

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>Total Restoration and Reclamation Cost Estimate</b>		
<b>I.</b>	<b>GROUNDWATER RESTORATION COST</b>	\$11,077,405
<b>II.</b>	<b>EQUIPMENT REMOVAL &amp; DISPOSAL COST</b>	\$291,997
<b>III.</b>	<b>BUILDING DEMOLITION AND DISPOSAL COST</b>	\$1,109,586
<b>IV.</b>	<b>WELLFIELD BUILDINGS &amp; EQUIPMENT REMOVAL &amp; DISPOSAL COST</b>	\$337,081
<b>V.</b>	<b>WELL ABANDONMENT COST</b>	\$1,102,011
<b>VI.</b>	<b>WELLFIELD AND SATELLITE SURFACE RECLAMATION COST</b>	\$64,526
<b>VII.</b>	<b>TOTAL MISCELLANEOUS RECLAMATION COST</b>	\$429,941
	<b>SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE</b>	\$14,412,546
	<b>CPI ESCALATOR- July 1,1998 to May 31, 2006 (24.08%)</b>	\$3,470,541
	<b>SUBTOTAL</b>	\$17,883,087
	<b>ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)</b>	\$4,470,772
	<b>TOTAL</b>	\$22,353,859
	<b>TOTAL CALCULATED SURETY (IN 2006 DOLLARS)</b>	\$22,353,900

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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	Mine Unit-15A	Mine Unit K	Mine Unit 9
<b>PV Assumptions</b>												
Wellfield Area (ft2)		1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	2,000,000	1,600,000	1,620,000	1,200,000
Wellfield Area (acres)		25.6	51.9	37.2	18.0	30.6	24.1	7.8	45.9	36.7	37.2	27.5
Affected Ore Zone Area (ft2)		1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	2,000,000	1,600,000	1,620,000	1,200,000
Avg. Completed Thickness		18	24	20	14	18	17	18	19	19	20	20
Porosity		0.27	0.27	0.27	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	1.5	1.7	1.7
Affected Volume (ft3)		34,126,007	81,366,192	48,673,860	16,438,800	36,039,546	26,789,688	10,416,883	57,000,000	45,600,000	55,080,000	40,800,000
Kgallons per Pore Volume		68,921	164,327	98,302	33,200	72,785	54,104	21,038	115,117	92,094	111,240	82,400
<b>Number of Patterns in Unit(s)</b>												
Current		116	146	162	76	128	101	35	251	0	0	0
Estimated next report period		0	0	0	0	0	0	0	0	60	100	54
Total Estimated		116	146	162	76	128	101	35	251	60	100	54
<b>Number of Wells in Unit(s)</b>												
<b>Production Wells</b>												
Current		115	146	145	Wells	124	101	Wells	251	0	0	0
Estimated next report period		0	0	0	included	0	0	included	0	60	100	54
Total Estimated		115	146	145	under	124	101	under	251	60	100	54
<b>Injection Wells</b>												
Current		210	262	251	Wellfield 3	219	175	Wellfield 4 and	502	0	0	0
Estimated next report period		0	0	0		0	0	Wellfield 4A	0	120	200	107
Total Estimated		210	262	251		219	175		502	120	200	107
<b>Monitoring Wells</b>												
Current		49	50	40		51	39		105	60	61	0
Estimated next report period		0	0	0		0	0		0	0	0	80
Total Estimated		49	50	40		51	39		105	60	61	80
Number of Wells per Wellfield		374	458	436		394	315		858	240	361	241
Total Number of Wells		2835										
Average Well Depth (ft)		500	850	750		850	750		450	500	950	950
<b>I. Ground Water Sweep Costs</b>												
PV's Required		1	1	1	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	115,117	92,094	111,240	82,400
Ground Water Sweep Unit Cost (\$/Kgal)		\$0.57	\$0.57	\$0.57	\$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	\$65,948	\$52,758	\$63,726	\$47,205
<b>Total Ground Water Sweep Costs</b>		<b>\$523,337</b>										
<b>II. Reverse Osmosis Costs</b>												
PV's Required		5	5	5	5	5	5	5	5	5	5	6
Total Kgals for Treatment		344,604	821,636	491,509	165,999	363,927	270,522	105,190	575,586	460,469	556,198	494,398
Reverse Osmosis Unit Cost (\$/Kgal)		\$1.26	\$1.26	\$1.26	\$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	\$726,274	\$581,020	\$701,810	\$623,831
<b>Total Reverse Osmosis Costs</b>		<b>\$5,867,418</b>										
<b>III. Chemical Reductant Costs</b>												
Total Kgals for Treatment (2 Pore Volumes)		137842	328654	196603	66400	145571	108209	42076	230234	184188	222479	164799

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	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	\$39,974	\$95,310	\$57,015	\$19,256	\$42,216	\$31,381	\$12,202	\$66,768	\$53,414	\$64,519	\$47,792
	<b>Total Chemical Reductant Costs</b>	<b>\$529,847</b>										
<b>IV.</b>	<b>Elution Costs</b>											
	A. Elution Processing Costs											
	Kgals/Elution Required	35,000	35,000	35,000	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	20	16	19	16
	Processing Unit Cost (\$/Elution)	\$525	\$525	\$525	\$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	\$10,500	\$8,400	\$9,975	\$8,400
	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	144	336	204	72	144	108	48	240	192	228	192
	Deep Well Injection Unit Cost (\$/Kgals)	\$1.39	\$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	\$200	\$467	\$284	\$100	\$200	\$150	\$67	\$334	\$267	\$317	\$267
	Subtotal Elution Costs per Wellfield	\$6,500	\$15,167	\$9,209	\$3,250	\$6,500	\$4,875	\$2,167	\$10,834	\$8,667	\$10,292	\$8,667
	<b>Total Elution Costs</b>	<b>\$86,128</b>										
<b>V.</b>	<b>Monitoring and Sampling Costs</b>											
	A. Active Restoration Period											
	Estimated Restoration Period (Years)	5	5	5		5	5		5	5	5	5
	1. UCL Sampling											
	# of Wells	49	51	43		55	36		108	60	61	80
	\$/sample	\$20	\$20	\$20		\$20	\$20		\$20	\$20	\$20	\$20
	Samples/Year	6	6	6		6	6		6	6	6	6
	Sub-total Restoration Analyses	\$29,400	\$30,600	\$25,800		\$33,000	\$21,600		\$64,800	\$36,000	\$36,600	\$48,000
	B. Stability Period											
	Estimated Stabilization Period (Years)	1	1	1		1	1		1	1	1	1
	1. Full Suite Analyses											
	# of Wells	17	31	24		20	10		61	34	34	56
	Samples/Year	3	3	3		3	3		3	3	3	3
	\$/sample	\$150	\$150	\$150		\$150	\$150		\$150	\$150	\$150	\$150
	2. Short List Analyses											
	# of Wells	17	31	24		20	10		61	34	34	56
	Samples/Year	9	9	9		9	9		9	9	9	9
	\$/sample	\$34	\$34	\$34		\$34	\$34		\$34	\$34	\$34	\$34
	Sub-total Stability Analyses	\$12,852	\$23,436	\$18,144		\$15,120	\$7,560		\$46,116	\$25,704	\$25,704	\$42,336
	Subtotal Monitoring and Sampling Costs per Wellfield	\$42,252	\$54,036	\$43,944		\$48,120	\$29,160		\$110,916	\$61,704	\$62,304	\$90,336
	<b>Total Monitoring and Sampling Costs</b>	<b>\$542,772</b>										
<b>VI.</b>	<b>Mechanical Integrity Test (MIT) Costs</b>											
	Five Year MIT Unit Cost (\$/well)	\$71	\$71	\$71		\$71	\$71		\$71	\$71	\$71	\$71
	Number of Wells (30% of Inj. and Rest. Wells)	63	79	75		66	53		151	36	60	32
	Subtotal Mechanical Integrity Testing Costs per Wellfield	\$4,473	\$5,581	\$5,346		\$4,665	\$3,728		\$10,693	\$2,556	\$4,260	\$2,279
	<b>Total Mechanical Integrity Testing Cost</b>	<b>\$43,581</b>										
	TOTAL RESTORATION COSTS PER WELLFIELD	\$567,504	\$1,300,973	\$792,015	\$250,983	\$602,402	\$441,484	\$159,149	\$991,433	\$760,119	\$906,911	\$820,110
	<b>TOTAL WELLFIELD RESTORATION COST</b>	<b>\$7,593,083</b>										

