

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

September 29, 2009

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

Subject: 2010 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 2010 is \$28,902,051, an increase of \$1,030,881 over the 2009 surety estimate of \$27,871,170. All costs have been escalated from the costs base lined in August 2007 with the exception of the Deep Disposal Well Decommissioning which has been 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 2010 include the following items:

- 1) The estimate includes continued development and initial mining of Mine Unit 11, with five wellhouse installed in this mine unit by the end of 2010. 487 wells are also projected for Mine Unit 11, which is an increase of 46 wells over the 2009 surety estimate. In addition, 55 additional wells are included for Mine Unit 10. In all, the 2010 surety includes the costs associated with 101 new wells installed in Mine Units 10 and 11. The areal extent of Mine Units 10 and 11 was increased by 791,464 square feet (18.2 acres) to reflect the projected expansion in these mine units. These additional mining wells and areas resulted in significant increases in the groundwater restoration, wellfield reclamation, and well plugging and abandonment costs.
- 2) The estimate includes expanding the Central Processing Plant to allow for the addition of

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three IX columns, two process tanks, a 500 GPM Reverse Osmosis unit, and associated piping for recovering uranium from the commercial evaporation ponds.

3) Due to the costs savings associated with doing groundwater restoration in concurrent phases, the manpower requirement during the Groundwater Recirculation phase was reduced from two Operators to one lowering the unit cost from \$.93 to \$.46.

4) The 2010 escalation factor of .986% is based on the decrease of the June 2009 Consumer Price Index (CPI) over the June 2008 CPI and was applied to labor and some materials. The Master Cost Basis sheets (sheets 29 through 33) indicate the basis for the decrease in these cost elements.

The most significant factors contributing to the increased surety estimate include groundwater restoration (+\$466,659), contract administration (+\$82,470), contingency (+\$123,706), and plant and equipment decontamination (+\$75,400). Sheet 2 of the attached estimate presents the changes for selected cost elements over the 2009 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

Larry Teahon
Manager Health, Safety and Environmental Affairs

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

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U.S. Nuclear Regulatory Commission
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U.S. Nuclear Regulatory Commission
Mr. Ron Burrows - ADDRESSEE ONLY
Fuel Cycle Licensing Branch
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Denver File

CBO File

GEORGE W. KLEIN

CERTIFIED PUBLIC ACCOUNTANT

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September 28, 2009

Stephen P. Collings, President
Crow Butte Resources, Inc.
141 Union Boulevard, Suite 320
Lakewood, CO 80228

Dear Mr. Collings:

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 2010 Surety Estimate. These findings were based on the review of the spreadsheets received September 8, 2009 through September 24, 2009 with the Total 2010 Surety Bond estimate totaling \$28,902,051.

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 2010 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,

A handwritten signature in cursive script that reads "George W. Klein". The signature is written in dark ink and is positioned above the typed name.

George W. Klein, CPA

GWK/jg

CROW BUTTE RESOURCES, INC.
URANIUM PROJECT 2010 SURETY ESTIMATE
AGREED UPON PROCEDURES ENGAGEMENT REVIEW
Prepared 9/24/09 JG

I received the first spreadsheet for the 2010 Surety Estimate on September 8, 2009. It was then revised on September 23rd and September 24th 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 are minor and cosmetic items encountered that were all discussed with Larry Teahon, Manager, Environmental Health and Safety, on or before September 23, 2009 and the changes were made and reflected on the final spreadsheet received on September 24, 2009.
 - 1) On the Groundwater Restoration worksheet tab corrected the reduction being taken on row 96 for mines 4 through 11 to correctly reflect the amount of one half of the supervisory labor costs. The initial version of the spreadsheet received was still using the 2009 surety bond calculated reduction amounts. I recommended a formula be inserted so this would not happen again with future surety bond calculations.
 - 2) On the Well field Reclamation tab I asked if the well house total in cell W7 should be increased from 4 to 5 to account for comment received stating the number of well houses in 2009 were 4 and one would be added in 2010 for a total of 5. In addition I recommended a format change in cell X89 from zero decimal places to two places for the Total Down Hole Piping Cost as the totals by each mine were being rounded to two decimal places and you couldn't add up the displayed mine totals on the printout and get the total of all the mines displayed.
 - 3) On the Miscellaneous Site Reclamation tab I recommended a format change for cell M63 from one decimal place to two places for the final disposal volume so you could calculate the same result for the pipeline disposal costs manually using the numbers displayed.
 - 4) On the Groundwater Reverse Osmosis tab I also recommended a format change for cell T16 to three decimal places so it agreed with the format being displayed in cell J39.

AGREED UPON PROCEDURES ENGAGEMENT REVIEW, page 2

- 5) On the Master Cost tab under the equipment rental rates section I recommended a change from using the 2009 labor rate in the calculation to using the 2010 rate.
- II. Contacted selected vendors to confirm rental rates used and availability.
- 1) Called Nebraska Machinery in Scottsbluff and talked with Larry Burbach on rental rates. Mr. Burbach pointed out that he had recently provided an email to Bob Tiensvold at Crow Butte Resources that confirmed that all of the equipment rates had remained the same as in his letter issued on August 8, 2008. I asked him to provide me with an email stating that and Crow Butte also provided a copy of the information they received from him.
 - 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 faxed over copies of billings from Swann and Stumph. A revision was then made to the waste fee to reflect these higher rates.
 - 3) Traced the Consumer Price Index (CPI) used to an internet source for the period of June 2009.
 - 4) Received the spreadsheet from Larry Teahon showing the basis of their diesel price of 2.21. This was verified by searching for the weekly diesel pump price for their area and reducing it by the fuel tax rate of 51.1 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 = 4.387 per hour which was rounded up to \$5.00 per hour. The shredder rate for a 24 hour period after a 10% discount is \$72/day divided by an 8 hour work day equals \$9 per hour and Crow Butte is rounding it up to \$12 an hour. Both calculations seem reasonable and adding the small cushions have a very minimal effect on the overall calculation.

