	3	3	3	3	3	3
Ft^3/Day	25	25	25	25	25	25
Number of Days	33	54	12	16	10	7
$/Day/Person	$112	$112	$112	$112	$112	$112
Subtotal Labor Costs	$11,228	$18,010	$4,032	$5,376	$3,494	$2,204
2. Equipment						
Number of Days	33	54	12	16	10	7
$/Day	$338	$338	$338	$338	$338	$338
Subtotal Equipment Costs	$11,295	$18,117	$4,056	$5,408	$3,515	$2,217
Subtotal Tankage Removal and Loading Costs	$22,523	$36,127	$8,088	$10,784	$7,009	$4,421
B. PVC/Steel Pipe						
PVC Pipe Footage	2800	5000		4000	1500	0
Average PVC Pipe Diameter (inches)	3	3	3	3	3	3
Shredded PVC Pipe Volume Reduction (ft^3/ft)	0.016	0.016	0.016	0.016	0.016	0.016
Volume of Shredded PVC Pipe (ft^3)	45	80	0	64	24	0
Steel Pipe Footage	1100	0	0	0	0	80
Average Steel Pipe Diameter (inches)	6	0	0	0	0	8
Volume (ft^3)	216	0	0	0	0	30
1. Labor						
Number of Persons	2	2	2	2	2	2
Ft/Day	200	200	200	200	200	200
Number of Days	19.5	25	0	20	7.5	0.4
$/Day/Person	$112	$112	$112	$112	$112	$112
Subtotal PVC/Steel Pipe Labor Costs	$4,368	$5,600	$0	$4,480	$1,680	$90
Subtotal PVC/Steel Pipe Removal and Loading Costs	$4,368	$5,600	$0	$4,480	$1,680	$90
C. Pumps						
Number of Pumps	21	43	0	13	12	2
Average Volume (ft^3/pump)	4.93	4.93	0	4.93	4.93	4.93
Volume of Pumps (ft^3)	103.53	211.99	0	64.09	59.16	9.86

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Equipment Removal and Loading	CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse
1. Labor						
Number of Persons	1	1	1	1	1	1
Pumps/Day	2	2	2	2	2	2
Number of Days	10.5	21.5	0	7	6	1
$/Day/Person	$112	$112	$112	$112	$112	$112
Subtotal Labor Costs	$1,176	$2,408	$0	$784	$672	$112
Subtotal Pump Removal and Loading Costs	$1,176	$2,408	$0	$784	$672	$112
D. Dryer						
Dryer Volume (ft^3)			200			
1. Labor						
Number of Persons	0	0	5	0	0	0
Ft^3/Day	0	0	175	0	0	0
Number of Days	0	0	2	0	0	0
$/Day/Person	$112	$112	$112	$112	$112	$112
Total Labor Cost	$0	$0	$1,120	$0	$0	$0
Total Dryer Dismantling and Loading Cost	$0	$0	$1,120	$0	$0	$0
Subtotal Equipment Removal and Loading Costs per Facility	$28,067	$44,135	$9,208	$16,048	$9,361	$4,623
Total Equipment Removal and Loading Costs	$111,442					
II. Transportation and Disposal Costs (NRC-Licensed Facility)						
A. Tankage						
Volume of Tank Construction Material (ft^3)	835	1340	300	397	260	164
Volume for Disposal Assuming 10% Void Space (ft^3)	919	1474	330	436	286	180
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal Tankage Transportation and Disposal Costs	$5,165	$8,284	$1,855	$2,450	$1,607	$1,012
B. PVC / Steel Pipe						
Volume of Shredded PVC Pipe (ft^3)	44.8	80	0	64	24	0
Volume for Disposal Assuming 10% Void Space (ft^3)	49	88	0	70	26	0
Volume of Steel Pipe (ft^3)	296	0	0	0	0	30
Volume for Disposal Assuming 10% Void Space (ft^3)	326	0	0	0	0	33
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal PVC Pipe Transportation and Disposal Costs	$2,108	$495	$0	$393	$146	$185
C. Pumps						
Volume of Pumps (ft^3)	103.53	271	0	64	59	9.86
Volume for Disposal Assuming 10% Void Space (ft^3)	114	298	0	70	65	11

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Equipment Removal and Loading	CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse
Transportation and Disposal Unit Cost ($/ft^3)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal Pump Transportation and Disposal Costs	$641	$1,675	$0	$393	$365	$62
D. Dryer						
Dryer Volume (ft^3)	0	0	400	0	0	0
Volume for Disposal Assuming Dryer Remains Intact (ft^3)	0	0	400	0	0	0
Transportation and Disposal Unit Cost ($/ft^3)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Total Dryer Transportation and Disposal Costs	$0	$0	$2,248	$0	$0	$0
Subtotal Equipment Transportation and Disposal Costs per Facility	$7,914	$10,454	$4,103	$3,236	$2,118	$1,259
Total Equipment Transportation and Disposal Costs	$29,084					
III. Health and Safety Costs						
Radiation Safety Equipment	$1,250	$1,250	$1,250	$1,250	$1,250	0
Total Health and Safety Costs	$6,250					
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILIT	$37,231	$55,839	$14,561	$20,534	$12,729	$5,882
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS	$146,776					

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Building Demolition and Disposal	CPP Ion Ex. Plant	Central Plant	Dryer Building	Office Building	Office Annex	Storage Building	Water Treat Plant	Shop Building	Pilot ISL Building	Fresh Water Pumphouse	DDW Buildings
I. Decontamination Costs											
A. Wall Decontamination											
Area to be Decontaminated (ft^2)	10,810	15,900	0	4,760	9,934	1,152	576	4,826	12,000	0	0
Application Rate (Gallons/ft^2)	1	1	1	1	1	1	1	1	1	1	1
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50
Subtotal Wall Decontamination Costs	$5,405	$7,950	$0	$2,380	$4,967	$576	$288	$2,413	$6,000	$0	$0
B. Concrete Floor Decontamination											
Area to be Decontaminated (ft^2)	11,550	16,500	3,500	6,933	14,468	1,678	839	7,028	17,477	0	0
Application Rate (Gallons/ft^2)	4	4	4	4	4	4	4	4	4	4	4
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50
Subtotal Concrete Floor Decontamination Costs	$23,100	$33,000	$7,000	$13,866	$28,936	$3,356	$1,678	$14,056	$34,954	$0	$0
C. Deep Well Injection Costs											
Total Kgals for Injection	57.01	81.9	14	32.492	67.806	7.864	3.932	32.938	81.908	0	0
Deep Well Injection Unit Cost ($/Kgals)	$4.12	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39
Subtotal Deep Well Injection Costs	$235	$114	$19	$45	$94	$11	$5	$46	$114	$0	$0
Subtotal Decontamination Costs per Building	$28,740	$41,064	$7,019	$16,291	$33,997	$3,943	$1,971	$16,515	$41,068	$0	$0
Total Decontamination Costs	$215,889										
II. Demolition Costs											
A. Building											
Assumptions:											
Dryer bldg. demolition unit cost of $0.73/$ft^3$ for additional radiation safety equipment											
Volume of Building (ft^3)	346,500	577,500	122,500	103,995	361,700	16,780	8,390	175,700	314,586	8,320	660.3
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171
Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15
Subtotal Building Demolition Costs	$51,478	$85,797	$18,199	$15,450	$53,736	$2,493	$1,246	$26,103	$46,737	$1,236	$98
B. Concrete Floor											
Area of Concrete Floor (ft^2)	11,550	16,500	3500	6933	14468	1678	839	7028	17477	832	0
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17
Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75
Subtotal Concrete Floor Demolition Costs	$31,810	$45,443	$9,639	$19,094	$39,847	$4,621	$2,311	$19,356	$48,134	$2,291	$0
C. Concrete Footing											
Length of Concrete Footing (ft)	430	514	237	333	481	164	116	335	529	115	0
Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45
Unit Cost in $/lin. ft (July 1998 dollars w/o escalator)	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95
Subtotal Concrete Footing Demolition Costs	$4,276	$5,111	$2,354	$3,313	$4,786	$1,630	$1,153	$3,336	$5,260	$1,144	$0
Subtotal Demolition Costs per Building	$87,564	$136,351	$30,192	$37,857	$98,369	$8,744	$4,710	$48,795	$100,131	$4,671	$98
Total Demolition Costs	$674,690										
III. Disposal Costs											
A. Building											
Volume of Building (cy)	12833	21389	4537	3852	13396	621	311	6507	11651	308	24
1. On-Site											
Assumptions:											
On-site disposal cost of $0.54/cy											
Percentage (%)	100	100	100	100	100	100	100	100	100	100	100
Volume for Disposal (cubic yards)	12833	21389	4537	3852	13396	621	311	6507	11651	308	24
Disposal Unit Cost ($/cy)	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54
Subtotal On-Site Disposal Costs	$6,930	$11,550	$2,450	$2,080	$7,234	$336	$168	$3,514	$6,292	$166	$13

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Building Demolition and Disposal	CPP Ion Ex. Plant	Central Plant	Dryer Building	Office Building	Office Annex	Storage Building	Water Treat Plant	Shop Building	Pilot ISL Building	Fresh Water Pumphouse	DDW Buildings
2. NRC-Licensed Facility											
Percentage (%)	0	0	0	0	0	0	0	0	0	0	0
Volume for Disposal (ft^3)	0	0	0	0	0	0	0	0	0	0	0
Volume for Disposal Assuming 10% Void Space (ft^3)	0	0	0	0	0	0	0	0	0	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Building Disposal Costs	$6,930	$11,550	$2,450	$2,080	$7,234	$336	$168	$3,514	$6,292	$166	$13
B. Concrete Floor											
Area of Concrete Floor (ft^2)	11550	16500	3500	6933	14468	1678	839	7028	17477	1186	0
Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Floor (ft^3)	8662.5	12375	2625	5199.75	10851	1258.5	629.25	5271	13107.75	889.5	0
Volume of Concrete Floor (cy)	321	458	97	193	402	47	23	195	485	33	0
1. On-Site											
Percentage (%)	75	75	75	100	100	100	100	100	75	100	0
Volume for Disposal (cy)	241	344	73	193	402	47	23	195	364	33	0
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07
Subtotal On-Site Disposal Costs	$980	$1,401	$297	$785	$1,638	$190	$95	$795	$1,484	$134	$0
2. NRC-Licensed Facility											
Assumptions:											
Additional $2.00/$ft^3$ for segregation of concrete											
Percentage (%)	25	25	25	0	0	0	0	0	25	0	0
Volume for Disposal (ft^3)	2888	3094	656	0	0	0	0	0	3277	0	0
Segregation and Loading Unit Cost ($/$ft^3$)	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$22,007	$23,574	$5,001	$0	$0	$0	$0	$0	$24,970	$0	$0
Subtotal Concrete Floor Disposal Costs	$22,987	$24,975	$5,298	$785	$1,638	$190	$95	$795	$26,454	$134	$0
C. Concrete Footing											
Length of Concrete Footing (ft)	430	514	237	333	481	164	116	335	529	124	0
Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	4	4	4
Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	1	1	1
Volume of Concrete Footing (ft^3)	1720	2055	947	1332	1925	655	463	1341	2115	496	0
Volume of Concrete Footing (cy)	64	76	35	49	71	24	17	50	78	18	0
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07
Subtotal Concrete Footing Disposal Costs	$260	$310	$143	$201	$290	$99	$70	$202	$319	$75	$0
Subtotal Disposal Costs per Building	$30,177	$36,835	$7,891	$3,066	$9,162	$625	$333	$4,511	$33,065	$375	$13
Total Disposal Costs	$160,045										
III. Health and Safety Costs											
Radiation Safety Equipment	$1,000	$1,000	$1,000	$1,000	$1,000	$0	$0	$0	$0	$0	$0
Total Health and Safety Costs	$7,000										
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$147,481	$215,250	$46,102	$58,214	$142,528	$13,312	$7,014	$69,821	$174,264	$5,046	$111
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$1,057,624										

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Building Demolition and Disposal	Satellite SR-1	Yellowcake Warehouse
I. Decontamination Costs		
A. Wall Decontamination		
Area to be Decontaminated (ft^2)	0	3100
Application Rate (Gallons/ft^2)	1	1
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50
Subtotal Wall Decontamination Costs	$0	$1,550
B. Concrete Floor Decontamination		
Area to be Decontaminated (ft^2)	9000	2750
Application Rate (Gallons/ft^2)	4	4
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50
Subtotal Concrete Floor Decontamination Costs	$18,000	$5,500
C. Deep Well Injection Costs		
Total Kgals for Injection	36	14.1
Deep Well Injection Unit Cost ($/Kgals)	$4.60	$4.60
Subtotal Deep Well Injection Costs	$166	$65
Subtotal Decontamination Costs per Building	$18,166	$7,115
Total Decontamination Costs		
II. Demolition Costs		
A. Building		
Assumptions:		
Dryer bldg. demolition unit cost of $0.73/$ft^3$ for additional radiation safety equipment		
Volume of Building (ft^3)	402,000	55,000
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)	$0.171	$0.171
Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)	$0.15	$0.15
Subtotal Building Demolition Costs	$59,724	$8,171
B. Concrete Floor		
Area of Concrete Floor (ft^2)	13400	2750
Demolition Unit Cost per WDEQ Guideline No:12,App.K ($/$ft^2$)	$3.05	$3.05
Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)	$2.65	$2.65
Subtotal Concrete Floor Demolition Costs	$35,508	$7,287
C. Concrete Footing		
Length of Concrete Footing (ft)	463	210
Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)	$11.15	$11.15
Unit Cost in $/lin. ft (July 1998 dollars w/o escalator)	$9.69	$9.69
Subtotal Concrete Footing Demolition Costs	$4,486	$2,032
Subtotal Demolition Costs per Building	$99,718	$17,490
Total Demolition Costs		
III. Disposal Costs		
A. Building		
Volume of Building (cy)	14889	2037
1. On-Site		
Assumptions:		
On-site disposal cost of $0.54/cy		
Percentage (%)	100	100
Volume for Disposal (cubic yards)	14889	2037
Disposal Unit Cost ($/cy)	$0.54	$0.54
Subtotal On-Site Disposal Costs	$8,040	$1,100

Building Demolition and Disposal	Satellite SR-1	Yellowcake Warehouse
2. NRC-Licensed Facility		
Percentage (%)	0	0
Volume for Disposal (ft^3)	0	0
Volume for Disposal Assuming 10% Void Space (ft^3)	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0
Subtotal Building Disposal Costs	$8,040	$1,100
B. Concrete Floor		
Area of Concrete Floor (ft^2)	13400	2750
Average Thickness of Concrete Floor (ft)	0.75	0.75
Volume of Concrete Floor (ft^3)	10050	2062.5
Volume of Concrete Floor (cy)	372	76
1. On-Site		
Percentage (%)	75	75
Volume for Disposal (cy)	279	57
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07
Subtotal On-Site Disposal Costs	$1,138	$233
2. NRC-Licensed Facility		
Assumptions:		
Additibnal $2.00/$ft^3$ for segregation of concrete		
Percentage (%)	25	25
Volume for Disposal (ft^3)	2513	516
Segregation and Loading Unit Cost ($/$ft^3$)	$2.00	$2.00
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$19,145	$3,929
Subtotal Concrete Floor Disposal Costs	$20,283	$4,162
C. Concrete Footing		
Length of Concrete Footing (ft)	463	210
Average Depth of Concrete Footing (ft)	4	4
Average Width of Concrete Footing (ft)	1	1
Volume of Concrete Footing (ft^3)	1852	839
Volume of Concrete Footing (cy)	69	31
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07
Subtotal Concrete Footing Disposal Costs	$280	$127
Subtotal Disposal Costs per Building	$28,603	$5,389
Total Disposal Costs		
III. Health and Safety Costs		
Radiation Safety Equipment	$1,000	$1,000
Total Health and Safety Costs		
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$147,487	$30,994
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		

