CAMECO RESOURCES
CROW BUTTE OPERATION

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P.O. Box 169
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(308) 665-2215
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September 28, 2010

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Linder, Director
Nebraska Department of Environmental Quality
P.O. Box 98922
Lincoln, Nebraska 68509-8922

Subject: 2011 Surety Estimate
Class III Underground Injection Control Permit Number NE 0122611
Class I Underground Injection Control Permit Number NE 0210457

Dear Mr. Linder:

Attached is the annual update to the surety estimate for the Crow Butte Uranium Mine. This estimate meets the requirements of Chapter 13 of Title 122, *Rules and Regulations for Underground Injection and Mineral Production Wells* and the annual update requirements included in the referenced permits issued by the Nebraska Department of Environmental Quality (NDEQ). Also attached as required in the approved minor permit modification dated August 21, 2007, is an audit statement from George W. Klein, an independent professional auditing firm.

The surety estimate for 2011 is $35,248,294, an increase of $6,346,243 over the 2010 surety estimate of $28,902,051. All costs have been baselined to current day costs with the exception of the Deep Disposal Well Decommissioning which is based upon the April 2009 Class I Permit application for installation of a second deep disposal well. Significant changes reflected in the surety estimate for 2011 include the following items:

1) The estimate includes continued development of Mine Units 10 and 11, with three additional wellhouses installed in the two mine units by the end of 2011. The number of the wells needed to completely develop Mine Units 10 and 11 were included in the 2010 surety estimate. The areal extent of Mine Units 10 and 11 was increased by 1,592,118 square feet (36.55 acres) to reflect the complete development of the mine units.

2) Based on operational experience and hydrological modeling a flare factor of 1.2 has been added to each mine unit.

3) The estimate includes lowering the unit costs for IX Treatment (UC-GIX), Reverse Osmosis Treatment (UC-RO), and Recirculation (UC-Recirc) to represent twenty four hour operation of the circuits.

4) The costs associated with performing mechanical integrity tests (MIT's) during groundwater restoration were added to the estimate.

The most significant factors contributing to the increased surety estimate include groundwater restoration (+$1,299,676), contract administration (+$507,700), contingency (+$761,549), and wellfield reclamation (+$680,876). Sheet 2 of the attached estimate presents the changes for selected cost elements over the 2010 surety estimate.

Upon approval of the surety estimate update by the NDEQ, the Crow Butte Operation (CBO) will provide a secured letter of credit on the renewal date to the State of Nebraska in an amount equal to the updated surety estimate.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215 ext 114.

Sincerely,
CAMECO RESOURCES
CROW BUTTE OPERATION

Thomas P. Young
Vice-President of Operations

Enclosure

cc: Mr. Keith I. McConnell, 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

U.S. Nuclear Regulatory Commission
Mailstop T8-F5
Washington D.C. 20555-0001

U.S. Nuclear Regulatory Commission
Mr. Ron Burrows - ADDRESSEE ONLY
Fuel Cycle Licensing Branch
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Joe Brister – Cheyenne Office

CBO File

GEORGE W. KLEIN
CERTIFIED PUBLIC ACCOUNTANT

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September 27, 2010

Paul Goranson, President
Crow Butte Resources, Inc.
2020 Carey Avenue, Suite 600
Cheyenne, WY 82001

Dear Mr. Goranson:

This report shows the findings for each of the services I have performed as outlined in our engagement letter for the Crow Butte Uranium Project 2011 Surety Estimate. These findings were based on the review of the spreadsheets received September 17, 2010 through September 27, 2010 with the Total 2011 Surety Bond estimate totaling $35,248,294.

No findings in the review of the results of the mathematical calculations used in the surety estimate worksheet. A few cosmetic items were discussed but they did not affect the total calculation of the surety amount.

No findings in the review and confirmation of selected items that support the master costs used in preparing the surety estimate worksheet.

No findings in the further tests and procedures I considered necessary to enable me to express an opinion on the master costs and the calculations used in the surety estimate.

This agreed upon procedures review was conducted in accordance with Statements on Standards for Accounting and Review Services issued by the American Institute of Certified Public Accountants. I was not engaged to and did not conduct an audit on Crow Butte Resources Financial Statements, and accordingly, will not express an opinion or any other form of assurance involved in conducting an audit of their financial statements.

The management of Crow Butte Resources, Inc. was responsible for making all records and related information used in the preparation of the surety estimate available to me. They were responsible for the accuracy and completeness of that information and for disclosing all significant information that might affect the surety estimate.

This report is intended solely for the information and use of the Crow Butte Resources, Inc., the Nebraska Department of Environmental Quality, and Fuel Cycle Licensing Branch in evaluating the 2011 Surety Estimate and is not intended and should not be used by anyone other than these specified parties.

I appreciate the opportunity to be of service to the Crow Butte Resources, Inc.

Sincerely,

George W. Klein

George W. Klein, CPA

GWK/rk

CROW BUTTE RESOURCES, INC.
URANIUM PROJECT 2010 SURETY ESTIMATE
AGREED UPON PROCEDURES ENGAGEMENT REVIEW
Prepared 9/27/09 RK

I received the first spreadsheet for the 2011 Surety Estimate on September 17, 2010. It was then revised on September 27, 2010 to take into account the following comments and changes as listed below.

The following is a summary of the tests performed and items reviewed:

I. Traced formula references to cells used throughout spreadsheet to assure the information being used was being pulled correctly. Printed out all formulas and cell locations so they could be easily reviewed and then manually calculated formulas on a test basis. Selected formulas from each spreadsheet tab and followed them to the end of the column's calculations. The following items encountered were all discussed with Larry Teahon, Manager, Environmental Health and Safety, on September 27, 2010 and the changes were made and reflected on the final spreadsheet.

1) On the Groundwater Restoration (GW REST) worksheet corrected the formulas for the "Subtotal MIT Mine Unit" totals on row 86 to correct rounding errors.

2) On the Five Year Mechanical Integrity Tests (MIT) worksheet, corrected the formula for cell O24 to correct the rounding error when the figure was pulled to the Groundwater Restoration worksheet. In addition, cells H14, H16, H18, O14, O16, O18, and O20 were updated to correct rounding errors.

3) On the Deep Disposal Well Reclamation worksheet, cells M9, M14, M15, M17, N9, N14, and N15 were reformatted to two decimal places to obtain correct totals.

4) On the Master Costs Basis worksheet, the Consumer Price Index (CPI) was adjusted from 216.9 to 218.0 after a review of historical CPI data showed the information was recorded incorrectly.

II. Contacted selected vendors to confirm expense costs and rates used.

1) Called Nebraska Machinery in Scottsbluff and talked with Larry Burbach on rental rates. Mr. Burbach indicated that he had recently provided information via email to Bob Tiensvold at Crow Butte Resources that all of the equipment rates had remained the same as in his letter issued on August 8, 2008. This was confirmed by Bob Tiensvold who provided a copy of the information they received from Mr. Burbach.

AGREED UPON PROCEDURES ENGAGEMENT REVIEW, page 2

2) Contacted the Solid Waste Agency of Northwest Nebraska to confirm the landfill rates and that they provide the disposal and that Stumph provides the collection service. Larry Teahon then provided copies of billings from Swann and Stumph.

3) Traced the Consumer Price Index (CPI) used to an internet source for the period of June 2010.

4) Received the spreadsheet from Larry Teahon showing the basis of their diesel price of 2.63. This was verified by searching for the weekly diesel pump price for their area and reducing it by the fuel tax rate of 51.8 cents in order to confirm the off road diesel price.

5) Contacted Chadron Home Center to confirm the shredder and mixing unit rates. The mixing unit rate for a 24 hour period after a 10% discount is $35.10/day divided by an 8 hour work day equals $4.39 per hour which was rounded up to $5.00 per hour. The shredder rate for a 24 hour period after a 10% discount is $86.40/day divided by an 8 hour work day equals $10.80 per hour and Crow Butte is rounding it up to $12 an hour. Both seem reasonable and adding a small cushion has a very minimal effect on the overall calculation.

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Total Restoration and Reclamation Cost Estimate

I.	Groundwater Restoration (Sheets 3 to 6)		$18,046,417
II.	Wellfield Reclamation (Sheets 7 to 10)		$7,688,192
III.	Commercial Plant Reclamation/Decommissioning (Sheets 11 to 14)		$783,185
IV.	R.O. Building Reclamation/Decommissioning (Sheets 11 to 14)		$114,700
V.	Evaporation Pond Reclamation (Sheets 15 to 18)		$1,037,049
VI.	Miscellaneous Site Reclamation (Sheets 19 to 21)		$362,751
VII.	Deep Disposal Well Reclamation (Sheet 22)		$128,411
VIII.	I-196 Brule Aquifer Restoration (Sheets 23 to 24)		$37,930
	Subtotal Reclamation and Restoration Cost Estimate		$28,198,635
	Contract Administration	10%	$2,819,864
	Contingency	15%	$4,229,795
		TOTAL	$35,248,294

