



March 31, 2008

ATTN: Deputy Director
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
Mail stop T7 E-18
U.S Nuclear Regulatory Commission
11545 Rockville Pike, Two White Flint North
Rockville, MD 20852-2738

RE: Smith Ranch-Highland Operations
NRC License SUA-1548 (TAC J00514)
Request for Additional Information, Reynolds Surety Estimate

Dear Mr. Mandeville:

In your letter dated February 15, 2008 the NRC requested additional information and clarification regarding the items identified in your correspondence for the Reynolds Ranch surety estimate. Power Resources dba Cameco Resources has reviewed the seven items (comments) and provided responses for each below. These responses pertain only to the Reynolds Ranch amendment area, the Smith Ranch - Highland Uranium Project comment response will follow shortly in a separate correspondence.

Because some of the responses directly affected the previously submitted Reynolds Ranch surety estimate, Cameco Resource has enclosed an updated electronic file of the updated surety estimate for your review.

Comment 1:

The Reynolds Ranch surety estimate is not affected by the potential for impacted soils associated with liquid releases from the headerhouses due to design standards for headerhouses in the proposed Reynolds Ranch. Headerhouse design standards for all mine units now require concrete basements (walls and floor) in each headerhouse. Underground mine unit pipes serving the headerhouse utilize special "Link-Seals" to ensure a impermeable barrier between the concrete wall and piping.

A wet sump with alarm is incorporated into the design standard. The purpose of the sump and alarm is to shut down the headerhouse should aqueous liquid be detected in the sump

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After restoration is complete, the concrete floor and walls will be surveyed, decontaminated if necessary, and the concrete properly disposed during decommissioning.

The volume estimate per headerhouse under WF BLDGS K129 was increased to account for the additional concrete removal. No soils are expected to be impacted from potential leaks inside the headerhouses.

Comment 2:

The attached north-south Reynolds Ranch Cross-Section demonstrates a continuous confining strata of low permeable shale averaging 60' from surface. The average potentiometric surface at Reynolds Ranch is 300'.

Comment 3:

The surety estimate of \$20,000 for spare well replacement parts cost is derived from actual annual well replacement parts based previous operating years. Based on historical usage of replacement parts the majority of replacement parts are well pumps. The annual estimated of \$20,000 cost is based upon well replacement parts purchased over the years. The replacement cost has been incorporated into GW REST J100 of the surety estimate calculation spreadsheet. In addition to the annual replacement cost, Cameco Resources has committed to replacing all production and injections well head "wet" fittings (all plastic and metal fittings, hoses, caps, etc.) with new equipment every five years. A cost of \$185 per well been added to the UC-MIT section in the spreadsheet. This additional cost has been incorporated into the MIT section due to the 5-year replacement interval coinciding with the 5-year MIT test.

Comment 4:

Cameco Resources has recently determined 5 Pore Volumes (PV) utilizing bioremediation and a new restoration technology is sufficient to restore mine units for the Reynolds Ranch area. The Christensen Ranch In-situ uranium mine north of the Reynolds Ranch area only required 5.2 PV's to successfully restore MU-6. This restoration was completed using hydrogen sulfide as a reductant. Cameco Resources believes bioremediation is more effective restoration technology than standard reductants utilized previously.

Fewer PV's are anticipated for future restoration than what has historically been documented. PV totals in the past at the Smith Ranch-Highland Operation are misleading due to the fact the previous restoration was always commingled with low-level production of the mine units, thus accounting for higher PV's during "restoration periods".

Low level production while commingled with restoration means only a portion (<40%) of the production fluid (after leaving the ion exchange column) enters the Reverse Osmosis (RO) unit. The remaining fluid never enters the RO unit and is recycled back into the mine unit as injection fluid. With closure of the facility very limited production will occur thus allowing for increased throughput through the RO units.

Cameco Resources believes 5 pore volumes (1 sweep, 4 RO with 2 bioremediation) is sufficient to restore a mine unit if 100% of the restoration water is sent through the RO unit resulting in cleaner injection fluids being incorporated back into the mine unit. For bonding purposes the calculations assume no production will take place other than what is recovered from the IX columns.

Comment 5:

Cameco Resources has revised the Groundwater Restoration Worksheet to reflect a total of 5 pore volumes (1 sweep, 4 reverse osmosis with bioremediation) for Mine Unit 27 in the Reynolds Ranch amendment area. The calculated restoration and stability period for this area totals 3.5 years, however 4 years was used for the surety estimate. The Reynolds Ranch will utilize a dedicated deep disposal well with the permitted limit of 150 gallons per minute (gpm). The disposal capacity exceeds the RO bleed rate of approximately 50 gpm.

The Reynolds Ranch surety estimate has been revised to reflect the change from a 2.0 to 5-year restoration schedule.

Comment 6:

1. The conversion factor for kilowatt to horsepower has been addressed and reference on the Recurring Costs Basis Worksheet.
2. The REY Satellite, Central Plant, and Main Facility utility costs are derived from actual operating costs during the 2007 operating year. The REY Satellite (not constructed) assumes operating costs are similar to currently operating Satellites which are similar in design and throughput.
3. The cost for the Environmental Manager, Environmental Technician, and Maintenance Technician are based on Cameco Resources current labor rates for the referenced positions.
4. The Elution Unit Chemical Cost was adjusted slightly, from \$900 to \$1,198. This change was based on actual operating cost for the months of January and February 2008. Section UC-ELUT was updated to reflect this change.
5. The Restoration Spare Parts cost was incorporated into section GW REST cell J100.

Comment 7:

Cameco Resources concurs with the NRC comments pertaining to the Radiation Survey following reclamation. The surety estimate has been revised to incorporate a radiation survey for Mine Unit 27 and associated structures (satellite, disposal well, etc.) within the Reynolds Ranch area. Based on recently completed radiation surveys for other Mine Units, the costs for a radiation survey is \$432 per acre. The Reynolds Ranch disturbance area will be approximately 44.1 acres, The calculated costs for Reynolds Ranch radiation survey is \$19,051. This amount has been added to section GW REST J92 of the revised surety estimate calculation for the Reynolds Ranch area.

If you have any questions, please contact me at (307) 358-6541, ext. 46.

Sincerely,

A handwritten signature in black ink, appearing to read "John McCarthy". The signature is fluid and cursive, with the first name "John" being the most prominent.

John McCarthy
Manager-Environmental Health & Safety

Enclosure

Cc: S. Magnuson
L. Spackman WDEQ/LQD

C. Foldenauer
File SR 4.3.3.1

S. Bakken

CAMECO RESOURCES INC SMITH RANCH URANIUM PROJECT REYNOLDS RANCH
SURETY ESTIMATE REVISION

Total Restoration and Reclamation Cost Estimate		
I.	GROUNDWATER RESTORATION COST	\$3,649,690
II.	EQUIPMENT REMOVAL & DISPOSAL COST	\$31,347
III.	BUILDING DEMOLITION AND DISPOSAL COST	\$179,464
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST	\$87,329
V.	WELL ABANDONMENT COST	\$406,526
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION COST	\$46,518
VII.	TOTAL MISCELLANEOUS RECLAMATION COST	\$225,203
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE	\$4,626,077
	CPI ESCALATOR JULY 1, 2007 TO NOV 2007 = 0.90%	\$41,635
	SUBTOTAL	\$4,667,712
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)	\$1,166,928
	TOTAL	\$5,834,640
	TOTAL CALCULATED SURETY (IN 2008 DOLLARS)	\$5,834,600