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<b>VII. Building Utility Costs</b>		<b>Central Plant</b>	<b>Main Office</b>	<b>Satellite SR-1</b>	<b>Satellite SR-2</b>							
	Electricity (\$/Month)	\$8,500	\$1,825	\$8,500	\$8,500							
	Natural Gas (\$/Month)	\$2,500	\$595	\$765	\$765							
	Number of Months	48	60	36	36							
	Subtotal Utility Costs per Building	\$528,000	\$145,200	\$333,540	\$333,540							
	<b>Total Building Utility Costs</b>	<b>\$1,340,280</b>										
<b>XI. Vehicle Operation Costs</b>												
	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										
	<b>Total Vehicle Operation Costs</b>	<b>\$352,042</b>										
<b>XII. Labor Costs</b>												
	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										
	<b>Total Labor Costs</b>	<b>\$1,672,000</b>										
<b>XIII. Capital Costs</b>												
	Purchase RO Units (2X800 gpm Units)	\$120,000										
	<b>Total Labor Costs</b>	<b>\$120,000</b>										
<b>TOTAL GROUND WATER RESTORATION COSTS</b>		<b>\$11,077,405</b>										

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Equipment Removal and Loading		CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse	Bone Yard	Satellite SR-2
<b>Removal and Loading Costs</b>									
<b>A. Tankage</b>									
	Number of Tanks	13	51	0	10	15	3	30	10
	Volume of Tank Construction Material (ft <sup>3</sup> )	835	1340	300	397	260	164	1648	397
<b>1. Labor</b>									
	Number of Persons	3	3	3	3	3	3	3	3
	Ft <sup>3</sup> /Day	25	25	25	25	25	25	25	25
	Number of Days	33	54	12	16	10	7	66	16
	\$/Day/Person	\$112	\$112	\$112	\$112	\$112	\$112	\$112	\$112
	Subtotal Labor Costs	\$11,228	\$18,010	\$4,032	\$5,376	\$3,494	\$2,204	\$22,149	\$5,376
<b>2. Equipment</b>									
	Number of Days	33	54	12	16	10	7	66	16
	\$/Day	\$338	\$338	\$338	\$338	\$338	\$338	\$338	\$338
	Subtotal Equipment Costs	\$11,295	\$18,117	\$4,056	\$5,408	\$3,515	\$2,217	\$22,281	\$5,408
	Subtotal Tankage Removal and Loading Costs	\$22,523	\$36,127	\$8,088	\$10,784	\$7,009	\$4,421	\$44,430	\$10,784
<b>B. PVC/Steel Pipe</b>									
	PVC Pipe Footage	2800	5000		4000	1500	0	0	4000
	Average PVC Pipe Diameter (inches)	3	3	3	3	3	3	0	3
	Shredded PVC Pipe Volume Reduction (ft <sup>3</sup> /ft)	0.016	0.016	0.016	0.016	0.016	0.016	0	0.016
	Volume of Shredded PVC Pipe (ft <sup>3</sup> )	45	80	0	64	24	0	0	64
	Steel Pipe Footage	1100	0	0	0	0	80	0	0
	Average Steel Pipe Diameter (inches)	6	0	0	0	0	8	0	0
	Volume (ft <sup>3</sup> )	216	0	0	0	0	30	0	0
<b>1. Labor</b>									
	Number of Persons	2	2	2	2	2	2	2	2
	Ft/Day	200	200	200	200	200	200	200	200
	Number of Days	19.5	25	0	20	7.5	0.4	0	20
	\$/Day/Person	\$112	\$112	\$112	\$112	\$112	\$112	\$112	\$112
	Subtotal PVC/Steel Pipe Labor Costs	\$4,368	\$5,600	\$0	\$4,480	\$1,680	\$90	\$0	\$4,480
	Subtotal PVC/Steel Pipe Removal and Loading Costs	\$4,368	\$5,600	\$0	\$4,480	\$1,680	\$90	\$0	\$4,480
<b>C. Pumps</b>									
	Number of Pumps	21	43	0	13	12	2	0	13
	Average Volume (ft <sup>3</sup> /pump)	4.93	4.93	0	4.93	4.93	4.93	4.93	4.93
	Volume of Pumps (ft <sup>3</sup> )	103.53	211.99	0	64.09	59.16	9.86	0	64.09
<b>1. Labor</b>									
	Number of Persons	1	1	1	1	1	1	0	1
	Pumps/Day	2	2	2	2	2	2	0	2
	Number of Days	10.5	21.5	0	7	6	1	0	7
	\$/Day/Person	\$112	\$112	\$112	\$112	\$112	\$112	\$112	\$112