Comparison of Total Surety and Major Cost Elements to Previous Year			
Projected Costs for 2011 are Compared with Costs for 2010 and Changes are Calculated			
Total Surety	**2011**	**2010**	**Change**
	$35,248,294	$28,902,051	$6,346,243
Contract Administration	**2011**	**2010**	**Change**
	$2,819,864	$2,312,164	$507,700
	2011	**2010**	**Change**
Contingency	$4,229,795	$3,468,246	$761,549
Groundwater Restoration	**2011**	**2010**	**Change**
Groundwater IX			
Total Gallons Processed (Kgal)	2,606,883	1,969,413	637,470
Total Cost	$1,147,029	$1,378,589	($231,560)
RO Treatment			
Total Gallons Processed (Kgal)	5,213,766	3,938,826	1,274,940
Total Cost	$8,967,678	$7,956,429	$1,011,249
Recirculation			
Total Gallons Processed (Kgal)	1,737,922	1,312,942	424,980
Total Cost	$556,135	$603,953	($47,818)
Sampling and Monitoring			
Total On Site Samples	48,813	39,744	9,069
Total On Site Analysis Costs	$2,504,595	$1,988,790	$515,805
Total Contract Samples	2,191	1,931	260
Total Contract Analysis Costs	$438,200	$386,200	$52,000
Wellfield Reclamation	**2011**	**2010**	**Change**
Pipeline Removal and Loading	$1,754,611	$1,125,530	$629,081
Well Abandonment			
Total Number of Wells	4,691	4,606	85
Total Abandonment Cost	$1,983,026	$1,931,231	$51,795
Site Reclamation	**2011**	**2010**	**Change**
Site Earthwork	$855,396	$619,068	$236,328
Plant and Equipment Decontamination	**2011**	**2010**	**Change**
Decontamination Costs	$192,159	$170,589	$21,570
Demolition Costs	$426,710	$343,700	$83,010
Piping Shredding Costs	$594,639	$369,670	$224,969
Transportation and Disposal	**2011**	**2010**	**Change**
Byproduct Material			
Soil-Type Materials, Total Volume (Yd3)	4,376	4,344	32
Soil-Type Materials, Total Cost	$1,094,264	$652,732	$441,532
Unpackaged Bulk Materials, Total Volume (Yd3)	2,896	2,736	160
Unpackaged Bulk Materials, Total Cost	$642,523	$978,241	($335,718)

Crow Butte Resources Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Ground Water Restoration

				Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
I.	**IX Treatment Costs**													
	PV's Required			3	3	3	3	3	3	3	3	3	3	
	Total Kgals for Treatment			64866	57219	104103	157680	181311	213447	323109	273090	685485	546573	2606883
	IX Treatment Unit Cost ($/Kgal)	(Sheet 25)		$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	$0.44	
	Subtotal IX Treatment Costs per Wellfield			**$28,541.04**	**$25,176.36**	**$45,805.32**	**$69,379.20**	**$79,776.84**	**$93,916.68**	**$142,167.96**	**$120,159.60**	**$301,613.40**	**$240,492.12**	**$1,147,028.52**
Total IX Treatment Costs				**$1,147,028.52**										
II.	**Reverse Osmosis Costs**													
	PV's Required			6	6	6	6	6	6	6	6	6	6	
	Total Kgals for Treatment			129732	114438	208206	315360	362622	426894	646218	546180	1370970	1093146	5213766
	Reverse Osmosis Unit Cost ($/Kgal)	(Sheet 26)		$1.72	$1.72	$1.72	$1.72	$1.72	$1.72	$1.72	$1.72	$1.72	$1.72	$1.72
	Subtotal Reverse Osmosis Costs per Wellfield			**$223,139.04**	**$196,833.36**	**$358,114.32**	**$542,419.20**	**$623,709.84**	**$734,257.68**	**$1,111,494.96**	**$939,429.60**	**$2,358,068.40**	**$1,880,211.12**	**$8,967,677.52**
Total Reverse Osmosis Costs				**$8,967,677.52**										
III.	**Recirculation Costs**													
	PV's Required			2	2	2	2	2	2	2	2	2	2	
	Total Kgals for Treatment			43244	38146	69402	105120	120874	142298	215406	182060	456990	364382	1737922
	Recirculation Unit Cost ($/Kgal)	(Sheet 27)		$0.32	$0.32	$0.32	$0.32	$0.32	$0.32	$0.32	$0.32	$0.32	$0.32	$0.32
	Subtotal Recirculation Costs per Wellfield			**$13,838.08**	**$12,206.72**	**$22,208.64**	**$33,638.40**	**$38,679.68**	**$45,535.36**	**$68,929.92**	**$58,259.20**	**$146,236.80**	**$116,602.24**	**$556,135.04**
Total Recirculation Costs				**$556,135.04**										
IV.	**Consumables**													
	Spare parts, filters and consumables =	$20,725.50	year											
	Active restoration period (months)			7.09	6.25	11.37	17.22	19.80	23.31	35.28	29.81	74.85	59.68	284.66
	Consumable usage (months restoration x annual rate estimate)			$12,245.32	$10,794.53	$19,637.41	$29,741.09	$34,197.08	$40,259.28	$60,932.97	$51,485.60	$129,275.31	$103,074.82	$491,643.41
	Subtotal Consumables per Mine Unit			**$12,245.32**	**$10,794.53**	**$19,637.41**	**$29,741.09**	**$34,197.08**	**$40,259.28**	**$60,932.97**	**$51,485.60**	**$129,275.31**	**$103,074.82**	**$491,643.41**
Total Consumables Costs				**$491,643.41**										

Crow Butte Resources Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Ground Water Restoration

				Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
V.	Monitoring and Sampling Costs													
	Guideline 8 analysis =	$200.00	analysis											
	6 parameter in-house analysis =	$51.31	analysis											
	Total restoration wells			12	18	43	33	29	25	30	21	32	24	267
	Total monitor wells			13	10	20	48	54	33	50	33	63	43	367
	IX Treatment duration (months)			1.29	1.14	2.07	3.13	3.60	4.24	6.41	5.42	13.61	10.85	51.76
	Reverse Osmosis duration (months)			4.94	4.35	7.92	12.00	13.80	16.24	24.59	20.78	52.17	41.60	198.39
	Recirculation duration (months)			0.86	0.76	1.38	2.09	2.40	2.83	4.28	3.61	9.07	7.23	34.51
	Stabilization duration (months)			12	12	12	12	12	12	12	12	12	12	
A.	Restoration Well Sampling													
1.	Well Sampling prior to restoration start													
	# of Wells			12	18	43	33	29	25	30	21	32	24	267
	$/sample			$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	
2.	IX Treatment Sampling													
	# of Wells			12	18	43	33	29	25	30	21	32	24	
	Total # samples			24	36	129	132	116	125	210	126	448	264	1610
	$/sample			$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	
3.	RO Sampling													
	# of Wells			12	18	43	33	29	25	30	21	32	24	
	Total # samples			60	72	344	396	406	400	750	441	1664	1008	5541
	$/sample			$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	

Crow Butte Resources Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Ground Water Restoration

				Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
4. Recirculation Sampling														
	# of Wells			12	18	43	33	29	25	30	21	32	24	
	Total # samples			12	18	86	99	87	75	150	84	320	192	1123
	$/sample			$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	
5. Stabilization Sampling (Guideline 8)														
	# of Wells			12	18	43	33	29	25	30	21	32	24	
	Total # samples			36	54	129	99	87	75	90	63	96	72	801
	$/sample			$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	$200.00	
6. Stabilization Sampling (6 parameter in-house)														
	# of Wells			12	18	43	33	29	25	30	21	32	24	
	Total # samples			144	216	516	396	348	300	360	252	384	288	3204
	$/sample			$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	
7. Monitor Well Sampling														
	# of Wells			13	10	20	48	54	33	50	33	63	43	
	$/sample			$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	$51.31	
	Total # samples (2.2/mo for entire period)			546	402	1028	3086	3778	2564	5201	3035	12037	6781	38458
8. Other Laboratory Costs														
	Radon. urinalysis. etc. =	$935.18	month											
	Total for Other Laboratory Costs:			$6.630.43	$5.844.88	$10.633.00	$16.103.80	$18.516.56	$21.799.05	$32.993.15	$27.877.72	$69.998.22	$55.811.54	$266.208.35
Subtotal Monitoring and Sampling Costs per Mine Unit				**$58,344.37**	**$61,095.94**	**$165,725.27**	**$268,056.90**	**$297.605.44**	**$230,688.64**	**$421,585.66**	**$259,226.46**	**$905,286.45**	**$541,388.25**	**$3,209,003.38**
Total Monitoring and Sampling Costs				**$3,209,003.38**										
VI. MIT Costs														
MIT Costs per Well				$256.61	$256.61	$256.61	$256.61	$256.61	$256.61	$256.61	$256.61	$256.61	$256.61	
Restoration period. plus stabilization				19.09	18.25	23.37	29.22	31.80	35.31	47.28	41.81	86.85	71.68	
Number of Wells MIT'd for Life of Mine Unit				144	163	293	498	550	618	710	552	863	487	
Subtotal MIT Mine Unit				**$36,951.84**	**$41,827.43**	**$75,186.73**	**$127,791.78**	**$141,135.50**	**$158,584.98**	**$182,193.10**	**$141,648.72**	**$221,454.43**	**$124,969.07**	
5-year MIT Costs for Disposal Wells		$6.425												
Number of DDWs		2												
Number of MITs per DDW		2												
Subtotal MIT DDW Costs			**$25,700**											
Total MIT Costs			**$1,277,444**											

Crow Butte Resources Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Ground Water Restoration

			Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
VI.	**Supervisory Labor Cost**												
	Engineer Support =	$8,795.70 month											
	HP Technician support =	$5,560.50 month											
	Active restoration period (months)		7.09	6.25	11.37	17.22	19.80	23.31	35.28	29.81	74.85	59.68	
	Stabilization period (months)		12	12	12	12	12	12	12	12	12	12	
1	Engineer support during active restoration		$62,361.51	$54,973.13	$100,007.11	$151,461.95	$174,154.86	$205,027.77	$310,312.30	$262,199.82	$658,358.15	$524,927.38	$2,503,783.98
2	HP Technician support during active restoration		$39,423.95	$34,753.13	$63,222.89	$95,751.81	$110,097.90	$129,615.26	$196,174.44	$165,758.51	$416,203.43	$331,850.64	$1,582,851.96
3	Engineer support during final stabilization									$105,548.40	$105,548.40	$105,548.40	$316,645.20
4	HP Technician support during final stabilization									$66,726.00	$66,726.00	$66,726.00	$200,178.00
5	Cost reduction due to concurrent restoration of Mine Units				-81,615.00	-123,606.88	-142,126.38	-167,321.52	-253,243.37	-300,116.37	-623,417.99	-514,526.21	-$2,205,973.71
	Subtotal Supervisory Labor per Mine Unit		**$101,785.46**	**$89,726.26**	**$81,615.00**	**$123,606.88**	**$142,126.38**	**$167,321.52**	**$253,243.37**	**$300,116.37**	**$623,417.99**	**$514,526.21**	**$2,397,485.43**
Total Supervisory Labor Costs			**$2,397,485.43**										
TOTAL RESTORATION COST PER WELLFIELD			**$437,893.31**	**$395,833.17**	**$693,105.96**	**$1,066,841.67**	**$1,216,095.26**	**$1,311,979.16**	**$2,058,354.84**	**$1,728,676.83**	**$4,463,898.35**	**$3,396,294.76**	**$16,768,973.30**
TOTAL GROUND WATER RESTORATION COSTS			**$18,046,416.88**										

Wellfield Reclamation

	Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Totals
Wellfield Piping												
Assumptions:												
Number of Wellhouses	0	3	3	5	7	7	6	8	7.5	10	5.5	62
Total Mine Unit surface area (acres)	9.27	11.70	13.46	23.72	31.75	34.61	51.01	57.92	48.95	110.72	75.08	468.19
Total length of small diameter production and injection lines (laterals) (ft)	0	34000	39520	68900	106080	130700	172900	188200	163150	216600	92000	1212050
Total length of 3/8-inch hose (ft)					66300							66300
Total length 1-1/4-inch stinger pipe (ft)	0	0	0	0	0	50000	72000	96000	129600	105000	100000	552600
Total length of 2-inch downhole production pipe (ft)	1200	1500	30000	15600	57480	45000	96000	65000	106960	63000	97500	579240
Total Length of Trunkline (6-inch) (ft)	1000	2100	4000	600				900				8600
Total Length of Trunkline (8-inch) (ft)	4400	1300	1450	7800	3700	2000	1000	2100	2225	4300	1400	31675
Total Length of Trunkline (10-inch) (ft)								400				400
Total Length of Trunkline (12-inch) (ft)			5300	6500	31900	12000	5000	16900	11525	8000	5000	102125
Total Length of All Trunkline (ft)	5400	3400	10750	14900	35600	14000	6000	20300	13750	12300	6400	142800
Total number of production wells	3	52	57	104	214	187	205	248	195	300	160	1725
Total number of injection wells	0	79	96	169	236	309	380	412	324	500	284	2789
Total number of shallow monitor wells	0	3	3	11	25	28	25	30	20	32	24	201
Total number of perimeter monitor wells	11	10	7	9	23	26	8	20	13	31	19	177
I. Production and Injection Piping												
A. Removal and Loading												
Production and Injection Piping Removal Unit Cost ($/ft of pipe)	$1.03	$1.03	$1.03	$1.03	$1.03	$1.03	$1.03	$1.03	$1.03	$1.03	$1.03	
Subtotal Production and Injection Piping Removal and Loading Costs	*$0.00*	*$35,020.00*	*$40,705.60*	*$70,967.00*	*$109,262.40*	*$134,621.00*	*$178,087.00*	*$193,846.00*	*$168,044.50*	*$223,098.00*	*$94,760.00*	*$1,248,411.50*
B. Pipe Shredding												
Production and Injection Piping Shredding Unit Cost ($/ft of pipe)	$0.12	$0.12	$0.12	$0.12	$0.12	$0.12	$0.12	$0.12	$0.12	$0.12	$0.12	
Subtotal Production and Injection Piping Removal and Loading Costs	*$0.00*	*$4,080.00*	*$4,742.40*	*$8,268.00*	*$12,729.60*	*$15,684.00*	*$20,748.00*	*$22,584.00*	*$19,578.00*	*$25,992.00*	*$11,040.00*	*$145,446.00*
C. Equipment Costs												
Cat 924G Loader Unit Costs for removal (450'/day)	$0.00	$40,171.38	$46,693.32	$81,406.12	$125,334.70	$154,423.50	$204,283.27	$222,360.39	$192,763.54	$255,915.31	$108,699.02	
Shredder Unit Costs for shredding (450'/day)	$0.00	$7,253.33	$8,430.93	$14,698.67	$22,630.40	$27,882.67	$36,885.33	$40,149.33	$34,805.33	$46,208.00	$19,626.67	
Subtotal Equipment Costs	*$0.00*	*$47,424.71*	*$55,124.25*	*$96,104.79*	*$147,965.10*	*$182,306.17*	*$241,168.60*	*$262,509.72*	*$227,568.87*	*$302,123.31*	*$128,325.69*	*$1,690,621.21*
D. Transport and Disposal Costs (NRC-Licensed Facility)												
Chipped Volume Reduction (ft^3/ft)	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	
Chipped Volume per Wellfield (yd^3)	0.0	8.7	10.1	17.6	27.1	33.4	44.2	48.1	41.7	55.4	23.5	
Volume for Disposal Assuming 25% Void Space (yd^3)	0.0	10.9	12.6	22.0	33.9	41.8	55.3	60.1	52.1	69.3	29.4	387.4
Transportation and Disposal Unit Cost ($/$yd^3$) Unpackaged Bulk	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	
Subtotal Production and Injection Piping Transport and Disposal Costs	*$0.00*	*$2,415.88*	*$2,792.66*	*$4,876.08*	*$7,513.60*	*$9,264.55*	*$12,256.69*	*$13,320.56*	*$11,547.44*	*$15,359.65*	*$6,516.22*	*$85,863.33*
Total Production and Injection Piping Costs	**$0.00**	**$88,940.59**	**$103,364.91**	**$180,215.87**	**$277,470.70**	**$341,875.72**	**$452,260.29**	**$492,260.28**	**$426,738.81**	**$566,572.96**	**$240,641.91**	**$3,170,342.04**

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Wellfield Reclamation

		Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Totals
II.	**Trunklines**												
A.	Removal and Loading												
	Trunkline Removal Unit Cost ($/ft of pipe)	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	
	Subtotal Trunkline Removal and Loading Costs	*$12,582.00*	*$7,922.00*	*$25,047.50*	*$34,717.00*	*$82,948.00*	*$32,620.00*	*$13,980.00*	*$47,299.00*	*$32,037.50*	*$28,659.00*	*$14,912.00*	*$332,724.00*
B.	Pipe Shredding												
	Trunkline Shredding Unit Cost ($/ft of pipe)	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	$2.33	
	Subtotal Trunkline Shredding Costs	*$12,582.00*	*$7,922.00*	*$25,047.50*	*$34,717.00*	*$82,948.00*	*$32,620.00*	*$13,980.00*	*$47,299.00*	*$32,037.50*	*$28,659.00*	*$14,912.00*	*$332,724.00*
C.	Equipment Costs												
	Cat 924G Loader Unit Costs for removal (200'/day)	$14,355.36	$9,038.56	$28,577.80	$39,610.16	$94,639.04	$37,217.60	$15,950.40	$53,965.52	$36,553.00	$32,698.32	$17,013.76	
	Shredder Unit Costs for shredding (200'/day)	$2,592.00	$1,632.00	$5,160.00	$7,152.00	$17,088.00	$6,720.00	$2,880.00	$9,744.00	$6,600.00	$5,904.00	$3,072.00	
	Subtotal Equipment Costs	*$16,947.36*	*$10,670.56*	*$33,737.80*	*$46,762.16*	*$111,727.04*	*$43,937.60*	*$18,830.40*	*$63,709.52*	*$43,153.00*	*$38,602.32*	*$20,085.76*	*$448,163.52*
D.	Transport and Disposal Costs (NRC-Licensed Facility)												
	Chipped Volume Reduction (6-inch) (ft^3/ft)	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	0.0651	
	Chipped Volume Reduction (8-inch) (ft^3/ft)	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	0.1103	
	Chipped Volume Reduction (10-inch) (ft^3/ft)	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	0.1712	
	Chipped Volume Reduction (12-inch) (ft^3/ft)	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	0.2408	
	Chipped Volume per Wellfield (yd^3)	20.4	10.4	62.8	91.3	299.6	115.2	48.7	164.0	111.9	88.9	50.3	
	Volume for Disposal Assuming 25% Void Space (ft^3)	25.5	13.0	78.5	114.1	374.5	144.0	60.9	205.0	139.9	111.1	62.9	1329.4
	Transportation and Disposal Unit Cost ($/$ft^3$)	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	
	Subtotal Transport and Disposal Costs	*$5,651.82*	*$2,881.32*	*$17,398.74*	*$25,289.12*	*$83,004.18*	*$31,916.16*	*$13,497.88*	*$45,436.20*	*$31,007.44*	*$24,624.20*	*$13,941.16*	*$294,648.22*
Total Trunkline Costs		**$47,763.18**	**$29,395.88**	**$101,231.54**	**$141,485.28**	**$360,627.22**	**$141,093.76**	**$60,288.28**	**$203,743.72**	**$138,235.44**	**$120,544.52**	**$63,850.92**	**$1,408,259.74**
III.	**Downhole Pipe**												
A.	Removal and Loading												
	Downhole Piping Removal Unit Cost ($/ft of pipe)	$0.120	$0.120	$0.120	$0.120	$0.120	$0.120	$0.120	$0.120	$0.120	$0.120	$0.120	
	Downhole Hosing Removal Unit Cost ($/ft of pipe)	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	$0.230	
	Removal of 1-1/4-inch stinger pipe	$0.00	$0.00	$0.00	$0.00	$0.00	$6.000.00	$8.640.00	$11,520.00	$15,552.00	$12,600.00	$12.000.00	
	Removal of downhole production pipe	$144.00	$180.00	$3,600.00	$1,872.00	$6,897.60	$5,400.00	$11,520.00	$7,800.00	$12,835.20	$7,560.00	$11,700.00	
	Removal of downhole hose	$0.00	$0.00	$0.00	$0.00	$15,249.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	
	Subtotal Downhole Piping Removal and Loading Costs	*$144.00*	*$180.00*	*$3,600.00*	*$1,872.00*	*$22,146.60*	*$11,400.00*	*$20,160.00*	*$19,320.00*	*$28,387.20*	*$20,160.00*	*$23,700.00*	*$151,069.80*
B.	Pipe Shredding												
	Downhole Piping Shredding Unit Cost ($/ft of pipe)	$0.100	$0.100	$0.100	$0.100	$0.100	$0.100	$0.100	$0.100	$0.100	$0.100	$0.100	
	Subtotal Downhole Piping Shredding Costs	*$120.00*	*$150.00*	*$3,000.00*	*$1,560.00*	*$5,748.00*	*$9,500.00*	*$16,800.00*	*$16,100.00*	*$23,656.00*	*$16,800.00*	*$19,750.00*	*$113,184.00*
C.	Equipment Costs												
	Smeal Unit Costs for removal	$60.00	$75.00	$1,500.00	$780.00	$2,874.00	$4,750.00	$8,400.00	$8,050.00	$11,828.00	$8,400.00	$9,875.00	
	Shredder Unit Costs for shredding	$25.60	$32.00	$640.00	$332.80	$1,226.24	$2,026.67	$3,584.00	$3,434.67	$5,046.61	$3,584.00	$4,213.33	
	Subtotal Equipment Costs	*$85.60*	*$107.00*	*$2,140.00*	*$1,112.80*	*$4,100.24*	*$6,776.67*	*$11,984.00*	*$11,484.67*	*$16,874.61*	*$11,984.00*	*$14,088.33*	*$80,737.92*