RECURRING COST

	Item	Amount (\$)	Units	Cost Basis
ELECTRICAL				
	Power Cost (current actual costs)	\$0.051	kw/hr	<i>Cost of electricity from current contract - Pacific Power and Light</i>
	Kilowatt to Horsepower	\$0.746	kw/hp	Conversion obtained from Unicon Engineering Software
	Horsepower per gpm	\$0.167	hp/gpm	
	Per 1000 gallons pumped	\$0.600	per 1000 gal	
	Cost per Month REY Sat 1 (Nat. gas, elec.)	\$6,316	unit	Cost based on 2007 monthly average
	Cost per Month Central Plant (Nat. gas, elec.)	\$5,657	unit	Cost based on 2007 monthly average and facility operating 25% of the time
	Cost per Month (Main Office)	\$1,846	unit	Cost based on 2007 monthly average
LABOR RATES				
	Operator	\$136.34	day	<i>Labor costs from current in-field charges paid by PRI</i>
	Environmental Manager	\$100,000	year	<i>Labor Management costs from current in-field charges paid by PRI</i>
	Environmental Technician	\$80,000	year	<i>Labor Technician costs from current in-field charges paid by PRI</i>
	Maintenance Technician	\$34,000	year	<i>Labor costs from current in-field charges paid by PRI</i>
CHEMICAL				
	Reductant	\$0.30	per 1000 lb	<i>Chemical costs from current PRI vendor purchase agreements</i>
	Cement	\$7.62	sack	
	Plug Gel	\$6.45	sack	
	Hydrochloric Acid	\$0.1375	lb	
	Elution Unit Chemical Cost	\$1,198	unit	<i>Based on Jan and Feb 2008 actual elution costs</i>
ANALYTICAL				
	Guideline 8	\$200	batch	<i>Analytical costs from current contract with Energy Labs, Casper, Wyoming</i>
	6 Parameters	\$70	batch	
	Other In-House (Radon, Biological, Soils, etc.)	\$50	batch	<i>In-house estimate for material and labor</i>
SPARE PARTS				
	Restoration Spare Parts	\$20,000	year	<i>Costs for spare parts from operator experience, mainly pump motor repair/replacement</i>
TRANSPORTATION AND DISPOSAL				
	11 (e)(2) Material Transport	\$1.33	cubic yard	<i>Costs for Transportation and disposal from current contracts with NRC Licensed Facility & contract trucker</i>
	11 (e)(2) Material Disposal	\$11.00	cubic yard	
	Soil/Solid Waste Transport (11(e) (2)	\$1.33	cubic yard	<i>Costs for Transportation and disposal from current contracts with NRC Licensed Facility & contract trucker</i>
	Soil/Solid Waste Disposal (11(e) (2)	\$3.70	cubic yard	
	Soil/Solid Waste (non-contam., on-site)	\$1.25	cubic yard	<i>In-house estimate based on material cost and labor</i>
VEHICLE OPERATION				
	Unit Cost	\$20.21	unit	<i>Cost per WDEQ Guideline 12</i>
PLANT DISMANTLING				
	Concrete Footer Demolition	\$12.22	cubic foot	<i>Costs per WDEQ Guideline 12, App. K</i>
	Concrete Floor Demolition	\$3.40	cubic foot	
PLANT DECONTAMINATION AND DISPOSAL				
	Direct Disposal Plant Floor	\$1.25	cubic yard	<i>Costs for Transportation and disposal from current contracts with NRC Licensed Facility</i>
	Solution (HCL) Application Rate	\$0.57	square foot	<i>In-house estimate based on actual material cost</i>
PIPE REMOVAL				
	2-inch SDR 13.5 inj. & prod. Removal	\$0.91	foot	<i>Costs for pipe removal from operator experience</i>
	Trunkline Removal	\$0.43	foot	<i>Includes labor and equipment</i>

RECURRING COST

	Item	Amount (\$)	Units	Cost Basis
EQUIPMENT				
	Cat Trackhoe	\$1,125	week	<i>Costs for equipment rental from Wyoming Machinery, Casper, Wyoming. All inclusive (labor, repairs, fuel, and Mob)</i>
	Shredder	\$50,000		<i>Equipment owned by PRI</i>
	Cat Motor Grader	\$814.22	acre	<i>Costs per WDEQ Guideline 12, App. 11</i>
	Drill Rig	\$110.00	hour	<i>Costs for equipment from operator experience</i>
	Hose Reel	\$45.00	hour	<i>Costs for equipment from operator experience</i>
	Cementor	\$45.00	hour	<i>Costs for equipment from operator experience</i>
	Dozer	\$814.22	acre	<i>Costs per WDEQ Guideline 12, App. 11</i>
	Scraper	\$814.22	acre	<i>Costs per WDEQ Guideline 12, App. 11</i>
	Pulling Reel	\$45.00	hour	<i>Costs for equipment from operator experience</i>
	Manlift	\$8,900.00	month	<i>Costs for equipment from operator experience</i>
	Belly Dump	\$100.00	hour	<i>Costs for equipment from operator experience</i>
RECLAMATION				
	Discing and Seeding	\$280	acre	<i>Operator Experience based on Current Contractor Pricing</i>
	Top Soil Application	\$0.71	acre	<i>Costs per WDEQ Guideline 12, App. 11</i>
MIT				
	Mechanical Integrity Testing	\$373.13	well	<i>Operator Experience based on Current Contractor Pricing</i>

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Ground Water Restoration		Mine Unit-27
PV Assumptions		
Wellfield Area (ft2) (HH x 20 patterns x 10,000)		1,923,061
Wellfield Area (acres)		44.1
Affected Ore Zone Area (ft2)		1,923,061
Avg. Completed Thickness		20
Porosity		0.27
Flare Factor		1.7
Affected Volume (ft3)		65,384,074
Kgallons per Pore Volume		132,050
Number of Patterns in Unit(s)		
Current		205
Estimated next report period		0
Total Estimated		205
Number of Wells in Unit(s)		
Production Wells		
Current		205
Estimated next report period		0
Total Estimated		205
Injection Wells		
Current		572
Estimated next report period		0
Total Estimated		572
Monitoring Wells		
Current		85
Estimated next report period		0
Total Estimated		85
Number of Wells per Wellfield		862
Total Number of Wells		862
Average Well Depth (ft)		860
I. Ground Water Sweep Costs		
PV's Required		1
Total Kgals for Treatment		132,050
Ground Water Sweep Unit Cost (\$/Kgal)		\$1.40
Subtotal Ground Water Sweep Costs per Wellfield		\$185,119
Total Ground Water Sweep Costs		\$185,119
II. Reverse Osmosis Costs		
PV's Required		4
Total Kgals for Treatment		528,199
Reverse Osmosis Unit Cost (\$/Kgal)		\$0.96
Subtotal Reverse Osmosis Costs per Wellfield		\$504,882
Total Reverse Osmosis Costs		\$504,882
III. Chemical Reductant Costs		
Total Kgals for Treatment (2 Pore Volumes)		264099
Chemical Reductant Unit Cost (\$/Kgal)		\$0.30
Subtotal Chemical Reductant Costs per Wellfield		\$79,230
Total Chemical Reductant Costs		\$79,230

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Ground Water Restoration		Mine Unit-27
IV. Elution Costs		
A. Elution Processing Costs		
Kgals/Elution Required		35,000
Number of Elutions		19
Processing Unit Cost (\$/Elution)		\$1,198
Subtotal Processing Costs per Wellfield		\$22,762
	Total Elution Costs	\$22,762
B. Deep Well Injection Costs		
Deep Well Injection Volume (Kgals/Elution)		12
Total Kgals for Injection		228
Deep Well Injection Unit Cost (\$/Kgals)		\$1.45
Subtotal Deep Well Injection Costs		\$331
Subtotal Well Injection Costs per Wellfield		\$23,093
	Total Well Injection	\$23,093
	Total : Elution & Deep Well	\$45,855
V. Monitoring and Sampling Costs		
A. Active Restoration Period		
Estimated Restoration Period (Years)		4
1. UCL Sampling		
# of Wells		85
\$/sample	FALSE	
Samples/Year		6
Sub-total Restoration Analyses		\$0
B. Stability Period		
Estimated Stabilization Period (Years)		0.5
1. Full Suite Analyses (Guideline 8)		
# of Wells		40
Samples/Year		3
\$/sample		\$200
2. Short List Analyses		
# of Wells		40
Samples/Year		9
\$/sample		\$70
Sub-total Stability Analyses		\$24,600
Subtotal Monitoring and Sampling Costs per Wellfield		\$43,651
Radiation Survey		\$19,051
Total Monitoring and Sampling Costs		\$43,651
VI. Mechanical Integrity Test (MIT) Costs		
Five Year MIT Unit Cost (\$/well)		\$373
Number of Wells (30% of Inj. and Rest. Wells)		172
Subtotal Mechanical Integrity Testing Costs per Wellfield		\$64,035
Total Mechanical Integrity Testing Cost		\$64,035
Wellfield Replacement Parts (pumps, motors, etc)		\$20,000
TOTAL RESTORATION COSTS PER WELLFIELD		\$920,010
TOTAL WELLFIELD RESTORATION COST		\$920,010
VII. Building Utility Costs		RR-1
Electricity (\$/Month)		\$6,316
Number of Months		30