Crow Butte Resources, Inc.
 Crow Butte Uranium Project 2010 Surety Estimate
 (Revised September 2009)

Total Restoration and Reclamation Cost Estimate

I.	Groundwater Restoration (Sheets 3 to 6)		\$14,697,641
II.	Wellfield Reclamation (Sheets 7 to 10)		\$6,404,317
III.	Commercial Plant Reclamation/Decommissioning (Sheets 11 to 14)		\$767,349
IV.	R.O. Building Reclamation/Decommissioning (Sheets 11 to 14)		\$103,400
V.	Evaporation Pond Reclamation (Sheets 15 to 18)		\$756,251
VI.	Miscellaneous Site Reclamation (Sheets 19 to 21)		\$237,278
VII.	Deep Disposal Well Reclamation (Sheet 22)		\$127,057
VIII.	I-196 Brule Aquifer Restoration (Sheets 23 to 24)		\$28,348
	Subtotal Reclamation and Restoration Cost Estimate		\$23,121,641
		Contract Administration	10%
			\$2,312,164
		Contingency	15%
			\$3,468,246
		TOTAL	\$28,902,051

Crow Butte Resources, Inc.
 Crow Butte Uranium Project 2010 Surety estimate
 (Revised September 2009)

Comparison of Total Surety and Major Cost Elements to Previous Year										
Projected Costs for 2010 are Compared with Costs for 2009 and Changes are Calculated										
					<u>2010</u>	<u>2009</u>	<u>Change</u>			
Total Surety					\$28,902,051	\$27,871,170	\$1,030,881			
Contract Administration					<u>2010</u>	<u>2009</u>	<u>Change</u>			
					\$2,312,164	\$2,229,694	\$82,470			
Contingency					<u>2010</u>	<u>2009</u>	<u>Change</u>			
					\$3,468,246	\$3,344,540	\$123,706			
Groundwater Restoration					<u>2010</u>	<u>2009</u>	<u>Change</u>			
Groundwater Sweep										
Total Gallons Processed (Kgal)					1,969,413	1,869,198	100,215			
Total Cost					\$1,378,589	\$1,289,747	\$88,842			
RO Treatment										
Total Gallons Processed (Kgal)					3,938,826	3,738,396	200,430			
Total Cost					\$7,956,429	\$7,252,488	\$703,941			
Recirculation										
Total Gallons Processed (Kgal)					1,312,942	1,246,132	66,810			
Total Cost					\$603,953	\$897,215	(\$293,262)			
Sampling and Monitoring										
Total On Site Samples					39,744	38,334	1,410			
Total On Site Analysis Costs					\$1,988,790	\$2,032,852	(\$44,062)			
Total Contract Samples					1,931	1,875	56			
Total Contract Analysis Costs					\$386,200	\$375,000	\$11,200			
Wellfield Reclamation					<u>2010</u>	<u>2009</u>	<u>Change</u>			
Pipeline Removal and Loading					\$1,125,530	\$949,681	\$175,849			
Well Abandonment										
Total Number of Wells					4,606	4,503	103			
Total Abandonment Cost					\$1,931,231	\$2,150,843	(\$219,612)			
Site Reclamation					<u>2010</u>	<u>2009</u>	<u>Change</u>			
Site Earthwork					\$619,068	\$607,616	\$11,452			
Plant and Equipment Decontamination					<u>2010</u>	<u>2009</u>	<u>Change</u>			
Decontamination Costs					\$170,589	\$116,345	\$54,244			
Demolition Costs					\$343,700	\$355,259	(\$11,559)			
Piping Shredding Costs					\$369,670	\$336,955	\$32,715			
Transportation and Disposal					<u>2010</u>	<u>2009</u>	<u>Change</u>			
Byproduct Material										
Soil-Type Materials, Total Volume (Yd3)					4,344	4,306	38			
Soil-Type Materials, Total Cost					\$652,732	\$593,616	\$59,116			
Unpackaged Bulk Materials, Total Volume (Yd3)					2,736	2,388	348			
Unpackaged Bulk Materials, Total Cost					\$978,241	\$800,775	\$177,466			

Crow Butte Resources Inc.
Crow Butte Uranium Project 2010 Surety Estimate
(Revised September 2009)