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Wellfield Reclamation

	Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Totals
D. Transport and Disposal Costs (NRC-Licensed Facility)												
Chipped Volume Reduction - 1-1/4-inch stinger (ft^3/ft)	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	0.0044	
Chipped Volume Reduction - 2-inch downhole production (ft^3/ft)	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	
Volume Reduction - 3/8-inch hose (ft3/ft)	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	0.0313	
Chipped Volume - 1-1/4-inch stinger (ft^3)	0	0	0	0	0	220	317	422	570	462	440	
Chipped Volume - 2-inch downhole production (ft^3)	9	11	222	115	425	333	710	481	792	466	722	
Volume 3/8-inch hose (ft3)	0	0	0	0	2075	0	0	0	0	0	0	
Volume for Disposal Assuming 25% Void Space (yd^3)	0.4	0.5	10.3	5.3	115.7	25.6	47.5	41.8	63.1	43.0	53.8	407.0
Transportation and Disposal Unit Cost ($/$yd^3$) (Unpackaged Bulk)	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	$221.64	
Subtotal Downhole Piping Transport and Disposal Costs	*$88.66*	*$110.82*	*$2,282.89*	*$1,174.69*	*$25,643.75*	*$5,673.98*	*$10,527.90*	*$9,264.55*	*$13,985.48*	*$9,530.52*	*$11,924.23*	*$90,207.47*
Total Downhole Piping Costs	**$438.26**	**$547.82**	**$11,022.89**	**$5,719.49**	**$57,638.59**	**$33,350.65**	**$59,471.90**	**$56,169.22**	**$82,903.29**	**$58,474.52**	**$69,462.56**	**$435,199.19**
IV. Surface Reclamation												
A. Removal and disposal of contaminated soil around wells												
Volume of contaminated soil (0.37 yd3 per injection and production well)	1.11	48.47	56.61	101.01	166.5	183.52	216.45	244.20	192.03	296.00	164.28	1670.18
Disposal of contaminated soil $250.05 per yd3	$277.56	$12,119.92	$14,155.33	$25,257.55	$41,633.33	$45,889.18	$54,123.32	$61,062.21	$48,017.10	$74,014.80	$41,078.21	$417,628.51
Equipment (Cat.924G loader at 2 yd3/hr)	$36.89	$1,610.66	$1,881.15	$3,356.56	$5,532.80	$6,098.37	$7,192.63	$8,114.77	$6,381.16	$9,836.08	$5,459.02	
Labor (1 man-hour per 2 Yd3)	$16.13	$704.42	$822.72	$1,467.99	$2,419.77	$2,667.12	$3,145.69	$3,548.99	$2,790.80	$4,301.81	$2,387.50	
Subtotal removal and disposal of contaminated soil	*$330.58*	*$14,435.00*	*$16,859.20*	*$30,082.10*	*$49,585.90*	*$54,654.67*	*$64,461.64*	*$72,725.97*	*$57,189.06*	*$88,152.69*	*$48,924.73*	*$497,401.54*
B. Recontour and seeding												
Recontour and seeding (est. $300/acre)	$2,781.00	$3,510.00	$4,038.00	$7,116.00	$9,525.00	$10,383.00	$15,303.00	$17,376.00	$14,685.00	$33,216.00	$22,524.00	
Subtotal Recontour and Seeding	*$2,781.00*	*$3,510.00*	*$4,038.00*	*$7,116.00*	*$9,525.00*	*$10,383.00*	*$15,303.00*	*$17,376.00*	*$14,685.00*	*$33,216.00*	*$22,524.00*	*$140,457.00*
Total Surface Reclamation	**$3,111.58**	**$17,945.00**	**$20,897.20**	**$37,198.10**	**$59,110.90**	**$65,037.67**	**$79,764.64**	**$90,101.97**	**$71,874.06**	**$121,368.69**	**$71,448.73**	**$637,858.54**
IV. Well Houses												
Total Quantity	0	3	3	5	7	7	6	8	7.5	10	5.5	
Average Well House Weight (Lbs.) (Includes wellhead covers for each well)	9200	9200	9200	9200	9200	9200	9200	9200	9200	9200	9200	
A. Removal												
Dismantlement at 2-man-days per wellhouse (man-days)	0	6	6	10	14	14	12	16	15	20	11	
Dismantlement Labor Costs	$0.00	$1,395.18	$1,395.18	$2,325.30	$3,255.42	$3,255.42	$2,790.36	$3,720.48	$3,487.95	$4,650.60	$2,557.83	$28,833.72
Equipment (Cat 924G at 2 hours per wellhouse) (hrs)	0	6	6	10	14	14	12	16	15	20	11	
Equipment Costs	$0.00	$398.76	$398.76	$664.60	$930.44	$930.44	$797.52	$1,063.36	$996.90	$1,329.20	$731.06	$8,241.04
Subtotal Well House Dismantlement Costs	*$0.00*	*$1,793.94*	*$1,793.94*	*$2,989.90*	*$4,185.86*	*$4,185.86*	*$3,587.88*	*$4,783.84*	*$4,484.85*	*$5,979.80*	*$3,288.89*	*$37,074.76*
B. Disposal												
Total Disposal Weight (9200 lbs per wellhouse) (Lbs)	0	27600	27600	46000	64400	64400	55200	73600	69000	92000	50600	
Subtotal Disposal Costs	*$0.00*	*$529.09*	*$529.09*	*$881.82*	*$1,234.55*	*$1,234.55*	*$1,058.18*	*$1,410.91*	*$1,322.73*	*$1,763.64*	*$970.00*	*$10,934.56*
Total Well House Removal and Disposal Costs	**$0.00**	**$2,323.03**	**$2,323.03**	**$3,871.72**	**$5,420.41**	**$5,420.41**	**$4,646.06**	**$6,194.75**	**$5,807.58**	**$7,743.44**	**$4,258.89**	**$48,009.32**
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD	**$51,313.02**	**$139,152.32**	**$238,839.57**	**$368,490.46**	**$760,267.82**	**$586,778.21**	**$656,431.17**	**$848,469.94**	**$725,559.18**	**$874,704.13**	**$449,663.01**	**$5,699,668.83**

TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS	**$5,699,668.83**

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Well Abandonment

			Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11	Total
I.	**Well Abandonment (Wellfields)**													
	# of Production Wells		3	52	57	104	214	187	205	248	195	300	160	
	# of Injection Wells		0	79	96	169	236	309	380	412	324	500	284	
	# of Perimeter Monitoring Wells		11	10	7	9	23	26	8	20	13	31	19	
	# of Shallow Monitoring Wells		0	3	3	11	25	28	25	30	20	32	24	
	Total Number of Deep Wells		14	141	160	282	473	522	593	680	532	831	463	4691
	Total Number of Shallow Wells		0	3	3	11	25	28	25	30	20	32	24	201
	Average Diameter of Casing (inches)		5	5	5	5	5	5	5	5	5	5	5	
	Production, Injection and Perimeter Well Average Depth (ft)		665	631	774	698	675	515	762	500	770	480	775	659
	Shallow Well Average Depth (ft)		200	200	200	200	200	200	200	200	200	150	188	194
	Total Mine Unit Well Depth (ft)		9310	89571	124440	199036	324275	274430	456866	346000	413640	403680	363337	3004585
	Well Abandonment Unit Cost ($/ft. of well)		$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	$0.66	-
	Subtotal Abandonment Cost per Wellfield		**$6,144.60**	**$59,116.86**	**$82,130.40**	**$131,363.76**	**$214,021.50**	**$181,123.80**	**$301,531.56**	**$228,360.00**	**$273,002.40**	**$266,428.80**	**$239,802.42**	**$1,983,026.10**
II.	**Downhole Pump Disposal**													
	Number of Downhole Pumps	1341												
	Pump Disposal Volume(ft3)	0.5												
	Total Pump Disposal Volume(yd3)	24.8												24.8
	Downhole Pump Disposal Rate ($/yd3)	$221.64												221.64
	Subtotal Downhole Pump Disposal		**$5,496.67**											**$5,496.67**
Total Wellfield Abandonment Costs			**$1,988,522.77**											

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Plant Equipment Decommissioning	Commercial Plant	R.O. Building
I. Removal and Loading Costs		
Tankage		
Number of Contaminated Tanks	81	
Volume of Contaminated Tank Construction Material (ft^3)	1563	
Number of Chemical Tanks	20	
Disposal Void Factor	1.25	
A. Labor to Remove and Load Tankage		
Number of Persons	2	
Tanks/Day	1	
Number of Days	101	
$/Day/Person	$232.53	
Subtotal Removal Labor Costs	*$46,971.06*	
B. Labor to Clean Chemical Tankage		
Number of Persons	1	
Tanks/Day	1	
Number of Days	20	
$/Day/Person	$232.53	
Subtotal Cleaning Labor Costs	*$4,650.60*	
C. Equipment		
Saws, scaffolding, etc.	$6,000	
Subtotal Equipment Costs	*$6,000*	
Total Equipment Removal and Loading Costs	**$57,621.66**	
II. Transportation and Disposal Costs (NRC-Licensed Facility)		
A. Tankage		
Volume of Tank Construction Material (ft^3)	1563	
Volume for Disposal Assuming Void Space (yd^3)	72.4	
Transportation and Disposal Unit Cost ($/yd^3) (Unpackaged Bulk)	$221.64	
Subtotal Tankage Transportation and Disposal Costs	*$16,046.74*	
B. Contaminated PVC Pipe		
Volume of Shredded PVC Pipe (ft^3)	345.4	
Volume for Disposal Assuming Void Space (yd^3)	16.0	
Transportation and Disposal Unit Cost ($/yd^3) (Unpackaged Bulk)	$221.64	
Subtotal Contaminated PVC Pipe Transportation and Disposal Costs	*$3,546.24*	
C. Pumps		
Volume of Process Pumps (yd^3) (no void factor used)	18.7	

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Plant Equipment Decommissioning				
			Commercial Plant	R.O. Building
		Transportation and Disposal Unit Cost ($/yd^3) (Unpackaged Bulk)	$221.64	
		Subtotal Pump Transportation and Disposal Costs	*$4,144.67*	
	D.	Filters (injection, backwash and yellowcake filters)		
		Volume of Filters (yd^3) (no void factor used)	300.0	
		Transportation and Disposal Unit Cost ($/yd^3) (Unpackaged Bulk)	$221.64	
		Subtotal Filter Transportation and Disposal Costs	*$66,492.00*	
	E.	Dryer		
		Dryer Volume (yd^3) (no void factor used)	29.6	
		Transportation and Disposal Unit Cost ($/yd^3) (Unpackaged Bulk)	$221.64	
		Total Dryer Transportation and Disposal Costs	*$6,560.54*	
	Total Contaminated Equipment Transportation and Disposal Costs		**$96,790.19**	
III.	**Transportation and Disposal (Solid Waste for Landfill Disposal)**			
	A.	Cleaned Tankage		
		Volume of Tank Construction Material (ft^3)	386	
		Number of Landfill Trips	1	
		Transportation and Disposal Unit Cost ($/Load)	$212.00	
		Subtotal Tankage Transportation and Disposal Costs	*$212.00*	
	B.	Uncontaminated PVC Pipe		
		Volume of Shredded PVC Pipe (ft^3)	177.6	
		Number of Landfill Trips	1	
		Transportation and Disposal Unit Cost ($/Load)	$212.00	
		Subtotal PVC Pipe Transportation and Disposal Costs	*$212.00*	
	Total Uncontaminated Equipment Transportation and Disposal Costs		**$424.00**	
IV.	**Supervisory Labor Costs During Plant Decommissioning**			
		Estimated Duration (months)	6	
		Engineer	$52,774.20	
		Radiation Technician	$33,363.00	
	Total Supervisory Labor Costs		**$86,137.20**	
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY			$240,973.05	
		Building Area (Ft2)	34,138	5,000
		Building Equipment Removal and Disposal Cost per Square Foot	$7.06	$7.06
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS			**$240,973.05**	**$35,300.00**

Building Demolition

	Commercial Plant	R.O. Building
I. Decontamination Costs		
A. Wall Decontamination		
Area to be Decontaminated (ft^2)	31,382	
HCl Application Rate (Gallons/ft^2)	1	
HCl Acid Cost	$1.18	
Subtotal Wall Decontamination Materials Costs	$37,030.76	
B. Concrete Floor Decontamination		
Area to be Decontaminated (ft^2)	34138	
HCl Application Rate (Gallons/ft^2)	2	
HCl Acid Cost	$1.18	
Subtotal Floor Decontamination Materials Costs	$80,565.68	
C. Decontamination Labor		
Labor (man-days)	60	
Subtotal Decontamination Labor Cost	$13,951.80	
D. Decontamination Equipment Costs		
Sprayer pump	$500	
Recycle pump	$500	
Sprayer with hose	$1,000	
Subtotal Decontamination Equipment Costs	$2,000	
E. Decontamination Waste Disposal (to Ponds)		
Total gallons HCl waste	99,658	
Pumping costs (5 HP/30 gpm)	$989.52	
Subtotal Decontamination Costs	$134,537.76	
Total Decontamination Costs	**$134,537.76**	
II. Demolition Costs		
Assumptions (based on 2007 costs):		
Dismantling interior steel, tanks, pumps, etc.	$198,800.00	
Dismantling plant building	$99,400.00	
A. Building Dismantling		
Dismantle interior components (2007 $'s escalated by CPI)	$200,986.80	
Plant building dismantling (2007 $'s escalated by CPI)	$100,493.40	
Subtotal Building Dismantling	*$301,480.20*	
B. Concrete Floor Removal		
Area of direct-dispose concrete floors (ft2)	5,500	
Removal Rate ($/ft2)	$14.04	

Building Demolition

			Commercial Plant	R.O. Building
		Subtotal Concrete Floor Removal	*$77,220.00*	
	Total Demolition Costs		**$378,700.20**	
III.	**Disposal Costs**			
	A. Concrete Floor			
		Area of Direct-Dispose Concrete Floor (ft^2)	5,500	
		Average Thickness of Concrete Floor (ft)	0.50	
		Volume of Concrete Floor (ft^3)	2,750	
		Volume of Concrete Floor (Yd3)	102	
		Transportation and Disposal Unit Cost ($/Yd^3) (Unpackaged Bulk)	$221.64	
		Subtotal Concrete Floor Disposal Costs	*$22,607.28*	
	Total Disposal Costs		**$22,607.28**	
IV	**Plant Site Reclamation**			
	A. Plant Site Earthwork			
		Material to be Moved (Yd3)	20,000	
		D8N Bulldozer Earthwork Rate (Yd3/hr)	700	
		D8N Hourly Rate	$180.82	
		Subtotal Plant Site Earthwork	*$5,166.29*	
	B. Revegetation			
		Area requiring Revegetation (Ac)	4	
		Revegetation Unit Cost ($/Ac)	$300	
		Subtotal Plant Site Revegetation	*$1,200.00*	
	Total Plant Site Reclamation Costs		**$6,366.29**	
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			$542,211.53	
		Building Area (Ft2)	34,138	5,000
		Building Demolition Cost per Square Foot	$15.88	$15.88
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			**$542,211.53**	**$79,400.00**

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Evaporation Pond Reclamation			
	Commercial Ponds	R&D Ponds	Total
Assumptions/Data:			
Number of Ponds	3	2	
Area of Ponds (ft2)	250,000	50,000	
Thickness of Liner Material (ft)	0.00833	0.0030	
Leak detection piping size (in)	4	3	
Leak detection piping length (ft/pond)	2,100	600	
Earthwork Requirements (Yd3/pond)	60,000	30,000	
Surface Restoration/Revegetation (Acres)	20	10	
Sludge Production Rate (Yd3 sludge/gal)		0.000000102	
(1 Yd3 sludge/9,772,000 gal R&D Phase)			
Estimated 1991 to 2011 Total Production (gallons)	26,526,980,400		
Liner Removal Rate (ft2/man-day)	10,000	10,000	
Sludge Removal Rate (Yd3/man-day)	8.33	8.33	
I. Pond Liner and Piping Removal			
A. Pond Liner and Piping Removal Labor			
Area of Ponds	750,000	100,000	
Liner Removal Rate (ft2/Man-Day)	10,000	10,000	
Total Man-Days	75	10	
Labor Rate ($/man-day)	$232.53	$232.53	
Subtotal Liner and Piping Removal Labor Costs	*$17,439.75*	*$2,325.30*	*$19,765.05*
B. Pond Liner and Piping Removal Equipment			
Total Man-Days Removal Effort	75	10	
Size of Crew	4	4	
Total Days Removal Effort	18.75	2.5	
Cat 924G Loader Hourly Rate ($/hr)	$66.46	$66.46	
Subtotal Liner and Piping Removal Equipment Costs	*$9,969.00*	*$1,329.20*	*$11,298.20*
Total Pond Liner and Piping Removal Costs	**$27,408.75**	**$3,654.50**	**$31,063.25**

