

POWER RESOURCES, INC.
GAS HILLS ISL PROJECT
SURETY ESTIMATE REVISION

		Carol	Tire	Change	Air Comp	Water Treat	BaCl
Part I. Building Demolition and Disposal		Shop	Shop	House	Building	Building	Building
I.	Demolition Costs						
	Assumptions						
	Concrete footings buried in place						
A.	Building						
	Volume of Building (ft3)	1424625	54560	18600	5000	9000	10368
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft3)	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178
	Subtotal Building Demolition Costs	\$253,583	\$9,712	\$3,311	\$890	\$1,602	\$1,846
B.	Concrete Floor						
	Area of Concrete Floor (ft2)	56985	2480	1860	500	600	864
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft2)	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40	\$3.40
	Subtotal Concrete Floor Demolition Costs	\$193,749	\$8,432	\$6,324	\$1,700	\$2,040	\$2,938
C.	Concrete Footing						
	Length of Concrete Footing (ft)	0	0	0	0	0	0
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/lin. ft)	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22
	Subtotal Concrete Footing Demolition Costs	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Demolition Costs per Building	\$447,332	\$18,144	\$9,635	\$2,590	\$3,642	\$4,784
	Total Building Demolition Costs	\$486,127					
II.	Disposal Costs						
A.	Building						
	Assumptions						
	On-site disposal cost of \$0.54/cy						
	Building volume (cy)	52764	2021	689	185	333	384
	Disposal Unit Cost (\$/cy)	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25	\$1.25
	Subtotal Building Disposal Costs	\$65,955	\$2,526	\$861	\$231	\$417	\$480
B.	Concrete Floor						
	Area of Concrete Floor (ft2)	56985	2480	1860	500	600	864
	Average Thickness of Concrete Floor (ft)	0.5	0.5	0.5	0.5	0.5	0.5
	Volume of Concrete Floor (ft3)	28492.5	1240	930	250	300	432
	Volume of Concrete Floor (cy)	1055	46	34	9	11	16
	Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00
	Subtotal Concrete Floor Disposal Costs	\$5,276	\$230	\$172	\$46	\$56	\$80
C.	Concrete Footing						
	Length of Concrete Footing (ft)	0	0	0	0	0	0
	Average Depth of Concrete Footing (ft)	0	0	0	0	0	0
	Average Width of Concrete Footing (ft)	0	0	0	0	0	0
	Volume of Concrete Footing (ft3)	0	0	0	0	0	0
	Volume of Concrete Footing (cy)	0	0	0	0	0	0
	On-site Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13	\$4.13
	Subtotal Concrete Footing Disposal Costs	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Disposal Costs per Building	\$71,231	\$2,756	\$1,033	\$277	\$473	\$560
	Total Building Disposal Costs	\$76,330					
SUBTOTAL DEMOLITION AND DISPOSAL COSTS PER BUILDING		\$518,563	\$20,900	\$10,668	\$2,867	\$4,115	\$5,344
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$562,457					

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Part II. Well Abandonment			
I.	Monitoring Wells		
	Assumptions		
	Cementer used to pump plug gel into wells		
A.	Equipment		
	Cementer operating cost (\$/hr)		\$45
	Hrs/well		0.5
	Drill rig operating cost (\$/hr)		\$110
	Hrs/well		1.25
	Subtotal Equipment Costs per Well		\$160
B.	Labor		
	Labor cost (\$/hr)		\$15
	No. of workers		2
	Hrs/well		2.5
	Subtotal Labor Costs per Well		\$75
C.	Materials		
	Average well depth (ft)		500
	Average casing diameter (inches)		5
	Sacks of plug gel per well		4
	Cost of plug gel (\$/sack)		\$5.95
	Sacks of Cement per Well		36.00
	cost of Cement (\$/sack)		\$7.62
	Subtotal Materials Costs per Well		\$298.12
	Subtotal Abandonment Costs per Well		\$533
	Total # of Monitoring Wells		84
	Total Monitoring Well Abandonment Costs		\$44,772
II.	Federal No. 32-2 Water Well		
	Assumptions		
	Backhoe used to dig and reclaim pit		
	Drill rig used to pump plug gel into well		
A.	Equipment		
	Backhoe operating cost (\$/hr)		\$45
	Hrs/well		1
	Drill rig operating cost (\$/hr)		\$110
	Hrs/well		4
	Subtotal Equipment Costs		\$485
B.	Labor		
	Labor cost (\$/hr)		\$15
	No. of workers		2
	Hrs/well		4
	Subtotal Labor Costs		\$120
C.	Materials		
	Well depth (ft)		1200
	Casing diameter from 0 to 600 ft (inches)		4.5
	Casing diameter from 600 to 1200 ft (inches)		7
	Sacks of plug gel		14
	Cost of plug gel (\$/sack)		\$5.95
	Sacks of Cement		121
	Cost of Cement (\$/sack)		\$7.62
	Subtotal Materials Costs		\$1,005.32
	Total Federal No. 32-2 Water Well Abandonment Costs		\$1,610
	TOTAL WELL ABANDONMENT COSTS		\$46,382