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Equipment Removal and Loading		CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse	Bone Yard	Satellite SR-2
Subtotal Labor Costs		\$1,176	\$2,408	\$0	\$784	\$672	\$112	\$0	\$784
Subtotal Pump Removal and Loading Costs		\$1,176	\$2,408	\$0	\$784	\$672	\$112	\$0	\$784
D. Dryer									
Dryer Volume (ft <sup>3</sup> )				200					
I. Labor									
Number of Persons		0	0	5	0	0	0	0	0
Ft <sup>3</sup> /Day		0	0	175	0	0	0	0	0
Number of Days		0	0	2	0	0	0	0	0
\$/Day/Person		\$112	\$112	\$112	\$112	\$112	\$112	\$112	\$112
Total Labor Cost		\$0	\$0	\$1,120	\$0	\$0	\$0	\$0	\$0
Total Dryer Dismantling and Loading Cost		\$0	\$0	\$1,120	\$0	\$0	\$0	\$0	\$0
Subtotal Equipment Removal and Loading Costs per Facility		\$39,295	\$62,145	\$13,240	\$21,424	\$12,855	\$6,827	\$66,579	\$21,424
<b>Total Equipment Removal and Loading Costs</b>		<b>\$243,789</b>							
<b>Transportation and Disposal Costs (NRC-Licensed Facility)</b>									
A. Tankage									
Volume of Tank Construction Material (ft <sup>3</sup> )		835	1340	300	397	260	164	1648	
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		919	1474	330	436	286	180	1813	
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$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	\$10,189	\$0
B. PVC / Steel Pipe									
Volume of Shredded PVC Pipe (ft <sup>3</sup> )		44.8	80	0	64	24	0	0	
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		49	88	0	70	26	0	0	
Volume of Steel Pipe (ft <sup>3</sup> )		296	0	0	0	0	30	30	
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		326	0	0	0	0	33	33	
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$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	\$185	\$0
C. Pumps									
Volume of Pumps (ft <sup>3</sup> )		103.53	271	0	64	59	9.86	0	
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		114	298	0	70	65	11	0	
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$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	\$0	\$0
D. Dryer									
Dryer Volume (ft <sup>3</sup> )		0	0	400	0	0	0	0	0
Volume for Disposal Assuming Dryer Remains Intact (ft <sup>3</sup> )		0	0	400	0	0	0	0	0
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$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	\$0	\$0
Subtotal Equipment Transportation and Disposal Costs per Facility		\$7,914	\$10,454	\$4,103	\$3,236	\$2,118	\$1,259	\$10,374	\$0
<b>Total Equipment Transportation and Disposal Costs</b>		<b>\$39,458</b>							
<b>Health and Safety Costs</b>									

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<b>Equipment Removal and Loading</b>				<b>CPP Ion Ex. Plant</b>	<b>Central Plant</b>	<b>Dryer Building</b>	<b>Satellite SR-1</b>	<b>Pilot ISL</b>	<b>Water Pumphouse</b>	<b>Bone Yard</b>	<b>Satellite SR-2</b>
Radiation Safety Equipment				\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	0	\$1,250	\$1,250
<b>Total Health and Safety Costs</b>				<b>\$8,750</b>							
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY				\$48,459	\$73,849	\$18,593	\$25,910	\$16,223	\$8,086	\$78,203	\$22,674
<b>TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>				<b>\$291,997</b>							

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			CPP Ion Ex.	Central	Dryer	Office	Office	Storage	Water Treat	Shop	Pilot ISL	Fresh Water	DDW
Building Demolition and Disposal			Plant	Plant	Building	Building	Annex	Building	Plant	Building	Building	Pumphouse	Buildings
<b>I. Decontamination Costs</b>													
A.	Wall Decontamination												
	Area to be Decontaminated (ft <sup>2</sup> )		10,810	15,900	0	0	9,934	1,152	576	4,826	12,000	0	0
	Application Rate (Gallons/ft <sup>2</sup> )		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	\$0	\$4,967	\$576	\$288	\$2,413	\$6,000	\$0	\$0
B.	Concrete Floor Decontamination												
	Area to be Decontaminated (ft <sup>2</sup> )		11,550	16,500	3,500	0	14,468	1,678	839	7,028	17,477	0	0
	Application Rate (Gallons/ft <sup>2</sup> )		4	4	4	0	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	\$0	\$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	0	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	\$0	\$94	\$11	\$5	\$46	\$114	\$0	\$0
	Subtotal Decontamination Costs per Building		\$28,740	\$41,064	\$7,019	\$0	\$33,997	\$3,943	\$1,971	\$16,515	\$41,068	\$0	\$0
	<b>Total Decontamination Costs</b>		<b>\$199,598</b>										
<b>II. Demolition Costs</b>													
A.	Building												
	Assumptions:												
	Dryer bldg. demolition unit cost of \$0.73/ft <sup>3</sup> for additional radiation safety equipment												
	Volume of Building (ft <sup>3</sup> )		346,500	577,500	122,500	0	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 <sup>3</sup> )		\$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 <sup>3</sup> (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	\$0	\$53,736	\$2,493	\$1,246	\$26,103	\$46,737	\$1,236	\$98
B.	Concrete Floor												
	Area of Concrete Floor (ft <sup>2</sup> )		11,550	16,500	3500	0	14468	1678	839	7028	17477	832	0
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>2</sup> )		\$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 <sup>2</sup> (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	\$0	\$39,847	\$4,621	\$2,311	\$19,356	\$48,134	\$2,291	\$0
C.	Concrete Footing												
	Length of Concrete Footing (ft)		430	514	237	0	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	\$0	\$4,786	\$1,630	\$1,153	\$3,336	\$5,260	\$1,144	\$0
	Subtotal Demolition Costs per Building		\$87,564	\$136,351	\$30,192	\$0	\$98,369	\$8,744	\$4,710	\$48,795	\$100,131	\$4,671	\$98
	<b>Total Demolition Costs</b>		<b>\$736,551</b>										
<b>III. Disposal Costs</b>													
A.	Building												
	Volume of Building (cy)		12833	21389	4537	0	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	0	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	\$0	\$7,234	\$336	\$168	\$3,514	\$6,292	\$166	\$13



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		CPP Ion Ex.	Central	Dryer	Office	Office	Storage	Water Treat	Shop	Pilot ISL	Fresh Water	DDW
		Plant	Plant	Building	Building	Annex	Building	Plant	Building	Building	Pumphouse	Buildings
<b>Building Demolition and Disposal</b>												
	2.	NRC-Licensed Facility										
		Percentage (%)	0	0	0	0	0	0	0	0	0	0
		Volume for Disposal (ft <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	0	0	0	0	0	0	0	0	0	0
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$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
		Subtotal Building Disposal Costs	\$6,930	\$11,550	\$2,450	\$0	\$7,234	\$336	\$168	\$3,514	\$6,292	\$166
	B.	Concrete Floor										
		Area of Concrete Floor (ft <sup>2</sup> )	11550	16500	3500	0	14468	1678	839	7028	17477	1186
		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
		Volume of Concrete Floor (ft <sup>3</sup> )	8662.5	12375	2625	0	10851	1258.5	629.25	5271	13107.75	889.5
		Volume of Concrete Floor (cy)	321	458	97	0	402	47	23	195	485	33
	1.	On-Site										
		Percentage (%)	75	75	75	100	100	100	100	100	75	100
		Volume for Disposal (cy)	241	344	73	0	402	47	23	195	364	33
		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
		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
		Subtotal On-Site Disposal Costs	\$980	\$1,401	\$297	\$0	\$1,638	\$190	\$95	\$795	\$1,484	\$134
	2.	NRC-Licensed Facility										
		Assumptions:										
		Additional \$2.00/ft <sup>3</sup> for segregation of concrete										
		Percentage (%)	25	25	25	0	0	0	0	0	25	0
		Volume for Disposal (ft <sup>3</sup> )	2888	3094	656	0	0	0	0	0	3277	0
		Segregation and Loading Unit Cost (\$/ft <sup>3</sup> )	\$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 <sup>3</sup> )	\$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
		Subtotal Concrete Floor Disposal Costs	\$22,987	\$24,975	\$5,298	\$0	\$1,638	\$190	\$95	\$795	\$26,454	\$134
	C.	Concrete Footing										
		Length of Concrete Footing (ft)	430	514	237	0	481	164	116	335	529	124
		Average Depth of Concrete Footing (ft)	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
		Volume of Concrete Footing (ft <sup>3</sup> )	1720	2055	947	0	1925	655	463	1341	2115	496
		Volume of Concrete Footing (cy)	64	76	35	0	71	24	17	50	78	18
		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
		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
		Subtotal Concrete Footing Disposal Costs	\$260	\$310	\$143	\$0	\$290	\$99	\$70	\$202	\$319	\$75
		Subtotal Disposal Costs per Building	\$30,177	\$36,835	\$7,891	\$0	\$9,162	\$625	\$333	\$4,511	\$33,065	\$375
		<b>Total Disposal Costs</b>										
			\$166,437									
	III.	Health and Safety Costs										
		Radiation Safety Equipment	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0
		<b>Total Health and Safety Costs</b>	\$7,000									
		SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	\$147,481	\$215,250	\$46,102	\$1,000	\$142,528	\$13,312	\$7,014	\$69,821	\$174,264	\$5,046
		<b>TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>	<b>\$1,109,586</b>									