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Ground Water Restoration		Mine Unit-27												
Subtotal Utility Costs per Building		\$189,480												
Total Building Utility Costs		\$189,480												
VIII. Vehicle Operation Costs														
Number of Pickup Trucks/Pulling Units (Gas)		5												
Unit Cost in \$/hr (WDEQ Guideline No.12, Table D-1)		\$20.21												
Average Operating Time (Hrs/Year)		1000												
Total Number of Years (Average)		4												
Total Vehicle Operation Costs		\$404,200												
IX. Labor Costs														
Number of Environmental Managers/RSOs		1												
\$/Year MV		\$100,000												
Number of Restoration Managers		1												
\$/Year MV		\$80,000												
Number of Environmental Technicians		1												
\$/Year MV		\$34,000												
Number of Operators/Laborers		4												
\$/Year MV		\$34,000												
Number of Maintenance Technicians		1												
\$/Year MV		\$34,000												
Number of Years		4												
Total Labor Costs		\$1,536,000												
IX. Capital Costs														
Purchase RO Units (1X800 gpm Units)		\$600,000												
Total Capital Costs		\$600,000												
TOTAL GROUND WATER RESTORATION COSTS		\$3,649,690												

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Equipment Removal and Loading		Satellite RR-1
I. Removal and Loading Costs		
A. Tankage		
Number of Tanks		10
Volume of Tank Construction Material (ft ³)		397
1. Labor		
Number of Persons		3
Ft ³ /Day		25
Number of Days		16
\$/Day/Person		\$136
Subtotal Labor Costs		\$6,544
2. Equipment		
Number of Days		16
\$/Day		\$338
Subtotal Equipment Costs		\$5,408
Subtotal Tankage Removal and Loading Costs		\$11,952
B. PVC/Steel Pipe		
PVC Pipe Footage		4000
Average PVC Pipe Diameter (inches)		3
Shredded PVC Pipe Volume Reduction (ft ³ /ft)		0.016
Volume of Shredded PVC Pipe (ft ³)		64
Steel Pipe Footage		0
Average Steel Pipe Diameter (inches)		0
Volume (ft ³)		0
1. Labor		
Number of Persons		2
Ft ³ /Day		300
Number of Days		13
\$/Day/Person		\$136
Subtotal PVC/Steel Pipe Labor Costs		\$3,545
Subtotal PVC/Steel Pipe Removal and Loading Costs		\$3,545
C. Pumps		
Number of Pumps		13
Average Volume (ft ³ /pump)		4.93
Volume of Pumps (ft ³)		64.09
1. Labor		
Number of Persons		1
Pumps/Day		2
Number of Days		7
\$/Day/Person		\$136
Subtotal Labor Costs		\$954
Subtotal Pump Removal and Loading Costs		\$954
D. Dryer		
Dryer Volume (ft ³)		
1. Labor		
Number of Persons		0
Ft ³ /Day		0
Number of Days		0
\$/Day/Person		\$136
Total Labor Cost		\$0
Total Dryer Dismantling and Loading Cost		\$0
Subtotal Equipment Removal and Loading Costs per Facility		\$22,995
Total Equipment Removal and Loading Costs		
II. Transportation and Disposal Costs (NRC-Licensed Facility)		
A. Tankage		
Volume of Tank Construction Material (ft ³)		397
Volume for Disposal Assuming 10% Void Space (ft ³)		436
Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33
Subtotal Tankage Transportation and Disposal Costs		\$5,376
B. PVC / Steel Pipe		
Volume of Shredded PVC Pipe (ft ³)		64
Volume for Disposal Assuming 10% Void Space (ft ³)		70
Volume of Steel Pipe (ft ³)		0
Volume for Disposal Assuming 10% Void Space (ft ³)		0
Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33
Subtotal PVC Pipe Transportation and Disposal Costs		\$863
C. Pumps		
Volume of Pumps (ft ³)		64
Volume for Disposal Assuming 10% Void Space (ft ³)		70
Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33
Subtotal Pump Transportation and Disposal Costs		\$863
D. Dryer		
Dryer Volume (ft ³)		0
Volume for Disposal Assuming Dryer Remains Intact (ft ³)		0
Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33
Total Dryer Transportation and Disposal Costs		\$0
Subtotal Equipment Transportation and Disposal Costs per Facility		\$7,102
Total Equipment Transportation and Disposal Costs		
III. Health and Safety Costs		
Radiation Safety Equipment		\$1,250
Total Health and Safety Costs		1250
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY		
		\$31,347
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS		
		\$31,347

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

		REY DW #1	Satellite
Building Demolition and Disposal		Buildings	REY-1
I. Decontamination Costs			
A.	Wall Decontamination		
	Area to be Decontaminated (ft ²)	0	0
	HCl Acid Wash, including labor (\$/ft ²)	\$0.59	\$0.59
	Subtotal Wall Decontamination Costs	\$0	\$0
B.	Concrete Floor Decontamination		
	Area to be Decontaminated (ft ²)	0	9000
	HCl Acid Wash, including labor (\$/ft ²)	\$0.21	\$0.21
	Subtotal Concrete Floor Decontamination Costs	\$0	\$1,873
C.	Deep Well Injection Costs		
	Total Kgals for Injection	0	9
	Deep Well Injection Unit Cost (\$/Kgals)	\$1.45	\$1.45
	Subtotal Deep Well Injection Costs	\$0	\$13
	Subtotal Decontamination Costs per Building	\$0	\$1,886
	Total Decontamination Costs		
II. Demolition Costs			
A.	Building		
	Assumptions:		
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment		
	Volume of Building (ft ³)	660.3	402,000
	Demolition Unit Cost per WDEQ Guideline No. 12, App.K (\$/ft ³)	\$0.178	\$0.178
	Subtotal Building Demolition Costs	\$118	\$71,556
B.	Concrete Floor		
	Area of Concrete Floor (ft ²)	0	13400
	Demolition Unit Cost per WDEQ Guideline No. 12, App.K (\$/ft ²)	\$3.17	\$3.05
	Subtotal Concrete Floor Demolition Costs	\$0	\$40,870
C.	Concrete Footing		
	Length of Concrete Footing (ft)	0	463
	Demolition Unit Cost per WDEQ Guideline No. 12, App.K (\$/ft ³)	\$12.22	\$12.22
	Subtotal Concrete Footing Demolition Costs	\$0	\$5,658
	Subtotal Demolition Costs per Building	\$118	\$118,084
	Total Demolition Costs		
III. Disposal Costs			
A.	Building		
	Volume of Building (cy)	24	14889
	1. On-Site		
	Assumptions:		
	On-site disposal cost of \$1.25/cy		
	Percentage (%)	100	100
	Volume for Disposal (cubic yards)	24	14889
	Disposal Unit Cost (\$/cy)	\$1.25	\$1.25
	Subtotal On-Site Disposal Costs	\$31	\$18,611

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

		REY DW #1	Satellite
Building Demolition and Disposal		Buildings	REY-1
2.	NRC-Licensed Facility		
	Percentage (%)	0	0
	Volume for Disposal (ft ³)	0	0
	Volume for Disposal Assuming 10% Void Space (ft ³)	0	0
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.33	\$12.33
	Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$0
	Subtotal Building Disposal Costs	\$31	\$18,611
B.	Concrete Floor		
	Area of Concrete Floor (ft ²)	0	13400
	Average Thickness of Concrete Floor (ft)	0.75	0.75
	Volume of Concrete Floor (ft ³)	0	10050
	Volume of Concrete Floor (cy)	0	372
1.	On-Site		
	Percentage (%)	0	75
	Volume for Disposal (cy)	0	279
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$6.39	\$6.39
	Subtotal On-Site Disposal Costs	\$0	\$1,784
2.	NRC-Licensed Facility		
	Assumptions:		
	Additional \$2.60/cy for segregation of concrete		
	Percentage (%)	0	25
	Volume for Disposal (ft ³)	0	2513
	Segregation and Loading Unit Cost (\$/ft ³)	\$2.60	\$2.60
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.33	\$12.33
	Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$37,512
	Subtotal Concrete Floor Disposal Costs	\$0	\$39,296
C.	Concrete Footing		
	Length of Concrete Footing (ft)	0	463
	Average Depth of Concrete Footing (ft)	4	4
	Average Width of Concrete Footing (ft)	1	1
	Volume of Concrete Footing (ft ³)	0	1852
	Volume of Concrete Footing (cy)	0	69
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$6.39	\$6.39
	Subtotal Concrete Footing Disposal Costs	\$0	\$438
	Subtotal Disposal Costs per Building	\$31	\$58,345
	Total Disposal Costs		
IV.	Health and Safety Costs		
	Radiation Safety Equipment RSO removed per item cost and generated one lump sum cost!	\$0	\$1,000
	Total Health and Safety Costs		
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$149	\$179,315
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$179,464	