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Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15
I. Wellfield Piping						
Assumptions:						
Number of Header Houses per Wellfield	6	5	8	6	5	7
Length of Piping per Header House (ft)	2000	2000	2000	2000	2000	2000
Total Length of Piping (ft)	12000	10000	16000	12000	10000	14000
A. Removal and Loading						
Wellfield Piping Removal Unit Cost ($/ft of pipe)	$0.31	$0.31	$0.31	$0.31	$0.31	$0.31
Subtotal Wellfield Piping Removal and Loading Costs	$3,720	$3,100	$4,960	$3,720	$3,100	$4,340
B. Transport and Disposal Costs (NRC-Licensed Facility)						
Average Diameter of Piping (inches)	2	2	2	2	2	2
Chipped Volume Reduction (ft^3/ft)	0.005	0.005	0.005	0.005	0.005	0.005
Chipped Volume per Wellfield (ft^3)	60	50	80	60	50	70
Volume for Disposal Assuming 10% Void Space (ft^3)	66	55	88	66	55	77
Transportation and Disposal Unit Cost ($/ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal Wellfield Piping Transport and Disposal Costs	$371	$309	$495	$371	$309	$433
Wellfield Piping Costs per Wellfield	$4,091	$3,409	$5,455	$4,091	$3,409	$4,773
C. Capitol Costs						
PVC Pipe Shredder	$40,000					
Total Wellfield Piping Costs	$65,228					
II. Well Pumps and Tubing						
Assumptions:						
Pump and tubing removal costs included under ground water restoration labor costs						
60% of production/injection wells contain pumps and/or tubing						
A. Pump and Tubing Transportation and Disposal						
Number of Production Wells	115	146	145	124	101	140
Number of Injection Wells	210	262	251	219	175	252
1. Pump Volume						
Number of Production Wells with Pumps	69	88	87	74	61	84
Average Pump Volume (ft^3)	1	1	1	1	1	1
Pump Volume per Wellfield (ft^3)	69	88	87	74	61	84
2. Tubing Volume						
Assumptions:						
Average tubing length/wellfield based on average well depth minus 25 ft						
Number of Production Wells with Tubing	69	88	87	74	61	84

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Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15
Number of Injection Wells with Tubing	126	157	151	131	105	151
Average Tubing Length per Well (ft)	475	825	725	825	725	425
Tubing Length per Wellfield (ft)	92625	202125	172550	169125	120350	99875
Diameter of Production Well Fiberglass Tubing (inches)	2	2	2	2	2	2
Diameter of Injection Well HDPE Tubing (inches)	1.25	1.25	1.25	1.25	1.25	1.25
Chipped Volume Reduction (ft^3/ft)	0.005	0.005	0.005	0.005	0.005	0.005
Chipped Volume per Wellfield (ft^3)	463	1011	863	846	602	499
Volume of Pump and Tubing (ft^3)	532	1099	950	920	663	583
Volume for Disposal Assuming 10% Void Space (ft^3)	585	1209	1045	1012	729	641
Transportation and Disposal Unit Cost ($/ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal Pump and Tubing Transport and Disposal Costs	$3,288	$6,795	$5,873	$5,687	$4,097	$3,602
Pump and Tubing Costs per Wellfield	$3,288	$6,795	$5,873	$5,687	$4,097	$3,602
Total Pump and Tubing Costs	**$29,342**					
III. Buried Trunkline						
Assumptions:						
Length of Trunkline Trench (ft)	5075	7600	4790	7105	5460	5280
A. Removal and Loading						
Main Pipeline Removal Unit Cost ($/ft of trench)	$0.85	$0.85	$0.85	$0.85	$0.85	$0.85
Subtotal Trunkline Removal and Loading Costs	$4,314	$6,460	$4,072	$6,039	$4,641	$4,488
B. Transport and Disposal Costs (NRC-Licensed Facility)						
1. 3" HDPE Trunkline						
Piping Length (ft)	5075	7600	4790	7105	5460	10560
Chipped Volume Reduction (ft^3/ft)	0.022	0.022	0.022	0.022	0.022	0.022
Chipped Volume (ft^3)	111.65	167.2	105.38	156.31	120.12	232.32
2. 6" HDPE Trunkline						
Piping Length (ft)	2410	10000	4820	3520	3800	7000
Chipped Volume Reduction (ft^3/ft)	0.078	0.078	0.078	0.078	0.078	0.078
Chipped Volume (ft^3)	187.98	780	375.96	274.56	296.4	546
3. 8" HDPE Trunkline						
Piping Length (ft)	4100		1100	2400	1840	0
Chipped Volume Reduction (ft^3/ft)	0.15	0.15	0.15	0.15	0.15	0.15
Chipped Volume (ft^3)	615	0	165	360	276	0
3. 10" HDPE Trunkline						
Piping Length (ft)	0	5200	3660	2280	2400	0
Chipped Volume Reduction (ft^3/ft)	0.277	0.277	0.277	0.277	0.277	0.277

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Chipped Volume (ft^3)	0	1440.4	1013.82	631.56	664.8	0
4. 12" HDPE Trunkline						
Piping Length (ft)	1460	0	0	3210	2060	0
Chipped Volume Reduction (ft^3/ft)	0.293	0.293	0.293	0.293	0.293	0.293
Chipped Volume (ft^3)	427.78	0	0	940.53	603.58	0
5. 14" HDPE Trunkline						
Piping Length (ft)	740	0	0	0	0	
Chipped Volume Reduction (ft^3/ft)	0.359	0.359	0.359	0.359	0.359	0.359
Chipped Volume (ft^3)	265.66	0	0	0	0	0
5. 16" HDPE Trunkline						
Piping Length (ft)	1440	0	0	2800	820	10560
Chipped Volume Reduction (ft^3/ft)	0.4	0.4	0.4	0.4	0.4	0.4
Chipped Volume (ft^3)	576	0	0	1120	328	4224
Total Trunkline Chipped Volume (ft^3)	2184.07	2387.6	1660.16	3482.96	2288.9	5002.32
Volume for Disposal Assuming 10% Void Space (ft^3)	2402	2626	1826	3831	2518	5503
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal Trunkline Transport and Disposal Costs	$13,499	$14,758	$10,262	$21,530	$14,151	$30,927
Trunkline Decommissioning Cost per Wellfield	$17,813	$21,218	$14,334	$27,569	$18,792	$35,415
Total Trunkline Decommissioning Costs	$135,141					
IV. Well Houses						
Total Quantity	315	408	396	343	276	392
Average Well House Volume (ft^3)	12.5	12.5	12.5	12.5	12.5	12.5
A. Removal						
Total Volume (ft^3)	3937.5	5100	4950	4287.5	3450	4900
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.165	$0.165	$0.165	$0.165	$0.165	$0.165
Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)	$0.14	$0.14	$0.14	$0.14	$0.14	$0.14
Subtotal Well House Demolition Costs	$564	$731	$710	$615	$495	$702
B. Survey and Decontamination						
Assumptions:						
Cost per Well House	$5	$5	$5	$5	$5	$5
Subtotal Survey and Decontamination Costs	$1,575	$2,040	$1,980	$1,715	$1,380	$1,960
C. Disposal at NRC licensed Facility						
Total Volume (cy)	146	189	183	159	128	181
Volume for Disposal Assuming 10% Void Space (cy)	160	208	202	175	141	200
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62

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Wellfield Buildings and Equipment Removal and Disposal			Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15
		Subtotal NRC Licensed Facility Disposal Costs	$899	$1,169	$1,135	$984	$792	$1,124
		Well House Removal and Disposal Costs per Wellfield	$3,038	$3,940	$3,825	$3,314	$2,667	$3,786
		Total Well House Removal and Disposal Costs	$20,570					
VI.		**Header Houses**						
		Total Quantity	6	5	8	6	5	7
		Average Header House Volume (ft^3)	2700	2700	2700	2700	2700	2700
	A.	Removal						
		Total Volume (ft^3).	16200	13500	21600	16200	13500	18900
		Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft^3$)	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171
		Unit Cost in $/ft^3 (July 1998 dollars w/o escalator)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15
		Subtotal Building Demolition Costs	$2,407	$2,006	$3,209	$2,407	$2,006	$2,808
	B.	Survey and Decontamination						
		Assumptions:						
		Cost per Header House	$200	$200	$200	$200	$200	$200
		Subtotal Survey and Decontamination Costs	$1,200	$1,000	$1,600	$1,200	$1,000	$1,400
	C.	Disposal						
		Total Volume (cy)	600	500	800	600	500	700
		Volume for Disposal Assuming 10% Void Space (cy)	660	550	880	660	550	770
		Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$5.44	$5.44	$5.44	$5.44	$5.44	$5.44
		Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.73	$4.73	$4.73	$4.73	$4.73	$4.73
		Subtotal On-Site Disposal Costs	$3,119	$2,599	$4,159	$3,119	$2,599	$3,639
		Header House Removal and Disposal Costs per Wellfield	$6,726	$5,605	$8,968	$6,726	$5,605	$7,847
		Total Header House Removal and Disposal Costs	$41,477					
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD			$34,956	$40,967	$38,455	$47,387	$34,570	$55,423
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS			$291,758					

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Well Abandonment			Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-K
I.	Well Abandonment (Wellfields)									
	# of Production Wells		115	146	145	Wells	124	101	140	0
	# of Injection Wells		210	262	251	included	219	175	252	0
	# of Monitoring Wells		49	50	40	under	51	39	105	20
	Total Number of Wells		374	458	436		394	315	497	20
	Average Diameter of Casing (inches)		5	5	5		5	5	5	5
	Average Depth (ft)		500	850	750		850	750	450	950
	Well Abandonment Unit Cost ($/well)		$280	$304	$297		$304	$297	$277	$310
	Subtotal Abandonment Cost per Wellfield		$104,814	$139,095	$129,492		$119,658	$93,555	$137,619	$6,200
	Total Wellfield Abandonment Costs		$724,233							
II.	Waste Disposal Well Abandonment		DDW#1	DDW#2						
	A.	Well Plugging								
		Drill Rig Operation ($/hr)	150	150						
		Number of Hours	31	31						
		Drill Rig Operating Costs	$4,650	$4,650						
		Cementing Costs	$7,500	$7,500						
		Equipment Transport Costs	$1,000	$1,000						
		Well Cap Welding Costs	$1,000	$1,000						
		Brine Makeup and Injection Costs	$1,500	$1,500						
		Subtotal Well Plugging Costs per Well	$15,650	$15,650						
	B.	Pump Dismantling and Decontamination								
		Number of Persons	2	2						
		Number of Pumps	2	2						
		Pumps/Day	0.5	0.5						
		Number of Days	4	4						
		$/Day/Person	$112	$112						
		Subtotal Dismantling and Decon Costs per Well	$896	$896						
	C.	Tubing String Disposal (NRC-Licensed Facility)								
		Length of Tubing String (ft)	10100	10100						
		Diameter of Tubing String (inches)	2.875	2.875						
		Volume of Tubing String (ft^3)	455	455						
		Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62						
		Subtotal Tubing String Disposal Costs per Well	$2,558	$2,558						
	Subtotal Waste Disposal Well Abandonment Costs per Well		$19,104	$19,104						
	Total Waste Disposal Well Abandonment Costs		$38,208							
TOTAL WELL ABANDONMENT COSTS			$762,441							

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Wellfield and Satellite Surface Reclamation	Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit-4	Mine Unit-4A	Mine Unit-15
I. Wellfield Pattern Area, Laydown Area, and Road Reclamation							
Area (acres)	27.1	53.24	38.72	18	31.43	29.6	66.8
Disking/Seeding Unit Cost ($/acre)	$200	$200	$200	$200	$200	$200	$200
Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs	$5,420	$10,648	$7,744	$3,600	$6,286	$5,920	$13,360
Total Wellfield Area Reclamation Costs	$52,978						
III. Satellite Area Reclamation	SR-1						
Assumptions:							
Area of Disturbance (acres)	2.05						
Average Depth of Stripped Topsoil (ft)	1						
Surface Grade: Level Ground							
Average Length of Topsoil Haul (ft)	1000						
A. Ripping Overburden with Dozer							
Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)	$663.93						
Unit Cost in $/acre (July 1998 dollars w/o escalator)	$576.83						
Subtotal Ripping Costs	$1,182						
B. Topsoil Application with Scraper							
Volume of Topsoil Removed (cy)	3307						
Application Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.71						
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$0.62						
Subtotal Topsoil Application Costs	$2,040						
C. Discing and Seeding							
Discing/Seeding Unit Cost ($/acre)	$200						
Subtotal Discing/Seeding Costs	$410						
Subtotal Surface Reclamation Costs per Satellite	$3,632						
Total Satellite Building Area Reclamation Costs	$3,632						
TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS	$56,610						

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Miscellaneous Reclamation					
I.	CPP/Office Area/Pilot Plant/Maint. Shop/Chem. Storage/Yard Reclamation				
	Assumptions				
	Concrete Pad= 0.3 acres				
	Total Area = 10.57 acres				
A.	Concrete Pad				
	Area of Concrete Pad (ft^2)	13068			
	Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)	$3.17			
	Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)	$2.75			
	Average Thickness of Concrete Floor (ft)	0.50			
	Volume of Concrete Floor (ft^3)	6,534			
	Volume of Concrete Floor (cy)	242			
	On-Site Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69			
	Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07			
	Subtotal Concrete Pad Demolition and Disposal Costs	$36,977			
B.	Gravel Road Base Removal				
	Assumptions				
	Average haul distance (ft)	1000			
	Gravel Road Base Width (ft)				
	Gravel Road Base Area (acres)	8.0			
	Average Road Base Depth (ft)	0.5			
	Volume of Road Base (cy)	6453			
	Removal Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.71			
	Unit Cost in $/cy (July 1998 dollars w/o escalator)	$0.62			
	Subtotal Gravel Road Base Removal Costs	$3,981			
B.	Ripping Overburden with Dozer				
	Overburden Surface Area (acres)	10.6			
	Ripping Unit Cost per WDEQ Guideline No.12, App.II ($/acre)	$663.93			
	Unit Cost in $/acre (July 1998 dollars w/o escalator)	$576.83			
	Subtotal Ripping Overburden Costs	$6,097			
C.	Topsoil Application				
	Assumptions:				
	Area of surface disturbance (ft^2)	460426			
	Average thickness of topsoil (ft)	1			
	Average haul distance (ft)	2000			
	Surface grade (%)	0%			
	Volume of Topsoil (cy)	17,053			
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.92			
	Unit Cost in $/cy (July 1998 dollars w/o escalator)	$0.80			
	Subtotal Topsoil Application Costs	$13,630			
D.	Discing/Seeding				
	Assumptions				
	Surface Area (acres)	10.57			
	Discing/Seeding Unit Cost ($/acre)	$200			
	Total Discing/Seeding Costs	$2,114			
	Total CPF/Office/Yard Area Reclamation	$58,818			
II.	Access Road Reclamation	CPP Access Rd.	CPP to SAT 3	Access to WF	MU-15 Access
A.	Assumptions				
	Surface grade	1%	5%	5%	0%
	Length of Road (ft)	5173	15827	15557	10560
	Width of Road (ft)	40	30	14	30
	Area of road (acres)	4.75	10.9	5	7.27
B.	Gravel Road Base Removal				
	Assumptions				
	Average haul distance (ft)	1000	1000	1000	1000
	Gravel Road Base Width (ft)	30	14	14	14
	Gravel Road Base Area (acres)	3.56	5.09	5.00	3.39
	Average Road Base Depth (ft)	0.5	0.5	0.5	0.5
	Volume of Road Base (cy)	2874	4103	4033	2738
	Removal Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.71	$0.71	$0.71	$0.71