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Part III. Miscellaneous Reclamation					
I.	Carol Shop/Office Area			Carol Shop/Office Area	
	Assumptions				
	Concrete, asphalt, and building material used to backfill low areas				
	Average haul distance (ft)			2000	
	Surface grade: Level ground				
A.	Topsoil Application				
	Topsoil Surface Area (acres)			21	
	Average Depth of Topsoil (ft)			0.5	
	Volume of Topsoil (cy)			16940	
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$1.12	
	Subtotal Topsoil Application Cost			\$19,024	
B.	Discing/Seeding				
	Surface Area (acres)			21	
	Discing/Seeding Unit Cost (\$/acre)			\$235	
	Subtotal Discing/Seeding Costs			\$4,935	
	Total Carol Shop/Office Area Reclamation			\$23,959	
II.	Carol Shop Road			Carol Shop Road	
	Assumptions				
	Surface grade: Level ground				
	Average haul distance (ft)			1000	
	Length of road (miles)			5	
	Average road width (ft)			50	
A.	Gravel Road Base Removal				
	Gravel Road Base Width (ft)			50	
	Average Road Base Depth (ft)			0.5	
	Volume of Road Base (cy)			24444	
	Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$0.87	
	Subtotal Gravel Road Base Removal Costs			\$21,169	
B.	Ripping Overburden with Dozer				
	Overburden Surface Area (acres)			30	
	Ripping Unit Cost per WDEQ Guideline No.12, App.I1 (\$/acre)			\$814.22	
	Subtotal Ripping Overburden Costs			\$24,427	
C.	Topsoil Application				
	Assumptions				
	Average haul distance (ft)			1000	
	Topsoil Surface Area (ft2)			1320000	
	Depth of Topsoil (ft)			0.5	
	Volume of Topsoil (cy)			24444	
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$1.12	
	Subtotal Topsoil Application Costs			\$27,451	
D.	Discing/Seeding				
	Surface Area (acres)			30	
	Discing/Seeding Unit Cost (\$/acre)			\$235	
	Subtotal Discing/Seeding Costs			\$7,050	
E.	Culvert Removal				
	Total # of culverts			12	
	Culvert Removal Cost per WDEQ Guideline No.12, App.J (\$/each)			\$91.24	
	Fill Removal/Drainage Reestablishment (\$/each)			\$1,000	
	Subtotal Culvert Removal Costs			\$13,095	
	Total Carol Shop Road Reclamation Costs			\$93,192	

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III.	Federal No. 32-2 Water Well Reclamation	Federal No. 32-2
	Assumptions	
	Surface grade: Level ground	
	Average haul distance (ft)	
A.	Well Site Area	
	Surface area of well site (ft ²)	21716
1.	Ripping Overburden with Dozer	
	Overburden Surface Area (acres)	0.5
	Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)	\$814.22
	Subtotal Ripping Overburden Costs	\$407
2.	Topsoil Application	
	Topsoil Surface Area (ft ²)	21716
	Depth of Topsoil (ft)	0.5
	Volume of Topsoil (cy)	402
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.71
	Subtotal Topsoil Application Costs	\$286
3.	Discing/Seeding	
	Surface Area (acres)	0.5
	Discing/Seeding Unit Cost (\$/acre)	\$235
	Subtotal Discing/Seeding Costs	\$118
	Subtotal Well Site Reclamation Costs	\$811
B.	Access Road	
	Length of road (ft)	1925
	Average road width (ft)	20
	Surface area of road (ft ²)	38500
1.	Gravel Road Base Removal	
	Average Depth of Road Base (ft)	0.33
	Volume of Road Base (cy)	471
	Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.87
	Subtotal Gravel Removal Costs	\$409
2.	Ripping Overburden with Dozer	
	Overburden Surface Area (acres)	0.88
	Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)	\$814.22
	Subtotal Ripping Overburden Costs	\$717
3.	Topsoil Application	
	Depth of Topsoil (ft)	0.67
	Volume of Topsoil (cy)	955
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.87
	Subtotal Topsoil Application Costs	\$831
4.	Discing/Seeding	
	Surface Area (acres)	0.88
	Discing/Seeding Unit Cost (\$/acre)	\$235
	Subtotal Discing/Seeding Costs	\$207
	Subtotal Access Road Reclamation Costs	\$2,164
	Total Federal No. 32-2 Water Well Reclamation Costs	\$2,975
IV.	Demolition and Removal of Surface Water Monitoring Stations	
	Total # of surface water monitoring stations	3
	Demolition/Removal Unit Cost per WDEQ Guideline No.12, App.N (\$/station)	\$1,363.76
	Total Surface Water Station Demolition and Removal Costs	\$4,091
	TOTAL MISCELLANEOUS RECLAMATION COSTS	\$124,217