



POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT  
SURETY ESTIMATE  
FIRST YEAR OF OPERATION

<b>Ground Water Restoration</b>				<b>Mine Unit-1</b>
<b>PV Assumptions</b>				
	Wellfield Area (ft2)			1,050,576
	Wellfield Area (acres)			24.1
	Affected Ore Zone Area (ft2)			1,050,576
	Avg. Completed Thickness			17
	Porosity			0.27
	Flare Factor			1.5
	Affected Volume (ft3)			26,789,688
	Kgallons per Pore Volume			54,104
<b>Number of Patterns in Unit(s)</b>				
	Current			101
	Estimated next report period			0
	Total Estimated			101
<b>Number of Wells in Unit(s)</b>				
<b>Production Wells</b>				
	Current			101
	Estimated next report period			0
	Total Estimated			101
<b>Injection Wells</b>				
	Current			175
	Estimated next report period			0
	Total Estimated			175
<b>Monitoring Wells</b>				
	Current			38
	Estimated next report period			0
	Total Estimated			38
	Number of Wells per Wellfield			314
	Total Number of Wells			
	Average Well Depth (ft)			750
<b>I. Ground Water Sweep Costs</b>				
	PV's Required			1
	Total Kgals for Treatment			54,104
	Ground Water Sweep Unit Cost (\$/Kgal)			\$0.57
	<b>Total Ground Water Sweep Costs</b>			<b>\$30,995</b>
<b>II. Reverse Osmosis Costs</b>				
	PV's Required			5
	Total Kgals for Treatment			270,522
	Reverse Osmosis Unit Cost (\$/Kgal)			\$1.26
	<b>Total Reverse Osmosis Costs</b>			<b>\$341,345</b>
<b>III. Chemical Reductant Costs</b>				
	Total Kgals for Treatment (2 Pore Volumes)			108209
	Chemical Reductant Unit Cost (\$/Kgal)			\$0.29
	<b>Total Chemical Reductant Costs</b>			<b>\$31,381</b>
<b>IV. Elution Costs</b>				
<b>A. Elution Processing Costs</b>				
	Kgals/Elution Required			35,000
	Number of Elutions			9
	Processing Unit Cost (\$/Elution)			\$525
	Subtotal Processing Costs			\$4,725
<b>B. Deep Well Injection Costs</b>				
	Deep Well Injection Volume (Kgals/Elution)			12
	Total Kgals for Injection			108
	Deep Well Injection Unit Cost (\$/Kgals)			\$1.39
	Subtotal Deep Well Injection Costs			\$150
	<b>Total Elution Costs</b>			<b>\$4,875</b>

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Ground Water Restoration				Mine Unit-1
<b>V. Monitoring and Sampling Costs</b>				
A. Active Restoration Period				
	Estimated Restoration Period (Years)			5
	1. UCL Sampling			
		# of Wells		36
		\$/sample		\$20
		Samples/Year		6
	Sub-total Restoration Analyses			\$21,600
B. Stability Period				
	Estimated Stabilization Period (Years)			1
	1. Full Suite Analyses			
		# of Wells		10
		Samples/Year		3
		\$/sample		\$150
	2. Short List Analyses			
		# of Wells		10
		Samples/Year		9
		\$/sample		\$34
	Sub-total Stability Analyses			\$7,560
	<b>Total Monitoring and Sampling Costs</b>			<b>\$29,160</b>
<b>VI. Mechanical Integrity Test (MIT) Costs</b>				
	Five Year MIT Unit Cost (\$/well)			\$71
	Number of Wells (30% of Inj. and Rest. Wells)			53
	<b>Total Mechanical Integrity Testing Cost</b>			<b>\$3,728</b>
<b>TOTAL WELLFIELD RESTORATION COST</b>				<b>\$441,484</b>
<b>VII. Building Utility Costs</b>				<b>Central Plant</b>
	Electricity (\$/Month)			\$8,500
	Natural Gas (\$/Month)			\$2,500
	Number of Months			48
	<b>Total Building Utility Costs</b>			<b>\$528,000</b>
<b>XI. Vehicle Operation Costs</b>				
	Number of Pickup Trucks/Pulling Units (Gas)			5
	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>\$176,021</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			1
	\$/Year			\$28,000
	Number of Operators/Laborers			4
	\$/Year			\$28,000
	Number of Maintenance Technicians			2
	\$/Year			\$28,000
	Number of Years			4
	<b>Total Labor Costs</b>			<b>\$1,224,000</b>
<b>XIII. Capital Costs</b>				
	Purchase RO Unit (800 gpm Unit)			\$60,000
	<b>Total Capital Costs</b>			<b>\$60,000</b>
<b>TOTAL GROUND WATER RESTORATION COSTS</b>				<b>\$2,429,505</b>