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Miscellaneous Reclamation						
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$0.62	$0.62	$0.62	$0.62
Subtotal Gravel Road Base Removal Costs	$1,773	$2,531	$2,488	$1,689
C. Ripping Overburden with Dozer				
Overburden Surface Area (acres)	4.8	10.9	5.0	7.3
Ripping Unit Cost per WDEQ Guideline No.12, App.II ($/acre)	$663.93	$663.93	$663.93	$663.93
Unit Cost in $/acre (July 1998 dollars w/o escalator)	$576.83	$576.83	$576.83	$576.83
Subtotal Ripping Overburden Costs	$2,740	$6,287	$2,884	$4,195
D. Topsoil Application				
Assumptions				
Average haul distance (ft)	1500	1500	1500	1500
Topsoil Surface Area (ft^2)	206910	474804	217800	316800
Depth of Topsoil (ft)	0.5	0.5	0.5	0.5
Volume of Topsoil (cy)	3832	8793	4033	5867
Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$1.50	$1.50	$0.82	$0.82
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$1.30	$1.30	$0.71	$0.71
Subtotal Topsoil Application Costs	$4,993	$11,459	$2,873	$4,180
E. Discing/Seeding				
Assumptions				
Surface Area (acres)	4.8	10.9	5.0	7.3
Discing/Seeding Unit Cost ($/acre)	$200	$200	$200	$200
Subtotal Discing/Seeding Costs	$950	$2,180	$1,000	$1,455
Subtotal Reclamation Costs per Access Road	$10,456	$22,457	$9,245	$11,519
Total Access Road Reclamation Costs	$53,677			
III. Trunk Lines #1 and #2	**Trunk Line #1 (To MU-4)**	**Trunk Line #2 (To SR-1)**	**Trunk Line #3 (MU-15 to MU-4)**	**Trunk Line #4 (O-Sand Pilot)**
Length of Trench (ft)	7750	8500	10560	5500
A. Removal and Loading				
Main Pipeline Removal Unit Cost ($/ft of trench)	$0.85	$0.85	$0.85	$0.85
Subtotal Trunkline Removal and Loading Costs	$6,588	$7,225	$8,976	$4,675
B. Transport and Disposal Costs (NRC-Licensed Facility)				
1. 3" HDPE Trunkline				
Piping Length (ft)	7750	42500	10560	22000
Chipped Volume Reduction (ft^3/ft)	0.022	0.022	0.022	0.022
Chipped Volume (ft^3)	170.5	935	232.32	484
2. 6" HDPE Trunkline				
Piping Length (ft)	7750	17000	10560	0
Chipped Volume Reduction (ft^3/ft)	0.078	0.078	0.078	0.078
Chipped Volume (ft^3)	604.5	1326	823.68	0
3. 8" HDPE Trunkline				
Piping Length (ft)	0	0	0	0
Chipped Volume Reduction (ft^3/ft)	0.15	0.15	0.15	0.15
Chipped Volume (ft^3)	0	0	0	0
3. 10" HDPE Trunkline				
Piping Length (ft)	0	0	0	0
Chipped Volume Reduction (ft^3/ft)	0.277	0.277	0.277	0.277
Chipped Volume (ft^3)	0	0	0	0
4. 12" HDPE Trunkline				
Piping Length (ft)	0	9000	0	0
Chipped Volume Reduction (ft^3/ft)	0.293	0.293	0.293	0.293
Chipped Volume (ft^3)	0	2637	0	0
5. 14" HDPE Trunkline				
Piping Length (ft)	0	0	0	0
Chipped Volume Reduction (ft^3/ft)	0.359	0.359	0.359	0.359
Chipped Volume (ft^3)	0	0	0	0
5. 16" HDPE Trunkline				
Piping Length (ft)	15500	8000	21120	15500

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Chipped Volume Reduction (ft^3/ft)				0.4	0.4	0.4	0.4
Chipped Volume (ft^3)				6200	3200	8448	6200
Total Trunkline Chipped Volume (ft^3)				6975	8098	9504	6684
Volume for Disposal Assuming 10% Void Space (ft^3)				7673	8908	10454	7352
Transportation and Disposal Unit Cost (NRC-Licensed Facility) ($/$ft^3$)				$5.62	$5.62	$5.62	$5.62
Subtotal Pipeline Disposal Costs				$43,122	$50,063	$58,751	$41,318
C. Discing/Seeding							
Assumptions:							
Width of Pipeline Trench (ft)				4	4	4	4
Area of Pipeline Trench (acres)				0.7	0.8	1.0	0.5
Discing/Seeding Unit Cost ($/acre)				$200	$200	$200	$200
Subtotal Discing/Seeding Costs				$142	$156	$194	$101
Subtotal Reclamation Costs per Pipeline				$49,852	$57,444	$67,921	$46,094
Total Pipeline Reclamation Costs				**$221,311**			
IV. Settling Basin/Evap. Pond Reclamation				**Evaporation Pond**	**SettlingPond**		
A. Soil Sampling and Monitoring							
Number of Soil Samples				0	15		
$/Sample				$60	$60		
Subtotal Soil Sampling and Monitoring Costs				$0	$900		
B. Liner/Subsoil Removal and Disposal							
Assumptions:							
Clay liner and subsoil constitute by-product material							
Thickness of clay liner (ft)				0.5	0.5		
Thickness of contaminated subsoil (ft)				0.5	0.5		
Removal and Loading Unit Cost based on engineer's design							
report and Cat Performance Handbook							
Width of Pond (ft)				200	252		
Length of Pond (ft)				100	432		
Depth of Pond (ft)				10	20		
Surface area of pond (ft^2)				20000	108864		
1. Removal and Loading (Settling Pond is not By-Product, therefore can stay in place)							
Volume of Clay Liner (cy)				741	0		
Clay Liner Removal and Loading Unit Cost ($/cy)				$3	$3		
Subtotal Liner Removal and Loading Costs				$2,222	$0		
2. Transportation and Disposal							
Volume of Clay Liner (ft^3)				0	0		
Volume of Geotextile Liner (ft^3)				50	0		
Volume of Geotextile Liner @ 40% void (ft^3)				83	0		
Transportation and Disposal Unit Cost ($/$ft^3$)				$5.62	$5.62		
Subtotal Liner Transportation and Disposal Costs				$468	$0		
Subtotal Liner Removal and Disposal Costs				$2,690	$0		
C. Grade and Contour							
Volume of Embankment Material (CY)				7,407	80,640		
Average Grade (%)				0	0		
Distance (ft)				50	100		
Material Moving Unit Cost per WDEQ Guideline No.12, App.E ($/cy)				$0.092	$0.161		
Unit Cost in $/cy (July 1998 dollars w/o escalator)				$0.08	$0.14		
Subtotal Grade and Contour Costs				$592	$11,280		
C. Topsoil Application							
Assumptions:							
Area of surface disturbance (ft^2)				20000	108899		
Average thickness of topsoil (ft)				1	1		
Average haul distance (ft)				1000	1000		
Surface grade (%)				0%	3%		
Volume of Topsoil (cy)				741	4,033		
Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)				$0.71	$0.71		
Unit Cost in $/cy (July 1998 dollars w/o escalator)				$0.62	$0.62		
Subtotal Topsoil Application Costs				$457	$2,488		
D. Discing/Seeding							

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		Assumptions:							
			Area of surface disturbance (acres)				0.5	2.5	
			Discing/Seeding Unit Cost ($/acre)				$200	$200	
		Subtotal Discing/Seeding Costs					$100	$500	
	Subtotal Reclamation Costs per Pond						$3,839	$15,168	
	Total Settling Basin/Evap. Ponds Reclamation Costs						$19,007		
V.	**Miscellaneous Structures**								
	A.	Venthole							
		Hole Depth (ft)					335		
		Concrete Volume (cy)					270		
		Backfill ($1.09/cy)					$365		
		Backhoe 16 hrs ($50/hour)					$800		
		Steel Plate and Rebar					$300		
		Cement (10 cy @$76/cy delivered)					$760		
		Labor (40 man-hours @ $15/hour)					$600		
		Dirt Cover (100 cy @ $1.09/cy)					$109		
		Subtotal Venthole Plugging Costs					$2,934		
	B.	Potable Water Wells							
		Total Depth (ft) (Two 5-inch Diameter Wells, @ 750 ft)					1,500		
		Well Abandonment Unit Cost ($/100 ft)					$6.70		
		Subtotal Potable Water Wells Abandonment Costs					$100.50		
	C.	Fuel Area							
		Concrete Floor							
			Area of Concrete Floor (ft^2)				375		
			Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)				$3.17		
			Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)				$2.75		
		Subtotal Concrete Floor Demolition Costs					$1,033		
		Concrete Footing							
			Length of Concrete Footing (ft)				77		
			Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)				$11.45		
			Unit Cost in $/lin. ft (July 1998 dollars w/o escalator)				$9.95		
		Subtotal Concrete Footing Demolition Costs					$771		
		Subtotal Fuel Area Costs					$1,804		
	Total Miscellaneous Structures Reclamation Costs						$4,838.65		
TOTAL MISCELLANEOUS RECLAMATION COSTS							$357,652		

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GROUNDWATER SWEEP (GWS)

Assumptions:

1. All pumps are 5 hp pumping at 5.0 gpm
2. Cost of electricity = $0.03/kwh
3. All water pumped is disposed at WDW with a 20 hp pump
4. Repair and maintenance costs estimated at $0.03/1000 gallons
5. Process sampling and analysis costs estimated at $0.03/1000 gallons
6. Labor costs are not included

Wellfield Pumping Costs per 1000 Gallons

$$\frac{1000\ \text{gal}}{} \times \frac{5\ \text{hp}}{5\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.37$$

Pumping to WDW Costs per 1000 Gallons

$$\frac{1000\ \text{gal}}{} \times \frac{75\ \text{hp}}{200\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.14$$

Repair and Maintenance Costs per 1000 Gallons	= $ 0.03
Process Sampling and Analysis Costs per 1000 Gallons	= $ 0.03
TOTAL GWS COSTS PER 1000 GALLONS	= $ 0.57

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REVERSE OSMOSIS (RO)										
Assumptions:										
1.	Based on actual 1998 operating costs at Satellite No. 1. Verified by									
	Hydranautics RO System Design Software, Version 6.0 (1995)									
2.	Cost of electricity = $0.03/kwh									
3.	80% permeate/20% reject split									
4.	Membrane life of 4 years with a cost of $695 per membrane element									
5.	Includes cost of pumping from wellfield to RO Unit									
6.	The 20% reject is disposed at WDW with a 20 hp pump at actual cost of									
	$0.14/1000 gallons									
7.	The permeate is returned to the wellfield with a 20 hp pump at actual cost of									
	$0.019/1000 gallons									
8.	Process sampling and analysis costs estimated at $0.03/1000 gallons									
9.	Labor costs are not included									
Reverse Osmosis Costs per 1000 Gallons										
	Electricity					= $	0.17			
	Chemicals					= $	0.26			
	Membrane Replacement					= $	0.15			
	Repair and Maintenance					= $	0.26			
	Pumping from Wellfield					= $	0.37			
	Pumping to Wellfield					=$	0.019			
	Pumping to WDW									
	$ 0.14	X	0.2			= $	0.0028			
	Process Sampling and Analysis					= $	0.03			
TOTAL RO COSTS PER 1000 GALLONS						= $	1.26			

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CHEMICAL REDUCTANT			
Assumptions:			
1.	Bioremediation is utilized		
2.	Based on actual 2003-2004 operating costs during restoration activities		
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal		**= $**	**0.33**
July 1998 Dollars		**= $**	**0.29**

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ELUTION PROCESSING		
Assumptions:		
1. Based on actual operating costs		
TOTAL PROCESSING COSTS PER ELUTION	**= $**	**525**

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DEEP WELL INJECTION

Assumptions:

1. Pump 75 hp pumping at 200 gpm
2. Cost of electricity = $0.03/kwh
3. Repair and maintenance costs based on average injection volume of 8,000,000 gallons per year
4. Repair and maintenance costs estimated at $1.25/1000 gallons
5. Chemical costs based on average injection volume of 8,000,000 gallons per year
6. Labor costs are not included

Waste Disposal Pumping Costs per 1000 Gallons

$$\frac{1000\ \text{gal}}{} \times \frac{75\ \text{hp}}{200\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.14$$

Repair and Maintenance Costs per 1000 Gallons = $ 1.25

TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS = $ 1.39

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WELL ABANDONMENT														
Assumptions:														
1.	Use backhoe for 0.5 hr/well to dig and reclaim pit at cost of $50/hr.													
2.	Use hose reel/tow vehicle for 2 hr/well to pull hoses and pump plug gel at cost of $35/hr.													
3.	Use cementer/tow vehicle for 1 hr/well to pump plug gel at cost of $45/hr.													
4.	Labor for backhoe, hose reel, cementer will require 2 workers at 3.5 hr/well at cost of $15/hr.													
5.	Materials include one hole plug at $1.75 and one sack of plug gel/100 ft of 5 inch well casing.													
	Cost of plug gel is $6.70/sack.													
Well Abandonment Costs														
	Fixed Costs													
	Backhoe													
		0.5	hours	X	$	50	per hour		=$	25.00				
	Hose Reel/Tow Vehicle													
		2	hours	X	$	35	per hour		=$	70.00				
	Cementer/Tow Vehicle													
		1	hours	X	$	45	per hour		=$	45.00				
	Labor													
		7	man	X	$	15.00	per man		=$	105.00				
			hours				hour							
	Materials													
		1	hole	X	$	1.75	per hole		=$	1.75				
			plug				plug							
						Total Fixed Costs			=$	246.75				
	Variable Costs		(per 100 ft of well depth)											
	Materials													
		1	sack plug gel	X	$	6.70	per		=$	6.70				
			per 100 feet				sack							
	Cost per Well per Unit of Average Depth													
					Well Depth (ft)									
					450				**=$**	**277**				
					500				**=$**	**280**				
					550				**=$**	**284**				
					600				**=$**	**287**				
					650				**=$**	**290**				
					700				**=$**	**294**				
					750				**=$**	**297**				
					800				**=$**	**300**				
					850				**=$**	**304**				
					900				**=$**	**307**				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)														
Assumptions:														
1.	Based on 1999 PRI costs.													
2.	Use Pulling Unit for 0.25 hr/well at cost of $45/hr.													
3.	Use MIT Unit for 1.5 hr/well at cost of $20/hr.													
4.	Labor for operation of pulling unit will require 2 workers at $15/hr													
5.	Labor for operation of MIT Unit will require 1 worker at $15/hr													
MIT Costs per Well														
Equipment:														
	Pulling Unit													
		0.25	hours	X	$	45	per hour				=$	11.25		
	MIT Unit													
		1.5	hours	X	$	20	per hour				=$	30.00		
Labor:														
	Pulling Unit													
		0.25	hours	X	$	15	per hour	X	2	workers	=$	$7.50		
	MIT Unit													
		1.5	hours	X	$	15	per hour				=$	22.50		
							MIT COST PER WELL				**=$**	**71**		

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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MAIN PIPELINE REMOVAL												
Assumptions:												
1.	Trenching with trackhoe at 1500 ft/day											
2.	Pipeline extraction and backfilling with trackhoe at 1500 ft/day											
3.	Trackhoe rental: $1600/week											
4.	Fuel cost: $9/operating hour											
5.	Trackhoe operation requires 1 worker at $15/hour											
6.	Pipeline extraction requires 2 workers at $15/hour (in addition to trackhoe operator)											
7.	Pipelines removed simutaneously											
8.	Includes removal of manholes											
9.	Operating schedule: 8 hrs/day, 5 days/week											
Main Pipeline Removal Costs per ft of Trench												
Equipment												
	Trackhoe											
		$ 1600 / week	X	1 week / 5 days	X	2 days / 1500 ft	=$	0.43				
	Fuel											
		$ 9 / hour	X	8 hrs / 1 day	X	2 days / 1500 ft	=$	0.10				
Labor												
	Trackhoe Operation											
		$ 15 / man hr	X	8 man hrs / 1 day	X	2 days / 1500 ft	=$	0.16				
	Pipeline Extraction											
		$ 15 / man hr	X	16 man hrs / 1 day	X	1 day / 1500 ft	=$	0.16				
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH							=$	**0.85**				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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(REVISED JUNE 2004)

WELLFIELD PIPING REMOVAL												
Assumptions:												
1.	Trenching with backhoe at 3000 ft/day											
2.	Pipeline extraction and backfilling with backhoe at 3000 ft/day											
3.	Backhoe rental: $750/week											
4.	Fuel cost: $9/operating hour											
5.	Backhoe operation requires 1 worker at $15/hour											
6.	Pipeline extraction requires 2 workers at $15/hour (in addition to trackhoe operator)											
7.	Operating schedule: 8 hrs/day, 5 days/week											
Main Pipeline Removal Costs per ft of Pipe												
Equipment												
	Backhoe											
		$ 750 / week	X	1 week / 5 days	X	2 days / 3000 ft	=$	0.10				
	Fuel											
		$ 9 / hour	X	8 hrs / 1 day	X	2 days / 3000 ft	=$	0.05				
Labor												
	Backhoe Operation											
		$ 15 / man hr	X	8 man hrs / -1 day	X	2 days / 3000 ft	=$	0.08				
	Pipeline Extraction											
		$ 15 / man hr	X	16 man hrs / -1 day	X	1 day / 3000 ft	=$	0.08				
	MAIN PIPELINE REMOVAL COST PER FT OF PIPE						**=$**	**0.31**				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL

Assumptions:

1. Based on actual 2001-2002 contracted costs for transportation to and disposal at an NRC-licensed disposal facility.
2. Includes profit for transporter and disposal facility.
3. All types of waste shipped vi bulk container (30-yd^3 dumpster or 30-yd^3 dump truck).
4. Each shipment contains 30,000 lbs of material.