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Evaporation Pond Reclamation				
		Commercial Ponds	**R&D Ponds**	**Total**
II.	**Pond Sludge Removal**			
	Pond Sludge Estimate			
	Estimated Production Flow since 1991 (gal)	26,526,980,400		
	Historical Sludge Production Rate	0.000000102		
	Estimated Pond Sludge Volume (Yd3)	2,706	Cleaned following R&D	
A.	Pond Sludge Removal Labor			
	Pond Sludge Volume (Yd3)	2,706		2,706
	Sludge Removal Rate (Yd3/man-day)	8.33		
	Total Man-Days	325		
	Labor Rate ($/man-day)	$232.53		
	Subtotal Pond Sludge Removal Labor Costs	*$75,572.25*	*$0.00*	*$75,572.25*
B.	Pond Sludge Removal Equipment			
	Total Man-Days Removal Effort	325		
	Size of Crew	3		
	Total Days Removal Effort	108		
	Cat 924G Loader Hourly Rate ($/hr)	$66.46		
	Subtotal Pond Sludge Removal Equipment Costs	*$57,421.44*	*$0.00*	*$57,421.44*
	Total Pond Sludge Removal Costs	**$132,993.69**	**$0.00**	**$132,993.69**
III.	**Pond Byproduct Material Disposal**			
A.	Pond Liner Disposal			
	Area of Pond Liner (ft2)	750,000	100,000	
	Thickness of Pond Liner (ft)	0.00833	0.00300	
	Volume of Pond Liner (ft3)	6,248	300	
	Void Space Factor	1.25	1.25	
	Total Disposed Volume (yd3)	289	14	303.0
	Disposal Unit Costs ($/yd3) (Unpackaged Bulk)	$221.64	$221.64	
	Subtotal Pond Liner Disposal Costs	*$64,053.96*	*$3,102.96*	*$67,156.92*

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Evaporation Pond Reclamation				
		Commercial Ponds	**R&D Ponds**	**Total**
B.	Pond Piping Disposal			
	Total Length of Piping	6,300	1,200	
	Piping Volume Factor (ft3/ft)	0.0103	0.0069	
	Total Volume Pond Piping (ft3)	65	8	
	Void Space Factor	1.25	1.25	
	Total Disposed Volume (yd3)	3.0	0.4	3.4
	Disposal Unit Costs ($/yd3) (Unpackaged Bulk)	$221.64	$221.64	-
	Subtotal Pond Piping Disposal Costs	*$664.92*	*$88.66*	*$753.58*
C.	Pond Sludge Disposal			
	Total Volume Pond Sludge (Yd3)	2,706		2,706
	Disposal Unit Costs ($/yd3) (Soil rate)	$250.05		
	Subtotal Pond Sludge Disposal Costs	*$676,635.30*	*$0.00*	*$676,635.30*
Total Byproduct Material Disposal Costs		**$741,354.18**	**$3,191.62**	**$744,545.80**
IV	**Pond Site Reclamation**			
A.	Pond Earthwork Requirements			
	Earthwork Requirements Yd3)	180,000	60,000	
	D8N Bulldozer Earthwork Rate (Yd3/hr)	700	700	
	Total D8N Hours	257	86	
	D8N Hourly Rate	$180.82	$180.82	
	Subtotal Pond Earthwork	*$46,470.74*	*$15,550.52*	*$62,021.26*
B.	Revegetation			
	Area requiring Revegetation (Ac)	20	10	
	Revegetation Unit Cost ($/Ac)	$300.00	$300.00	
	Subtotal Plant Site Revegetation	*$6,000.00*	*$3,000.00*	
Total Pond Site Reclamation Costs		**$52,470.74**	**$18,550.52**	$71,021.26

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Evaporation Pond Reclamation			
	Commercial Ponds	**R&D Ponds**	**Total**
V. Supervisory Labor Costs During Pond Reclamation			
Estimated Duration (months)	4		
Engineer Rate ($/month)	$8,795.70		
Total Engineer Labor	$35,182.80		
Radiation Technician Rate ($/month)	$5,560.50		
Total Radiation Technician Labor	$22,242.00		
Total Supervisory Labor Costs	**$57,424.80**	**$0.00**	$57,424.80
TOTAL EVAPORATION POND RECLAMATION PER POND	**$1,011,652.16**	**$25,396.64**	**$1,037,048.80**
TOTAL EVAPORATION POND RECLAMATION COSTS	**$1,037,048.80**		

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
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Miscellaneous Site Reclamation			
I.	**Access Road Reclamation**		
	Assumptions		
	Road Reclamation production rate (Yd3/hr)		200
	Length of Main Access Roads (ft)		17,900
	Average Main Access Road width (ft)		25
	Depth of Main Access Road Gravel Surface (ft)		1
	Surface Area of Main Access Road (Ac)		10.3
	Length of Wellfield Access Roads (ft)		56,900
	Average Wellfield Access Road width (ft)		12
	Depth of Wellfield Access Road Gravel Surface (ft)		0.5
	Surface Area of Wellfield Road (Ac)		15.7
	A. Main Access Road Dirtwork		
	Main Access Road Gravel Volume (Yd3)		16,574
	Total reclamation time (hrs)		83
	D8N Unit Operating Cost ($/hr)		$180.82
	Subtotal Main Access Road Gravel Roadbase Removal Costs		*$15,008.06*
	B. Wellfield Road Dirtwork		
	Wellfield Road Gravel Volume (Yd3)		12,644
	Total reclamation time (hrs)		63
	D8N Unit Operating Cost ($/hr)		$180.82
	Subtotal Wellfield Road Gravel Roadbase Removal Costs		*$11,391.66*
	E. Discing/Seeding		
	Assumptions		
	Surface Area (acres)		26.0
	Discing/Seeding Unit Cost ($/acre)		$300.00
	Subtotal Discing/Seeding Costs		*$7,800.00*
	Total Access Road Reclamation Costs		**$34,199.72**

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
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Miscellaneous Site Reclamation				
II.	**Wastewater Pipeline Reclamation**			
	Assumptions			
		Pipeline Removal Rate (ft./man-day)		67
		Pipeline Shredding Rate (ft./man-day)		1,500
		Number of Pond Pipelines		4
		Length of Pond Pipelines (ft)		3,500
		Number of RO Building Pipelines		4
		Length of RO Building Pipelines (ft)		300
		Average Pipe Size (Sch 40)		4
	A. Pipeline Removal Costs			
		Length of Pipelines (ft)		15,200
		Removal Rate (ft/man-day)		67
		Removal Labor Rate ($/man-day)		$232.53
		Cat 924G Loader Use (days)		227
		Cat 924G Loader Cost		$120,691.36
		Subtotal Pipeline Removal Costs		*$173,475.67*
	B. Pipeline Shredding Costs			
		Length of Pipelines (ft)		15,200
		Shredding Rate (ft/man-day)		1,500
		Shredding Labor Rate ($/man-day)		$232.53
		Shredder Use (days)		10
		Shredder Cost		$960.00
		Subtotal Pipeline Shredding Costs		*$3,285.30*

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
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Miscellaneous Site Reclamation			
	C.	Pipeline Transportation and Disposal (NRC-Licensed Facility)	
		Pipe Diameter (inches)	4
		Chipped Volume Reduction (ft^3/ft)	0.0103
		Subtotal Volume of Shredded PVC Pipe (yd^3)	5.8
		Disposal Void Factor	1.25
		Final Disposal Volume (yd3)	7.25
		Transportation and Disposal Unit Cost ($/yd^3$) (Unpackaged Bulk)	$221.64
		Subtotal Pipeline Disposal Costs	*$1,606.89*
	Total Wastewater Pipeline Reclamation Costs		**$178,367.86**
III.	**Electrical Distribution System Removal**		
	Assumptions		
		Length of High Voltage Lines	48,440
		High Voltage Line Removal Rate ($/ft.)	$2.17
		High Voltage Line Removal Cost ($/ft.)	$105,114.80
		Substation Removal	$2,000.00
	Subtotal Electrical Distribution System Removal Costs		**$107,114.80**
IV.	**Supervisory Labor Costs During Miscellaneous Reclamation**		
	Estimated Duration (months)		3
	Engineer Rate ($/month)		$8,795.70
	Total Engineer Labor		$26,387.10
	Radiation Technician Rate ($/month)		$5,560.50
	Total Radiation Technician Labor		$16,681.50
	Total Supervisory Labor Costs		**$43,068.60**
TOTAL MISCELLANEOUS RECLAMATION COSTS			**$362,750.98**