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Equipment Removal and Loading				CPP Ion Ex. Plant	Central Plant	Dryer Building
<b>I. Removal and Loading Costs</b>						
A.	Tankage					
	Number of Tanks			13	51	0
	Volume of Tank Construction Material (ft <sup>3</sup> )			835	1340	300
	1. Labor					
	Number of Persons			3	3	3
	Ft <sup>3</sup> /Day			25	25	25
	Number of Days			33	54	12
	\$/Day/Person			\$112	\$112	\$112
	Subtotal Labor Costs			\$11,228	\$18,010	\$4,032
	2. Equipment					
	Number of Days			33	54	12
	\$/Day			\$338	\$338	\$338
	Subtotal Equipment Costs			\$11,295	\$18,117	\$4,056
	Subtotal Tankage Removal and Loading Costs			\$22,523	\$36,127	\$8,088
B.	PVC/Steel Pipe					
	PVC Pipe Footage			2800	5000	
	Average PVC Pipe Diameter (inches)			3	3	3
	Shredded PVC Pipe Volume Reduction (ft <sup>3</sup> /ft)			0.016	0.016	0.016
	Volume of Shredded PVC Pipe (ft <sup>3</sup> )			45	80	0
	Steel Pipe Footage			1100	0	0
	Average Steel Pipe Diameter (inches)			6	0	0
	Volume (ft <sup>3</sup> )			216	0	0
	1. Labor					
	Number of Persons			2	2	2
	Ft/Day			200	200	200
	Number of Days			19.5	25	0
	\$/Day/Person			\$112	\$112	\$112
	Subtotal PVC/Steel Pipe Labor Costs			\$4,368	\$5,600	\$0
	Subtotal PVC/Steel Pipe Removal and Loading Costs			\$4,368	\$5,600	\$0
C.	Pumps					
	Number of Pumps			21	43	0
	Average Volume (ft <sup>3</sup> /pump)			4.93	4.93	0
	Volume of Pumps (ft <sup>3</sup> )			103.53	211.99	0
	1. Labor					
	Number of Persons			1	1	1
	Pumps/Day			2	2	2
	Number of Days			10.5	21.5	0
	\$/Day/Person			\$112	\$112	\$112
	Subtotal Labor Costs			\$1,176	\$2,408	\$0
	Subtotal Pump Removal and Loading Costs			\$1,176	\$2,408	\$0
D.	Dryer					
	Dryer Volume (ft <sup>3</sup> )					200
	1. Labor					
	Number of Persons			0	0	5
	Ft <sup>3</sup> /Day			0	0	175
	Number of Days			0	0	2
	\$/Day/Person			\$112	\$112	\$112
	Total Labor Cost			\$0	\$0	\$1,120
	Total Dryer Dismantling and Loading Cost			\$0	\$0	\$1,120

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<b>Equipment Removal and Loading</b>				<b>CPP Ion Ex. Plant</b>	<b>Central Plant</b>	<b>Dryer Building</b>
Subtotal Equipment Removal and Loading Costs per Facility				\$28,067	\$44,135	\$9,208
<b>Total Equipment Removal and Loading Costs</b>				<b>\$81,410</b>		
<b>II. Transportation and Disposal Costs (NRC-Licensed Facility)</b>						
A.	Tankage					
	Volume of Tank Construction Material (ft <sup>3</sup> )			835	1340	300
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			919	1474	330
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$5.62	\$5.62	\$5.62
	Subtotal Tankage Transportation and Disposal Costs			\$5,165	\$8,284	\$1,855
B.	PVC / Steel Pipe					
	Volume of Shredded PVC Pipe (ft <sup>3</sup> )			44.8	80	0
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			49	88	0
	Volume of Steel Pipe (ft <sup>3</sup> )			296	0	0
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			326	0	0
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$5.62	\$5.62	\$5.62
	Subtotal PVC Pipe Transportation and Disposal Costs			\$2,108	\$495	\$0
C.	Pumps					
	Volume of Pumps (ft <sup>3</sup> )			103.53	271	0
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			114	298	0
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$5.62	\$5.62	\$5.62
	Subtotal Pump Transportation and Disposal Costs			\$641	\$1,675	\$0
D.	Dryer					
	Dryer Volume (ft <sup>3</sup> )			0	0	400
	Volume for Disposal Assuming Dryer Remains Intact (ft <sup>3</sup> )			0	0	400
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$5.62	\$5.62	\$5.62
	Total Dryer Transportation and Disposal Costs			\$0	\$0	\$2,248
Subtotal Equipment Transportation and Disposal Costs per Facility				\$7,914	\$10,454	\$4,103
<b>Total Equipment Transportation and Disposal Costs</b>				<b>\$22,471</b>		
<b>III. Health and Safety Costs</b>						
	Radiation Safety Equipment			\$1,250	\$1,250	\$1,250
<b>Total Health and Safety Costs</b>				<b>\$3,750</b>		
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY				\$37,231	\$55,839	\$14,561
<b>TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>				<b>\$107,631</b>		