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				54054	47682	86751	131400	151092	177873	269256	227574	481791	341940	1969413
	IX Treatment Unit Cost (\$/Kgal)	(Sheet 25)			\$0.70	\$0.70	\$0.70	\$0.70	\$0.70	\$0.70	\$0.70	\$0.70	\$0.70	\$0.70	\$0.70
	Subtotal IX Treatment Costs per Wellfield				\$37,837.80	\$33,377.40	\$60,725.70	\$91,980.00	\$105,764.40	\$124,511.10	\$188,479.20	\$159,301.80	\$337,253.70	\$239,358.00	\$1,378,589.10
	Total IX Treatment Costs				\$1,378,589.10										
II.	Reverse Osmosis Costs														
	PV's Required				6	6	6	6	6	6	6	6	6	6	
	Total Kgals for Treatment				108108	95364	173502	262800	302184	355746	538512	455148	963582	683880	3938826
	Reverse Osmosis Unit Cost (\$/Kgal)	(Sheet 26)			\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02	\$2.02
	Subtotal Reverse Osmosis Costs per Wellfield				\$218,378.16	\$192,635.28	\$350,474.04	\$530,856.00	\$610,411.68	\$718,606.92	\$1,087,794.24	\$919,398.96	\$1,946,435.64	\$1,381,437.60	\$7,956,428.52
	Total Reverse Osmosis Costs				\$7,956,428.52										
III.	Recirculation Costs														
	PV's Required				2	2	2	2	2	2	2	2	2	2	
	Total Kgals for Treatment				36036	31788	57834	87600	100728	118582	179504	151716	321194	227960	1312942
	Recirculation Unit Cost (\$/Kgal)	(Sheet 27)			\$0.46	\$0.46	\$0.46	\$0.46	\$0.46	\$0.46	\$0.46	\$0.46	\$0.46	\$0.46	\$0.46
	Subtotal Recirculation Costs per Wellfield				\$16,576.56	\$14,622.48	\$26,603.64	\$40,296.00	\$46,334.88	\$54,547.72	\$82,571.84	\$69,789.36	\$147,749.24	\$104,861.60	\$603,953.32
	Total Recirculation Costs				\$603,953.32										
IV.	Consumables														
	Spare parts, filters and consumables =	\$20,188.35	year												
	Active restoration period (months)				5.90	5.21	9.47	14.35	16.50	19.42	29.40	24.85	52.62	37.34	215.06
	Consumable usage (months restoration x annual rate estimate)				\$9,925.94	\$8,765.11	\$15,931.97	\$24,141.90	\$27,758.98	\$32,671.48	\$49,461.46	\$41,806.71	\$88,525.91	\$62,819.42	\$361,808.88
	Subtotal Consumables per Mine Unit				\$9,925.94	\$8,765.11	\$15,931.97	\$24,141.90	\$27,758.98	\$32,671.48	\$49,461.46	\$41,806.71	\$88,525.91	\$62,819.42	\$361,808.88
	Total Consumables Costs				\$361,808.88										

Crow Butte Resources Inc.
Crow Butte Uranium Project 2010 Surety Estimate
(Revised September 2009)

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 =	\$50.04	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)			1.07	0.95	1.72	2.61	3.00	3.53	5.35	4.52	9.57	6.79	39.11
	Reverse Osmosis duration (months)			4.11	3.63	6.60	10.00	11.50	13.54	20.49	17.32	36.67	26.02	149.88
	Recirculation duration (months)			0.72	0.63	1.15	1.74	2.00	2.35	3.56	3.01	6.38	4.53	26.07
	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	18	86	99	87	100	180	105	320	168	1187
	\$/sample			\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	
	3. RO Sampling													
	# of Wells			12	18	43	33	29	25	30	21	32	24	
	Total # samples			48	72	301	330	348	350	600	357	1184	624	4214
	\$/sample			\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	

Crow Butte Resources Inc.
Crow Butte Uranium Project 2010 Surety Estimate
(Revised September 2009)

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	66	58	75	120	84	224	120		863
		\$/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						\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04		
	7.	Monitor Well Sampling																	
		# of Wells						13	10	20	48	54	33	50	33	63	43		
		\$/sample						\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04	\$50.04		
		Total # samples (2.2/mo for entire period)						512	379	945	2783	3386	2281	4554	2675	8956	4668		31139
	8.	Other Laboratory Costs																	
		Radon, urinalysis, etc. =						\$912.05	month										
		Total for Other Laboratory Costs:						\$5,381.10	\$4,751.78	\$8,637.11	\$13,087.92	\$15,048.83	\$17,712.01	\$26,814.27	\$22,664.44	\$47,992.07	\$34,055.95		\$196,145.48
		Subtotal Monitoring and Sampling Costs per Mine Unit						\$53,810.22	\$57,029.18	\$152,711.03	\$233,232.24	\$258,465.59	\$204,383.25	\$359,742.03	\$225,850.00	\$661,025.83	\$364,885.87		\$2,571,135.24
		Total Monitoring and Sampling Costs						\$2,571,135.24											

Crow Butte Resources Inc.
Crow Butte Uranium Project 2010 Surety Estimate
(Revised September 2009)

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 =													
	HP Technician support =													
	Active restoration period (months)			5.90	5.21	9.47	14.35	16.50	19.42	29.40	24.85	52.62	37.34	
	Stabilization period (months)			12	12	12	12	12	12	12	12	12	12	
	1 Engineer support during active restoration			\$54,576.83	\$48,194.12	\$87,600.44	\$132,741.95	\$152,630.12	\$179,641.02	\$271,959.11	\$229,870.20	\$486,751.31	\$345,406.58	\$1,989,371.68
	2 HP Technician support during active restoration			\$27,597.19	\$24,369.72	\$44,295.83	\$67,121.98	\$77,178.59	\$90,836.86	\$137,518.21	\$116,235.63	\$246,129.52	\$174,657.48	\$1,005,941.01
	3 Engineer support during final stabilization										\$111,003.72	\$111,003.72	\$111,003.72	\$333,011.16
	4 HP Technician support during final stabilization										\$56,129.88	\$56,129.88	\$56,129.88	\$168,389.64
	5 Cost reduction due to concurrent restoration of Mine Units					-65,948.14	-99,931.97	-114,904.36	-135,238.94	-204,738.66	-256,619.72	-450,007.22	-343,598.83	-\$1,670,987.82
	Subtotal Supervisory Labor per Mine Unit			\$82,174.02	\$72,563.84	\$65,948.14	\$99,931.97	\$114,904.36	\$135,238.94	\$204,738.66	\$256,619.72	\$450,007.22	\$343,598.83	\$1,825,725.68
	Total Supervisory Labor Costs			\$1,825,725.68										
	TOTAL RESTORATION COST PER WELLFIELD			\$418,702.70	\$378,993.29	\$672,394.52	\$1,020,438.11	\$1,163,639.89	\$1,269,959.41	\$1,972,787.43	\$1,672,766.55	\$3,630,997.54	\$2,496,961.32	\$14,697,640.74
	TOTAL GROUND WATER RESTORATION COSTS			\$14,697,640.74										