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Deep Disposal Well Reclamation				
I.	**Cost Basis**		Well # 1	Well # 2
	A.	Plugging and Abandonment		
		Cost Estimate from April 2009 2nd Well Permit Application for plugging and abandonment	$60,292	$60,292
		April 2009 CPI	213.2	213.2
		June 2010 CPI	218.0	218.0
		Subtotal Escalated April 2009 Plugging and Abandonment Costs	*$61,649.42*	*$61,649.42*
	B.	Site Reclamation		
		Cost Estimate from April 2009 2nd Well Permit Application for site reclamation	$2,500	$2,500
		April 2009 CPI	213.2	213.2
		June 2010 CPI	218.0	218.0
		Subtotal Escalated April 2009 Reclamation Costs	*$2,556.29*	*$2,556.29*
	Subtotal Abandonment cost per well		**$64,205.71**	**$64,205.71**
TOTAL DEEP DISPOSAL WELL RECLAMATION COSTS			**$128,411.42**	

Crow Butte Resources Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

I-196 Brule Aquifer Restoration				
I.	**Ground Water Sweep Costs**			
	Assumptions			
	PV's Required from I-196a, I-196j and I-196n			3
	Total Gallons per Pore Volume			337,758
	Total Gallons to Treat			1,013,274
	Flow Rate (gpm)			3
	Pump Power Requirements (kwh)			3
	Power Cost ($/kw)			$0.0797
	Pumping Labor (man-day per day) (1hr/day)			0.125
	Sampling Labor (man-day per day) (.5hr/day)			0.0625
	Labor Rate ($/man-day)			$232.53
	Days to complete			235
A.	Electrical Costs			
	Cost to pump 3 Pore Volumes			*$1,345.97*
B.	Labor Costs			
	Labor for pumping 3 Pore Volumes			*$6,830.57*
Total Ground Water Sweep Costs				**$8,176.54**
II.	**Monitoring and Sampling Costs**			
A.	Labor Costs for Monitoring I-196a, I-196j, and I-196n			$3,415.28
B.	Monitoring for I-196i, I-196m, and I-196l			$3,415.28
Total Monitoring and Sampling Costs				**$6,830.56**

Crow Butte Resources Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

I-196 Brule Aquifer Restoration				
III	**Additional Ground Water Sweep**			
	Pump from additional wells and monitor as above			$15,007.10
	Drill 4 additional wells, 50 ft deep at $26/ft.			$5,200.00
Total Additional Ground Water Sweep				**$20,207.10**
IV	**Well Abandonment**			
	Abandon 14 wells at $194/well			$2,716.00
Total Well Abandonment				**$2,716.00**
TOTAL I-196 BRULE AQUIFER RESTORATION COSTS				**$37,930.20**

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

GROUNDWATER RESTORATION
GROUNDWATER IX TREATMENT (GIX) Unit Costs

Assumptions:

1. All pumps are 5 hp pumping at 32 gpm
2. Cost of electricity = $0.0797 Kw hr
3. Horsepower to kilowatt conversion = 0.746 Kw/HP
4. Operator labor costs = $232.53 man-day
5. Labor costs are based on 36 pumps at 1,150 gpm

Wellfield Pumping Electrical Costs per 1000 Gallons (Includes bleed to the Deepwell / Evaporation Pond)

1000	gal	X	5	hp	X	1	hr	X	0.746	kwh	X	$ 0.0797		= $	0.155
			32	gpm		60	min		hp			kwh			

Wellfield Pumping Labor Costs per 1000 Gallons

1000	gal	X	1	min	X	1	man-day	X	$232.53		X	2	operators	= $	$0.281
			1150	gal		1440	min		man-day						

Groundwater IX Production Rate

1150	gal	X	60	min	X	24	hr	X	365	day	X	1	year	=	*50,370,000*	*gallons*
	min			hr			day			year		12	month			*month*

TOTAL GWS COSTS PER 1000 GALLONS		**= $ 0.44**	

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Groundwater Reverse Osmosis (RO) Treatment Unit Costs

Assumptions:

1.	All pumps are 5 hp pumping at 32 gpm		
2	Membrane Replacement	$0.025	per 1000 gal
3	Cost of electricity =	$0.0797	Kw hr
4	Horsepower to kilowatt conversion =	0.746	Kw/HP
5	Operator labor costs =	$232.53	man-day
6	RO System horsepower requirements for 600 gpm rated flow based upon:		
	RO Unit Pump 195 hp		
	Permeate/Injection pump 60 hp		
	Waste pump (1(Bleed - Deepwell / Evap Ponds) 12 hp		
	TOTAL: 267 hp		
7	Chemical costs:		
	Reductant =	$0.400	lb
	Antiscalant =	$17.30	gal

Membrane Replacement Costs per 1000 Gallons

1000	gal	X	$660	membrane	/	26,280,000	gallons							= $	0.025	per Kgal
				cost / month			month									

Wellfield Pumping Electrical Costs per 1000 Gallons

1000	gal	X	5	hp	X	1	hr	X	0.746	kwh	X	$ 0.0797		= $	0.155	per Kgal
			32	gpm		60	min			hp		kwh				

Reverse Osmosis Electrical Costs per 1000 Gallons

1000	gal	X	267	hp	X	1	hr	X	0.746	kwh	X	$ 0.0797		= $	0.441	per Kgal
			600	gpm		60	min			hp		kwh				

Reverse Osmosis Labor Costs per 1000 Gallons

1000	gal	X	1	min	X	1	man-day	X	$232.53		X	2	operators	= $	$0.538	per Kgal
			600	gal		1440	min		man-day							

Treatment chemical costs per 1000 Gallons

Antiscalant:																
1000	gal	X	0.000008330	gal antiscalant	X	$17.30								= $	$0.144	per Kgal
			1	gal		gal antiscalant										
Reductant:																
1000	gal	X	0.001040	lbs reductant	X	$0.400								= $	$0.416	per Kgal
			1	gal		lb reductant										

Reverse Osmosis Production Rate

600	gal	X	60	min	X	24	hr	X	365	day	X	1	year	=	*26,280,000*	*gallons*
	min			hr			day			year		12	month			*month*

TOTAL RO COSTS PER 1000 GALLONS												**= $**	**1.72**			

FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)

Assumptions:

1 Pulling Unit for 8 hr/day
2 MIT Unit for 8 hr/day
3 Labor for operation of pulling unit requires 2 workers (one operator & one laborer)
4 Labor for operation of MIT Unit requires 1 worker

MIT Costs per Well

Equipment and Labor:

Pulling Unit includes one operator					
	8 hours	X	$ 82.14	per hour	=$ 657.12
Laborer					
	8 hours	X	$ 29.07	per hour	=$ 232.56
MIT Unit includes one operator					
	8 hours	X	$ 81.25	per hour	=$ 650.00
				TOTAL MIT COST PER DAY	**=$** 1539.68
Wells Completed			6	per day	

MIT COSTS PER WELL =$ 256.61

MIT COSTS PER DEEP DISPOSAL WELL (2010 Cost) =$ **6425**

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Groundwater Recirculation Unit Costs

Assumptions:

1. All pumps are 5 hp pumping at 32 gpm
2. Cost of electricity = $0.0797 Kw hr
3. Horsepower to kilowatt conversion = 0.746 Kw/HP
4. Operator labor costs = $232.53 man-day
5. System horsepower requirements for 1,150 gpm rated flow based upon:
   injection pump 30 hp

Wellfield Pumping Electrical Costs per 1000 Gallons

	1000	gal	X	5	hp	X	1	hr	X	0.746	kwh	X	$ 0.0797		= $	0.155	per Kgal
				32	gpm		60	min		hp			kwh				

Wellfield Injection Electrical Costs per 1000 Gallons

	1000	gal	X	30	hp	X	1	hr	X	0.746	kwh	X	$ 0.0797		= $	0.026	per Kgal
				1150	gpm		60	min		hp			kwh				

Recirculation Labor Costs per 1000 Gallons

	1000	gal	X	1	min	X	1	man-day	X	$232.53		X	1	operators	= $	0.140	per Kgal
				1150	gal		1440	min		man-day							

Recirculation Production Rate

	1150	gal	X	60	min	X	24	hr	X	365	day	X	1	year	=	*50,370.000*	*gallons*
		min			hr			day			year		12	month			*month*

TOTAL RECIRCULATION COSTS PER 1000 GALLONS	**= $**	**0.32**

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

WELL ABANDONMENT Unit Costs												
Assumptions:												
1	Use backhoe for 0.25 hr/well to dig, cut off, and cap well.											
2	Drill rig used 2.5 hrs to plug well.											
3	Labor for installing chips, etc. will require 2 workers at 0.5 hrs per well											
Well Abandonment Costs											**Cost per ft (based on 700 ft wells)**	
	Labor Costs	1	hours	X	$	29.07	per hour		=$	29.07	$0.0415	
	Cat 416 Backhoe											
		0.25	hours	X	$	56.82	per hour		=$	14.21	$0.0203	
	Drill rig											
		2.5	hours	X	$	141.00	per hour		=$	352.50	$0.5036	
	Well Cap	1	each	X	$	8.03	each		=$	8.03	$0.0115	
Materials per foot of well (Variable Cost)												
	Cement	0.0714	lbs/ft	X	$	0.080	per pound		=$		$0.0057	
	Bentonite Chips	0.007	tubes/ft	X	$	7.46	per tube		=$		$0.0522	
	Plug Gel	0.0086	sacks/ft	X	$	3.35	per sack		=$		$0.0288	
Total Estimated Cost per Foot:											**$0.66**	