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal		Mine Unit-27																		
I.	Wellfield Piping																			
	Assumptions:																			
	Number of Header Houses per Wellfield																			
	Length of Piping per Header House (ft)																			
	Total Length of Piping (ft)																			
	A. Removal and Loading																			
	Wellfield Piping Removal Unit Cost (\$/ft of pipe)																			
	Subtotal Wellfield Piping Removal and Loading Costs																			
	B. Transport and Disposal Costs (NRC-Licensed Facility)																			
	Average Diameter of Piping (inches)																			
	Chipped Volume Reduction (ft ³ /ft)																			
	Chipped Volume per Wellfield (ft ³)																			
	Volume for Disposal Assuming 10% Void Space (ft ³)																			
	Transportation and Disposal Unit Cost (\$/ft ³)																			
	Subtotal Wellfield Piping Transport and Disposal Costs																			
	Wellfield Piping Costs per Wellfield																			
	C. Capitol Costs																			
	Fiberglass/ poly / PVC Pipe Shredder (Operator Owned)																			
	BFI Containers (2@\$7,800.00 each) (Operator Owned)																			
	Total Wellfield Piping Costs																			
II.	Well Pumps and Tubing																			
	Assumptions:																			
	Pump and tubing removal costs included under ground water restoration labor costs																			
	60% of production/injection wells contain pumps and/or tubing																			
	A. Pump and Tubing Transportation and Disposal																			
	Number of Production Wells																			
	Number of Injection Wells																			
	1. Pump Volume																			
	Number of Production Wells with Pumps																			
	Average Pump Volume (ft ³)																			
	Pump Volume per Wellfield (ft ³)																			
	2. Tubing Volume																			
	Assumptions:																			
	Average tubing length/wellfield based on average well depth minus 25 ft																			
	Number of Production Wells with Tubing																			
	Number of Injection Wells with Tubing																			
	Average Tubing Length per Well (ft)																			
	Tubing Length per Wellfield (ft)																			
	Diameter of Production Well Fiberglass Tubing (inches)																			
	Diameter of Injection Well HDPE Tubing (inches)																			
	Chipped Volume Reduction (ft ³ /ft)																			
	Chipped Volume per Wellfield (ft ³)																			

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-27							
		Volume of Pump and Tubing (ft ³)		2069							
		Volume for Disposal Assuming 10% Void Space (ft ³)		2276							
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33							
		Subtotal Pump and Tubing Transport and Disposal Costs		\$28,063							
		Pump and Tubing Costs per Wellfield		\$28,063							
		Total Pump and Tubing Costs		\$28,063							
III.	Buried Trunkline										
		Assumptions:									
		Length of Trunkline Trench (ft)		7105							
	A.	Removal and Loading									
		Main Pipeline Removal Unit Cost (\$/ft of trench)		\$0.84							
		Subtotal Trunkline Removal and Loading Costs		\$5,968							
	B.	Transport and Disposal Costs (NRC-Licensed Facility)									
		1. 1" Carbon Steel Trunkline									
		Piping Length (ft)									
		Volume (ft ³)									
		2. 1" HDPE Trunkline									
		Piping Length (ft)									
		Chipped Volume Reduction (ft ³ /ft)									
		Chipped Volume (ft ³)									
		3. 3" HDPE Trunkline									
		Piping Length (ft)		7105							
		Chipped Volume Reduction (ft ³ /ft)		0.022							
		Chipped Volume (ft ³)		156							
		4. 6" HDPE Trunkline									
		Piping Length (ft)		2410							
		Chipped Volume Reduction (ft ³ /ft)		0.078							
		Chipped Volume (ft ³)		188							
		5. 8" HDPE Trunkline									
		Piping Length (ft)		4100							
		Chipped Volume Reduction (ft ³ /ft)		0.15							
		Chipped Volume (ft ³)		615							
		6. 10" HDPE Trunkline									
		Piping Length (ft)		0							
		Chipped Volume Reduction (ft ³ /ft)		0.277							
		Chipped Volume (ft ³)		0							
		7. 12" HDPE Trunkline									
		Piping Length (ft)		1460							
		Chipped Volume Reduction (ft ³ /ft)		0.293							
		Chipped Volume (ft ³)		427.78							
		8. 14" HDPE Trunkline									
		Piping Length (ft)		740							

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Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-27
		Chipped Volume Reduction (ft ³ /ft)		0.359
		Chipped Volume (ft ³)		266
9.	16" HDPE Trunkline			
		Piping Length (ft)		1440
		Chipped Volume Reduction (ft ³ /ft)		0.4
		Chipped Volume (ft ³)		576
10.	18" HDPE Trunkline			
		Piping Length (ft)		
		Chipped Volume Reduction (ft ³ /ft)		0.62
		Chipped Volume (ft ³)		0
		Total Trunkline Chipped Volume (ft ³)		2228.73
		Volume for Disposal Assuming 10% Void Space (ft ³)		2452
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33
		Subtotal Trunkline Transport and Disposal Costs		\$30,233
		Trunkline Decommissioning Costs per Wellfield		\$36,201
		Total Trunkline Decommissioning Costs		\$36,201
IV.	Well Houses			
		Total Quantity		777
		Average Well House Volume (ft ³)		1.86
A.	Removal			
		Total Volume (ft ³)		1445.22
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)		\$0.178
		Subtotal Well House Demolition Costs		\$257
B.	Survey and Decontamination			
		Assumptions:		
		Cost per Well House		3.97
		Subtotal Survey and Decontamination Costs		\$3,085
C.	Disposal at NRC licensed Facility			
		Total Volume (cy)		54
		Volume for Disposal Assuming 10% Void Space (cy)		59
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33
		Subtotal NRC Licensed Facility Disposal Costs		\$727
		Well House Removal and Disposal Costs per Wellfield		\$4,069
		Total Well House Removal and Disposal Costs		\$4,069
V.	Header Houses (Includes Booster Stations)			
		Total Quantity		11
		Average Header House Volume (ft ³)		800
A.	Removal			
		Total Volume (ft ³)		8800
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)		\$0.178
		Subtotal Building Demolition Costs		\$1,566

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Wellfield Buildings and Equipment Removal and Disposal		Mine Unit-27								
B.	Survey and Decontamination									
	Assumptions:									
	Cost per Header House		\$312							
	Subtotal Survey and Decontamination Costs		\$3,428							
C.	Disposal									
	Total Volume (cy)		326							
	Volume for Disposal Assuming 10% Void Space (cy)		359							
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)		\$6.39							
	Subtotal On-Site Disposal Costs		\$2,294							
	Header House Removal and Disposal Costs per Wellfield		\$7,288							
	Total Header House Removal and Disposal Costs		\$7,288							
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD			\$87,329							
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS			\$87,329							

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Well Abandonment		Mine Unit-27
I.	Well Abandonment (Wellfields)	
	# of Production Wells	205
	# of Injection Wells	572
	# of Monitoring Wells	85
	Total Number of Wells	862
	Average Diameter of Casing (inches)	5
	Average Depth (ft)	860
	Well Abandonment Unit Cost (\$/well)	\$381
	Subtotal Abandonment Cost per Wellfield	\$328,482
	Total Wellfield Abandonment Costs	\$328,482
II.	Waste Disposal Well Abandonment	DDW RR1
A.	Well Plugging	
	All lump sum costs	
	Subtotal Well Plugging Costs per Well - based on current DDW Permit	\$71,342
B.	Pump Dismantling and Decontamination	
	Number of Persons	2
	Number of Pumps	2
	Pumps/Day	0.5
	Number of Days	4
	\$/Day/Person	\$136
	Subtotal Dismantling and Decon Costs per Well	\$1,091
C.	Tubing String Disposal (NRC-Licensed Facility)	
	Length of Tubing String (ft)	10100
	Diameter of Tubing String (inches)	2.875
	Volume of Tubing String (ft ³)	455
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.33
	Subtotal Tubing String Disposal Costs per Well	\$5,611
	Subtotal Waste Disposal Well Abandonment Costs per Well	\$78,044
	Total Waste Disposal Well Abandonment Costs	\$78,044
	TOTAL WELL ABANDONMENT COSTS	\$406,526