Crow Butte Resources Inc.
Crow Butte Uranium Project 2010 Surety Estimate
(Revised September 2009)

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	8.5	5	59.5
Total Mine Unit surface area (acres)	9.27	11.70	13.46	23.72	31.75	34.61	51.01	57.92	48.95	94.42	54.83	431.64
Total length of small diameter production and injection lines (laterals) (ft)	0	34000	39520	68900	106080	130700	172900	188200	163150	193600	92000	1189050
Total length of 3/8-inch hose (ft)					66300							66300
Total length 1-1/4-inch stinger pipe (ft)	0	0	0	0	0	60000	72000	113000	129600	105000	90000	569600
Total length of 2-inch downhole production pipe (ft)	900	12000	15000	17500	20000	50000	112500	65700	106960	63000	72000	535560
Total Length of Trunkline (6-inch) (ft)	1000	2100	4000					900				8000
Total Length of Trunkline (8-inch) (ft)	4400	1300	1450	7800	3700	2000	1000	2100	2225	3500	1400	30875
Total Length of Trunkline (10-inch) (ft)								400				400
Total Length of Trunkline (12-inch) (ft)			5300	6500	20900	12000	5000	16900	11525	6550	5000	89675
Total Length of All Trunkline (ft)	5400	3400	10750	14300	24600	14000	6000	20300	13750	10050	6400	128950
Total number of production wells	3	52	57	96	187	187	205	248	195	300	160	1690
Total number of injection wells	0	79	96	169	221	309	370	412	324	475	284	2739
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)	\$0.67	\$0.67	\$0.67	\$0.67	\$0.67	\$0.67	\$0.67	\$0.67	\$0.67	\$0.67	\$0.67	\$0.67
Subtotal Production and Injection Piping Removal and Loading Costs	\$0.00	\$22,780.00	\$26,478.40	\$46,163.00	\$71,073.60	\$87,569.00	\$115,843.00	\$126,094.00	\$109,310.50	\$129,712.00	\$61,640.00	\$796,663.50
B. Pipe Shredding												
Production and Injection Piping Shredding Unit Cost (\$/ft of pipe)	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08
Subtotal Production and Injection Piping Removal and Loading Costs	\$0.00	\$2,720.00	\$3,161.60	\$5,512.00	\$8,486.40	\$10,456.00	\$13,832.00	\$15,056.00	\$13,052.00	\$15,488.00	\$7,360.00	\$95,124.00
C. Equipment Costs												
Cat 924G Loader Unit Costs for removal (450/day)	\$0.00	\$33,244.44	\$38,641.78	\$67,368.89	\$103,722.67	\$127,795.56	\$169,057.78	\$184,017.78	\$159,524.44	\$189,297.78	\$89,955.56	
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	\$41,301.33	\$19,626.67	
Subtotal Equipment Costs	\$0.00	\$40,497.77	\$47,072.71	\$82,067.56	\$126,353.07	\$155,678.23	\$205,943.11	\$224,167.11	\$194,329.77	\$230,599.11	\$109,582.23	\$1,416,290.67
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	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	49.5	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	61.9	29.4	380.0
Transportation and Disposal Unit Cost (\$/yd ³) Unpackaged Bulk	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12
Subtotal Production and Injection Piping Transport and Disposal Costs	\$0.00	\$3,892.61	\$4,499.71	\$7,856.64	\$12,106.37	\$14,927.62	\$19,748.74	\$21,462.91	\$18,605.95	\$22,105.73	\$10,499.33	\$135,705.61
Total Production and Injection Piping Costs	\$0.00	\$69,890.38	\$81,212.42	\$141,599.20	\$218,019.44	\$268,630.85	\$355,366.85	\$386,780.02	\$335,298.22	\$397,904.84	\$189,081.56	\$2,443,783.78