Transportation Cost			Disposal Cost			Total	
$ 66.67	/yd^3	+	$ 85.00	/yd^3	=	$ 151.67	/yd^3
					=	**$ 5.62**	**/ft^3**

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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(REVISED JUNE 2004)

DISKING/SEEDING									
Assumptions:									
1.	Based on actual contractor costs								
TOTAL DISKING/SEEDING COSTS PER ACRE					**= $**	**200**			

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION
(REVISED JUNE 2004)

Abbreviations/Acronyms	
$	Dollars
$/Kgal	Dollars per 1000 gallons
avg	average
ft	feet
ft2	square feet
ft3	cubic feet
gal	gallon
gpm	gallons per minute
H&S	Health and Safety
H2S	Hydrogen Sulfide
H2SO4	Sulfuric Acid
HCl	Hydrochloric Acid
Hp	Horsepower
Kgal	1000 gallons
Kwh	Kilowatt-hours
NaOH	Caustic Soda
OD	Outside Diameter
PPE	personal protective equipment
PV	Pore Volume Estimate
reqm't	requirement
RO	Reverse Osmosis
WDW	Waste Disposal Well
yd3	cubic yards
yr	year

HIGHLAND URANIUM PROJECT
2004-2005 Surety Estimate Revision

The 2004-2005 Surety Estimate Revision is based on the current approved estimate, which utilizes the WDEQ-LQD standardized bond format and, where applicable, the cost estimates provided in WDEQ-LQD Guideline No. 12 (dated November 2003). The 2004-2005 Surety Estimate Revision results in a Surety Estimate of $22,402,000, which is an increase of $1,123,900 from the currently approved Surety Estimate of $21,278,100. The attached computer disk contains the Excel file (HUPBOND2004), which contains all spreadsheets and unit cost derivations.

The 2004-2005 Surety Estimate Revision reflects costs associated with new development during the report period and planned operations during the next one-year surety period. The only significant development during this report period was construction activities in Mine Unit-I. Completed construction activities include the monitor well ring, the main trunkline from Satellite #2, completion of wellfield patterns and monitor wells associated with Headerhouse #1, and start-up of Headerhouse #1. During the next one-year surety period, PRI anticipates development and full-scale production from the entire Mine Unit-I. Updating the Surety Estimate with appropriate ground water restoration, decommissioning, and reclamation costs for pattern areas and the trunkline corridor for Mine Unit-I added approximately $289,000 (before any escalators) to the Surety Estimate.

In addition, cost estimates based on the WDEQ-LQD Guideline No. 12 were revised to reflect the estimates in the most recent version (November 2003), and utility costs were updated based on current operating costs. Unit costs used from the current WDEQ-LQD Guideline No. 12 were de-escalated to July 1998 dollars to maintain consistency with the other unit costs used in the bond calculations. The CPI escalator is then applied to the total tabulated costs. WDEQ-LQD Guideline No. 12 unit costs are mainly used to estimate building demolition and disposal, wellfield demolition and disposal, and surface reclamation costs. Using the current, de-escalated to July 1998 dollars WDEQ-LQD Guideline No. 12 unit costs, estimates for those areas listed above decreased slightly from the previous Surety Estimate. WDEQ-LQD Guideline No. 12 unit costs used in the previous Surety Estimate were not de-escalated to July 1998 dollars and, consequently, were unnecessarily inflated compared to the more accurate revised 2004-2005 Surety Estimate. Similarly, the revised utility costs were estimated by taking the current operating costs and converting them into July 1998 dollars. Utility costs for operation of the Central Processing Plant were estimated at a lower value for restoration than current costs since utility consumption will be less during restoration (i.e. less elutions, less operation of the yellowcake dryers). Revisions to the utility costs and the WDEQ-LQD Guideline No. 12 unit costs resulted in an increase of $470,000 (before any escalators) to the Surety Estimate.

Conversely, a decrease of $332,480 to the Surety Estimate resulted from eliminating the future construction of new restoration wells. PRI does not anticipate any more construction of restoration wells beyond what is currently in place.

Ground water restoration at Mine Unit-A has been completed and approved by the WDEQ. NRC approval was pending at the time of submittal. Therefore, in accordance with directives from the NRC, there are no groundwater restoration costs for Mine Unit-A included in the 2004-2005 Surety Estimate. Costs for removal of buildings and equipment, well abandonment, and surface reclamation for Mine Unit-A are retained in the 2004-2005 Surety Estimate.

Ground water restoration of Mine Unit-B has also been completed as of the end of June 2004 and "Stability Monitoring" began at that time. Since regulatory agency approval had not been obtained, the costs of ground water restoration activities (approximately $800,000) were retained in this Surety Estimate. It is expected that ground water restoration of Mine Unit-B will be approved by the regulatory agencies during the next report period and these costs will be eliminated from the next (2005-2006) Surety Estimate.

The remaining portion of the $1,123,900 increase in the Surety Estimate (approximately $698,024) is a result of the CPI escalator, which increased from 12.4 to 15.1% (July 1998 to May 2004), and the 25% contingency.

As requested by the WDEQ-LQD, the 2004-2005 Surety Estimate Revision also reflects an estimated $30,000 and $42,000 (before any escalators) for potential mitigation plans for Irrigators No. 1A and No. 2, respectively, to reduce selenium levels in the vegetation after waste water disposal operations cease. PRI does not believe that such a mitigation plan will be needed. Additionally, PRI has retained $250,000 (before any escalators) to assist with any mitigation activities potentially needed as a result of the on-going shallow casing leak investigation.

Consistent with the previous estimate, PRI utilized one pore volume (PV) of ground water sweep (GWS) and five PV's of reverse osmosis (RO) treatment (including 2 PV's for bioremediation or reductant addition) for estimating groundwater restoration costs. As discussed in previous submittals, such an approach should result in faster and more cost effective restoration, and less consumptive use of ground water. Groundwater restoration costs were estimated using bioremediation in place of chemical reductant. Bioremediation costs were based on actual current operating costs de-escalated to July 1998 dollars. Bioremediation shows higher costs than previous costs for chemical reductant addition, but has proven to be more effective.

PRI believes that the 2004-2005 Surety Estimate Revision is conservative, and exceeds potential actual restoration, reclamation, and decommissioning costs in the unlikely event of bond forfeiture for the following major reasons:

- Costs associated with the active ground water restoration of Mine Unit-B (approximately $800,000) have been retained in this estimate, although restoration has been completed (regulatory agency approval has not been obtained).

- PRI believes that ground water restoration can be accomplished in less time than the restoration technique and schedule utilized in the estimate indicate.

- The added contingency of 25% further increases the conservatism of all items included in the estimate.

- No salvage value is realized for buildings, process equipment, switch gear, electrical equipment, motors, rolling stock and other uncontaminated materials and facilities which actually have significant salvage value.

- It is likely that some buildings and roads will not require demolition, disposal, and reclamation, as area landowners may desire to retain some of these facilities for their use.

POWER RESOURCES INC HIGHLAND URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION

Total Restoration and Reclamation Cost Estimate		
I.	GROUNDWATER RESTORATION COST	$11,196,075
II.	EQUIPMENT REMOVAL & DISPOSAL COST	$103,633
III.	BUILDING DEMOLITION AND DISPOSAL COST	$1,011,992
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST	$1,143,565
V.	WELL ABANDONMENT COST	$1,332,358
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION COST	$87,089
VII.	TOTAL MISCELLANEOUS RECLAMATION COST	$695,734
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE	$15,570,446
	CPI ESCALATOR- July 1998 to April 30, 2004 (15.1%)	$2,351,137
	SUBTOTAL	$17,921,583
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)	$4,480,396
	TOTAL	$22,401,979
	TOTAL CALCULATED SURETY (IN 2004 DOLLARS)	$22,402,000

POWER RESOURCES INC HIGHLAND URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION

Ground Water Restoration	Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul. Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I
PV Assumptions											
Wellfield Area (ft2)	151900	690900	1274000	32500		279500	994500	3348000	1116000	216000	891231
Wellfield Area (acres)	3.49	15.86	29.25	0.75	0.00	6.42	22.83	76.86	25.62	4.96	20.46
Affected Ore Zone Area (ft2)	151900	690900	1274000	32500	0	279500	994500	3348000	1116000	216000	891231
Avg. Completed Thickness	15	15	15	15		15	15	15	15	15	15
Porosity	0.27	0.27	0.27	0.27		0.27	0.27	0.27	0.27	0.27	0.27
Flare Factor	2.94	2.94	2.94	2.94		2.94	2.94	2.94	2.94	2.94	2.94
Affected Volume (ft3)	6698790	30468690	56183400	1433250	1360000	12325950	43857450	147646800	49215600	9525600	39303287
Kgallons per Pore Volume	13529	61535	113468	2895	10173	24893	88575	298187	99396	19238	79377
Number of Patterns in Unit(s)											
Current	31	141	196	5	0	43	153	465	155	30	21
Estimated next report period	0	0	0	0	0	0	0	0	0	0	103
Total Estimated	31	141	196	5	0	43	153	465	155	30	124
Number of Wells in Unit(s)											
Production Wells											
Current	27	141	192			45	143	465	155	30	18
Estimated next report period	0	0	0			0	0	0	0	0	107
Total Estimated	27	141	192			45	143	465	155	30	125
Injection Wells											
Current	50	319	343			91	307	903	327	67	34
Estimated next report period	0	0	0	Wells		0	0	0	0	0	202
Total Estimated	50	319	343	included		91	307	903	327	67	236
Monitor Wells				under							
Current	18	67	78	C-Wellfield		38	86	134	81	20	39
Estimated next report period	0	0	0			0	0	0	0	0	0
Total Estimated	18	67	78			38	86	134	81	20	39
Restoration Wells											
Current	13	30	19			0	0	15	0	0	0
Estimated next report period	0	0	0			0	0	0	0	0	0
Total Estimated	13	30	19					15	0	0	0
Number of Wells per Wellfield	108	557	632	0	0	174	536	1517	563	117	400
Total Number of Wells	4087										
Average Well Depth (ft)	500	450	550	550	550	600	550	650	500	600	650
I. Restoration Well Installation Costs											
Number of Restoration Wells	0	0	0	0	0	0	0	0	0	0	0
Well Installation Unit Cost ($/Well)	$4,000	$4,000	$4,000	$4,000	$4,000	$4,000	$4,000	$4,000	$4,000	$4,000	$4,000
Subtotal Restoration Well Installation Costs per Wellfield	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Total Restoration Well Installation Costs	$0										

POWER RESOURCES INC HIGHLAND URANIUM PROJECT
2004-2005 SURETY ESTIMATE REVISION

Ground Water Restoration	Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul. Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I
II. Ground Water Sweep Costs											
PV's Required	0	1	1	1	1	1	1	1	1	1	1
Total Kgals for Treatment	0	61535	113468	2895	10173	24893	88575	298187	99396	19238	79377
Ground Water Sweep Unit Cost ($/Kgal)	$0.77	$0.77	$0.77	$0.77	$0.77	$0.77	$0.77	$0.77	$0.77	$0.77	$0.77
Subtotal Ground Water Sweep Costs per Wellfield	$0	$47,114	$86,877	$2,216	$7,789	$19,060	$67,817	$228,307	$76,102	$14,729	$60,775
Total Ground Water Sweep Costs	$610,786										
III. Reverse Osmosis Costs											
PV's Required	0	5	5	5	5	5	5	5	5	5	5
Total Kgals for Treatment	0	307673	567340	14473	50864	124467	442873	1490937	496979	96190	396885
Reverse Osmosis Unit Cost ($/Kgal)	$1.33	$1.33	$1.33	$1.33	$1.33	$1.33	$1.33	$1.33	$1.33	$1.33	$1.33
Subtotal Reverse Osmosis Costs per Wellfield	$0	$407,851	$752,066	$19,185	$67,425	$164,994	$587,072	$1,976,387	$658,796	$127,509	$526,110
Total Reverse Osmosis Costs	$5,287,395										
IV. Bioremediation/Chemical Reductant Costs											
Total Kgals for Treatment (2 Pore Volumes)	0	123069	226936	5789	20346	49787	177149	596375	198792	38476	158754
Chemical Reductant Unit Cost ($/Kgal)	$0.29	$0.29	$0.29	$0.29	$0.29	$0.29	$0.29	$0.29	$0.29	$0.29	$0.29
Subtotal Chemical Reductant Costs per Wellfield	$0	$35,690	$65,811	$1,679	$5,900	$14,438	$51,373	$172,949	$57,650	$11,158	$46,039
Total Chemical Reductant Costs	$462,687										
V. Elution Costs											
A. Elution Processing Costs											
Kgals/Elution Required	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000
Number of Elutions	0	11	19	1	2	4	15	51	17	3	14
Processing Unit Cost ($/Elution)	$525	$525	$525	$525	$525	$525	$525	$525	$525	$525	$525
Subtotal Processing Costs	$0	$5,775	$9,975	$525	$1,050	$2,100	$7,875	$26,775	$8,925	$1,575	$7,350
B. Deep Well Injection Costs											
Deep Well Injection Volume (Kgals/Elution)	12	12	12	12	12	12	12	12	12	12	12
Total Kgals for Injection	0	132	228	12	24	48	180	612	204	36	168
Deep Well Injection Unit Cost ($/Kgals)	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60
Subtotal Deep Well Injection Costs	$0	$607	$1,049	$55	$110	$221	$828	$2,816	$939	$166	$773
Subtotal Elution Costs per Wellfield	$0	$6,382	$11,024	$580	$1,160	$2,321	$8,703	$29,591	$9,864	$1,741	$8,123
Total Elution Costs	$79,489										
VI. Monitoring and Sampling Costs											
A. Restoration Well Sampling											
Estimated Restoration Period (Years)	5	5	5	5	2	5	5	5	5	5	5
1. Well Sampling prior to restoration start											
# of Wells	0	20	31	5	7	9	31	21	12	4	6
$/sample	$150	$150	$150	$150	$150	$150	$150	$150	$150	$150	$150

Ground Water Restoration	Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul. Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I
2. Restoration Progress Sampling											
# of Wells	0	20	31	5	7	9	31	21	12	4	6
$/sample	$34	$34	$34	$34	$34	$34	$34	$34	$34	$34	$34
Samples/Year	6	6	6	6	6	6	6	6	6	6	6
3. UCL Sampling											
# of Wells	0	70	78	5	20	29	55	89	69	16	33
$/sample	$19	$19	$19	$19	$19	$19	$19	$19	$19	$19	$19
Samples/Year	6	6	6	6	6	6	6	6	6	6	6
Sub-total Restoration Analyses	$0	$63,300	$80,730	$8,700	$8,466	$27,060	$67,620	$75,300	$53,370	$13,800	$25,830
B. Short-term Stability											
Estimated Stabilization Period (Months)	12	12	12	12	12	12	12	12	12	12	12
# of Wells	6	56	44	6	2	19	28	89	69	16	33
Samples/Year	6	6	6	6	6	6	6	6	6	6	6
$/sample	$19	$19	$19	$19	$19	$19	$19	$19	$19	$19	$19
# of Wells	5	20	31	6	2	9	31	21	12	4	6
Samples/Year	6	6	6	6	6	6	6	6	6	6	6
$/sample	$34	$34	$34	$34	$34	$34	$34	$34	$34	$34	$34
# of Wells	5	20	31	6	2	9	31	21	12	4	6
Samples/Year	2	2	2	2	2	2	2	2	2	2	2
$/sample	$150	$150	$150	$150	$150	$150	$150	$150	$150	$150	$150
Sub-total Short-term Stability Analyses	$3,204	$16,464	$20,640	$3,708	$1,236	$6,702	$18,816	$20,730	$13,914	$3,840	$6,786
Subtotal Monitoring and Sampling Costs per Wellfield	$3,204	$79,764	$101,370	$12,408	$9,702	$33,762	$86,436	$96,030	$67,284	$17,640	$32,616
Total Monitoring and Sampling Costs	$540,216										
VII. Mechanical Integrity Test (MIT) Costs											
Five Year MIT Unit Cost ($/well)	$71	$71	$71	$71	$71	$71	$71	$71	$71	$71	$71
Number of Wells (30% of Inj. and Rest. Wells)	0	0	109	0	0	27	92	275	98	20	71
Subtotal Mechanical Integrity Testing Costs per Wellfield	$0	$0	$7,711	$0	$0	$1,938	$6,539	$19,553	$6,965	$1,427	$5,027
Total Mechanical Integrity Testing Cost	$49,160										
TOTAL RESTORATION COSTS PER WELLFIELD	$3,204	$576,801	$1,024,859	$36,068	$91,976	$236,513	$807,940	$2,522,817	$876,661	$174,204	$678,690
TOTAL WELLFIELD RESTORATION COST	$7,029,733										
VIII Building Utility Costs	Central Plant	Main Office	Satellite No.1	Satellite No.2	Satellite No.3						
Electricity ($/Month)	$8,500	$1,825	$1,050	$1,190	$1,675						
Propane ($/Month)	$0	$0	$680	$0	$1,160						
Natural Gas ($/Month)	$2,500	$595	$0	$520	$0						
Number of Months	48	60	6	48	48						
Subtotal Utility Costs per Building	$528,000	$145,200	$10,380	$82,080	$136,080						
Total Building Utility Costs	$901,740										