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Wellfield and Satellite Surface Reclamation		Mine Unit-27
I. Wellfield Pattern Area, Laydown Area, and Road Reclamation		
Area (acres)		50.0
Disking/Seeding Unit Cost (\$/acre)		\$280
Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs		\$14,000
Total Wellfield Area Reclamation Costs		\$14,000
II. Satellite Area Reclamation		
		RR-1
Assumptions:		
Area of Disturbance (acres)		3
Average Depth of Stripped Topsoil (ft)		1
Surface Grade: Level Ground		
Average Length of Topsoil Haul (ft)		1000
A. Ripping Overburden with Dozer		
Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)		\$814.22
Subtotal Ripping Costs		\$2,443
B. Topsoil Application with Scraper		
Volume of Topsoil Removed (cy)		4840
Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)		\$0.71
Subtotal Topsoil Application Costs		\$3,436
C. Discing and Seeding		
Disking/Seeding Unit Cost (\$/acre)		\$280
Subtotal Discing/Seeding Costs		\$840
Subtotal Surface Reclamation Costs per Satellite		\$6,719
Total Satellite Building Area Reclamation Costs		\$6,719
III. Surface Reclamation		
		Mine Unit-27
A. Removal and disposal of contaminated soil around wells		
Volume of contaminated soil (0.37 yd3 per injection and production well - estimate)		287.49
Disposal of contaminated soil (\$/yd3) (As per Byproduct Material contract)		\$12.33
Equipment (Backhoe \$65/hr)		\$9,343.43
Labor (1 man-hour (\$17/hr) per 2 Yd3 - estimate)		\$2,443.67
Subtotal removal and disposal of contaminated soil		\$11,799.42
	Total	\$11,799.42
B. Disc and seeding		
Disc and seeding (est. \$280/acre)		\$280.00
Subtotal Recontour and Seeding		\$14,000.00
	Total	\$14,000.00
	Total Surface Reclamation	\$25,799
	Total	\$46,518

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Miscellaneous Reclamation								
I. CPP/Office Area/Pilot Plant/Maint. Shop/Chem. Storage/Yard Reclamation								
	Assumptions							
	Concrete Pad = 0.3 acres							
	Total Area = 10.57 acres							
A.	Concrete Pad							
	Area of Concrete Pad (ft ²)					0		
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)					\$3.40		
	Average Thickness of Concrete Floor (ft)					0.50		
	Volume of Concrete Floor (ft ³)					0		
	Volume of Concrete Floor (cy)					0		
	On-Site Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)					\$5.00		
	Subtotal Concrete Pad Demolition and Disposal Costs					\$0		
B.	Gravel Road Base Removal							
	Assumptions							
	Average haul distance (ft)					0		
	Gravel Road Base Width (ft)							
	Gravel Road Base Area (acres)					0.0		
	Average Road Base Depth (ft)					0.5		
	Volume of Road Base (cy)					0		
	Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$0.87		
	Subtotal Gravel Road Base Removal Costs					\$0		
B.	Ripping Overburden with Dozer							
	Overburden Surface Area (acres)					0.0		
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)					\$814.22		
	Subtotal Ripping Overburden Costs					\$0		
C.	Topsoil Application							
	Assumptions:							
	Area of surface disturbance (ft ²)					0		
	Average thickness of topsoil (ft)					1		
	Average haul distance (ft)					0		
	Surface grade (%)					0%		
	Volume of Topsoil (cy)					0		
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.12		
	Subtotal Topsoil Application Costs					\$0		
D.	Discing/Seeding							
	Assumptions							
	Surface Area (acres)					0		
	Discing/Seeding Unit Cost (\$/acre)					\$280		
	Total Discing/Seeding Costs					\$0		
	Total CPP/Office/Yard Area Reclamation					\$0		
II. Access Road Reclamation							RR-1 Access	Access to WF
A.	Assumptions							
	Surface grade					1%		1%
	Length of Road (ft)					1000		12000
	Width of Road (ft)					40		14
	Area of road (acres)					0.9		3.9
B.	Gravel Road Base Removal							
	Assumptions							
	Average haul distance (ft)					1000		1000
	Gravel Road Base Width (ft)					30		10
	Gravel Road Base Area (acres)					0.69		2.75
	Average Road Base Depth (ft)					0.5		0.5
	Volume of Road Base (cy)					556		2222
	Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$0.87		\$0.87
	Subtotal Gravel Road Base Removal Costs					\$481		\$1,924
C.	Ripping Overburden with Dozer							
	Overburden Surface Area (acres)					0.9		3.9
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)					\$814.22		\$814.22
	Subtotal Ripping Overburden Costs					\$741		\$3,135
D.	Topsoil Application							
	Assumptions							
	Average haul distance (ft)					1500		1500
	Topsoil Surface Area (ft ²)					39639.6		167706
	Depth of Topsoil (ft)					0.5		0.5
	Volume of Topsoil (cy)					734		3106
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.50		\$0.82
	Subtotal Topsoil Application Costs					\$1,101		\$2,547
E.	Discing/Seeding							
	Assumptions							
	Surface Area (acres)					0.9		3.9
	Discing/Seeding Unit Cost (\$/acre)					\$280		\$280
	Subtotal Discing/Seeding Costs					\$255		\$1,078

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Miscellaneous Reclamation							
	Subtotal Reclamation Costs per Access Road			\$2,578		\$8,684	
	Total Access Road Reclamation Costs			\$11,262			
III.	Trunk Lines			Trunk Line #1 (RR-1 to MU27)		Trunk Line #2 (MU27 to HH)	
	Length of Trench (ft)			22000		11000	
A.	Removal and Loading						
	Main Pipeline Removal Unit Cost (\$/ft of trench)			\$0.91		\$0.91	
	Subtotal Trunkline Removal and Loading Costs			\$20,020		\$10,010	
B.	Transport and Disposal Costs (NRC-Licensed Facility)						
	1. 2" HDPE Trunkline						
	Piping Length (ft)			0		0	
	Chipped Volume Reduction (ft ³ /ft)			0.005		0.005	
	Chipped Volume (ft ³)			0		0	
	1. 3" HDPE Trunkline						
	Piping Length (ft)			0		0	
	Chipped Volume Reduction (ft ³ /ft)			0.022		0.022	
	Chipped Volume (ft ³)			0		0	
	2. 6" HDPE Trunkline						
	Piping Length (ft)			0		0	
	Chipped Volume Reduction (ft ³ /ft)			0.078		0.078	
	Chipped Volume (ft ³)			0		0	
	3. 8" HDPE Trunkline						
	Piping Length (ft)			0		11000	
	Chipped Volume Reduction (ft ³ /ft)			0.15		0.15	
	Chipped Volume (ft ³)			0		1650	
	3. 10" HDPE Trunkline						
	Piping Length (ft)			0		0	
	Chipped Volume Reduction (ft ³ /ft)			0.277		0.277	
	Chipped Volume (ft ³)			0		0	
	4. 12" HDPE Trunkline						
	Piping Length (ft)			0		0	
	Chipped Volume Reduction (ft ³ /ft)			0.293		0.293	
	Chipped Volume (ft ³)			0		0	
	5. 14" HDPE Trunkline						
	Piping Length (ft)			0		0	
	Chipped Volume Reduction (ft ³ /ft)			0.359		0.359	
	Chipped Volume (ft ³)			0		0	
	5. 16" HDPE Trunkline						
	Piping Length (ft)			0		0	
	Chipped Volume Reduction (ft ³ /ft)			0.4		0.4	
	Chipped Volume (ft ³)			0		0	
	6. 18" HDPE Trunkline						
	Piping Length (ft)			22000		0	
	Chipped Volume Reduction (ft ³ /ft)			0.47		0.47	
	Chipped Volume (ft ³)			10340		0	
	Total Pipeline Disposal Volume			10340		1650	
	Volume for Disposal Assuming 10% Void Space (ft ³)			11374		1815	
	Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft ³)			\$12.33		\$12.33	
				\$140,241		\$22,379	
C.	Discing/Seeding						
	Assumptions:						
	Width of Pipeline Trench (ft)			4		4	
	Area of Pipeline Trench (acres)			2.0		1.0	
	Discing/Seeding Unit Cost (\$/acre)			\$280		\$280	
	Subtotal Discing/Seeding Costs			\$566		\$283	
	Subtotal Reclamation Costs per Pipeline			\$160,827		\$32,672	
	Total Pipeline Reclamation Costs			\$193,499			
IV.	Settling Basin/Evap. Pond Reclamation			Evaporation Pond		Settling Pond	
A.	Soil Sampling and Monitoring						
	Number of Soil Samples			0		0	
	\$/Sample			\$50		\$50	
	Subtotal Soil Sampling and Monitoring Costs			\$0		\$0	
B.	Liner/Subsoil Removal and Disposal						
	Assumptions:						
	Clay liner and subsoil constitute by-product material						
	Thickness of clay liner (ft)			0		0	
	Thickness of contaminated subsoil (ft)			0		0	