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Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-1
<b>I. Wellfield Piping</b>				
Assumptions:				
	Number of Header Houses per Wellfield			5
	Length of Piping per Header House (ft)			2000
	Total Length of Piping (ft)			10000
A. Removal and Loading				
	Wellfield Piping Removal Unit Cost (\$/ft of pipe)			\$0.31
	Subtotal Wellfield Piping Removal and Loading Costs			\$3,100
B. Transport and Disposal Costs (NRC-Licensed Facility)				
	Average Diameter of Piping (inches)			2
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.005
	Chipped Volume per Wellfield (ft <sup>3</sup> )			50
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			55
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$5.62
	Subtotal Wellfield Piping Transport and Disposal Costs			\$309
	Wellfield Piping Costs per Wellfield			\$3,409
C. Capitol Costs				
	PVC Pipe Shredder			\$40,000
	<b>Total Wellfield Piping Costs</b>			<b>\$43,409</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				
A. Pump and Tubing Transportation and Disposal				
	Number of Production Wells			101
	Number of Injection Wells			175
1. Pump Volume				
	Number of Production Wells with Pumps			61
	Average Pump Volume (ft <sup>3</sup> )			1
	Pump Volume per Wellfield (ft <sup>3</sup> )			61
2. Tubing Volume				
Assumptions:				
	Average tubing length/wellfield based on average well depth minus 25 ft			
	Number of Production Wells with Tubing			61
	Number of Injection Wells with Tubing			105
	Average Tubing Length per Well (ft)			725
	Tubing Length per Wellfield (ft)			120350
	Diameter of Production Well Fiberglass Tubing (inches)			2
	Diameter of Injection Well HDPE Tubing (inches)			1.25
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.005
	Chipped Volume per Wellfield (ft <sup>3</sup> )			602
	Volume of Pump and Tubing (ft <sup>3</sup> )			663
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			729
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$5.62



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Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-1
<b>Total Pump and Tubing Costs</b>				<b>\$4,097</b>
<b>III.</b>	<b>Buried Trunkline</b>			
	Assumptions:			
	Length of Trunkline Trench (ft)			2600
A.	Removal and Loading			
	Main Pipeline Removal Unit Cost (\$/ft of trench)			\$0.85
	Subtotal Trunkline Removal and Loading Costs			\$2,210
B.	Transport and Disposal Costs (NRC-Licensed Facility)			
1.	3" HDPE Trunkline			
	Piping Length (ft)			2600
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.022
	Chipped Volume (ft <sup>3</sup> )			57.2
2.	6" HDPE Trunkline			
	Piping Length (ft)			5200
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.078
	Chipped Volume (ft <sup>3</sup> )			405.6
3.	8" HDPE Trunkline			
	Piping Length (ft)			5000
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.15
	Chipped Volume (ft <sup>3</sup> )			750
3.	10" HDPE Trunkline			
	Piping Length (ft)			0
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.277
	Chipped Volume (ft <sup>3</sup> )			0
4.	12" HDPE Trunkline			
	Piping Length (ft)			0
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.293
	Chipped Volume (ft <sup>3</sup> )			0
5.	14" HDPE Trunkline			
	Piping Length (ft)			0
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.359
	Chipped Volume (ft <sup>3</sup> )			0
5.	16" HDPE Trunkline			
	Piping Length (ft)			2600
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.4
	Chipped Volume (ft <sup>3</sup> )			1040
	Total Trunkline Chipped Volume (ft <sup>3</sup> )			2252.8
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )			2478
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$5.62
	Subtotal Trunkline Transport and Disposal Costs			\$13,926