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

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			Satellite	Yellowcake	Satellite
<b>Building Demolition and Disposal</b>			<b>SR-1</b>	<b>Warehouse</b>	<b>SR-2</b>
2.	NRC-Licensed Facility				
	Percentage (%)		0	0	0
	Volume for Disposal (ft <sup>3</sup> )		0	0	0
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		0	0	0
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$0	\$0
	Subtotal Building Disposal Costs		\$8,040	\$1,100	\$8,040
B.	Concrete Floor				
	Area of Concrete Floor (ft <sup>2</sup> )		13400	2750	13400
	Average Thickness of Concrete Floor (ft)		0.75	0.75	0.75
	Volume of Concrete Floor (ft <sup>3</sup> )		10050	2062.5	10050
	Volume of Concrete Floor (cy)		372	76	372
1.	On-Site				
	Percentage (%)		75	75	75
	Volume for Disposal (cy)		279	57	279
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.07	\$4.07	\$4.07
	Subtotal On-Site Disposal Costs		\$1,138	\$233	\$1,138
2.	NRC-Licensed Facility				
	Assumptions:				
	[Additional \$2.00/ft <sup>3</sup> for segregation of concrete				
	Percentage (%)		25	25	
	Volume for Disposal (ft <sup>3</sup> )		2513	516	
	Segregation and Loading Unit Cost (\$/ft <sup>3</sup> )		\$2.00	\$2.00	\$2.00
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs		\$19,145	\$3,929	\$0
	Subtotal Concrete Floor Disposal Costs		\$20,283	\$4,162	\$1,138
C.	Concrete Footing				
	Length of Concrete Footing (ft)		463	210	463
	Average Depth of Concrete Footing (ft)		4	4	4
	Average Width of Concrete Footing (ft)		1	1	1
	Volume of Concrete Footing (ft <sup>3</sup> )		1852	839	1852
	Volume of Concrete Footing (cy)		69	31	69
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.07	\$4.07	\$4.07
	Subtotal Concrete Footing Disposal Costs		\$280	\$127	\$280
	Subtotal Disposal Costs per Building		\$28,603	\$5,389	\$9,458
	<b>Total Disposal Costs</b>				
III.	<b>Health and Safety Costs</b>				
	Radiation Safety Equipment		\$1,000	\$1,000	
	<b>Total Health and Safety Costs</b>				
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			\$147,487	\$30,994	\$109,176
<b>TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>					

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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	Mine Unit-15A	Mine Unit-K	Mine Unit-9
<b>I. Wellfield Piping</b>												
Assumptions:												
Number of Header Houses per Wellfield				6	5	8	6	5	13	4	5	3
Length of Piping per Header House (ft)				2000	2000	2000	2000	2000	2000	2000	2000	2000
Total Length of Piping (ft)				12000	10000	16000	12000	10000	26000	8000	10000	6000
<b>A. Removal and Loading</b>												
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				\$3,720	\$3,100	\$4,960	\$3,720	\$3,100	\$8,060	\$2,480	\$3,100	\$1,860
<b>B. Transport and Disposal Costs (NRC-Licensed Facility)</b>												
Average Diameter of Piping (inches)				2	2	2	2	2	2	2	2	2
Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Chipped Volume per Wellfield (ft <sup>3</sup> )				60	50	80	60	50	130	40	50	30
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )				66	55	88	66	55	143	44	55	33
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )				\$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				\$371	\$309	\$495	\$371	\$309	\$804	\$247	\$309	\$185
Wellfield Piping Costs per Wellfield				\$4,091	\$3,409	\$5,455	\$4,091	\$3,409	\$8,864	\$2,727	\$3,409	\$2,045
<b>C. Capitol Costs</b>												
PVC Pipe Shredder				\$40,000								
<b>Total Wellfield Piping Costs</b>				<b>\$77,500</b>								
<b>II. Well Pumps and Tubing</b>												
Assumptions:												
Pump and tubing removal costs included under ground water restoration labor costs												
60% of production/injection wells contain pumps and/or tubing												
<b>A. Pump and Tubing Transportation and Disposal</b>												
Number of Production Wells				115	146	145	124	101	251	60	100	54
Number of Injection Wells				210	262	251	219	175	502	120	200	107
<b>1. Pump Volume</b>												
Number of Production Wells with Pumps				69	88	87	74	61	151	36	60	32
Average Pump Volume (ft <sup>3</sup> )				1	1	1	1	1	1	1	1	2
Pump Volume per Wellfield (ft <sup>3</sup> )				69	88	87	74	61	151	36	60	64
<b>2. Tubing Volume</b>												
Assumptions:												
Average tubing length/wellfield based on average well depth minus 25 ft												
Number of Production Wells with Tubing				69	88	87	74	61	151	36	60	32
Number of Injection Wells with Tubing				126	157	151	131	105	301	72	120	64
Average Tubing Length per Well (ft)				475	825	725	825	725	425	475	925	925
Tubing Length per Wellfield (ft)				92625	202125	172550	169125	120350	192100	51300	166500	88800