Ground Water Restoration				
IX.	Irrigation Maintenance and Monitoring Costs	Irrigator No.1	Irrigator No.2	
	A. Irrigation Maintenance and Repair			
	Irrigation Operation Months/Year	6	6	
	Cost per Month	$667	$667	
	Total Number of Years	5	5	
	Subtotal Maintenance and Repair Costs	$20,010	$20,010	
	B. Irrigation Monitoring and Sampling			
	# of Irrigation Fluid Samples/Year	6	6	
	Cost/sample	$121	$121	
	# of Vegetation Samples/Year	4	4	
	Cost/sample	$165	$165	
	# of Soil Samples/Year	28	32	
	Cost/sample	$174	$174	
	# of Soil Water Samples/Year	12	2	
	Cost/sample	$121	$121	
	Total Number of Years	5	5	
	Subtotal Sampling Costs	$38,550	$35,980	
	Subtotal Maintenance and Monitoring Costs per Irrigator	$58,560	$55,990	
	Total Irrigation Maintenance and Monitoring Costs	$114,550		
X.	Capital Costs (RO Purchase)			
	Purchase/Installation Costs for 500 gpm RO Capacity	$500,000		
	Total Capital Costs	$500,000		
XI.	Vehicle Operation Costs			
	Number of Pickup Trucks/Pulling Units (Gas)	10		
	Unit Cost in $/hr (WDEQ Guideline No.12, Table D-1)	$10.13		
	Unit Cost in $/hr (July 1998 dollars w/o escalator)	$8.80		
	Average Operating Time (Hrs/Year)	1000		
	Total Number of Years (Average)	5		
	Total Vehicle Operation Costs	$440,052		
XII.	Labor Costs			
	Number of Environmental Managers/RSOs	1		
	$/Year	$60,000		
	Number of Restoration Managers	1		
	$/Year	$50,000		
	Number of Environmental Technicians	2		
	$/Year	$28,000		
	Number of Operators/Laborers	7		
	$/Year	$28,000		
	Number of Maintenance Technicians	2		
	$/Year	$28,000		
	Number of Years	5		
	Total Labor Costs	$2,090,000		
XIII	Capital Costs			
	Purchase RO Units (2X800 gpm Units)	$120,000		
	Total Labor Costs	$120,000		
TOTAL GROUND WATER RESTORATION COSTS		$11,196,075		

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Equipment Removal and Loading	Central Plant	Satellite No.1	Satellite No.2	Satellite No.3
I. Removal and Loading Costs				
A. Tankage				
Number of Tanks	26	8	14	18
Volume of Tank Construction Material (ft^3)	1028	162	290	397
1. Labor				
Number of Persons	3	3	3	3
Ft^3/Day	25	25	25	25
Number of Days	41	6	12	16
$/Day/Person	$112	$112	$112	$112
Subtotal Labor Costs	$13,776	$2,016	$4,032	$5,376
2. Equipment				
Number of Days	41	6	12	16
$/Day	$338	$338	$338	$338
Subtotal Equipment Costs	$13,858	$2,028	$4,056	$5,408
Subtotal Tankage Removal and Loading Costs	$27,634	$4,044	$8,088	$10,784
B. PVC Pipe				
PVC Pipe Footage	5000	1000	4000	4000
Average PVC Pipe Diameter (inches)	3	3	3	3
Shredded PVC Pipe Volume Reduction (ft^3/ft)	0.016	0.016	0.016	0.016
Volume of Shredded PVC Pipe (ft^3)	80	16	64	64
1. Labor				
Number of Persons	2	2	2	2
Ft/Day	200	200	200	200
Number of Days	25	5	20	20
$/Day/Person	$112	$112	$112	$112
Subtotal Labor Costs	$5,600	$1,120	$4,480	$4,480
Subtotal PVC Pipe Removal and Loading Costs	$5,600	$1,120	$4,480	$4,480
C. Pumps				
Number of Pumps	50	10	14	13
Average Volume (ft^3/pump)	4.93	4.93	4.93	4.93
Volume of Pumps (ft^3)	246.5	49.3	69.02	64.09
1. Labor				
Number of Persons	1	1	1	1
Pumps/Day	2	2	2	2
Number of Days	25	5	7	7
$/Day/Person	$112	$112	$112	$112
Subtotal Labor Costs	$2,800	$560	$784	$784
Subtotal Pump Removal and Loading Costs	$2,800	$560	$784	$784
D. Dryer				
Dryer Volume (ft^3)	885	0	0	0
1. Labor				
Number of Persons	5	0	0	0
Ft^3/Day	175	0	0	0
Number of Days	5	0	0	0
$/Day/Person	$112	$112	$112	$112
Total Labor Cost	$2,800	$0	$0	$0
Total Dryer Dismantling and Loading Cost	$2,800	$0	$0	$0
E. RO Units				
Number of RO Units				

Equipment Removal and Loading	Central Plant	Satellite No.1	Satellite No.2	Satellite No.3
Current	0	3	0	0
Planned	0	0	1	1
Average Volume (ft^3/RO Unit)	250	250	250	250
1. Labor				
Number of Persons	2	2	2	2
Number of Days	0	1.5	0.5	0.5
$/Day/Person	$112	$112	$112	$112
Subtotal Labor Costs	$0	$336	$112	$112
Subtotal RO Unit Removal and Loading Costs	$0	$336	$112	$112
Subtotal Equipment Removal and Loading Costs per Facility	$38,834	$6,060	$13,464	$16,160
Total Equipment Removal and Loading Costs	**$74,518**			
II. Transportation and Disposal Costs (NRC-Licensed Facility)				
A. Tankage				
Volume of Tank Construction Material (ft^3)	1028	162	290	397
Volume for Disposal Assuming 10% Void Space (ft^3)	1131	178	319	436
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62
Subtotal Tankage Transportation and Disposal Costs	$6,356	$1,000	$1,793	$2,450
B. PVC Pipe				
Volume of Shredded PVC Pipe (ft^3)	80	16	64	64
Volume for Disposal Assuming 10% Void Space (ft^3)	88	18	70	70
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62
Subtotal PVC Pipe Transportation and Disposal Costs	$495	$101	$393	$393
C. Pumps				
Volume of Pumps (ft^3)	246.5	49.3	69.02	64.09
Volume for Disposal Assuming 10% Void Space (ft^3)	271	54	76	70
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62
Subtotal Pump Transportation and Disposal Costs	$1,523	$303	$427	$393
D. Dryer				
Dryer Volume (ft^3)	885	0	0	0
Volume for Disposal Assuming Dryer Remains Intact (ft^3)	885	0	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62
Total Dryer Transportation and Disposal Costs	$4,974	$0	$0	$0
E. RO Units				
Volume of RO Units (ft^3)	0	750	250	250
Volume for Disposal Assuming 50% Volume Reduction (ft^3)	0	375	125	125
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62
Subtotal RO Unit Transportation and Disposal Costs	$0	$2,108	$703	$703
Subtotal Equipment Transportation and Disposal Costs per Facility	$13,348	$3,512	$3,316	$3,939
Total Equipment Transportation and Disposal Costs	**$24,115**			
III. Health and Safety Costs				
Radiation Safety Equipment	$1,250	$1,250	$1,250	$1,250
Total Health and Safety Costs	**$5,000**			
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY	$53,432	$10,822	$18,030	$21,349
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS	**$103,633**			

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Building Demolition and Disposal	Central Plant	Dryer Building	Satellite No. 1	Satellite No. 2	Satellite No. 3	Sat. No.3 Fab. Shop	Yellow Cake Warehouse	South Warehouse	Suspended Walkway
I. Decontamination Costs									
A. Wall Decontamination									
Area to be Decontaminated (ft^2)	131000	0	0	0	0	0	0	0	0
Application Rate (Gallons/ft^2)	1	1	1	1	1	1	1	1	1
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50
Subtotal Wall Decontamination Costs	$65,500	$0	$0	$0	$0	$0	$0	$0	$0
B. Concrete Floor Decontamination									
Area to be Decontaminated (ft^2)	17820	0	6000	9600	9600	0	0	0	0
Application Rate (Gallons/ft^2)	4	4	4	4	4	4	4	4	4
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50
Subtotal Concrete Floor Decontamination Costs	$35,640	$0	$12,000	$19,200	$19,200	$0	$0	$0	$0
C. Deep Well Injection Costs									
Total Kgals for Injection	202.28	0	24	38.4	38.4	0	0	0	0
Deep Well Injection Unit Cost ($/Kgals)	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60
Subtotal Deep Well Injection Costs	$931	$0	$110	$177	$177	$0	$0	$0	$0
Subtotal Decontamination Costs per Building	$102,071	$0	$12,110	$19,377	$19,377	$0	$0	$0	$0
Total Decontamination Costs	$158,021								
II. Demolition Costs									
A. Building									
Assumptions:									
Dryer bldg. demolition unit cost of $0.73/$ft^3$ for additional radiation safety equipment									
Volume of Building (ft^3)	794000	30720	192000	320000	320000	37560	91000	333000	5600
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171
Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15
Subtotal Building Demolition Costs	$117,962	$4,564	$28,525	$47,541	$47,541	$5,580	$13,520	$49,473	$832
B. Concrete Floor									
Area of Concrete Floor (ft^2)	23760	0	8000	12800	12800	0	6500	18000	0
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17
Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75
Subtotal Concrete Floor Demolition Costs	$65,438	$0	$22,033	$35,253	$35,253	$0	$17,902	$49,574	$0
C. Concrete Footing									
Length of Concrete Footing (ft)	622	0	360	480	480	0	360	580	0
Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45
Unit Cost in $/lin. ft (July 1998 dollars w/o escalator)	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95
Subtotal Concrete Footing Demolition Costs	$6,188	$0	$3,581	$4,775	$4,775	$0	$3,581	$5,770	$0
Subtotal Demolition Costs per Building	$189,588	$4,564	$54,139	$87,569	$87,569	$5,580	$35,003	$104,817	$832
Total Demolition Costs	$696,995								
III. Disposal Costs									
A. Building									
Volume of Building (cy)	29407	1138	7111	11852	11852	1391	3370	12333	207
1. On-Site									
Assumptions:									
On-site disposal cost of $0.54/cy									
Percentage (%)	100	0	100	100	100	100	100	100	100
Volume for Disposal (cubic yards)	29407	0	7111	11852	11852	1391	3370	12333	207
Disposal Unit Cost ($/cy)	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54
Subtotal On-Site Disposal Costs	$15,880	$0	$3,840	$6,400	$6,400	$751	$1,820	$6,660	$112
2. NRC-Licensed Facility									

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Building Demolition and Disposal	Central Plant	Dryer Building	Satellite No. 1	Satellite No. 2	Satellite No. 3	Sat. No.3 Fab. Shop	Yellow Cake Warehouse	South Warehouse	Suspended Walkway
Percentage (%)	0	100	0	0	0	0	0	0	0
Volume for Disposal (ft^3)	0	2624	0	0	0	0	0	0	0
Volume for Disposal Assuming 10% Void Space (ft^3)	0	2886	0	0	0	0	0	0	0
Transportation and Disposal Unit Cost ($/ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$0	$16,219	$0	$0	$0	$0	$0	$0	$0
Subtotal Building Disposal Costs	$15,880	$16,219	$3,840	$6,400	$6,400	$751	$1,820	$6,660	$112
B. Concrete Floor									
Area of Concrete Floor (ft^2)	23760	0	8000	12800	12800	0	6500	18000	0
Average Thickness of Concrete Floor (ft)	0.75	0	0.67	0.67	0.67	0	0.5	0.5	0
Volume of Concrete Floor (ft^3)	17820	0	5360	8576	8576	0	3250	9000	0
Volume of Concrete Floor (cy)	660	0	199	318	318	0	120	333	0
1. On-Site									
Percentage (%)	75	0	75	75	75	0	100	100	0
Volume for Disposal (cy)	495	0	149	238	238	0	120	333	0
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07
Subtotal On-Site Disposal Costs	$2,017	$0	$607	$971	$971	$0	$490	$1,358	$0
2. NRC-Licensed Facility									
Assumptions:									
Additional $2.00/$ft^3$ for segregation of concrete									
Percentage (%)	25	0	25	25	25	0	0	0	0
Volume for Disposal (ft^3)	4455	0	1340	2144	2144	0	0	0	0
Segregation and Loading Unit Cost ($/ft^3$)	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00
Transportation and Disposal Unit Cost ($/ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$33,947	$0	$10,211	$16,337	$16,337	$0	$0	$0	$0
Subtotal Concrete Floor Disposal Costs	$35,964	$0	$10,818	$17,308	$17,308	$0	$490	$1,358	$0
C. Concrete Footing									
Length of Concrete Footing (ft)	622	0	360	480	480	0	360	580	0
Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	0
Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	0
Volume of Concrete Footing (ft^3)	2488	0	1440	1920	1920	0	1440	2320	0
Volume of Concrete Footing (cy)	92	0	53	71	71	0	53	86	0
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07
Subtotal Concrete Footing Disposal Costs	$375	$0	$217	$290	$290	$0	$217	$350	$0
Subtotal Disposal Costs per Building	$52,219	$16,219	$14,875	$23,998	$23,998	$751	$2,527	$8,368	$112
Total Disposal Costs	$151,976								
III. Health and Safety Costs									
Radiation Safety Equipment	$1,000	$1,000	$1,000	$1,000	$1,000	$0	$0	$0	$0
Total Health and Safety Costs	$5,000								
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$344,878	$21,783	$82,124	$131,944	$131,944	$6,331	$37,530	$113,185	$944
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$1,011,992								

Building Demolition and Disposal	Changehouse and Lab Bldg.	Maintenance Building	Main Office	Office Trailers	Process/Fire Water Bldg.	Potable Water Bldg.	Potable Water Tank Slab	Central Plant Tank Slabs
I. Decontamination Costs								
A. Wall Decontamination								
Area to be Decontaminated (ft^2)	0	0	0	0	0	0	0	0
Application Rate (Gallons/ft^2)	1	1	1	1	1	1	1	1
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50
Subtotal Wall Decontamination Costs	$0	$0	$0	$0	$0	$0	$0	$0
B. Concrete Floor Decontamination								
Area to be Decontaminated (ft^2)	0	0	0	0	0	0	0	0
Application Rate (Gallons/ft^2)	4	4	4	4	4	4	4	4
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50
Subtotal Concrete Floor Decontamination Costs	$0	$0	$0	$0	$0	$0	$0	$0
C. Deep Well Injection Costs								
Total Kgals for Injection	0	0	0	0	0	0	0	0
Deep Well Injection Unit Cost ($/Kgals)	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60	$4.60
Subtotal Deep Well Injection Costs	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Decontamination Costs per Building	$0	$0	$0	$0	$0	$0	$0	$0
Total Decontamination Costs								
II. Demolition Costs								
A. Building								
Assumptions:								
Dryer bldg. demolition unit cost of $0.73/$ft^3$ for additional radiation safety equipment								
Volume of Building (ft^3)	73000	27000	72000	20000	16500	6300	0	0
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171
Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15
Subtotal Building Demolition Costs	$10,845	$4,011	$10,697	$2,971	$2,451	$936	$0	$0
B. Concrete Floor								
Area of Concrete Floor (ft^2)	5400	2100	6000	0	800	180	1256	7854
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17
Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75
Subtotal Concrete Floor Demolition Costs	$14,872	$5,784	$16,525	$0	$2,203	$496	$3,459	$21,631
C. Concrete Footing								
Length of Concrete Footing (ft)	300	200	340	0	120	54	0	0
Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45
Unit Cost in $/lin. ft (July 1998 dollars w/o escalator)	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95
Subtotal Concrete Footing Demolition Costs	$2,984	$1,990	$3,382	$0	$1,194	$537	$0	$0
Subtotal Demolition Costs per Building	$28,701	$11,785	$30,604	$2,971	$5,848	$1,969	$3,459	$21,631
Total Demolition Costs								
III. Disposal Costs								
A. Building								
Volume of Building (cy)	2704	1000	2667	741	611	233	0	0
1. On-Site								
Assumptions:								
On-site disposal cost of $0.54/cy								
Percentage (%)	100	100	100	100	100	100	0	0
Volume for Disposal (cubic yards)	2704	1000	2667	741	611	233	0	0
Disposal Unit Cost ($/cy)	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54
Subtotal On-Site Disposal Costs	$1,460	$540	$1,440	$400	$330	$126	$0	$0
2. NRC-Licensed Facility								