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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	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	0.0074	
Volume Reduction - 3/8-inch hose (ft ³ /ft)	0.0313	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	264	317	497	570	462	396		
Chipped Volume - 2-inch downhole production (ft ³)	7	89	111	130	148	370	833	486	792	466	533		
Volume 3/8-inch hose (ft ³)	0	0	0	0	2075	0	0	0	0	0	0		
Volume for Disposal Assuming 25% Void Space (yd ³)	0.3	4.1	5.1	6.0	102.9	29.4	53.2	45.5	63.1	43.0	43.0	395.6	
Transportation and Disposal Unit Cost (\$/yd ³) (Unpackaged Bulk)	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	\$357.12	
Subtotal Downhole Piping Transport and Disposal Costs	\$107.14	\$1,464.19	\$1,821.31	\$2,142.72	\$36,747.65	\$10,499.33	\$18,998.78	\$16,248.96	\$22,534.27	\$15,356.16	\$15,356.16	\$141,276.67	
Total Downhole Piping Costs	\$306.34	\$4,120.19	\$5,141.31	\$6,016.05	\$51,119.32	\$34,846.00	\$59,834.78	\$55,801.23	\$74,892.88	\$52,540.16	\$51,212.16	\$395,830.42	
IV. Surface Reclamation													
A. Removal and disposal of contaminated soil around wells													
Volume of contaminated soil (0.37 yd ³ per injection and production well)	1.11	48.47	56.61	98.05	150.96	183.52	212.75	244.20	192.03	286.75	164.28	1638.73	
Disposal of contaminated soil \$150.27 per yd ³	\$166.80	\$7,283.59	\$8,506.78	\$14,733.97	\$22,684.76	\$27,577.55	\$31,969.94	\$36,695.93	\$28,856.35	\$43,089.92	\$24,686.36	\$246,251.95	
Equipment (Cat 924G loader at 2 yd ³ /hr)	\$30.53	\$1,332.93	\$1,556.78	\$2,696.38	\$4,151.40	\$5,046.80	\$5,850.63	\$6,715.50	\$5,280.83	\$7,885.63	\$4,517.70	\$45,517.70	
Labor (1 man-hour per 2 Yd ³)	\$10.47	\$457.38	\$534.19	\$925.22	\$1,424.50	\$1,731.74	\$2,007.56	\$2,304.33	\$1,812.04	\$2,705.84	\$1,550.19	\$15,550.19	
Subtotal removal and disposal of contaminated soil	\$207.80	\$9,073.90	\$10,597.75	\$18,355.57	\$28,260.66	\$34,356.09	\$39,828.13	\$45,715.76	\$35,949.22	\$53,681.39	\$30,734.25	\$306,780.52	
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	\$28,326.00	\$16,449.00	\$129,492.00	
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	\$28,326.00	\$16,449.00	\$129,492.00	
Total Surface Reclamation	\$2,988.80	\$12,583.90	\$14,635.75	\$25,471.57	\$37,785.66	\$44,739.09	\$55,131.13	\$63,091.76	\$50,634.22	\$82,007.39	\$47,203.25	\$436,272.52	
IV. Well Houses													
Total Quantity	0	3	3	5	7	7	6	8	7	8.5	5		
Average Well House Weight (Lbs.)	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000		
A. Removal													
Dismantlement at 2-man-days per wellhouse (man-days)	0	6	6	10	14	14	12	16	14	17	10		
Dismantlement Labor Costs	\$0.00	\$905.88	\$905.88	\$1,509.80	\$2,113.72	\$2,113.72	\$1,811.76	\$2,415.68	\$2,113.72	\$2,566.66	\$1,509.80	\$17,966.62	
Equipment (Cat 924G at 2 hours per wellhouse) (hrs)	0	6	6	10	14	14	12	16	14	17	10		
Equipment Costs	\$0.00	\$330.00	\$330.00	\$550.00	\$770.00	\$770.00	\$660.00	\$880.00	\$770.00	\$935.00	\$550.00	\$6,545.00	
Subtotal Well House Dismantlement Costs	\$0.00	\$1,235.88	\$1,235.88	\$2,059.80	\$2,883.72	\$2,883.72	\$2,471.76	\$3,295.68	\$2,883.72	\$3,501.66	\$2,059.80	\$24,511.62	
B. Disposal													
Total Disposal Weight (6000 lbs per wellhouse) (Lbs)	0	18000	18000	30000	42000	42000	36000	48000	42000	51000	30000		
Subtotal Disposal Costs	\$0.00	\$345.06	\$345.06	\$575.10	\$805.14	\$805.14	\$690.12	\$920.16	\$805.14	\$977.67	\$575.10	\$6,843.69	
Total Well House Removal and Disposal Costs	\$0.00	\$1,580.94	\$1,580.94	\$2,634.90	\$3,688.86	\$3,688.86	\$3,161.88	\$4,215.84	\$3,688.86	\$4,479.33	\$2,634.90	\$31,355.31	
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD	\$43,181.70	\$112,197.97	\$191,879.34	\$297,336.30	\$540,791.81	\$483,130.08	\$529,443.25	\$698,808.45	\$592,850.27	\$626,678.93	\$349,074.72	\$4,465,372.82	
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS	\$4,465,372.82												

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Plant Equipment Decommissioning				Commercial Plant	R.O. Building
I. Removal and Loading Costs					
	Tankage				
		Number of Contaminated Tanks		90	
		Volume of Contaminated Tank Construction Material (ft ³)		1737	
		Number of Chemical Tanks		16	
		Disposal Void Factor		1.25	
	A. Labor to Remove and Load Tankage				
		Number of Persons		2	
		Tanks/Day		1	
		Number of Days		106	
		\$/Day/Person		\$150.98	
		<i>Subtotal Removal Labor Costs</i>		<i>\$32,007.76</i>	
	B. Labor to Clean Chemical Tankage				
		Number of Persons		1	
		Tanks/Day		1	
		Number of Days		16	
		\$/Day/Person		\$150.98	
		<i>Subtotal Cleaning Labor Costs</i>		<i>\$2,415.68</i>	
	C. Equipment				
		Saws, scaffolding, etc.		\$6,000	
		<i>Subtotal Equipment Costs</i>		<i>\$6,000</i>	
	Total Equipment Removal and Loading Costs			\$40,423.44	
II. Transportation and Disposal Costs (NRC-Licensed Facility)					
	A. Tankage				
		Volume of Tank Construction Material (ft ³)		1737	
		Volume for Disposal Assuming Void Space (yd ³)		80.4	
		Transportation and Disposal Unit Cost (\$/yd ³) (Unpackaged Bulk)		\$357.12	
		<i>Subtotal Tankage Transportation and Disposal Costs</i>		<i>\$28,712.45</i>	
	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)		\$357.12	
		<i>Subtotal Contaminated PVC Pipe Transportation and Disposal Costs</i>		<i>\$5,713.92</i>	