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Wellfield Buildings and Equipment Removal and Disposal						Mine Unit-1
<b>Total Trunkline Decommissioning Costs</b>						<b>\$16,136</b>
<b>IV. Well Houses</b>						
Total Quantity						5
Average Well House Volume (ft <sup>3</sup> )						12.5
A. Removal						
Total Volume (ft <sup>3</sup> )						62.5
Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )						\$0.165
Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)						\$0.14
Subtotal Well House Demolition Costs						\$9
B. Survey and Decontamination						
Assumptions:						
Cost per Well House						\$5
Subtotal Survey and Decontamination Costs						\$25
C. Disposal at NRC licensed Facility						
Total Volume (cy)						2
Volume for Disposal Assuming 10% Void Space (cy)						3
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )						\$5.62
Subtotal NRC Licensed Facility Disposal Costs						\$17
<b>Total Well House Removal and Disposal Costs</b>						<b>\$51</b>
<b>VI. Header Houses</b>						
Total Quantity						5
Average Header House Volume (ft <sup>3</sup> )						2700
A. Removal						
Total Volume (ft <sup>3</sup> )						13500
Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )						\$0.171
Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)						\$0.15
Subtotal Building Demolition Costs						\$2,006
B. Survey and Decontamination						
Assumptions:						
Cost per Header House						\$200
Subtotal Survey and Decontamination Costs						\$1,000
C. Disposal						
Total Volume (cy)						500
Volume for Disposal Assuming 10% Void Space (cy)						550
Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)						\$5.44
Unit Cost in \$/cy (July 1998 dollars w/o escalator)						\$4.73
Subtotal On-Site Disposal Costs						\$2,599
<b>Total Header House Removal and Disposal Costs</b>						<b>\$5,605</b>
<b>TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>						<b>\$69,298</b>

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<b>Well Abandonment</b>					<b>Mine Unit-1</b>
<b>I. Well Abandonment (Wellfields)</b>					
		# of Production Wells			101
		# of Injection Wells			175
		# of Monitoring Wells			38
		Total Number of Wells			314
		Average Diameter of Casing (inches)			5
		Average Depth (ft)			725
		Well Abandonment Unit Cost (\$/well)			\$280
		<b>Total Wellfield Abandonment Costs</b>			<b>\$87,999</b>
<b>II. Waste Disposal Well Abandonment</b>					<b>DDW#1</b>
A.		Unit Cost Per Foot of Depth (Based on Wyoming Oil and Gas Conservation Commission average cost/ft)			\$4.87
B.		Depth of Well (ft)			10000
		<b>Total Waste Disposal Well Abandonment Costs</b>			<b>\$48,700</b>
<b>TOTAL WELL ABANDONMENT COSTS</b>					<b>\$136,699</b>



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Miscellaneous Reclamation						
<b>I. CPP/Office Area/Warehouse/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.I1 (\$/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>					<b>CPP Access Rd.</b>	<b>Access to WF</b>
A.	Assumptions					
	Surface grade					1%
	Length of Road (ft)					7000
						500