Building Demolition and Disposal	Changehouse and Lab Bldg.	Maintenance Building	Main Office	Office Trailers	Process/Fire Water Bldg.	Potable Water Bldg.	Potable Water Tank Slab	Central Plant Tank Slabs
Percentage (%)	0	0	0	0	0	0	0	0
Volume for Disposal (ft^3)	0	0	0	0	0	0	0	0
Volume for Disposal Assuming 10% Void Space (ft^3)	0	0	0	0	0	0	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Building Disposal Costs	$1,460	$540	$1,440	$400	$330	$126	$0	$0
B. Concrete Floor								
Area of Concrete Floor (ft^2)	5400	2100	6000	0	800	180	1256	7854
Average Thickness of Concrete Floor (ft)	0.5	0.5	0.5	0	0.5	0.5	1	1
Volume of Concrete Floor (ft^3)	2700	1050	3000	0	400	90	1256	7854
Volume of Concrete Floor (cy)	100	39	111	0	15	3	47	291
1. On-Site								
Percentage (%)	100	100	100	0	100	100	100	100
Volume for Disposal (cy)	100	39	111	0	15	3	47	291
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07
Subtotal On-Site Disposal Costs	$407	$158	$453	$0	$60	$14	$190	$1,185
2. NRC-Licensed Facility								
Assumptions:								
Additional $2.00/$ft^3$ for segregation of concrete								
Percentage (%)	0	0	0	0	0	0	0	0
Volume for Disposal (ft^3)	0	0	0	0	0	0	0	0
Segregation and Loading Unit Cost ($/$ft^3$)	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Concrete Floor Disposal Costs	$407	$158	$453	$0	$60	$14	$190	$1,185
C. Concrete Footing								
Length of Concrete Footing (ft)	300	200	340	0	120	54	0	0
Average Depth of Concrete Footing (ft)	4	4	4	0	4	4	4	4
Average Width of Concrete Footing (ft)	1	1	1	0	1	1	1	1
Volume of Concrete Footing (ft^3)	1200	800	1360	0	480	216	0	0
Volume of Concrete Footing (cy)	44	30	50	0	18	8	0	0
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07
Subtotal Concrete Footing Disposal Costs	$181	$121	$205	$0	$72	$33	$0	$0
Subtotal Disposal Costs per Building	$2,048	$819	$2,098	$400	$462	$173	$190	$1,185
Total Disposal Costs								
III. Health and Safety Costs								
Radiation Safety Equipment	$0	$0	$0	$0	$0	$0	$0	$0
Total Health and Safety Costs								
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$30,749	$12,604	$32,702	$3,371	$6,310	$2,142	$3,649	$22,816
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS								

Building Demolition and Disposal	Exxon R&D RO Bldg.	Exxon R&D Process Bldg.	D, E-Wellfield Booster Stat.	Morton No. 1-20 Bdlg.
I. Decontamination Costs				
A. Wall Decontamination				
Area to be Decontaminated (ft^2)	0	0	0	0
Application Rate (Gallons/ft^2)	1	1	1	1
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50
Subtotal Wall Decontamination Costs	$0	$0	$0	$0
B. Concrete Floor Decontamination				
Area to be Decontaminated (ft^2)	1260	1260	0	0
Application Rate (Gallons/ft^2)	4	4	4	4
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50
Subtotal Concrete Floor Decontamination Costs	$2,520	$2,520	$0	$0
C. Deep Well Injection Costs				
Total Kgals for Injection	5.04	5.04	0	0
Deep Well Injection Unit Cost ($/Kgals)	$4.60	$4.60	$4.60	$4.60
Subtotal Deep Well Injection Costs	$23	$23	$0	$0
Subtotal Decontamination Costs per Building	$2,543	$2,543	$0	$0
Total Decontamination Costs				
II. Demolition Costs				
A. Building				
Assumptions:				
Dryer bldg. demolition unit cost of $0.73/$ft^3$ for additional radiation safety equipment				
Volume of Building (ft^3)	15120	15120	8640	14400
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.171	$0.171	$0.171	$0.171
Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)	$0.15	$0.15	$0.15	$0.15
Subtotal Building Demolition Costs	$2,246	$2,246	$1,284	$2,139
B. Concrete Floor				
Area of Concrete Floor (ft^2)	1260	1260	0	600
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)	$3.17	$3.17	$3.17	$3.17
Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)	$2.75	$2.75	$2.75	$2.75
Subtotal Concrete Floor Demolition Costs	$3,470	$3,470	$0	$1,652
C. Concrete Footing				
Length of Concrete Footing (ft)	144	144	0	100
Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)	$11.45	$11.45	$11.45	$11.45
Unit Cost in $/lin. ft (July 1998 dollars w/o escalator)	$9.95	$9.95	$9.95	$9.95
Subtotal Concrete Footing Demolition Costs	$1,432	$1,432	$0	$995
Subtotal Demolition Costs per Building	$7,148	$7,148	$1,284	$4,786
Total Demolition Costs				
III. Disposal Costs				
A. Building				
Volume of Building (cy)	560	560	320	533
1. On-Site				
Assumptions:				
On-site disposal cost of $0.54/cy				
Percentage (%)	100	100	100	100
Volume for Disposal (cubic yards)	560	560	320	533
Disposal Unit Cost ($/cy)	$0.54	$0.54	$0.54	$0.54
Subtotal On-Site Disposal Costs	$302	$302	$173	$288
2. NRC-Licensed Facility				

Building Demolition and Disposal	Exxon R&D RO Bldg.	Exxon R&D Process Bldg.	D, E-Wellfield Booster Stat.	Morton No. 1-20 Bdlg.
Percentage (%)	0	0	0	0
Volume for Disposal (ft^3)	0	0	0	0
Volume for Disposal Assuming 10% Void Space (ft^3)	0	0	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0
Subtotal Building Disposal Costs	$302	$302	$173	$288
B. Concrete Floor				
Area of Concrete Floor (ft^2)	1260	1260	0	600
Average Thickness of Concrete Floor (ft)	0.5	0.5	0	0.5
Volume of Concrete Floor (ft^3)	630	630	0	300
Volume of Concrete Floor (cy)	23	23	0	11
1. On-Site				
Percentage (%)	100	100	0	100
Volume for Disposal (cy)	23	23	0	11
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07
Subtotal On-Site Disposal Costs	$95	$95	$0	$45
2. NRC-Licensed Facility				
Assumptions:				
Additional $2.00/$ft^3$ for segregation of concrete				
Percentage (%)	0	0	0	0
Volume for Disposal (ft^3)	0	0	0	0
Segregation and Loading Unit Cost ($/$ft^3$)	$2.00	$2.00	$2.00	$2.00
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0
Subtotal Concrete Floor Disposal Costs	$95	$95	$0	$45
C. Concrete Footing				
Length of Concrete Footing (ft)	144	144	0	100
Average Depth of Concrete Footing (ft)	4	4	4	4
Average Width of Concrete Footing (ft)	1	1	1	1
Volume of Concrete Footing (ft^3)	576	576	0	400
Volume of Concrete Footing (cy)	21	21	0	15
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07
Subtotal Concrete Footing Disposal Costs	$87	$87	$0	$60
Subtotal Disposal Costs per Building	$484	$484	$173	$393
Total Disposal Costs				
III. Health and Safety Costs				
Radiation Safety Equipment	$0	$0	$0	$0
Total Health and Safety Costs				
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$10,175	$10,175	$1,457	$5,179
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS				

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Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I
I. Wellfield Piping									
Assumptions:									
Number of Header Houses per Wellfield	5	18	20	4	15	43	10	3	6
Length of Piping per Header House (ft)	15000	15000	15000	15000	15000	15000	15000	15000	15000
Total Length of Piping (ft)	75000	270000	300000	60000	225000	645000	150000	45000	90000
A. Removal and Loading									
Wellfield Piping Removal Unit Cost ($/ft of pipe)	$0.31	$0.31	$0.31	$0.31	$0.31	$0.31	$0.31	$0.31	$0.31
Subtotal Wellfield Piping Removal and Loading Costs	$23,250	$83,700	$93,000	$18,600	$69,750	$199,950	$46,500	$13,950	$27,900
B. Transport and Disposal Costs (NRC-Licensed Facility)									
Average Diameter of Piping (inches)	2	2	2	2	2	2	2	2	2
Chipped Volume Reduction (ft^3/ft)	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Chipped Volume per Wellfield (ft^3)	375	1350	1500	300	1125	3225	750	225	450
Volume for Disposal Assuming 10% Void Space (ft^3)	413	1485	1650	330	1238	3548	825	248	495
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal Wellfield Piping Transport and Disposal Costs	$2,321	$8,346	$9,273	$1,855	$6,958	$19,940	$4,637	$1,394	$2,782
Wellfield Piping Costs per Wellfield	$25,571	$92,046	$102,273	$20,455	$76,708	$219,890	$51,137	$15,344	$30,682
C. Capitol Costs									
PVC Pipe Shredder	$40,000								
Total Wellfield Piping Costs	$674,106								
II. Well Pumps and Tubing									
Assumptions:									
Pump and tubing removal costs included under ground water restoration labor costs									
60% of production/injection wells contain pumps and/or tubing									
A. Pump and Tubing Transportation and Disposal									
Number of Production Wells	27	141	192	45	143	465	155	30	125
Number of Injection Wells	50	319	343	91	307	903	327	67	236
1. Pump Volume									
Number of Production Wells with Pumps	16	85	115	27	86	279	93	18	75
Average Pump Volume (ft^3)	1	1	1	1	1	1	1	1	1
Pump Volume per Wellfield (ft^3)	16	85	115	27	86	279	93	18	75
2. Tubing Volume									
Assumptions:									
Average tubing length/wellfield based on average well depth minus 25 ft									
Number of Production Wells with Tubing	16	85	115	27	86	279	93	18	75
Number of Injection Wells with Tubing	30	191	206	55	184	542	196	40	142
Average Tubing Length per Well (ft)	475	425	525	575	525	625	475	575	625
Tubing Length per Wellfield (ft)	21850	117300	168525	47150	141750	513125	137275	33350	135625
Diameter of Production Well Fiberglass Tubing (inches)	2	2	2	2	2	2	2	2	2
Diameter of Injection Well HDPE Tubing (inches)	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Chipped Volume Reduction (ft^3/ft)	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Chipped Volume per Wellfield (ft^3)	109	587	843	236	709	2566	686	167	678
Volume of Pump and Tubing (ft^3)	125	672	958	263	795	2845	779	185	753
Volume for Disposal Assuming 10% Void Space (ft^3)	138	739	1054	289	875	3130	857	204	828
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62

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Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I
Subtotal Pump and Tubing Transport and Disposal Costs	$776	$4,153	$5,923	$1,624	$4,918	$17,591	$4,816	$1,146	$4,653
Pump and Tubing Costs per Wellfield	$776	$4,153	$5,923	$1,624	$4,918	$17,591	$4,816	$1,146	$4,653
Total Pump and Tubing Costs	$45,600								
III. Buried Trunkline	A/B-Wellfields			D/E-Wellfields					
Assumptions:									
A/B-Wellfields use the same trunkline									
D/E-Wellfields use the same trunkline									
Length of Trunkline Trench (ft)	6500		5900	12000		11700	13200	5500	10750
A. Removal and Loading									
Main Pipeline Removal Unit Cost ($/ft of trench)	$0.85		$0.85	$0.85		$0.85	$0.85	$0.85	$0.85
Subtotal Trunkline Removal and Loading Costs	$5,525		$5,015	$10,200		$9,945	$11,220	$4,675	$9,138
B. Transport and Disposal Costs (NRC-Licensed Facility)									
1. 3" HDPE Trunkline									
Piping Length (ft)	6500		5900	12000		11700	13200	5500	10750
Chipped Volume Reduction (ft^3/ft)	0.022		0.022	0.022		0.022	0.022	0.022	0.022
Chipped Volume (ft^3)	143		129.8	264		257.4	290.4	121	236.5
2. 6" HDPE Trunkline									
Piping Length (ft)	0		0	0		0	0	11000	3000
Chipped Volume Reduction (ft^3/ft)	0.078		0.078	0.078		0.078	0.078	0.078	0.078
Chipped Volume (ft^3)	0		0	0		0	0	858	234
3. 10" HDPE Trunkline									
Piping Length (ft)	13000		0	0		0	0	0	750
Chipped Volume Reduction (ft^3/ft)	0.277		0.277	0.277		0.277	0.277	0.277	0.277
Chipped Volume (ft^3)	3601		0	0		0	0	0	207.75
4. 12" HDPE Trunkline									
Piping Length (ft)	0		11800	24000		0	0	0	0
Chipped Volume Reduction (ft^3/ft)	0.293		0.293	0.293		0.293	0.293	0.293	0.293
Chipped Volume (ft^3)	0		3457.4	7032		0	0	0	0
5. 14" HDPE Trunkline									
Piping Length (ft)	0		0	0		23400	26400	0	8500
Chipped Volume Reduction (ft^3/ft)	0.359		0.359	0.359		0.359	0.359	0.359	0.359
Chipped Volume (ft^3)	0		0	0		8400.6	9477.6	0	3051.5
Total Trunkline Chipped Volume (ft^3)	3744		3587.2	7296		8658	9768	979	3729.75
Volume for Disposal Assuming 10% Void Space (ft^3)	4118		3946	8026		9524	10745	1077	4103
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62		$5.62	$5.62		$5.62	$5.62	$5.62	$5.62
Subtotal Trunkline Transport and Disposal Costs	$23,143		$22,177	$45,106		$53,525	$60,387	$6,053	$23,059
Trunkline Decommissioning Costs per Wellfield	$28,668		$27,192	$55,306		$63,470	$71,607	$10,728	$32,197
Total Trunkline Decommissioning Costs	$289,168								
IV. Well Houses									
Total Quantity	90	490	554	151	480	1415	482	97	361
Average Well House Volume (ft^3)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
A. Removal									
Total Volume (ft^3)	1125	6125	6925	1887.5	6000	17687.5	6025	1212.5	4512.5
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171

Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I
Unit Cost in $/ft³ (July 1998 dollars w/o escalator)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15
Subtotal Well House Demolition Costs	$167	$910	$1,029	$280	$891	$2,628	$895	$180	$670
B. Survey and Decontamination									
Assumptions:									
Cost per Well House	$5	$5	$5	$5	$5	$5	$5	$5	$5
Subtotal Survey and Decontamination Costs	$450	$2,450	$2,770	$755	$2,400	$7,075	$2,410	$485	$1,805
C. Disposal									
Total Volume (cy)	42	227	256	70	222	655	223	45	167
Volume for Disposal Assuming 10% Void Space (cy)	46	250	282	77	244	721	245	49	184
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$5.98	$5.98	$5.98	$5.98	$5.98	$5.98	$5.98	$5.98	$5.98
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$5.20	$5.20	$5.20	$5.20	$5.20	$5.20	$5.20	$5.20	$5.20
Subtotal On-Site Disposal Costs	$239	$1,299	$1,465	$400	$1,268	$3,746	$1,273	$255	$956
Well House Removal and Disposal Costs per Wellfield	$856	$4,659	$5,264	$1,435	$4,559	$13,449	$4,578	$920	$3,431
Total Well House Removal and Disposal Costs	**$39,151**								
VI. Header Houses									
Total Quantity	5	18	20	4	15	43	10	3	6
Average Header House Volume (ft³)	1600	1600	1600	1600	1600	1600	1600	1600	1600
A. Removal									
Total Volume (ft³)	8000	28800	32000	6400	24000	68800	16000	4800	9600
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/ft³)	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171
Unit Cost in $/ft³ (July 1998 dollars w/o escalator)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15
Subtotal Building Demolition Costs	$1,189	$4,279	$4,754	$951	$3,566	$10,221	$2,377	$713	$1,426
B. Survey and Decontamination									
Assumptions:									
Cost per Header House	$200	$200	$200	$200	$200	$200	$200	$200	$200
Subtotal Survey and Decontamination Costs	$1,000	$3,600	$4,000	$800	$3,000	$8,600	$2,000	$600	$1,200
C. Disposal									
Total Volume (cy)	296	1067	1185	237	889	2548	593	178	356
Volume for Disposal Assuming 10% Void Space (cy)	326	1173	1304	261	978	2803	652	196	391
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$5.98	$5.98	$5.98	$5.98	$5.98	$5.98	$5.98	$5.98	$5.98
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$5.20	$5.20	$5.20	$5.20	$5.20	$5.20	$5.20	$5.20	$5.20
Subtotal On-Site Disposal Costs	$1,694	$6,094	$6,775	$1,356	$5,081	$14,563	$3,387	$1,018	$2,031
Header House Removal and Disposal Costs per Wellfield	$3,883	$13,973	$15,529	$3,107	$11,647	$33,384	$7,764	$2,331	$4,657
Total Header House Removal and Disposal Costs	**$96,275**								
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD	$59,754	$114,831	$156,181	$81,927	$97,832	$347,784	$139,902	$30,469	$75,620
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS	**$1,144,300**								