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Plant Equipment Decommissioning				Commercial Plant	R.O. Building
C. Pumps					
	Volume of Process Pumps (yd ³) (no void factor used)			17.6	
	Transportation and Disposal Unit Cost (\$/yd ³) (Unpackaged Bulk)			\$357.12	
	<i>Subtotal Pump Transportation and Disposal Costs</i>			<i>\$6,285.31</i>	
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)			\$357.12	
	<i>Subtotal Filter Transportation and Disposal Costs</i>			<i>\$107,136.00</i>	
E. Dryer					
	Dryer Volume (yd ³) (no void factor used)			29.6	
	Transportation and Disposal Unit Cost (\$/yd ³) (Unpackaged Bulk)			\$357.12	
	<i>Total Dryer Transportation and Disposal Costs</i>			<i>\$10,570.75</i>	
	Total Contaminated Equipment Transportation and Disposal Costs			\$158,418.43	
III. Transportation and Disposal (Solid Waste for Landfill Disposal)					
A. Cleaned Tankage					
	Volume of Tank Construction Material (ft ³)			309	
	Number of Landfill Trips			1	
	Transportation and Disposal Unit Cost (\$/Load)			\$212.00	
	<i>Subtotal Tankage Transportation and Disposal Costs</i>			<i>\$212.00</i>	
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	
	<i>Subtotal PVC Pipe Transportation and Disposal Costs</i>			<i>\$212.00</i>	
	Total Uncontaminated Equipment Transportation and Disposal Costs			\$424.00	
IV. Supervisory Labor Costs During Plant Decommissioning					
	Estimated Duration (months)			6	
	Engineer			\$55,501.86	
	Radiation Technician			\$28,064.94	
	Total Supervisory Labor Costs			\$83,566.80	
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY				\$282,832.67	
	Building Area (Ft ²)			37,100	5,000
	Building Equipment Removal and Disposal Cost per Square Foot			\$7.62	\$7.62
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS				\$282,832.67	\$38,100.00

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Building Demolition				Commercial Plant	R.O. Building
I. Decontamination Costs					
A.	Wall Decontamination				
	Area to be Decontaminated (ft ²)			29,262	
	HCl Application Rate (Gallons/ft ²)			1	
	HCl Acid Cost			\$1.65	
	Subtotal Wall Decontamination Materials Costs			\$48,282.30	
B.	Concrete Floor Decontamination				
	Area to be Decontaminated (ft ²)			21246	
	HCl Application Rate (Gallons/ft ²)			2	
	HCl Acid Cost			\$1.65	
	Subtotal Floor Decontamination Materials Costs			\$70,111.80	
C.	Decontamination Labor				
	Labor (man-days)			60	
	Subtotal Decontamination Labor Cost			\$9,058.80	
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			71,754	
	Pumping costs (5 HP/30 gpm)			\$712.46	
	Subtotal Decontamination Costs			\$130,165.36	
	Total Decontamination Costs			\$130,165.36	
II. Demolition Costs					
	Assumptions (based on 2007 costs):				
	Dismantling interior steel, tanks, pumps, etc.			\$159,450.00	
	Dismantling plant building			\$79,725.00	
A.	Building Dismantling				
	Dismantle interior components (2007 \$'s escalated by CPI)			\$157,217.70	
	Plant building dismantling (2007 \$'s escalated by CPI)			\$78,608.85	
	Subtotal Building Dismantling			\$235,826.55	
B.	Concrete Floor Removal				
	Area of direct-dispose concrete floors (ft ²)			5,450	

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Building Demolition						Commercial Plant	R.O. Building
				Removal Rate (\$/ft ²)		\$14.04	
				<i>Subtotal Concrete Floor Removal</i>		<i>\$76,518.00</i>	
				Total Demolition Costs		\$312,344.55	
III.				Disposal Costs			
	A.			Concrete Floor			
				Area of Direct-Dispose Concrete Floor (ft ²)		5,450	
				Average Thickness of Concrete Floor (ft)		0.50	
				Volume of Concrete Floor (ft ³)		2,725	
				Volume of Concrete Floor (Yd ³)		101	
				Transportation and Disposal Unit Cost (\$/Yd ³) (Unpackaged Bulk)		\$357.12	
				<i>Subtotal Concrete Floor Disposal Costs</i>		<i>\$36,069.12</i>	
				Total Disposal Costs		\$36,069.12	
IV				Plant Site Reclamation			
	A.			Plant Site Earthwork			
				Material to be Moved (Yd ³)		20,000	
				D8N Bulldozer Earthwork Rate (Yd ³ /hr)		700	
				D8N Hourly Rate		\$165.79	
				<i>Subtotal Plant Site Earthwork</i>		<i>\$4,736.86</i>	
	B.			Revegetation			
				Area requiring Revegetation (Ac)		4	
				Revegetation Unit Cost (\$/Ac)		\$300	
				<i>Subtotal Plant Site Revegetation</i>		<i>\$1,200.00</i>	
				Total Plant Site Reclamation Costs		\$5,936.86	
				SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$484,515.89	
				Building Area (Ft ²)		37,100	5,000
				Building Demolition Cost per Square Foot		\$13.06	\$13.06
				TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$484,515.89	\$65,300.00

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Evaporation Pond Reclamation				Commercial Ponds	R&D Ponds	Total
Assumptions/Data:						
	Number of Ponds			3	2	
	Area of Ponds (ft ²)			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 (Yd ³ /pond)			60,000	30,000	
	Surface Restoration/Revegetation (Acres)			20	10	
	Sludge Production Rate (Yd ³ sludge/gal)				0.000000102	
	(1 Yd ³ sludge/9,772,000 gal R&D Phase)					
	Estimated 1991 to 2010 Total Production (gallons)			26,524,352,400		
	Liner Removal Rate (ft ² /man-day)			10,000	10,000	
	Sludge Removal Rate (Yd ³ /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 (ft ² /Man-Day)			10,000	10,000	
	Total Man-Days			75	10	
	Labor Rate (\$/man-day)			\$150.98	\$150.98	
	<i>Subtotal Liner and Piping Removal Labor Costs</i>			<i>\$11,323.50</i>	<i>\$1,509.80</i>	<i>\$12,833.30</i>
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)			\$55.00	\$55.00	
	<i>Subtotal Liner and Piping Removal Equipment Costs</i>			<i>\$8,250.00</i>	<i>\$1,100.00</i>	<i>\$9,350.00</i>
	Total Pond Liner and Piping Removal Costs			\$19,573.50	\$2,609.80	\$22,183.30