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<b>Miscellaneous Reclamation</b>							
	Width of Road (ft)					40	14
	Area of road (acres)					4.75	5
B.	Gravel Road Base Removal						
	Assumptions						
	Average haul distance (ft)					1000	1000
	Gravel Road Base Width (ft)					30	14
	Gravel Road Base Area (acres)					4.82	0.16
	Average Road Base Depth (ft)					0.5	0.5
	Volume of Road Base (cy)					3889	130
	Removal 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 Gravel Road Base Removal Costs					\$2,399	\$80
C.	Ripping Overburden with Dozer						
	Overburden Surface Area (acres)					4.8	5.0
	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 Overburden Costs					\$2,740	\$2,884
D.	Topsoil Application						
	Assumptions						
	Average haul distance (ft)					1500	500
	Topsoil Surface Area (ft <sup>2</sup> )					206910	217800
	Depth of Topsoil (ft)					0.5	0.5
	Volume of Topsoil (cy)					3832	4033
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.50	\$0.82
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)					\$1.30	\$0.71
	Subtotal Topsoil Application Costs					\$4,993	\$2,873
E.	Discing/Seeding						
	Assumptions						
	Surface Area (acres)					4.8	5.0
	Discing/Seeding Unit Cost (\$/acre)					\$200	\$200
	Subtotal Discing/Seeding Costs					\$950	\$1,000
	Subtotal Reclamation Costs per Access Road					\$11,082	\$6,837
	<b>Total Access Road Reclamation Costs</b>					<b>\$17,919</b>	
<b>III.</b>	<b>Trunk Lines #1 and #2</b>						<b>Trunk Line #1 (To MU-1)</b>
	Length of Trench (ft)					4000	
A.	Removal and Loading						
	Main Pipeline Removal Unit Cost (\$/ft of trench)					\$0.85	
	Subtotal Trunkline Removal and Loading Costs					\$3,400	
B.	Transport and Disposal Costs (NRC-Licensed Facility)						
	1. 3" HDPE Trunkline						
	Piping Length (ft)					4000	
	Chipped Volume Reduction (ft <sup>3</sup> /ft)					0.022	
	Chipped Volume (ft <sup>3</sup> )					88	
	2. 6" HDPE Trunkline						
	Piping Length (ft)					8000	
	Chipped Volume Reduction (ft <sup>3</sup> /ft)					0.078	
	Chipped Volume (ft <sup>3</sup> )					624	

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<b>Miscellaneous Reclamation</b>						
	3.	8" HDPE Trunkline				
		Piping Length (ft)				0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.15
		Chipped Volume (ft <sup>3</sup> )				0
	3.	10" HDPE Trunkline				
		Piping Length (ft)				0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.277
		Chipped Volume (ft <sup>3</sup> )				0
	4.	12" HDPE Trunkline				
		Piping Length (ft)				0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.293
		Chipped Volume (ft <sup>3</sup> )				0
	5.	14" HDPE Trunkline				
		Piping Length (ft)				0
		Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.359
		Chipped Volume (ft <sup>3</sup> )				0
	5.	16" HDPE Trunkline				
		Piping Length (ft)				4000
		Chipped Volume Reduction (ft <sup>3</sup> /ft)				0.4
		Chipped Volume (ft <sup>3</sup> )				1600
		Total Trunkline Chipped Volume (ft <sup>3</sup> )				2312
		Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )				2543
		Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft <sup>3</sup> )				\$5.62
		Subtotal Pipeline Disposal Costs				\$14,292
	C.	Discing/Seeding				
		Assumptions:				
		Width of Pipeline Trench (ft)				4
		Area of Pipeline Trench (acres)				0.4
		Discing/Seeding Unit Cost (\$/acre)				\$200
		Subtotal Discing/Seeding Costs				\$73
		Subtotal Reclamation Costs per Pipeline				\$17,765
		<b>Total Pipeline Reclamation Costs</b>				<b>\$17,765</b>
	<b>IV.</b>	<b>Settling Basin/Evap. Pond Reclamation</b>				<b>Evaporation Pond</b>
	A.	Soil Sampling and Monitoring				
		Number of Soil Samples				10
		\$/Sample				\$60
		Subtotal Soil Sampling and Monitoring Costs				\$600
	B.	Liner/Subsoil Removal and Disposal				
		Removal and Loading Unit Cost based on engineer's design report and Cat Performance Handbook				
		Width of Pond (ft)				112
		Length of Pond (ft)				487
		Depth of Pond (ft)				10
		Surface area of pond (ft <sup>2</sup> )				54544
		Surface area of both ponds (ft <sup>2</sup> )				109088
	1.	Removal and Loading				
		Volume of Geotextile Liner (cy)				272.72
		GeotextileLiner Removal and Loading Unit Cost (\$/cy)				\$3