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Miscellaneous Reclamation									
		Removal and Loading Unit Cost based on engineer's design report and Cat Performance Handbook							
		Width of Pond (ft)	0		0				
		Length of Pond (ft)	0		0				
		Depth of Pond (ft)	0		0				
		Surface area of pond (ft ²)	0		0				
	1.	Removal and Loading (Settling Pond is not By-Product, therefore can stay in place)							
		Volume of Clay Liner (cy)	0		0				
		Clay Liner Removal and Loading Unit Cost (\$/cy)	\$3.63		\$3.63				
		Subtotal Liner Removal and Loading Costs	\$0		\$0				
	2.	Transportation and Disposal							
		Volume of Clay Liner (ft ³)	0		0				
		Volume of Geotextile Liner (ft ³)	0		0				
		Volume of Geotextile Liner @ 40% void (ft ³)	0		0				
		Transportation and Disposal Unit Cost (\$/ft ³) (As per byproduct material contract)	\$12.33		\$12.33				
		Subtotal Liner Transportation and Disposal Costs	\$0		\$0				
		Subtotal Liner Removal and Disposal Costs	\$0		\$0				
	C.	Grade and Contour							
		Volume of Embankment Material (CY)	0		0				
		Average Grade (%)	0		0				
		Distance (ft)	0		0				
		Material Moving Unit Cost per WDEQ Guideline No. 12, App.E (\$/cy)	\$0.092		\$0.161				
		Subtotal Grade and Contour Costs	\$0		\$0				
	C.	Topsoil Application							
		Assumptions:							
		Area of surface disturbance (ft ²)	0		0				
		Average thickness of topsoil (ft)	0		0				
		Average haul distance (ft)	0		0				
		Surface grade (%)	0%		3%				
		Volume of Topsoil (cy)	0		0				
		Topsoil Unit Cost per WDEQ Guideline No. 12, App.C (\$/cy)	\$1.12		\$1.12				
		Subtotal Topsoil Application Costs	\$0		\$0				
	D.	Discing/Seeding							
		Assumptions:							
		Area of surface disturbance (acres)	0.0		0.0				
		Discing/Seeding Unit Cost (\$/acre)	\$280		\$280				
		Subtotal Discing/Seeding Costs	\$0		\$0				
		Subtotal Reclamation Costs per Pond	\$0		\$0				
		Total Settling Basin/Evap. Ponds Reclamation Costs	\$0		\$0				
	V.	Miscellaneous Structures							
	A.	Potable Water Wells							
		Total Depth (ft) (1- 5-inch Diameter Wells, @ 750 ft)	700						
		Well Abandonment Unit Cost (\$/100 ft) - per State Engineers Office	\$63.10						
		Subtotal Potable Water Wells Abandonment Costs	\$441.70						
	B.	Fuel Area							
		Concrete Floor							
		Area of Concrete Floor (ft ²)							
		Demolition Unit Cost per WDEQ Guideline No. 12, App.K (\$/ft ²)	\$3.40						
		Subtotal Concrete Floor Demolition Costs	\$0						
		Concrete Footing							
		Length of Concrete Footing (ft)	0						
		Demolition Unit Cost per WDEQ Guide. No. 12, App.K (\$/lin. ft)	\$12.22						
		Subtotal Concrete Footing Demolition Costs	\$0						
		Subtotal Fuel Area Costs	\$0						
		Total Miscellaneous Structures Reclamation Costs	\$441.70						
		Well Replacement Costs	\$20,000						
		TOTAL MISCELLANEOUS RECLAMATION COSTS	\$225,203						

CLAY LINER REMOVAL AND LOADING					
Clay Liner Removal and Loading Cost					
Labor =	17	per hour			Based on current labor rates
Trackhoe =	\$ 1,125.00	per week or	\$ 28.13	per hour	All Inclusive, based on current rental rates
Belly Dump with Operator =	\$ 100.00	per hour			Based on current contractor pricing
Belly Dump Size =	20	cubic yards			
Disposal Rate =	40	yards/hour			Estimate based on experience
TOTAL REMOVAL AND LOADING	\$ 3.63	per cubic yard			

WELLFIELD BUILDING REMOVAL AND DEMO									
Cost per Well Head Cover									
	Env. Scanner	17	per hour					Based on current labor rates	
	Operator =	17	per hour					Based on current labor rates	
	Total Wellhead	2300							
	HCl 35% Cost	\$ 0.137	per pound					Based on current Univar costs for bulk HCl - April 2007	
	Acid Usage Rate	4.1	pounds per wellhead cover					Estimate based on experience	
	Acid Unit Cost	\$ 0.56	per wellhead cover						
	Total Labor Rate	\$ 39.70	per hour						
	Cleaning Rate	10	wellheads per hour					Estimate based on experience	
	Survey / Deco	\$ 3.97	per wellhead cover						
Cost per Header House									
	Env. Scanner	17	per hour					Based on current labor rates	
	Operator =	17	per hour					Based on current labor rates	
	Number of Op	2						Based on experience	
	HCl 35% Cost	\$ 0.137	per pound					Based on current Univar costs for bulk HCl - April 2007	
	Acid Usage Rate	20	pounds per header house					Estimate	
	Acid Unit Cost	\$ 2.74	per header house						
	Total Labor Rate	\$ 311.64	per hour						
	Cleaning Rate	1	header house per day					Estimate based on experience	
	Survey / Deco	\$ 311.64	per header house						

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ACID WASH							
Current acid cost is \$275/ ton or .1375per lb.							
Commercial Concentrated acid is 37%							
Assume a 10% wash solution the price of the wash solution is \$.012 per gallon							
Assume that .25 gallon of acid wash is used per sq ft. to clean walls.							
Assume that 1 gallon of acid wash is used per sq ft. to clean floors.							
Using the square footage supplied in the bond the following assumptions were used to generate the cost per square ft multiplier.							
Using the CPP IX and Plant square footages the assumption is as follows							
Acid Wash (Walls)							
Labor	2	Men	Bond CPP IX and CPP sq. footage				
Rate	\$17	hr.					
Time	20	8hr. Days					
Man Lift Rental	\$8,900.00	Month					
Labor Cost per sq. ft.	\$0.54						
Acid	\$0.003						
Consumables	\$0.05						
Total	\$0.59						
Acid Wash (Floors)							
Labor	2	Men	Bond CPP IX and CPP sq. footage				
Rate	\$17	hr.					
Time	15	8hr. Days					
Labor Cost per sq. ft.	\$0.15						
Acid	\$0.01						
Consumables	\$0.05						
Total	\$0.21						

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RADIUM TREATMENT					
HUP SURETY ONLY					
Assumptions:					
1.	Based on actual operating costs				
Radium Treatment Costs per 1000 Gallons					
	Chemical	= \$	0.177		
	Filtration	= \$	0.021		
	Electricity	= \$	0.048		
	By Product Disposal of Sludge	= \$	0.097		
TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS		= \$	0.34		