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Well Abandonment		Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I
I.	Well Abandonment (Wellfields)									
	# of Production Wells	27	141	192	45	143	465	155	30	125
	# of Injection Wells	50	319	343	91	307	903	327	67	236
	# of Monitoring Wells	18	67	78	38	86	134	81	20	39
	#of Restoration Wells	13	30	19	0	0	15	0	0	0
	Total Number of Wells	108	557	632	174	536	1517	563	117	400
	Average Diameter of Casing (inches)	5	5	5	5	5	5	5	5	5
	Average Depth (ft)	500	450	550	600	550	650	500	600	650
	Well Abandonment Unit Cost ($/well)	$280	$277	$284	$287	$284	$290	$280	$287	$290
	Subtotal Abandonment Cost per Wellfield	$30,267	$154,233	$179,235	$49,929	$152,010	$440,385	$157,781	$33,573	$116,120
	Total Wellfield Abandonment Costs	$1,313,533								
II.	Waste Disposal Well Abandonment	Morton No.1-20	Vollman No.33-27	(Construction not anticipated)						
	A. Well Plugging									
	Drill Rig Operation ($/hr)	150	0							
	Number of Hours	31	0							
	Drill Rig Operating Costs	$4,650	$0							
	Cementing Costs	$7,500	$0							
	Equipment Transport Costs	$1,000	$0							
	Well Cap Welding Costs	$1,000	$0							
	Brine Makeup and Injection Costs	$1,500	$0							
	Subtotal Well Plugging Costs per Well	$15,650	$0							
	B. Pump Dismantling and Decontamination									
	Number of Persons	2	0							
	Number of Pumps	2	0							
	Pumps/Day	0.5	0							
	Number of Days	4	0							
	$/Day/Person	$112	$0							
	Subtotal Dismantling and Decon Costs per Well	$896	$0							
	C. Tubing String Disposal (NRC-Licensed Facility)									
	Length of Tubing String (ft)	9000	0							
	Diameter of Tubing String (inches)	2.875	0							
	Volume of Tubing String (ft^3)	406	0							
	Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$0.00							
	Subtotal Tubing String Disposal Costs per Well	$2,279	$0							
	Subtotal Waste Disposal Well Abandonment Costs per Well	$18,825	$0							
	Total Waste Disposal Well Abandonment Costs	$18,825								
TOTAL WELL ABANDONMENT COSTS		$1,332,358								

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Wellfield and Satellite Surface Reclamation	Mine Unit-A/B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I
I. Wellfield Pattern Area Reclamation								
Pattern Area (acres)	20	31	6.5	23	77	26	5	21
Disking/Seeding Unit Cost ($/acre)	$200	$200	$200	$200	$200	$200	$200	$200
Subtotal Pattern Area Reclamation Costs per Wellfield	$4,000	$6,200	$1,300	$4,600	$15,400	$5,200	$1,000	$4,200
Total Wellfield Pattern Area Reclamation Costs	$41,900							
II. Wellfield Road Reclamation								
A. Road Construction Before January 1, 1997								
Length of Wellfield Roads (1000 ft)	12.2	11.3	2.4	13.3	15	0	0	0
Wellfield Road Reclamation Unit Cost ($/1000 ft)	$586	$586	$586	$586	$586	$586	$586	$586
Subtotal Pre-1997 Wellfield Road Reclamation Costs	$7,149	$6,622	$1,406	$7,794	$8,790	$0	$0	$0
B. Road Construction After January 1, 1997								
Length of Wellfield Roads (1000 ft)	0.6	0	0	0	3	15.7	5	5
Wellfield Road Reclamation Unit Cost ($/1000 ft)	$305	$305	$305	$305	$305	$305	$305	$305
Subtotal Post-1997 Wellfield Road Reclamation Costs	$183	$0	$0	$0	$915	$4,789	$1,525	$1,525
Subtotal Road Reclamation Costs per Wellfield	$7,332	$6,622	$1,406	$7,794	$9,705	$4,789	$1,525	$1,525
Total Wellfield Road Reclamation Costs	$40,698							
SUBTOTAL SURFACE RECLAMATION COSTS PER WELLFIELD	$11,332	$12,822	$2,706	$12,394	$25,105	$9,989	$2,525	$5,725
TOTAL WELLFIELD SURFACE RECLAMATION COSTS	$82,598							
III. Satellite Area Reclamation	Satellite No.1	Satellite No.2	Satellite No.3					
Assumptions:								
Area of Disturbance (acres)	1	1	1					
Average Depth of Stripped Topsoil (ft)	1	0.67	0.67					
Surface Grade: Level Ground								
Average Length of Topsoil Haul (ft)	1000	500	500					
A. Ripping Overburden with Dozer								
Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)	$679.37	$679.37	$679.37					
Unit Cost in $/acre (July 1998 dollars w/o escalator)	$590.24	$590.24	$590.24					
Subtotal Ripping Costs	$590	$590	$590					
B. Topsoil Application with Scraper								
Volume of Topsoil Removed (cy)	1613	1081	1081					
Application Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.71	$0.60	$0.60					
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$0.62	$0.52	$0.52					
Subtotal Topsoil Application Costs	$995	$563	$563					
C. Discing and Seeding								
Discing/Seeding Unit Cost ($/acre)	$200	$200	$200					
Subtotal Discing/Seeding Costs	$200	$200	$200					
Subtotal Surface Reclamation Costs per Satellite	$1,785	$1,353	$1,353					
Total Satellite Building Area Reclamation Costs	$4,491							
TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS	$87,089							

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Miscellaneous Reclamation									
I.	CPF/Office Area Reclamation								
	Assumptions								
	Concrete, asphalt, and building material used to backfill low areas								
	No topsoil salvaged or applied (area is pre-law)								
	CPF/Office area = 10 acres								
A.	Ripping and Hauling Asphalt								
	Assumptions								
	Average haul distance (ft)					500			
	Surface grade (%)					0%			
	Average Thickness of Asphalt (ft)					0.5			
	Surface Area (acres)					3.4			
	Ripping Unit Cost per WDEQ Guideline No.12, App.I ($/acre)					$474.92			
	Volume of Asphalt (cy)					2743			
	Hauling Unit Cost per WDEQ Guideline No.12, App.C ($/cy)					$0.60			
	Total Asphalt Ripping and Hauling Cost					$3,260			
B.	Borrow Cover								
1.	Topsoil Removal/Replacement								
	Assumptions								
	Surface area of borrow area (acres)					3			
	Six inches of topsoil removed and replaced at borrow area								
	Volume of topsoil (cy)					2420			
	Topsoil Removal/Replacement Unit Cost ($/cy)					$1.00			
	Total Topsoil Removal/Replacement Cost					$2,420			
2.	Borrow Application								
	Assumptions								
	Final borrow cover depth will range from 0 to 4 ft, average = 1 ft								
	Average haul distance = 1000 ft								
	Surface grade (%)					0%			
	Borrow Volume (cy)					16133			
	Borrow Cover Unit Cost per WDEQ Guideline No.12, App.C ($/cy)					$0.70			
	Total Borrow Application Cost					$11,293			
	Total Borrow Cover Cost					$13,713			
C.	Discing/Seeding								
	Assumptions								
	Includes discing/seeding of borrow area (3 acres)								
	Surface Area (acres)					13			
	Discing/Seeding Unit Cost ($/acre)					$200			
	Total Discing/Seeding Costs					$2,600			
	Total CPF/Office Area Reclamation					$19,573			
II.	Access Road Reclamation					CPF/Office Are	Sat No. 1	Sat No. 3	Connecting Road
A.	Assumptions								
	CPF/Office Area Road is pre-law (no topsoil applied)								
	Surface grade					5%	0%	0%	0%
	Length of road (miles)					2.5	3	1	2
	Average road width (ft)					25	30	30	30
B.	Ripping and Hauling Asphalt								
	Assumptions								
	Average haul distance (miles)					1.25	0	0	0
	Average Thickness of Asphalt (ft)					0.5	0	0	0
	Asphalt Surface Area (acres)					7.6	0.0	0.0	0.0
	Ripping Unit Cost per WDEQ Guideline No.12, App.I ($/acre)					$474.92	$474.92	$474.92	$474.92
	Unit Cost in $/acre (July 1998 dollars w/o escalator)					$412.62	$412.62	$412.62	$412.62
	Volume of Asphalt (cy)					6111	0	0	0
	Hauling Unit Cost per WDEQ Guideline No.12, App.C ($/cy)					$1.91	$1.91	$1.91	$1.91
	Unit Cost in $/cy (July 1998 dollars w/o escalator)					$1.66	$1.66	$1.66	$1.66
	Subtotal Asphalt Ripping and Hauling Costs					$13,267	$0	$0	$0
B.	Gravel Road Base Removal								
	Assumptions								
	Average haul distance (ft)					0	1000	1000	1000
	Gravel Road Base Width (ft)					0	14	14	14
	Gravel Road Base Area (acres)					0.0	5.1	1.7	3.4
	Average Road Base Depth (ft)					0	0.5	0.5	0.5
	Volume of Road Base (cy)					0	4107	1369	2738
	Removal Unit Cost per WDEQ Guideline No.12, App.C ($/cy)					$0.00	$0.71	$0.71	$0.71
	Unit Cost in $/cy (July 1998 dollars w/o escalator)					$0.00	$0.62	$0.62	$0.62
	Subtotal Gravel Road Base Removal Costs					$0	$2,533	$844	$1,689
C.	Ripping Overburden with Dozer								
	Overburden Surface Area (acres)					0.0	10.9	3.6	7.3
	Ripping Unit Cost per WDEQ Guideline No.12, App.II ($/acre)					$663.93	$663.93	$663.93	$663.93
	Unit Cost in $/acre (July 1998 dollars w/o escalator)					$576.83	$576.83	$576.83	$576.83
	Subtotal Ripping Overburden Costs					$0	$6,293	$2,098	$4,195
D.	Topsoil Application								

Miscellaneous Reclamation							
	Assumptions						
	Average haul distance (ft)	0	5000	1500	1500		
	Topsoil Surface Area (ft^2)	0	475200	158400	316800		
	Depth of Topsoil (ft)	0	0.5	0.5	0.5		
	Volume of Topsoil (cy)	0	8800	2933	5867		
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.00	$1.50	$0.82	$0.82		
	Unit Cost in $/cy (July 1998 dollars w/o escalator)	$0.00	$1.30	$0.71	$0.71		
	Subtotal Topsoil Application Costs	$0	$11,468	$2,090	$4,180		
E.	Discing/Seeding						
	Assumptions						
	Surface Area (acres)	7.6	10.9	3.6	7.3		
	Discing/Seeding Unit Cost ($/acre)	$200	$200	$200	$200		
	Subtotal Discing/Seeding Costs	$1,515	$2,182	$727	$1,455		
	Subtotal Reclamation Costs per Access Road	$14,782	$22,476	$5,759	$11,519		
	Total Access Road Reclamation Costs	$54,536					
III.	**Wastewater Pipeline Reclamation**	**SAT2 to SAT1 WW Pipeline**	**SAT3 to SAT2 PSR**	**H-WF Rest. Bypass**			
A.	Pipeline Removal and Loading						
	Length of HDPE Pipe Trench (ft)	24000	22000	2200			
	Main Pipeline Removal Unit Cost ($/ft of trench)	$0.85	$0.85	$0.85			
	Subtotal Pipeline Removal Costs	$20,400	$18,700	$1,870			
B.	Pipeline Transportation and Disposal (NRC-Licensed Facility)						
	Pipe Diameter (inches)	3	4	3			
	Chipped Volume Reduction (ft^3/ft)	0.022	0.032	0.022			
	Subtotal Volume of Shredded PVC Pipe (ft^3)	528	704	48.4			
	Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62			
	Subtotal Pipeline Disposal Costs	$2,967	$3,956	$272			
C.	Discing/Seeding						
	Assumptions:						
	Width of Pipeline Trench (ft)	10	10	8			
	Area of Pipeline Trench (acres)	5.5	5.1	0.4			
	Discing/Seeding Unit Cost ($/acre)	$200	$200	$200			
	Subtotal Discing/Seeding Costs	$1,102	$1,010	$81			
	Subtotal Reclamation Costs per Pipeline	$24,469	$23,666	$2,223			
	Total Wastewater Pipeline Reclamation Costs	$50,358					
IV.	**Radium Settling Basin Reclamation**	**E. Radium Pon**	**W. Radium Pond**				
A.	Soil Sampling and Monitoring						
	Number of Soil Samples	10	10				
	$/Sample	$60	$60				
	Subtotal Soil Sampling and Monitoring Costs	$600	$600				
C.	Grade and Contour						
	Volume of Embankment Material (CY)	6,400	6,400				
	Average Grade (%)	0	0				
	Distance (ft)	50	50				
	Material Moving Unit Cost per WDEQ Guideline No.12, App.E ($/cy	$0.092	$0.092				
	Unit Cost in $/cy (July 1998 dollars w/o escalator)	$0.08	$0.08				
	Subtotal Grade and Contour Costs	$512	$512				
C.	Topsoil Application						
	Assumptions:						
	Area of surface disturbance (ft^2)	37500	37500				
	Average thickness of topsoil (ft)	1	1				
	Average haul distance (ft)	2000	2000				
	Surface grade (%)	0%	0%				
	Volume of Topsoil (cy)	1,389	1,389				
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)	$0.92	$0.92				
	Unit Cost in $/cy (July 1998 dollars w/o escalator)	$0.80	$0.80				
	Subtotal Topsoil Application Costs	$1,110	$1,110				
D.	Discing/Seeding						
	Assumptions:						
	Area of surface disturbance (acres)	1	1				
	Discing/Seeding Unit Cost ($/acre)	$200	$200				
	Subtotal Discing/Seeding Costs	$200	$200				
	Subtotal Reclamation Costs per Radium Pond	$2,422	$2,422				
	Total Radium Settling Basin Reclamation Costs	$4,843					
V.	**Purge Storage Reservoir Reclamation**	**PSR-1**	**PSR-2**				
A.	Soil Sampling and Analysis Costs	$3,000	$3,000				
B.	Leachate Collection System Removal Costs	$5,000	$0				
C.	Topsoil/Subsoil Application						
	Assumptions:						
	Average haul distance (ft)	1000	150				
	Surface grade (%)	0%	0%				