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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	Mine Unit-15A	Mine Unit-K	Mine Unit-9
		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 <sup>3</sup> /ft)	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Chipped Volume per Wellfield (ft <sup>3</sup> )	463	1011	863	846	602	961	257	833	444
		Volume of Pump and Tubing (ft <sup>3</sup> )	532	1099	950	920	663	1112	293	893	508
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	585	1209	1045	1012	729	1223	322	982	559
		Transportation and Disposal Unit Cost (\$/ft <sup>2</sup> )	\$5.62	\$5.62	\$5.62	\$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	\$6,873	\$1,810	\$5,519	\$3,142
		Pump and Tubing Costs per Wellfield	\$3,288	\$6,795	\$5,873	\$5,687	\$4,097	\$6,873	\$1,810	\$5,519	\$3,142
		<b>Total Pump and Tubing Costs</b>	<b>\$43,084</b>								
<b>III. Buried Trunkline</b>											
		Assumptions:									
		Length of Trunkline Trench (ft)	5075	7600	4790	7105	5460	10000	0	0	7000
		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	\$0.85	\$0.85
		Subtotal Trunkline Removal and Loading Costs	\$4,314	\$6,460	\$4,072	\$6,039	\$4,641	\$8,500	\$0	\$0	\$5,950
		B. Transport and Disposal Costs (NRC-Licensed Facility)									
		1. 1" Carbon Steel Trunkline									
		Piping Length (ft)						10000	0	0	0
		Volume (ft <sup>3</sup> )						218	0	0	0
		2. 1" HDPE Trunkline									
		Piping Length (ft)						10000	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)						0.005	0.005	0.005	0.005
		Chipped Volume (ft <sup>3</sup> )						50	0	0	0
		3. 3" HDPE Trunkline									
		Piping Length (ft)	5075	7600	4790	7105	5460	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Chipped Volume (ft <sup>3</sup> )	111.65	167.2	105.38	156.31	120.12	0	0	0	0
		4. 6" HDPE Trunkline									
		Piping Length (ft)	2410	10000	4820	3520	3800	20000	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Chipped Volume (ft <sup>3</sup> )	187.98	780	375.96	274.56	296.4	1560	0	0	0
		5. 8" HDPE Trunkline									
		Piping Length (ft)	4100		1100	2400	1840	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
		Chipped Volume (ft <sup>3</sup> )	615	0	165	360	276	0	0	0	0
		6. 10" HDPE Trunkline									
		Piping Length (ft)	0	5200	3660	2280	2400	0	0	0	0

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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	Mine Unit-15A	Mine Unit-K	Mine Unit-9
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Chipped Volume (ft <sup>3</sup> )	0	1440.4	1013.82	631.56	664.8	0	0	0	0
	7.	12" HDPE Trunkline									
		Piping Length (ft)	1460	0	0	3210	2060	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293
		Chipped Volume (ft <sup>3</sup> )	427.78	0	0	940.53	603.58	0	0	0	0
	8.	14" HDPE Trunkline									
		Piping Length (ft)	740	0	0	0	0	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
		Chipped Volume (ft <sup>3</sup> )	265.66	0	0	0	0	0	0	0	0
	9.	16" HDPE Trunkline									
		Piping Length (ft)	1440	0	0	2800	820	0	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		Chipped Volume (ft <sup>3</sup> )	576	0	0	1120	328	0	0	0	0
		Total Trunkline Chipped Volume (ft <sup>3</sup> )	2184.07	2387.6	1660.16	3482.96	2288.9	1560	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	2402	2626	1826	3831	2518	1716	0	0	0
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$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	\$9,644	\$0	\$0	\$0
		Trunkline Decommissioning Costs per Wellfield	\$17,813	\$21,218	\$14,334	\$27,569	\$18,792	\$18,144	\$0	\$0	\$5,950
		<b>Total Trunkline Decommissioning Costs</b>	<b>\$123,820</b>								
<b>IV.</b>	<b>Well Houses</b>										
		Total Quantity	315	408	396	343	276	392	0	50	120
		Average Well House Volume (ft <sup>3</sup> )	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	A.	Removal									
		Total Volume (ft <sup>3</sup> )	3937.5	5100	4950	4287.5	3450	4900	0	625	1500
		Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft <sup>3</sup> )	\$0.165	\$0.165	\$0.165	\$0.165	\$0.165	\$0.165	\$0.165	\$0.165	\$1.165
		Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)	\$0.14	\$0.14	\$0.14	\$0.14	\$0.14	\$0.14	\$0.14	\$0.14	\$1.01
		Subtotal Well House Demolition Costs	\$564	\$731	\$710	\$615	\$495	\$702	\$0	\$90	\$1,518
	B.	Survey and Decontamination									
		Assumptions:									
		Cost per Well House	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$6
		Subtotal Survey and Decontamination Costs	\$1,575	\$2,040	\$1,980	\$1,715	\$1,380	\$1,960	\$0	\$250	\$720
	C.	Disposal at NRC licensed Facility									
		Total Volume (cy)	146	189	183	159	128	181	0	23	56
		Volume for Disposal Assuming 10% Void Space (cy)	160	208	202	175	141	200	0	25	61
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$6.62
		Subtotal NRC Licensed Facility Disposal Costs	\$899	\$1,169	\$1,135	\$984	\$792	\$1,124	\$0	\$141	\$404

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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	Mine Unit-15A	Mine Unit-K	Mine Unit-9
Well House Removal and Disposal Costs per Wellfield		\$3,038	\$3,940	\$3,825	\$3,314	\$2,667	\$3,786	\$0	\$481	\$2,642
<b>Total Well House Removal and Disposal Costs</b>		<b>\$23,693</b>								
<b>VI. Header Houses (Includes Booster Stations)</b>										
Total Quantity		6	5	8	6	5	13	4	5	3
Average Header House Volume (ft <sup>3</sup> )		2700	2700	2700	2700	2700	2700	2700	2700	2700
<b>A. Removal</b>										
Total Volume (ft <sup>3</sup> )		16200	13500	21600	16200	13500	35100	10800	13500	8100
Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )		\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$1.171
Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)		\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$1.02
Subtotal Building Demolition Costs		\$2,407	\$2,006	\$3,209	\$2,407	\$2,006	\$5,215	\$1,605	\$2,006	\$8,241
<b>B. Survey and Decontamination</b>										
Assumptions:										
Cost per Header House		\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$201
Subtotal Survey and Decontamination Costs		\$1,200	\$1,000	\$1,600	\$1,200	\$1,000	\$2,600	\$800	\$1,000	\$603
<b>C. Disposal</b>										
Total Volume (cy)		600	500	800	600	500	1300	400	500	300
Volume for Disposal Assuming 10% Void Space (cy)		660	550	880	660	550	1430	440	550	330
Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$5.44	\$5.44	\$5.44	\$5.44	\$5.44	\$5.44	\$5.44	\$5.44	\$6.44
Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.73	\$4.73	\$4.73	\$4.73	\$4.73	\$4.73	\$4.73	\$4.73	\$5.60
Subtotal On-Site Disposal Costs		\$3,119	\$2,599	\$4,159	\$3,119	\$2,599	\$6,759	\$2,080	\$2,599	\$1,846
Header House Removal and Disposal Costs per Wellfield		\$6,726	\$5,605	\$8,968	\$6,726	\$5,605	\$14,574	\$4,485	\$5,605	\$10,690
<b>Total Header House Removal and Disposal Costs</b>		<b>\$68,984</b>								
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD		\$34,956	\$40,967	\$38,455	\$47,387	\$34,570	\$52,241	\$9,022	\$15,014	\$24,469
<b>TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>		<b>\$337,081</b>								