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<b>Miscellaneous Reclamation</b>							
			Liner Removal and Loading Costs				\$818
			PVC Pipe Footage				920
			Average PVC Pipe Diameter (inches)				3
			PVC Pipe Removal Costs (base on previous estimates for piping removal)				\$1,008
			Subtotal Removal and Loading Costs				\$1,826
	2.		Transportation and Disposal				
			Volume of Geotextile Liner (ft <sup>3</sup> )				272.72
			Volume of Geotextile Liner @ 40% void (ft <sup>3</sup> )				455
			Shredded PVC Pipe Volume Reduction (ft <sup>3</sup> /ft)				0.016
			Volume of Shredded PVC Pipe (ft <sup>3</sup> )				15
			Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )				\$5.62
			Subtotal Transportation and Disposal Costs				\$2,637
			Subtotal Liner Removal and Disposal Costs				\$4,463
	C.		Grade and Contour				
			Volume of Embankment Material (CY)				16,900
			Average Grade (%)				0
			Distance (ft)				100
			Material Moving Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)				\$0.092
			Unit Cost in \$/cy (July 1998 dollars w/o escalator)				\$0.08
			Subtotal Grade and Contour Costs				\$1,351
	C.		Topsoil Application				
			Assumptions:				
			Area of surface disturbance (ft <sup>2</sup> )				115000
			Average thickness of topsoil (ft)				1
			Average haul distance (ft)				1000
			Surface grade (%)				0%
			Volume of Topsoil (cy)				4,259
			Topsoil 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				\$2,627
	D.		Discing/Seeding				
			Assumptions:				
			Area of surface disturbance (acres)				2.6
			Discing/Seeding Unit Cost (\$/acre)				\$200
			Subtotal Discing/Seeding Costs				\$520
			<b>Total Settling Basin/Evap. Ponds Reclamation Costs</b>				<b>\$9,561</b>
	V.		<b>Miscellaneous Structures</b>				
	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 <sup>2</sup> )				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



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<b>Miscellaneous Reclamation</b>							
		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>\$2,938</b>
<b>I. Wellfield Pattern Area, Laydown Area, and Road Reclamation</b>							
		Area (acres)					29.6
		Disking/Seeding Unit Cost (\$/acre)					\$200
		Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs					\$5,920
		<b>Total Wellfield Area Reclamation Costs</b>					<b>\$5,920</b>
<b>TOTAL MISCELLANEOUS RECLAMATION COSTS</b>							<b>\$112,920</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</b>						<b>= \$</b>	<b>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>= \$ 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	75 hp	X	1 hr	X	0.746 kwh	X	\$ 0.03	= \$ 0.14
		200 gpm		60 min		hp		kwh	
<b>Repair and Maintenance Costs per 1000 Gallons</b>									= \$ 1.25
<b>TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS</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 plug gel	X	\$ 6.70	per	=\$	6.70			
	per 100 feet			sack					
<b>Cost per Well per Unit of Average Depth</b>									
<b>Well Depth (ft)</b>									
				<b>450</b>			<b>=\$ 277</b>		
				<b>500</b>			<b>=\$ 280</b>		
				<b>550</b>			<b>=\$ 284</b>		
				<b>600</b>			<b>=\$ 287</b>		
				<b>650</b>			<b>=\$ 290</b>		
				<b>700</b>			<b>=\$ 294</b>		
				<b>750</b>			<b>=\$ 297</b>		
				<b>800</b>			<b>=\$ 300</b>		
				<b>850</b>			<b>=\$ 304</b>		
				<b>900</b>			<b>=\$ 307</b>		
				<b>950</b>			<b>=\$ 310</b>		



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FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)									
<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	X	1 week	X	2 days	=\$ 0.43			
	week		5 days		1500 ft				
<b>Fuel</b>									
	\$ 9	X	8 hrs	X	2 days	=\$ 0.10			
	hour		1 day		1500 ft				
<b>Labor</b>									
<b>Trackhoe Operation</b>									
	\$ 15	X	8 man hrs	X	2 days	=\$ 0.16			
	man hr		1 day		1500 ft				
<b>Pipeline Extraction</b>									
	\$ 15	X	16 man hrs	X	1 day	=\$ 0.16			
	man hr		1 day		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</b>						<b>= \$ 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									
Gravel Road Base Removal Costs per 1000 ft of Road									
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
Scarification Costs per 1000 ft of Road									
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
Grading Costs per 1000 ft of Road									
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
Topsoil Application Costs per 1000 ft of Road									
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
Discing/Seeding Costs per 1000 ft of Road									
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)</b>									<b>= \$ 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									
Scarification Costs per 1000 ft of Road									
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
Grading Costs per 1000 ft of Road									
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
Topsoil Application Costs per 1000 ft of Road									
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
Discing/Seeding Costs per 1000 ft of Road									
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)</b>									<b>= \$ 305</b>

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BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL									
<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>= \$</b>	<b>200</b>

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<b>Abbreviations/Acronyms</b>	
\$	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