Miscellaneous Reclamation									
		Volume of Topsoil/Subsoil (cy)			83000	74000			
		Topsoil/Subsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)			$0.71	$0.71			
		Unit Cost in $/cy (July 1998 dollars w/o escalator)			$0.62	$0.62			
		Topsoil/Subsoil Unit Cost per WDEQ Guideline No.12, App.E ($/cy)			$0.194	$0.194			
		Unit Cost in $/cy (July 1998 dollars w/o escalator)			$0.17	$0.17			
		Subtotal Topsoil/Subsoil Application Costs per Reservoir			$65,189	$58,120			
	D.	Discing/Seeding							
		Surface Area (acres)			6	32			
		Discing/Seeding Unit Cost ($/acre)			$200	$200			
		Subtotal Discing/Seeding Costs			$1,200	$6,400			
	Subtotal Reclamation Costs per Reservoir				$74,389	$67,520			
	Total Purge Storage Reservoir Reclamation Costs				$141,909				
VI.	**Irrigation Area Reclamation**				**Irrigator No. 1**	**Irrigator No. 2**			
	A.	Irrigation Equipment Removal Costs			$2,000	$2,000			
	B.	Plowing							
		Assumptions:							
		Plowing Unit Cost ($/acre)			$30	$30			
		Irrigation Area (acres)			55	116			
		Number of Cultivations			2	2			
		Subtotal Plowing Costs			$3,300	$6,960			
	C.	Discing/Seeding							
		Discing/Seeding Unit Cost ($/acre)			$200	$200			
		Subtotal Discing/Seeding Costs			$11,000	$23,200			
	Subtotal Reclamation Costs per Irrigation Area				$16,300	$32,160			
	Total Irrigation Area Reclamation Costs				$48,460				
VII.	**Drilling Fluid Storage Cell Reclamation**								
		Assumptions:							
		Each cell is 100 ft (width) by 100 ft (length) by 10 ft (depth)							
		Volume of each cell, discounting side slopes (cy)			3704				
		Surface area disturbance associated with each cell (acres)			1				
		Average haul distance (ft)			500				
		Surface grade (%)			0				
	A.	Topsoil/Subsoil Application							
		Topsoil/Subsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)			$0.60				
		Unit Cost in $/cy (July 1998 dollars w/o escalator)			$0.52				
		Topsoil/Subsoil Application Costs per Storage Cell			$1,931				
	B.	Discing/Seeding							
		Discing/Seeding Unit Cost ($/acre)			$200				
		Subtotal Discing/Seeding Costs			$200				
	Subtotal Reclamation Costs per Storage Cell				$2,131				
	Total Number of Storage Cells				5				
	Total Drilling Fluid Storage Cell Reclamation Costs				$10,655				
VIII	**Revegetation of Exxon Reclaimed Lands**								
		Assumptions:							
		Reseeding potential areas of erosion ($/acre)			$200				
		Surface Area (acres)			217				
	Total Exxon Reclaimed Lands Revegetation Costs				$43,400				
IX.	**Potential Mitigation Plan For Irrigator No.1A (Requested by WDEQ-LQD)**								
		Assumptions:							
		Harvesting grass for 2 years will further reduce Se levels in vegetation.							
		Harvest grass for 2 years @ $2000/year.			$4,000				
		Analyze Se in grass for 2 years @$165/sample X 4 samples X 2 yrs.			$1,320				
		Analyze Se in soil for 2 years @$174/sample X 28 samples X 2 yrs.			$9,744				
		Add 1 ft. of Se free water to 58 acre irrigation area @ cost of $6000.			$6,000				
		If desired, plow, disk and reseed area with alfalfa @ cost of $4400.			$4,400				
	Total Potential Mitigation Plan Costs- Call $30,000				$30,000				
X.	**Potential Mitigation Plan For Irrigator No.2 (Requested by WDEQ-LQD)**								
		Assumptions:							
		Harvesting grass for 2 years will further reduce Se levels in vegetation.							
		Harvest grass for 2 years @ $4000/year.			$8,000				
		Analyze Se in grass for 2 years @$165/sample X 4 samples X 2 yrs.			$1,320				
		Analyze Se in soil for 2 years @$174/sample X 32 samples X 2 yrs.			$11,136				
		Add 1 ft. of Se free water to 116 acre irrigation area @ cost of $12000.			$12,000				
		If desired, plow, disk and reseed area with alfalfa @ cost of $8800.			$8,800				
	Total Potential Mitigation Plan Costs- Call $42,000				$42,000				
XI.	**Potential Mitigation Plan for Shallow Well Casing Leak Investigation**								
		Assumptions:							
		Investigation and potential mitigation plan as of June 2002.							
		Assume cost of $250,000.							
	Total Preliminary Cost				$250,000				

Miscellaneous Reclamation									
TOTAL MISCELLANEOUS RECLAMATION COSTS					$695,734				

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RADIUM TREATMENT			
Assumptions:			
1.	Based on actual 1998 operating costs from Satellite No. 2		
Radium Treatment Costs per 1000 Gallons			
	Chemical	= $	0.177
	Filtration	= $	0.021
	Electricity	= $	0.019
	By Product Disposal of Sludge	= $	0.097
TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS		= $	**0.31**

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GROUNDWATER SWEEP (GWS)

Assumptions:

1. All pumps are 5 hp pumping at 5.0 gpm
2. Cost of electricity = $0.03/kwh
3. All water pumped is treated for radium removal at actual cost of $0.31/1000 gallons
4. All water pumped is disposed at irrigation facility with a 20 hp pump
5. Repair and maintenance costs estimated at $0.03/1000 gallons
6. Process sampling and analysis costs estimated at $0.03/1000 gallons
7. Labor costs are not included

Wellfield Pumping Costs per 1000 Gallons

$$1000\ \text{gal} \times \frac{5\ \text{hp}}{5\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.373$$

Radium Treatment Costs per 1000 Gallons = $ 0.31

Pumping to Irrigator Costs per 1000 Gallons

$$1000\ \text{gal} \times \frac{20\ \text{hp}}{400\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.019$$

Repair and Maintenance Costs per 1000 Gallons = $ 0.03

Process Sampling and Analysis Costs per 1000 Gallons = $ 0.03

TOTAL GWS COSTS PER 1000 GALLONS = $ 0.77

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REVERSE OSMOSIS (RO)											
Assumptions:											
1.	Based on actual 1998 operating costs at Satellite No. 1. Verified by										
	Hydranautics RO System Design Software, Version 6.0 (1995)										
2.	Cost of electricity = $0.03/kwh										
3.	80% permeate/20% reject split										
4.	Membrane life of 4 years with a cost of $695 per membrane element										
5.	Includes cost of pumping from wellfield to RO Unit										
6.	The 20% reject is treated for radium removal prior to irrigation at actual cost of $0.31/1000										
	gallons										
7.	The 20% reject is disposed at irrigation facility with a 20 hp pump at actual cost of										
	$0.019/1000 gallons										
8.	The permeate is returned to the wellfield with a 20 hp pump at actual cost of										
	$0.019/1000 gallons										
9.	Process sampling and analysis costs estimated at $0.03/1000 gallons										
10.	Labor costs are not included										
Reverse Osmosis Costs per 1000 Gallons											
	Electricity						= $	0.17			
	Chemicals						= $	0.26			
	Membrane Replacement						= $	0.15			
	Repair and Maintenance						= $	0.26			
	Pumping from Wellfield						= $	0.37			
	Pumping to Wellfield						=$	0.019			
	Radium Treatment										
		$	0.31	X	0.2		= $	0.0628			
	Pumping to Irrigator										
		$	0.019	X	0.2		= $	0.004			
	Process Sampling and Analysis						= $	0.03			
TOTAL RO COSTS PER 1000 GALLONS							= $	1.33			

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CHEMICAL REDUCTANT			
Assumptions:			
1.	Bioremediation is utilized		
2.	Based on actual 2003-2004 operating costs during restoration activities		
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal		**= $**	**0.33**
	July 1998 Dollars	**= $**	**0.29**

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ELUTION PROCESSING		
Assumptions:		
1. Based on actual operating costs		
TOTAL PROCESSING COSTS PER ELUTION	**= $**	**525**

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DEEP WELL INJECTION

Assumptions:

1. Pump 75 hp pumping at 45 gpm
2. Cost of electricity = $0.03/kwh
3. Repair and maintenance costs based on average injection volume of 8,000,000 gallons per year
4. Repair and maintenance costs estimated at $1.25/1000 gallons
5. Chemical costs based on average injection volume of 8,000,000 gallons per year
6. Labor costs are not included

Waste Disposal Pumping Costs per 1000 Gallons

$$1000\ \text{gal} \times \frac{75\ \text{hp}}{45\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.62$$

Repair and Maintenance Costs per 1000 Gallons = $ 1.25

Chemical Costs per 1000 Gallons = $ 2.73

Scale Inhibitor	= $ 1.20
Corrosion Inhibitor	= $ 1.16
Oxygen Scavenger	= $ 0.37

TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS = $ 4.60

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WELL ABANDONMENT													
Assumptions:													
1.	Use backhoe for 0.5 hr/well to dig and reclaim pit at cost of $50/hr.												
2.	Use hose reel/tow vehicle for 2 hr/well to pull hoses and pump plug gel at cost of $35/hr.												
3.	Use cementer/tow vehicle for 1 hr/well to pump plug gel at cost of $45/hr.												
4.	Labor for backhoe, hose reel, cementer will require 2 workers at 3.5 hr/well at cost of $15/hr.												
5.	Materials include one hole plug at $1.75 and one sack of plug gel/100 ft of 5 inch well casing.												
	Cost of plug gel is $6.70/sack.												
Well Abandonment Costs													
	Fixed Costs												
	Backhoe												
	0.5	hours	X	$	50	per hour		=$	25.00				
	Hose Reel/Tow Vehicle												
	2	hours	X	$	35	per hour		=$	70.00				
	Cementer/Tow Vehicle												
	1	hours	X	$	45	per hour		=$	45.00				
	Labor												
	7	man	X	$	15.00	per man		=$	105.00				
		hours				hour							
	Materials												
	1	hole	X	$	1.75	per hole		=$	1.75				
		plug				plug							
					Total Fixed Costs			=$	246.75				
	Variable Costs	(per 100 ft of well depth)											
	Materials												
	1	sack plug gel	X	$	6.70	per		=$	6.70				
		per 100 feet				sack							
	Cost per Well per Unit of Average Depth												
				Well Depth (ft)									
					450			=$	277				
					500			=$	280				
					550			=$	284				
					600			=$	287				
					650			=$	290				

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FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)														
Assumptions:														
1.	Based on 1999 PRI costs.													
2.	Use Pulling Unit for 0.25 hr/well at cost of $45/hr.													
3.	Use MIT Unit for 1.5 hr/well at cost of $20/hr.													
4.	Labor for operation of pulling unit will require 2 workers at $15/hr													
5.	Labor for operation of MIT Unit will require 1 worker at $15/hr													
MIT Costs per Well														
Equipment:														
	Pulling Unit													
		0.25	hours	X	$	45	per hour				=$	11.25		
	MIT Unit													
		1.5	hours	X	$	20	per hour				=$	30.00		
Labor:														
	Pulling Unit													
		0.25	hours	X	$	15	per hour	X	2	workers	=$	$7.50		
	MIT Unit													
		1.5	hours	X	$	15	per hour				=$	22.50		
							MIT COST PER WELL				=$	71		

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MAIN PIPELINE REMOVAL													
Assumptions:													
1.	Trenching with trackhoe at 1500 ft/day												
2.	Pipeline extraction and backfilling with trackhoe at 1500 ft/day												
3.	Trackhoe rental: $1600/week												
4.	Fuel cost: $9/operating hour												
5.	Trackhoe operation requires 1 worker at $15/hour												
6.	Pipeline extraction requires 2 workers at $15/hour (in addition to trackhoe operator)												
7.	Pipelines removed simutaneously												
8.	Includes removal of manholes												
9.	Operating schedule: 8 hrs/day, 5 days/week												
Main Pipeline Removal Costs per ft of Trench													
Equipment													
	Trackhoe												
		$ 1600	X	1	week	X	2	days	=$	0.43			
		week		5	days		1500	ft					
	Fuel												
		$ 9	X	8	hrs	X	2	days	=$	0.10			
		hour		1	day		1500	ft					
Labor													
	Trackhoe Operation												
		$ 15	X	8	man hrs	X	2	days	=$	0.16			
		man hr		1	day		1500	ft					
	Pipeline Extraction												
		$ 15	X	16	man hrs	X	1	day	=$	0.16			
		man hr		1	day		1500	ft					
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH									=$	0.85			

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WELLFIELD PIPING REMOVAL														
Assumptions:														
1.	Trenching with backhoe at 3000 ft/day													
2.	Pipeline extraction and backfilling with backhoe at 3000 ft/day													
3.	Backhoe rental: $750/week													
4.	Fuel cost: $9/operating hour													
5.	Backhoe operation requires 1 worker at $15/hour													
6.	Pipeline extraction requires 2 workers at $15/hour (in addition to trackhoe operator)													
7.	Operating schedule: 8 hrs/day, 5 days/week													
Main Pipeline Removal Costs per ft of Pipe														
Equipment														
	Backhoe													
		$ 750		X	1 week		X	2 days		=$	0.10			
		week			5 days			3000 ft						
	Fuel													
		$ 9		X	8 hrs		X	2 days		=$	0.05			
		hour			1 day			3000 ft						
Labor														
	Backhoe Operation													
		$ 15		X	8 man hrs		X	2 days		=$	0.08			
		man hr			1 day			3000 ft						
	Pipeline Extraction													
		$ 15		X	16 man hrs		X	1 day		=$	0.08			
		man hr			1 day			3000 ft						
	MAIN PIPELINE REMOVAL COST PER FT OF PIPE									=$	0.31			

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WELLFIELD ROAD RECLAMATION

Assumptions (Roads constructed before January 1, 1997):

1. Gravel road base removed at cost of $0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)
2. Gravel road base: average depth = 0.25 ft, average width = 10 ft
3. Roads scarified prior to topsoil application at cost of $36.30/acre (WDEQ Guideline No. 12, Appendix P)
4. Grading of scarified roads prior to topsoil application at cost of $38.45/acre (WDEQ Guideline No. 12, Appendix G)
5. Topsoil applied at cost of $0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)
6. Stripped topsoil: average depth = 0.67 ft, average width = 25 ft
7. Discing/seeding cost of $200/acre is based on actual contractor costs

Gravel Road Base Removal Costs per 1000 ft of Road

$$1000\ ft \times 0.25\ ft \times 10\ ft \times \frac{1\ cy}{27\ ft^3} \times \frac{\$0.60}{cy} = \$\ 56$$

Scarification Costs per 1000 ft of Road

$$1000\ ft \times 25\ ft \times \frac{1\ acre}{4.356E{+}04\ ft^2} \times \frac{\$36.30}{acre} = \$\ 21$$

Grading Costs per 1000 ft of Road

$$1000\ ft \times 25\ ft \times \frac{1\ acre}{4.356E{+}04\ ft^2} \times \frac{\$38.45}{acre} = \$\ 22$$

Topsoil Application Costs per 1000 ft of Road

$$1000\ ft \times 0.67\ ft \times 25\ ft \times \frac{1\ cy}{27\ ft^3} \times \frac{\$0.60}{cy} = \$\ 372$$

Discing/Seeding Costs per 1000 ft of Road

$$1000\ ft \times 25\ ft \times \frac{1\ acre}{4.356E{+}04\ ft^2} \times \frac{\$200}{acre} = \$\ 115$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (BEFORE JANUARY 1, 1997) = $ 586

Assumptions (Roads constructed after January 1, 1997):

1. Gravel road base will not be removed
2. Roads scarified prior to topsoil application at cost of $36.30/acre (WDEQ Guideline No. 12, Appendix P)
3. Grading of scarified roads prior to topsoil application at cost of $38.45/acre (WDEQ Guideline No. 12, Appendix G)
4. Topsoil applied at cost of $0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)
5. Stripped topsoil: average depth = 0.4 ft, average width = 20 ft
6. Discing/seeding cost of $200/acre is based on actual contractor costs

Scarification Costs per 1000 ft of Road

$$1000\ ft \times 20\ ft \times \frac{1\ acre}{4.356E{+}04\ ft^2} \times \frac{\$36.30}{acre} = \$\ 17$$

Grading Costs per 1000 ft of Road

$$1000\ ft \times 20\ ft \times \frac{1\ acre}{4.356E{+}04\ ft^2} \times \frac{\$38.45}{acre} = \$\ 18$$

Topsoil Application Costs per 1000 ft of Road

$$1000\ ft \times 0.40\ ft \times 20\ ft \times \frac{1\ cy}{27\ ft^3} \times \frac{\$0.60}{cy} = \$\ 178$$

Discing/Seeding Costs per 1000 ft of Road

$$1000\ ft \times 20\ ft \times \frac{1\ acre}{4.356E{+}04\ ft^2} \times \frac{\$200}{acre} = \$\ 92$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (AFTER JANUARY 1, 1997) = $ 305

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BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL

Assumptions:

1. Based on actual 2001-2002 contracted costs for transportation to and disposal at an NRC-licensed disposal facility.
2. Includes profit for transporter and disposal facility.
3. All types of waste shipped vi bulk container (30-yd^3 dumpster or 30-yd^3 dump truck).
4. Each shipment contains 30,000 lbs of material.

Transportation Cost			Disposal Cost			Total	
$ 66.67	/yd^3	+	$ 85.00	/yd^3	=	$ 151.67	/yd^3
					=	$ 5.62	/ft^3

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DISKING/SEEDING									
Assumptions:									
1.	Based on actual contractor costs								
TOTAL DISKING/SEEDING COSTS PER ACRE					**= $**	**200**			

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Abbreviations/Acronyms	
$	Dollars
$/Kgal	Dollars per 1000 gallons
avg	average
ft	feet
ft2	square feet
ft3	cubic feet
gal	gallon
gpm	gallons per minute
H&S	Health and Safety
H2S	Hydrogen Sulfide
H2SO4	Sulfuric Acid
HCl	Hydrochloric Acid
Hp	Horsepower
Kgal	1000 gallons
Kwh	Kilowatt-hours
NaOH	Caustic Soda
OD	Outside Diameter
PPE	personal protective equipment
PV	Pore Volume Estimate
reqm't	requirement
RO	Reverse Osmosis
WDW	Waste Disposal Well
yd3	cubic yards
yr	year