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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-15A	Mine Unit-K	Mine Unit-9
<b>I. Well Abandonment (Wellfields)</b>											
	# of Production Wells	115	146	145	Wells	124	101	251	60	100	54
	# of Injection Wells	210	262	251	included	219	175	502	120	200	107
	# of Monitoring Wells	49	50	40	under	51	39	105	60	61	80
	Total Number of Wells	374	458	436		394	315	858	240	361	241
	Average Diameter of Casing (inches)	5	5	5		5	5	4.5	4.5	4.5	4.5
	Average Depth (ft)	500	850	750		850	750	450	500	950	950
	Well Abandonment Unit Cost (\$/well)	\$280	\$304	\$297		\$304	\$297	\$277	\$277	\$277	\$304
	Subtotal Abandonment Cost per Wellfield	\$104,814	\$139,095	\$129,492		\$119,658	\$93,555	\$237,580	\$66,456	\$99,961	\$73,192
	<b>Total Wellfield Abandonment Costs</b>	<b>\$1,063,803</b>									
<b>II. Waste Disposal Well Abandonment</b>		<b>DDW#1</b>	<b>DDW#2</b>	<b>SW DDW</b>							
A.	Well Plugging										
	Drill Rig Operation (\$/hr)	150	150	150							
	Number of Hours	31	31	31							
	Drill Rig Operating Costs	\$4,650	\$4,650	\$4,650							
	Cementing Costs	\$7,500	\$7,500	\$7,500							
	Equipment Transport Costs	\$1,000	\$1,000	\$1,000							
	Well Cap Welding Costs	\$1,000	\$1,000	\$1,000							
	Brine Makeup and Injection Costs	\$1,500	\$1,500	\$1,500							
	Subtotal Well Plugging Costs per Well	\$15,650	\$15,650	\$15,650							
B.	Pump Dismantling and Decontamination										
	Number of Persons	2	2	2							
	Number of Pumps	2	2	2							
	Pumps/Day	0.5	0.5	0.5							
	Number of Days	4	4	4							
	\$/Day/Person	\$112	\$112	\$112							
	Subtotal Dismantling and Decon Costs per Well	\$896	\$896	\$896							
C.	Tubing String Disposal (NRC-Licensed Facility)										
	Length of Tubing String (ft)	10100	10100	10100							
	Diameter of Tubing String (inches)	2.875	2.875	2.875							
	Volume of Tubing String (ft <sup>3</sup> )	455	455	455							
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62							
	Subtotal Tubing String Disposal Costs per Well	\$2,558	\$2,558	\$2,558							
	Subtotal Waste Disposal Well Abandonment Costs per Well	\$19,104	\$19,104	\$19,104							
	<b>Total Waste Disposal Well Abandonment Costs</b>	<b>\$38,208</b>									
<b>TOTAL WELL ABANDONMENT COSTS</b>		<b>\$1,102,011</b>									



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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	Mine Unit-15A	Mine Unit-K	Mine Unit-9
<b>I.</b>	<b>Wellfield Pattern Area, Laydown Area, and Road Reclamation</b>											
	Area (acres)		27.1	53.24	38.72	18	31.43	29.6	66.8	1	5	7
	Disking/Seeding Unit Cost (\$/acre)		\$200	\$200	\$200	\$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	\$200	\$1,000	\$1,400
	<b>Total Wellfield Area Reclamation Costs</b>		<b>\$55,578</b>									
<b>III.</b>	<b>Satellite Area Reclamation</b>		<b>SR-1</b>	<b>SR-2</b>								
	<b>Assumptions:</b>											
	Area of Disturbance (acres)		2.05	3								
	Average Depth of Stripped Topsoil (ft)		1	1								
	Surface Grade: Level Ground											
	Average Length of Topsoil Haul (ft)		1000	500								
	A. Ripping Overburden with Dozer											
	Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)		\$663.93	\$663.93								
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)		\$576.83	\$576.83								
	Subtotal Ripping Costs		\$1,182	\$1,730								
	B. Topsoil Application with Scraper											
	Volume of Topsoil Removed (cy)		3307	4840								
	Application 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		\$2,040	\$2,986								
	C. Discing and Seeding											
	Discing/Seeding Unit Cost (\$/acre)		\$200	\$200								
	Subtotal Discing/Seeding Costs		\$410	\$600								
	Subtotal Surface Reclamation Costs per Satellite		\$3,632	\$5,316								
	<b>Total Satellite Building Area Reclamation Costs</b>		<b>\$8,948</b>	<b>\$5,316</b>								
<b>TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS</b>			<b>\$64,526</b>									

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Miscellaneous Reclamation									
<b>I. CPP/Office Area/Pilot Plant/Maint. Shop/Chem. Storage/Yard Reclamation</b>									
	Assumptions								
	Concrete Pad= 0.3 acres								
	Total Area = 10.57 acres								
A.	Concrete Pad								
	Area of Concrete Pad (ft <sup>2</sup> )					13068			
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft <sup>2</sup> )					\$3.17			
	Unit Cost in \$/ft <sup>2</sup> (July 1998 dollars w/o escalator)					\$2.75			
	Average Thickness of Concrete Floor (ft)					0.50			
	Volume of Concrete Floor (ft <sup>3</sup> )					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 <sup>2</sup> )					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			
	<b>Total CPF/Office/Yard Area Reclamation</b>					<b>\$58,818</b>			
<b>II. Access Road Reclamation</b>									
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	20	10	20
	Gravel Road Base Area (acres)					3.56	7.27	3.57	4.85