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Evaporation Pond Reclamation				Commercial Ponds	R&D Ponds	Total
II. Pond Sludge Removal						
	Pond Sludge Estimate					
	Estimated Production Flow since 1991 (gal)			26,524,352,400		
	Historical Sludge Production Rate			0.000000102		
	Estimated Pond Sludge Volume (Yd3)			2,705	Cleaned following R&D	
A.	Pond Sludge Removal Labor					
	Pond Sludge Volume (Yd3)			2,705		2,705
	Sludge Removal Rate (Yd3/man-day)			8.33		
	Total Man-Days			325		
	Labor Rate (\$/man-day)			\$150.98		
	<i>Subtotal Pond Sludge Removal Labor Costs</i>			<i>\$49,068.50</i>	<i>\$0.00</i>	<i>\$49,068.50</i>
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)			\$55.00		
	<i>Subtotal Pond Sludge Removal Equipment Costs</i>			<i>\$47,520.00</i>	<i>\$0.00</i>	<i>\$47,520.00</i>
	Total Pond Sludge Removal Costs			\$96,588.50	\$0.00	\$96,588.50
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)			\$357.12	\$357.12	
	<i>Subtotal Pond Liner Disposal Costs</i>			<i>\$103,207.68</i>	<i>\$4,999.68</i>	<i>\$108,207.36</i>

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Evaporation Pond Reclamation						
				Commercial Ponds	R&D Ponds	Total
B.	Pond Piping Disposal					
		Total Length of Piping		6,300	1,200	
		Piping Volume Factor (ft ³ /ft)		0.0103	0.0069	
		Total Volume Pond Piping (ft ³)		65	8	
		Void Space Factor		1.25	1.25	
		Total Disposed Volume (yd ³)		3.0	0.4	3.4
		Disposal Unit Costs (\$/yd ³) (Unpackaged Bulk)		\$357.12	\$357.12	
		<i>Subtotal Pond Piping Disposal Costs</i>		<i>\$1,071.36</i>	<i>\$142.85</i>	<i>\$1,214.21</i>
C.	Pond Sludge Disposal					
		Total Volume Pond Sludge (Yd ³)		2,705		2,705
		Disposal Unit Costs (\$/yd ³) (Soil rate)		\$150.27		
		<i>Subtotal Pond Sludge Disposal Costs</i>		<i>\$406,480.35</i>	<i>\$0.00</i>	<i>\$406,480.35</i>
		Total Byproduct Material Disposal Costs		\$510,759.39	\$5,142.53	\$515,901.92
IV	Pond Site Reclamation					
A.	Pond Earthwork Requirements					
		Earthwork Requirements Yd ³)		180,000	60,000	
		D8N Bulldozer Earthwork Rate (Yd ³ /hr)		700	700	
		Total D8N Hours		257	86	
		D8N Hourly Rate		\$165.79	\$165.79	
		<i>Subtotal Pond Earthwork</i>		<i>\$42,608.03</i>	<i>\$14,257.94</i>	<i>\$56,865.97</i>
B.	Revegetation					
		Area requiring Revegetation (Ac)		20	10	
		Revegetation Unit Cost (\$/Ac)		\$300.00	\$300.00	
		<i>Subtotal Plant Site Revegetation</i>		<i>\$6,000.00</i>	<i>\$3,000.00</i>	
		Total Pond Site Reclamation Costs		\$48,608.03	\$17,257.94	\$65,865.97

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Evaporation Pond Reclamation							
				Commercial Ponds	R&D Ponds	Total	
V.	Supervisory Labor Costs During Pond Reclamation						
	Estimated Duration (months)			4			
	Engineer Rate (\$/month)			\$9,250.31			
	Total Engineer Labor			\$37,001.24			
	Radiation Technician Rate (\$/month)			\$4,677.49			
	Total Radiation Technician Labor			\$18,709.96			
	Total Supervisory Labor Costs			\$55,711.20	\$0.00	\$55,711.20	
TOTAL EVAPORATION POND RECLAMATION PER POND				\$731,240.62	\$25,010.27	\$756,250.89	
TOTAL EVAPORATION POND RECLAMATION COSTS				\$756,250.89			

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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)		14,900
		Average Main Access Road width (ft)		25
		Depth of Main Access Road Gravel Surface (ft)		1
		Surface Area of Main Access Road (Ac)		8.6
		Length of Wellfield Access Roads (ft)		55,700
		Average Wellfield Access Road width (ft)		12
		Depth of Wellfield Access Road Gravel Surface (ft)		0.5
		Surface Area of Wellfield Road (Ac)		15.3
	A.	Main Access Road Dirtwork		
		Main Access Road Gravel Volume (Yd3)		13,796
		Total reclamation time (hrs)		69
		D8N Unit Operating Cost (\$/hr)		\$165.79
		<i>Subtotal Main Access Road Gravel Roadbase Removal Costs</i>		<i>\$11,439.51</i>
	B.	Wellfield Road Dirtwork		
		Wellfield Road Gravel Volume (Yd3)		12,378
		Total reclamation time (hrs)		62
		D8N Unit Operating Cost (\$/hr)		\$165.79
		<i>Subtotal Wellfield Road Gravel Roadbase Removal Costs</i>		<i>\$10,278.98</i>
	E.	Discing/Seeding		
		Assumptions		
		Surface Area (acres)		23.9
		Discing/Seeding Unit Cost (\$/acre)		\$300.00
		<i>Subtotal Discing/Seeding Costs</i>		<i>\$7,170.00</i>
		Total Access Road Reclamation Costs		\$28,888.49