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Master Cost Basis

Mine Unit Data

		Mine Unit 1	Mine Unit 2	Mine Unit 3	Mine Unit 4	Mine Unit 5	Mine Unit 6	Mine Unit 7	Mine Unit 8	Mine Unit 9	Mine Unit 10	Mine Unit 11
Total number of production wells		3	52	57	104	214	187	205	248	195	300	160
Total number of injection wells		0	79	96	169	236	309	380	412	324	500	284
Total number of shallow monitor wells		0	3	3	11	25	28	25	30	20	32	24
Total number of perimeter monitor wells		11	10	7	9	23	26	8	20	13	31	19
Total number of restoration wells		10	12	18	43	33	29	25	30	21	32	24
Wellfield Area (ft2)		403,712	509,600	586,188	1,033,405	1,383,005	1,507,647	2,222,190	2,522,911	2,132,355	4,823,077	3,270,634
Wellfield Area (acres)		9.27	11.70	13.46	23.72	31.75	34.61	51.01	57.92	48.95	110.72	75.08
Affected Ore Zone Area (ft2)		403,712	509,600	586,188	1,033,405	1,383,005	1,507,647	2,222,190	2,522,911	2,132,355	4,823,077	3,270,634
Avg. Completed Thickness		19.6	16.3	12.5	12.9	14.6	15.4	12.3	16.4	16.4	18.2	21.4
Porosity		0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Affected Volume (ft3)		7,912,755	8,306,480	7,327,350	13,330,925	20,191,873	23,217,764	27,332,937	41,375,740	34,970,622	87,780,001	69,991,568
Flare Factor		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Kgallons per Pore Volume		20,597	21,622	19,073	34,701	52,560	60,437	71,149	107,703	91,030	228,495	182,191
Number of Patterns in Unit(s)												
	Current	0	52	57	96	187	187	205	248	195	300	160
	Estimated next report	0	0	0	0	0	0	0	0	0	0	0
	Total Estimated	0	52	57	96	187	187	205	248	195	300	160
Number of Wells in Unit(s)												
Production Wells												
	Current	3	52	57	96	192	187	205	248	195	300	160
	Estimated next report	0	0	0	8	22	0	0	0	0	0	0
	Total Estimated	3	52	57	104	214	187	205	248	195	300	160
Injection Wells												
	Current	0	79	96	169	236	309	380	412	324	500	284
	Estimated next report	0	0	0	0	0	0	0	0	0	0	0
	Total Estimated	0	79	96	169	236	309	380	412	324	500	284
Shallow Monitor Wells												
	Current	0	3	3	11	25	28	25	30	20	32	24
	Estimated next report	0	0	0	0	0	0	0	0	0	0	0
	Total Estimated	0	3	3	11	25	28	25	30	20	32	24
Perimeter Monitor Wells												
	Current	11	10	7	9	23	26	8	20	13	31	19
	Estimated next report	0	0	0	0	0	0	0	0	0	0	0
	Total Estimated	11	10	7	9	23	26	8	20	13	31	19
Number of Wells per Wellfield		14	144	163	293	498	550	618	710	552	863	487
Total Number of Wells		4892										
Average Well Depth (ft) - Deep Wells		665	631	774	698	675	515	762	500	770	480	775
Average Well Depth (ft) - Shallow Wells		200	200	200	200	200	200	200	200	200	150	188

Crow Butte Resources, Inc.
Crow Butte Uranium Project 2011 Surety Estimate
(Revised September 2010)

Master Cost Basis

Electrical Costs			
	2010 Rate	2011 Est Rate	
Power cost (adj for current actual cost)	$0.0759	$0.0797	kwHr
Kilowatt to Horsepower	0.746	0.746	Kw/HP
Horsepower per gallon per minute	0.167	0.167	HP/gpm

Labor Rates			
	2010	2011 Est Rate (CPI)	
Operator Labor Cost	$230.00	$232.53	day
Pulling Unit Operator	$650.00	$657.15	day
Engineer Cost	$8,700.00	$8,795.70	month
Radiation Technician Costs	$5,500.00	$5,560.50	month

Chemical Costs			
	2010 Rate	2011 Est Rate	
Antiscalant for RO (adj for current actual cost)	$17.30	$17.30	gal
Reductant (adj for current actual cost)	$0.40	$0.40	lb
Cement (adj for current actual cost)	$0.07	$0.08	pound
Bentonite Tubes (adj for current actual cost)	$7.46	$7.46	tube
Salt (adj for current actual cost)	$125.00	$133.98	ton
Plug Gel (adj for current actual cost)	$7.65	$3.35	sack
Well Cap (adj for current actual cost)	$10.53	$8.03	each
Hydrochloric Acid (adj for current actual cost)	$1.13	$1.18	gallon

Analytical Costs			
Guideline 8 (contract lab adjusted for current contract cost)	$200.00	$200.00	analysis
6 parameter (in-house) Est Rate (CPI)	$50.75	$51.31	analysis
Other (radon, bio, etc.) Est Rate (CPI)	$925.00	$935.18	month

Spare Parts			
	2010	2011 Est Rate (CPI)	
Restoration spare parts estimate	$20,500.00	$20,725.50	year

CPI Escalators (CPI-U, U.S. City Average)	
1988 CPI (average)	118.3
April 2009 CPI (deep well estimate)	213.2
2009 CPI (June 2009 used in last update)	215.7
Current CPI (June 2010)	218.0
2010 Escalation Factor	1.011

Equipment Costs

Equipment	Base Rental Rate ($/hr)	Labor Costs ($/hr)	Repair Reserve Costs ($/hr)	Fuel Costs ($/hr)	Mob & Demob ($/hr)	Total ($/hr)
Cat 924G Loader	$26.50	$29.07	$3.00	$7.89	inc.	$66.46
Cat 416 Backhoe	$16.50	$29.07	$3.10	$8.15	inc.	$56.82
Shredder	$12.00			inc	inc	$12.00
Cat D8N Bulldozer	$110.00	$29.07	$11.50	$30.25	inc.	$180.82
Pulling Unit	$37.50	inc	inc	inc	inc	$37.50
Mixing Unit	$5.00			inc	inc	$5.00
Drill Rig	$141.00	inc	inc	inc	inc	$141.00

Basis:
Drill rig based on current 2010 contract.
Equipment rates based on Cost Reference Guide - Equipment Watch 2010 updated addition.
Aug 10 costs for off-road fuel: $2.630 gallon

Labor rate based on current operator labor rate

Pipe Volumes

Nominal Pipe Size	Wall Thickness (in)	Pipe OD (in)	Volume per foot (ft3/ft)
3/8-inch O2 hose		0.37500	0.03130
2-inch Sch. 40 downhole	0.15400	2.37500	0.00740
1-1/4-inch Sch. 40 stinger	0.14000	1.66000	0.00440
2-inch SDR 13.5 inj & prod.	0.14815	2.29630	0.00690
4-inch SDR 35	0.11430	4.22860	0.01030
6-inch Sch. 40 process pipe	0.28000	6.56000	0.03840
6-inch Trunkline	0.49100	6.56600	0.06510
8-inch Trunkline	0.63900	8.54800	0.11030
10-inch Trunkline	0.79600	10.65400	0.17120
12-inch Trunkline	0.94400	12.63700	0.24080

Master Cost Basis

Pipe Removal and Shredding Costs

Activity	Removal Rate (ft/man-day)	Shredding Rate (ft/man-day)	Labor Rate (day)	Activity Cost per foot
2-inch SDR 13.5 inj & prod. Removal	225		$232.53	$1.03
2-inch SDR 13.5 inj & prod. Shredding		1920	$232.53	$0.12
Trunkline Removal	100		$232.53	$2.33
Trunkline Shredding		100	$232.53	$2.33
Downhole Pipe Removal	2000		$232.53	$0.12
Downhole Pipe Shredding		2250	$232.53	$0.10
Downhole Hose Removal	1000		$232.53	$0.23
Waste and RO Building Pipeline Removal	67		$232.53	$3.47
Waste and RO Building Pipeline Shredding		1500	$232.53	$0.16

Waste Disposal Costs

Waste Form	Fee		Density Correction Factor (Tons/Yd3)	Fee per Cubic Yard	Transport Cost		Total Transportation and Disposal	
Soil, Bulk Byproduct Material	$166.75	per Ton	0.54	$90.05	$160.00	per Yd3	$250.05	per Yd3
Unpackaged Bulk Byproduct Material (e.g., pipe, equipment)	$146.75	per Ton	0.42	$61.64	$160.00	per Yd3	$221.64	per Yd3
Solid Waste (landfill)	$0.01917	per Lb			Incl.	per Lb	$0.01917	per Lb
Solid Waste (landfill)	$212.00	per Load			Incl.	per Load	$212.00	per Load
Void Factor (for disposal)	1.25							

Plant Dismantling

Plant Components:	Number	Units	Estimated Disposal Volume	Units
Contaminated Tanks	81	each	19.3	Ft3 each
Uncontaminated Tanks	20	each	19.3	Ft3 each
Pumps	101	each	5	Ft3 each
Downhole Pumps	1341	each	0.5	Ft3 each
Contaminated Piping	8995	feet		
Uncontaminated Piping	4625	feet	See estimate by piping size and material	
Filters	81	each	100	Ft3 each
Dryer	2	each	400	Ft3 each
Average PVC Pipe Diameter (inches)	6			

Activity	Units		2010 Cost
Dismantle interior steel, tanks, piping and electrical:		$	198800
Dismantle Plant Building		$	99400
Concrete floor removal rate	Current Cost	$/ft2	14.04

Plant Decontamination

Direct Dispose Plant Floor Area	5500	ft2	Decon Solution (HCl) Floor Application Rate	2 gal/ft2
Uncontaminated Plant Floor Area	7270	ft2		
Decontaminated Plant Floor Area*	34138	ft2		
Average concrete thickness	0.5	ft		
Plant Wall Area	31382	ft2	Decon Solution (HCl) Wall Application Rate	1 gal/ft2