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<b>Miscellaneous Reclamation</b>										
		Average Road Base Depth (ft)		0.5	0.5	0.5	0.5	0.5	0.5	
		Volume of Road Base (cy)		2874	5862	2881	3911	3148		
		Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)		\$0.71	\$0.71	\$0.71	\$0.71	\$0.71	\$0.71	
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$0.62	\$0.62	\$0.62	\$0.62	\$0.62	\$0.62	
		Subtotal Gravel Road Base Removal Costs		\$1,773	\$3,616	\$1,777	\$2,413	\$1,942		
	C.	Ripping Overburden with Dozer								
		Overburden Surface Area (acres)		4.8	10.9	5.0	7.3	5.9		
		Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)		\$663.93	\$663.93	\$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	\$576.83	\$576.83	
		Subtotal Ripping Overburden Costs		\$2,740	\$6,287	\$2,884	\$4,195	\$3,377		
	D.	Topsoil Application								
		Assumptions								
		Average haul distance (ft)		1500	1500	1500	1500	1500	1500	
		Topsoil Surface Area (ft <sup>2</sup> )		206910	474804	217800	316800	255000		
		Depth of Topsoil (ft)		0.5	0.5	0.5	0.5	0.5	0.5	
		Volume of Topsoil (cy)		3832	8793	4033	5867	4722		
		Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)		\$1.50	\$1.50	\$0.82	\$0.82	\$0.82	\$0.82	
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$1.30	\$1.30	\$0.71	\$0.71	\$0.71	\$0.71	
		Subtotal Topsoil Application Costs		\$4,993	\$11,459	\$2,873	\$4,180	\$3,364		
	E.	Discing/Seeding								
		Assumptions								
		Surface Area (acres)		4.8	10.9	5.0	7.3	5.9		
		Discing/Seeding Unit Cost (\$/acre)		\$200	\$200	\$200	\$200	\$200	\$200	
		Subtotal Discing/Seeding Costs		\$950	\$2,180	\$1,000	\$1,455	\$1,171		
		Subtotal Reclamation Costs per Access Road		\$10,456	\$23,542	\$8,534	\$12,243	\$9,854		
		<b>Total Access Road Reclamation Costs</b>		<b>\$64,629</b>						
	<b>III.</b>	<b>Trunk Lines</b>		<b>Trunk Line #1 (To MU-4)</b>	<b>Trunk Line #2 (To SR-1)</b>	<b>Trunk Line #3 (MU-15 to SR-1)</b>	<b>Trunk Line #4 (O-Sand Pilot)</b>	<b>Trunk Line to SR-2</b>		
		Length of Trench (ft)		7750	8500	21250	5500	2500		
	A.	Removal and Loading								
		Main Pipeline Removal Unit Cost (\$/ft of trench)		\$0.85	\$0.85	\$0.85	\$0.85	\$0.85		
		Subtotal Trunkline Removal and Loading Costs		\$6,588	\$7,225	\$18,063	\$4,675	\$2,125		
	B.	Transport and Disposal Costs (NRC-Licensed Facility)								
		1. 2" HDPE Trunkline								
		Piping Length (ft)		7750	42500	21250	22000	22000		
		Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.005	0.005	0.005	0.005	0.005		
		Chipped Volume (ft <sup>3</sup> )		38.75	212.5	106.25	110	110		
		1. 3" HDPE Trunkline								
		Piping Length (ft)		0	0	0	0	0		
		Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.022	0.022	0.022	0.022	0.022		
		Chipped Volume (ft <sup>3</sup> )		0	0	0	0	0		
		2. 6" HDPE Trunkline								
		Piping Length (ft)		7750	17000	42500	0	0		
		Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.078	0.078	0.078	0.078	0.078		
		Chipped Volume (ft <sup>3</sup> )		604.5	1326	3315	0	0		
		3. 8" HDPE Trunkline								
		Piping Length (ft)		0	0	0	0	0		
		Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.15	0.15	0.15	0.15	0.15		
		Chipped Volume (ft <sup>3</sup> )		0	0	0	0	0		
		3. 10" HDPE Trunkline								
		Piping Length (ft)		0	0	0	0	0		
		Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.277	0.277	0.277	0.277	0.277		
		Chipped Volume (ft <sup>3</sup> )		0	0	0	0	0		

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Miscellaneous Reclamation					
	4.	12" HDPE Trunkline			
		Piping Length (ft)	0	9000	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.293	0.293	0.293
		Chipped Volume (ft <sup>3</sup> )	0	2637	0
	5.	14" HDPE Trunkline			
		Piping Length (ft)	0	0	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.359	0.359	0.359
		Chipped Volume (ft <sup>3</sup> )	0	0	0
	5.	16" HDPE Trunkline			
		Piping Length (ft)	15500	11000	21120
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.4	0.4	0.4
		Chipped Volume (ft <sup>3</sup> )	6200	4400	8448
	6	18" HDPE Trunkline			
		Piping Length (ft)	0	31500	0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)	0.47	0.47	0.47
		Chipped Volume (ft <sup>3</sup> )	0	14805	0
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	6804.5	8363	11763
		Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft <sup>3</sup> )	7485	9199	12939
		Subtotal Pipeline Disposal Costs	\$5.62	\$5.62	\$5.62
	C.	Discing/Seeding	\$42,066	\$51,698	\$72,717
		Assumptions:			
		Width of Pipeline Trench (ft)	4	4	4
		Area of Pipeline Trench (acres)	0.7	0.8	2.0
		Discing/Seeding Unit Cost (\$/acre)	\$200	\$200	\$200
		Subtotal Discing/Seeding Costs	\$142	\$156	\$390
		Subtotal Reclamation Costs per Pipeline	\$48,796	\$59,079	\$91,170
		<b>Total Pipeline Reclamation Costs</b>	<b>\$282,648</b>		
	<b>IV.</b>	<b>Settling Basin/Evap. Pond Reclamation</b>		<b>Evaporation Pond</b>	<b>Settling Pond</b>
	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 materia			
		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 <sup>2</sup> )	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 <sup>3</sup> )	0	0	
		Volume of Geotextile Liner (ft <sup>3</sup> )	50	0	
		Volume of Geotextile Liner @ 40% void (ft <sup>3</sup> )	83	0	
		Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$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			

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<b>Miscellaneous Reclamation</b>									
		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.		<b>Topsoil Application</b>							
		Assumptions:							
		Area of surface disturbance (ff)	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.		<b>Discing/Seeding</b>							
		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					
		<b>Total Settling Basin/Evap. Ponds Reclamation Costs</b>	<b>\$19,007</b>						
V.		<b>Miscellaneous Structures</b>							
A.		<b>Venthole</b>							
		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.		<b>Potable Water Wells</b>							
		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.		<b>Fuel Area</b>							
		Concrete Floor							
		Area of Concrete Floor (ff)	375						
		Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft <sup>2</sup> )	\$3.17						
		Unit Cost in \$/ft <sup>2</sup> (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						
		<b>Total Miscellaneous Structures Reclamation Costs</b>	<b>\$4,838.65</b>						
		<b>TOTAL MISCELLANEOUS RECLAMATION COSTS</b>	<b>\$429,941</b>						

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

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<b>GROUNDWATER SWEEP (GWS)</b>											
<b>Assumptions:</b>											
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										
<b>Wellfield Pumping Costs per 1000 Gallons</b>											
	1000 gal	X	$\frac{5 \text{ hp}}{5 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.03}{\text{kwh}}$	= \$	0.37
<b>Pumping to WDW Costs per 1000 Gallons</b>											
	1000 gal	X	$\frac{75 \text{ hp}}{200 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.03}{\text{kwh}}$	= \$	0.14
<b>Repair and Maintenance Costs per 1000 Gallons</b>										= \$	0.03
<b>Process Sampling and Analysis Costs per 1000 Gallons</b>										= \$	0.03
<b>TOTAL GWS COSTS PER 1000 GALLONS</b>										= \$	<b>0.57</b>

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<b>REVERSE OSMOSIS (RO)</b>									
<b>Assumptions:</b>									
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								
<b>Reverse Osmosis Costs per 1000 Gallons</b>									
	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
<b>TOTAL RO COSTS PER 1000 GALLONS = \$ 1.26</b>									



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

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<b>ELUTION PROCESSING</b>																			
<b>Assumptions:</b>																			
1.	Based on actual operating costs																		
<b>TOTAL PROCESSING COSTS PER ELUTION</b>										<b>= \$</b>	<b>525</b>								