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GROUNDWATER SWEEP (GWS)									
Assumptions:									
1. All pumps are 5 hp pumping at 5.0 gpm									
2. Cost of electricity from Recurring Cost Sheet									
3. All water pumped is disposed at WDW with a 20 hp pump									
4. Repair and maintenance costs estimated at \$0.50/1000 gallons, Operator Experience									
5. Process sampling and analysis costs estimated at \$0.03/1000 gallons, Operator Experience									
6. Labor costs are not included									
Wellfield Pumping Costs per 1000 Gallons									
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	$\frac{\$ 0.051}{\text{kwh}}$	= \$ 0.63
Pumping to WDW Costs per 1000 Gallons									
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	$\frac{\$ 0.051}{\text{kwh}}$	= \$ 0.24
Repair and Maintenance Costs per 1000 Gallons								= \$ 0.5	
Process Sampling and Analysis Costs per 1000 Gallons								= \$ 0.03	
TOTAL GWS COSTS PER 1000 GALLONS								= \$ 1.40	

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REVERSE OSMOSIS (RO)								
Assumptions:								
1.	Cost of electricity from Recurring Cost Sheet							
2.	75% permeate/25% reject split							
3.	Membrane life of 5 years with a cost of \$700 per membrane element							
4.	Includes cost of pumping from wellfield to RO Unit							
5.	Process sampling and analysis costs estimated at \$0.03/1000 gallons - Operator Experience							
6.	Labor costs are not included							
Reverse Osmosis Costs per 1000 Gallons						Chemical Costs		
	Electricity			= \$	0.48			
	Chemicals			= \$	\$0.13	Scale Inhibitor	\$2.00	\$/lb
	Membrane Replacement			= \$	\$0.06	Dose Rate	6.75	ppm
	Repair and Maintenance			= \$	0.26	RO Flow	400	gpm
	Process Sampling and Analysis			= \$	0.03			
						lbs scale/1000gal	0.056330727	
TOTAL RO COSTS PER 1000 GALLONS				= \$	0.96			
						Cost per 1000 gal	\$0.11	
						Cleaning Chemicals	0.02	
						Total Chemical Cost	\$0.13	
						Membrane Replacement		
						For 400gpm RO	400	
						Number of membranes	96	
						Cost per Membrane	\$600.00	
						Years of Life	5	
						Labor to Change Membrane	\$480.00	
						Cost per 1000 gal	\$0.06	

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CHEMICAL REDUCTANT												
Assumptions:												
1. Bioremediation is utilized												
2. Based on actual operating costs during restoration activities												
3. Added the cost of using cheese whey												
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal											= \$ 0.30	

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ELUTION PROCESSING												
Assumptions:												
1. Based on actual operating costs												
TOTAL PROCESSING COSTS PER ELUTION = \$ 1198												

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DEEP WELL INJECTION										
Assumptions:										
1. Pump 150 hp pumping at 100 gpm										
2. Cost of electricity from Recurring Cost Sheet										
3. Repair and maintenance costs based on average injection volume of 8,000,000 gallons per year										
4. Repair and maintenance costs estimated at \$.50/1000 gallons, Operator Experience										
5. Chemical costs based on average injection volume of 8,000,000 gallons per year										
6. Labor costs are not included										
Waste Disposal Pumping Costs per 1000 Gallons										
	1000 gal	X	150 hp	X	1 hr	X	0.746 kwh	X	\$ 0.051	
			100 gpm	X	60 min	X	hp	X	kwh	= \$ 0.95
Repair and Maintenance Costs per 1000 Gallons										
TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS										
= \$ 1.45										

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WELL ABANDONMENT										
Assumptions:										
1 Typical 8 hour working day										
2 Trackhoe for 8.0 hr/day to dig and reclaim pit										
3 Use hose reel for 8 hr/day to pull equipment from well										
4 Use cementer for 8.0 hr/day to pump cement/plug gel										
5 Use tow vehicle for 8.0 hr/day to tow hose reel and cementer										
6 Labor for backhoe, hose reel, cementer will require 3 workers at 8.0 hr/day										
Materials include 7.5 sacks of cement/100 ft and 1 sack of plug gel/100 ft of 5" well casing.										
Cost of cement is \$7.62 and plug gel cost is \$6.45/sack.										
Cement costs for 2007 = GCC Dakota Cement; Plug gel costs for 2007 = Casper Well Products										
Fixed Costs										
Trackhoe										
	8	hours	X	\$	28.1	per	hour	=	\$ 225.00	
Hose Reel/Tow Vehicle										
	8	hours	X	\$	45	per	hour	=	\$ 360.00	
Cementer										
	8	hours	X	\$	45	per	hour	=	\$ 360.00	
Tow Vehicle										
	8	hours	X	\$	45	per	hour	=	\$ 360.00	
Labor										
3	men=	24	man	X	\$	17	per	man	=	\$ 409.02
		hours				hour				
Total Fixed Costs per 8.0 hr/day								=	\$ 1714.02	
Variable Costs (per 100 ft of well depth)										
Materials										
	7.5	sack	cement	X	\$	7.62	per	=	\$ 57.15	
			per 100 feet				sack			
	1	sack	plug gel	X	\$	6.45	per ho	=	\$ 6.45	
			per 100 feet				plug			

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WELL ABANDONMENT Page 2										
Total materials Cost (per 100 ft of well depth)					\$	63.60				
Total number of wells completed per/day										
				6						
Cost per Well per Unit of Average Depth										
				Well Depth (ft)						
				450	=	\$ 333				
				500	=	\$ 339				
				550	=	\$ 344				
				600	=	\$ 349				
				650	=	\$ 355				
				700	=	\$ 360				
				750	=	\$ 365				
				800	=	\$ 370				
				850	=	\$ 376				
				900	=	\$ 381				
				950	=	\$ 386				

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FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)										
Assumptions:										
1	Pulling Unit for 8.0 hr/day per Recurring Cost Sheet									
2	MIT Unit for 8.0 hr/day per Recurring Cost Sheet									
3	Labor for operation of pulling unit will require 2 workers at \$17/hr									
4	Labor for operation of MIT Unit will require 1 worker at \$17/hr									
5	Average wells plugged per day is 6									
MIT Costs per Well										
Equipment:										
	Pulling Unit									
	8 hours	X	\$ 45	per hour				= \$	360.00	
	MIT Unit									
	8 hours	X	\$ 45	per hour				= \$	360.00	
Labor:										
	Pulling Unit									
	8 hours	X	\$ 17.04	per hour	X	2 workers		= \$	\$272.68	
	MIT Unit									
	8 hours	X	\$ 17.04	per hour				= \$	136.34	
									TOTAL MIT COST PER DAY = \$	1129.00
Wells Completed			6	per day						
Well Replacement Fittings, Hose, etc (\$150) & 1 hour labor (\$35)									185	
MIT COSTS PER WELL = \$									373.17	

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MAIN PIPELINE REMOVAL									
Assumptions:									
1. Trenching with trackhoe at 750 ft/day									
2. Pipeline extraction and backfilling with trackhoe at 750 ft/day									
3. Trackhoe rental: \$1,125/week all inclusive fuel, maintenance, mob									
5. Trackhoe operation requires 1 worker at \$17/hour									
6. Pipeline extraction requires 2 workers at \$17/hour (in addition to trackhoe operator)									
7. Pipelines removed simultaneously									
8. Includes removal of manholes									
9. Operating schedule: 8 hrs/day, 5 days/week									
Main Pipeline Removal Costs per ft of Trench									
Equipment									
Trackhoe									
$\frac{\$ 1125}{\text{week}}$		X	$\frac{1 \text{ week}}{5 \text{ days}}$		X	$\frac{1 \text{ days}}{750 \text{ ft}}$		=\$ 0.30	
Labor									
Trackhoe Operation									
$\frac{\$ 17}{\text{man hr}}$		X	$\frac{8 \text{ man hrs}}{1 \text{ day}}$		X	$\frac{1 \text{ days}}{750 \text{ ft}}$		=\$ 0.18	
Pipeline Extraction									
$\frac{\$ 17}{\text{man hr}}$		X	$\frac{16 \text{ man hrs}}{1 \text{ day}}$		X	$\frac{2 \text{ day}}{750 \text{ ft}}$		=\$ 0.36	
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH = \$ 0.84									