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<b>DEEP WELL INJECTION</b>													
<b>Assumptions:</b>													
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												
<b>Waste Disposal Pumping Costs per 1000 Gallons</b>													
	1000 gal	X	$\frac{75 \text{ hp}}{200 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.03}{\text{kwh}}$	= \$	0.14		
<b>Repair and Maintenance Costs per 1000 Gallons</b>										= \$	1.25		
<b>TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS</b>											<b>= \$</b>	<b>1.39</b>	

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<b>WELL ABANDONMENT</b>									
<b>Assumptions:</b>									
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.									
<b>Well Abandonment Costs</b>									
<u>Fixed Costs</u>									
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
<u>Variable Costs</u> (per 100 ft of well depth)									
Materials									
	1	sack	X	\$ 6.70	per		=	\$	6.70
		plug gel			sack				
		per 100 feet							
<b>Cost per Well per Unit of Average Depth</b>									
<b>Well Depth (ft)</b>									
				450			=	\$	277
				500			=	\$	280
				550			=	\$	284
				600			=	\$	287
				650			=	\$	290
				700			=	\$	294
				750			=	\$	297
				800			=	\$	300
				850			=	\$	304
				900			=	\$	307
				950			=	\$	310

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<b>FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)</b>										
<b>Assumptions:</b>										
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										
<b>MIT Costs per Well</b>										
<b>Equipment:</b>										
Pulling Unit										
0.25	hours	X	\$ 45	per hour						=\$ 11.25
MIT Unit										
1.5	hours	X	\$ 20	per hour						=\$ 30.00
<b>Labor:</b>										
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
<b>MIT COST PER WELL = \$ 71</b>										

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<b>MAIN PIPELINE REMOVAL</b>									
<b>Assumptions:</b>									
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 simultaneously								
8.	Includes removal of manholes								
9.	Operating schedule: 8 hrs/day, 5 days/week								
<b>Main Pipeline Removal Costs per ft of Trench</b>									
<b>Equipment</b>									
<b>Trackhoe</b>									
	\$ 1600		1 week		2 days		=\$ 0.43		
	week	X	5 days	X	1500 ft				
<b>Fuel</b>									
	\$ 9		8 hrs		2 days		=\$ 0.10		
	hour	X	1 day	X	1500 ft				
<b>Labor</b>									
<b>Trackhoe Operation</b>									
	\$ 15		8 man hrs		2 days		=\$ 0.16		
	man hr	X	1 day	X	1500 ft				
<b>Pipeline Extraction</b>									
	\$ 15		16 man hrs		1 day		=\$ 0.16		
	man hr	X	1 day	X	1500 ft				
<b>MAIN PIPELINE REMOVAL COST PER FT OF TRENCH</b>							<b>=\$ 0.85</b>		

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<b>WELLFIELD PIPING REMOVAL</b>									
<b>Assumptions:</b>									
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									
<b>Main Pipeline Removal Costs per ft of Pipe</b>									
<b>Equipment</b>									
<b>Backhoe</b>									
	\$ 750		X	1 week		X	2 days		=\$ 0.10
	week			5 days			3000 ft		
<b>Fuel</b>									
	\$ 9		X	8 hrs		X	2 days		=\$ 0.05
	hour			1 day			3000 ft		
<b>Labor</b>									
<b>Backhoe Operation</b>									
	\$ 15		X	8 man hrs		X	2 days		=\$ 0.08
	man hr			1 day			3000 ft		
<b>Pipeline Extraction</b>									
	\$ 15		X	16 man hrs		X	1 day		=\$ 0.08
	man hr			1 day			3000 ft		
<b>MAIN PIPELINE REMOVAL COST PER FT OF PIPE = \$ 0.31</b>									

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<b>WELLFIELD ROAD RECLAMATION</b>										
<b>Assumptions (Roads constructed before January 1, 1997):</b>										
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										
<b>Gravel Road Base Removal Costs per 1000 ft of Road</b>										
	1000 ft	X	0.25 ft	X	10 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.60}{\text{cy}}$	= \$ 56
<b>Scarification Costs per 1000 ft of Road</b>										
	1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$36.30}{\text{acre}}$	= \$ 21
<b>Grading Costs per 1000 ft of Road</b>										
	1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$38.45}{\text{acre}}$	= \$ 22
<b>Topsoil Application Costs per 1000 ft of Road</b>										
	1000 ft	X	0.67 ft	X	25 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.60}{\text{cy}}$	= \$ 372
<b>Discing/Seeding Costs per 1000 ft of Road</b>										
	1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$200}{\text{acre}}$	= \$ 115
<b>TOTAL WELLFIELD ROAD RECLAMATION COSTS PER</b>										
<b>1000 FT OF ROAD ( BEFORE JANUARY 1, 1997) = \$ 586</b>										
<b>Assumptions (Roads constructed after January 1, 1997):</b>										
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										
<b>Scarification Costs per 1000 ft of Road</b>										
	1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$36.30}{\text{acre}}$	= \$ 17
<b>Grading Costs per 1000 ft of Road</b>										
	1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$38.45}{\text{acre}}$	= \$ 18
<b>Topsoil Application Costs per 1000 ft of Road</b>										
	1000 ft	X	0.40 ft	X	20 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.60}{\text{cy}}$	= \$ 178
<b>Discing/Seeding Costs per 1000 ft of Road</b>										
	1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356\text{E}+04 \text{ ft}^2}$	X		X	$\frac{\$200}{\text{acre}}$	= \$ 92
<b>TOTAL WELLFIELD ROAD RECLAMATION COSTS PER</b>										
<b>1000 FT OF ROAD ( AFTER JANUARY 1, 1997) = \$ 305</b>										



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<b>BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL</b>									
<b>Assumptions:</b>									
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 <sup>3</sup> dumpster or 30-yd <sup>3</sup> dump truck).								
4.	Each shipment contains 30,000 lbs of material.								
		<b>Transportation Cost</b>				<b>Disposal Cost</b>			<b>Total</b>
		\$ 66.67	/yd <sup>3</sup>	+	\$ 85.00	/yd <sup>3</sup>	=	\$ 151.67	/yd <sup>3</sup>
							=	\$ 5.62	/ft <sup>3</sup>

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<b>DISKING/SEEDING</b>									
<b>Assumptions:</b>									
1. Based on actual contractor costs									
<b>TOTAL DISKING/SEEDING COSTS PER ACRE</b>						<b>= \$ 200</b>			

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Abbreviations/Acronyms					
\$	Dollars				
\$/Kgal	Dollars per 1000 gallons				
avg	average				
ft	feet				
ft <sup>2</sup>	square feet				
ft <sup>3</sup>	cubic feet				
gal	gallon				
gpm	gallons per minute				
H&S	Health and Safety				
H <sub>2</sub> S	Hydrogen Sulfide				
H <sub>2</sub> SO <sub>4</sub>	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				
yd <sup>3</sup>	cubic yards				
yr	year				