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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WELLFIELD PIPING REMOVAL						
Assumptions:						
1.	Trenching with backhoe at 1500 ft/day					
2.	Pipeline extraction and backfilling with backhoe at 1500/day					
3.	Backhoe rental: \$1,125/week, all inclusive fuel, maintenance, mob					
4.	Backhoe operation requires 1 worker at \$17/hour					
5.	Pipeline extraction requires 2 workers at \$17/hour (in addition to trackhoe operator)					
6.	Operating schedule: 8 hrs/day, 5 days/week					
Main Pipeline Removal Costs per ft of Pipe						
Equipment						
Backhoe						
	\$ 1125	X	1 week	X	1 days	=\$ 0.15
	week		5 days		1500 ft	
Labor						
Backhoe Operation						
	\$ 17	X	8 man hrs	X	1 days	=\$ 0.09
	man hr		1 day		1500 ft	
Pipeline Extraction						
	\$ 17	X	16 man hrs	X	1 day	=\$ 0.18
	man hr		1 day		1500 ft	
MAIN PIPELINE REMOVAL COST PER FT OF PIPE						=\$ 0.420

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WELLFIELD ROAD RECLAMATION									
Assumptions (Roads constructed before January 1, 1997):									
1. Gravel road base removed at cost of \$0.86/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 \$41.87/acre (WDEQ Guideline No. 12, Appendix P)									
4. Grading of scarified roads prior to topsoil application at cost of \$45.65/acre (WDEQ Guideline No. 12, Appendix G)									
5. Topsoil applied at cost of \$0.866/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 \$280/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	1 cy	X	\$0.87 cy	= \$ 80
Scarification Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre			X	\$41.87 acre	= \$ 24
Grading Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre			X	\$45.65 acre	= \$ 26
Topsoil Application Costs per 1000 ft of Road									
1000 ft	X	0.67 ft	X	25 ft	X	1 cy	X	\$0.87 cy	= \$ 537
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre			X	\$280 acre	= \$ 161
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (BEFORE JANUARY 1, 1997)									
									= \$ 828
Assumptions (Roads constructed after January 1, 1997):									
1. Gravel road base will not be removed									
2. Roads scarified prior to topsoil application at cost of \$41.87/acre (WDEQ Guideline No. 12, Appendix P)									
3. Grading of scarified roads prior to topsoil application at cost of \$45.65/acre (WDEQ Guideline No. 12, Appendix G)									
4. Topsoil applied at cost of \$0.86/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 \$280/acre is based on actual contractor costs									
Scarification Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	1 acre			X	\$41.87 acre	= \$ 19
Grading Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	1 acre			X	\$45.65 acre	= \$ 21
Topsoil Application Costs per 1000 ft of Road									
1000 ft	X	0.40 ft	X	20 ft	X	1 cy	X	\$0.87 cy	= \$ 257
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	1 acre			X	\$280 acre	= \$ 129
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (AFTER JANUARY 1, 1997)									
									= \$ 426

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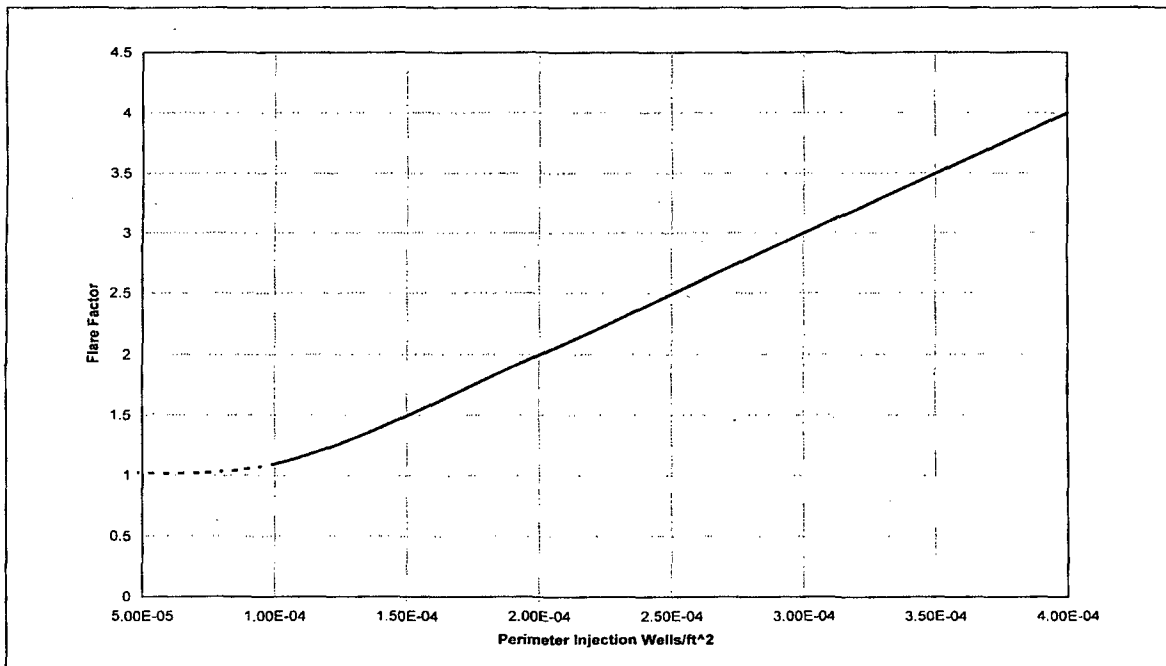
DISKING/SEEDING									
Assumptions:									
1. Based on actual contractor costs in 2007									
2. Drill Seeding \$250/Acre - based on contractor estimate 6/2007									
3. Seed cost \$30/Acre - Based on 5/07 seed costs at SRHUP									
TOTAL DISKING/SEEDING COSTS PER ACRE	= \$	280.00							

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FLARE FACTOR CALCULATION

Assumptions:

1. Flare Factor Conservatively Estimated from Figure 3-16, Lewis Water Consultants, Inc., Oct. 1999 (below)
2. Number of Perimeter Injection Wells per sq.ft. estimated from wellfield spacing, total area, and perimeter area



RAMC Smith Ranch Facility
Figure 3-16. Predicted wellfield flare factor for RAMC commercial wellfields, as a function of wellfield scale

Date: 9/14/99
Project: RAMC Wellfield Evaluation
File: land.ppt

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PORE VOLUME AND RESTORATION TIMING CALCULATION						
Assumptions:						
1. Pore Volumes required for wellfield restoration are conservatively estimated from Table 3-2, Lewis Water Consultants, Inc., Oct. 1999 (below)						
2. Restoration Target is Return to Class of Use, Class I Groundwater (WDEQ)						
3. Conservatively Assumes 1PV groundwater sweep, 3PVs RO with Reductant added to final 2 PVs of RO stream (4PV's total)						
4. Restoration Timing is conservatively estimated at 2 years for all wellfields based on 400 gpm sweep rate and largest wellfield affected volume (Wellfield 15) at Smith Ranch.						
Table 3-2. Predicted Wellfield 1 Restoration Timing						
Constituent	Restoration Target (Background)	Number of Pore Volumes to Meet Target	Time Required to Meet Target (Baseline), days	Restoration Target (Class of use ^a)	Number of Pore Volumes to Meet Target	Time Required to Meet Target (Class-of-Use)days
U	0.168	3.2	150	5	1.8	86
Se	0.001	3.2	150	0.01	2.3	109
Cl	4.176	4.4	210	250	0	0
SO ₄	113.125	3.8	179	250	2.5	117
HCO ₃	228.194	2.3	109	na	na	na
Ca	72.617	3.8	179	na	na	na
Na	22.525	3.2	150	na	na	na
As	0.001	3.0	141	0.05	0	0
B	0.100	3.2	150	0.75	0	0
Fe	0.065	0	0	0.3	0	0
Mn	0.022	4.4	210	0.05	3.4	160
Mg	17.364	3.2	150	na	na	na
K	7.269	3.2	150	na	na	na
F	0.322	3.2	150	2.4	na	na
SiO ₂	16.975	3.2	150	na	na	na
Zn	0.010	3.2	150	5	0	0
^a -- standards listed are for Wyoming Class I ground water, although baseline wellfield ground water does not meet this standard due to excessive radium.						

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

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED
AT THE RECORD TITLED:
“FIGURE 1,
HORIZONTAL SCALE AS
DESIGNATED VERTICAL
SCALE 1"= 80'”**

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