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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)		\$150.98
	Cat 924G Loader Use (days)		227
	Cat 924G Loader Cost		\$99,880.00
	<i>Subtotal Pipeline Removal Costs</i>		<i>\$134,152.46</i>
	B. Pipeline Shredding Costs		
	Length of Pipelines (ft)		15,200
	Shredding Rate (ft/man-day)		1,500
	Shredding Labor Rate (\$/man-day)		\$150.98
	Shredder Use (days)		10
	Shredder Cost		\$960.00
	<i>Subtotal Pipeline Shredding Costs</i>		<i>\$2,469.80</i>

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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 (yd ³)		7.25
	Transportation and Disposal Unit Cost (\$/yd ³) (Unpackaged Bulk)		\$357.12
	<i>Subtotal Pipeline Disposal Costs</i>		<i>\$2,589.12</i>
	Total Wastewater Pipeline Reclamation Costs		\$139,211.38
III.	Electrical Distribution System Removal		
	Assumptions		
	Length of High Voltage Lines		44,440
	High Voltage Line Removal Rate (\$/ft.)		\$0.59
	High Voltage Line Removal Cost (\$/ft.)		\$26,219.60
	Substation Removal		\$1,175.00
	<i>Subtotal Electrical Distribution System Removal Costs</i>		<i>\$27,394.60</i>
IV.	Supervisory Labor Costs During Miscellaneous Reclamation		
	Estimated Duration (months)		3
	Engineer Rate (\$/month)		\$9,250.31
	Total Engineer Labor		\$27,750.93
	Radiation Technician Rate (\$/month)		\$4,677.49
	Total Radiation Technician Labor		\$14,032.47
	Total Supervisory Labor Costs		\$41,783.40
TOTAL MISCELLANEOUS RECLAMATION COSTS			\$237,277.87

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Deep Disposal Well Reclamation				
I.	Cost Basis			
	A. Plugging and Abandonment			
		Cost Estimate from April 2009 2nd Well Permit Application for plugging and abandonment		\$120,584.00
		April 2009 CPI		213.2
		June 2009 CPI		215.7
		<i>Subtotal Escalated April 2009 Plugging and Abandonment Costs</i>		<i>\$121,997.98</i>
	B. Site Reclamation			
		Cost Estimate from April 2009 2nd Well Permit Application for site reclamation		\$5,000.00
		April 2009 CPI		213.2
		June 2009 CPI		215.7
		<i>Subtotal Escalated April 2009 Reclamation Costs</i>		<i>\$5,058.63</i>
TOTAL DEEP DISPOSAL WELL RECLAMATION COSTS				\$127,056.61

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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)		\$150.98
	Days to complete		235
	A. Electrical Costs		
	<i>Cost to pump 3 Pore Volumes</i>		<i>\$1,345.97</i>
	B. Labor Costs		
	<i>Labor for pumping 3 Pore Volumes</i>		<i>\$4,435.04</i>
	Total Ground Water Sweep Costs		\$5,781.01
II.	Monitoring and Sampling Costs		
	A. Labor Costs for Monitoring I-196a, I-196j, and I-196n		\$2,217.52
	B. Monitoring for I-196i, I-196m, and I-196l		\$2,217.52
	Total Monitoring and Sampling Costs		\$4,435.04

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I-196 Brule Aquifer Restoration			
III	Additional Ground Water Sweep		
	Pump from additional wells and monitor as above		\$10,216.05
	Drill 4 additional wells, 50 ft deep at \$26/ft.		\$5,200.00
	Total Additional Ground Water Sweep		\$15,416.05
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			\$28,348.10

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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 =											\$150.98	man-day
5. Labor costs are based on 36 pumps at 1,150 gpm												
Wellfield Pumping Electrical Costs per 1000 Gallons												
1000 gal	X	5 hp	X	1 hr	X	0.746 kwh	X	\$ 0.0797				
		32 gpm		60 min		hp		kwh	= \$	0.155		
Wellfield Pumping Labor Costs per 1000 Gallons												
1000 gal	X	1 min	X	1 man-day	X	\$150.98	X	2	operators	= \$	\$0.547	
		1150 gal		480 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		year		12	month			month
TOTAL GWS COSTS PER 1000 GALLONS										= \$ 0.70		

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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 =												\$150.98	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	\$150.98		X	1	operators	= \$	0.274	per Kgal
			1150	gal		480	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												= \$	0.46			

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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	\$ 18.87	per hour	= \$ 18.87	\$0.0270		
	Cat 416 Backhoe	0.25 hours	X	\$ 45.32	per hour	= \$ 11.33	\$0.0162		
	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:							\$0.65		

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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	96	187	187	205	248	195	300	160
Total number of injection wells	0	79	96	169	221	309	370	412	324	475	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 (ft ²)	403,712	509,600	586,188	1,033,405	1,383,005	1,507,647	2,222,190	2,522,911	2,132,355	4,113,072	2,388,392
Wellfield Area (acres)	9.27	11.70	13.46	23.72	31.75	34.61	51.01	57.92	48.95	94.42	54.83
Affected Ore Zone Area (ft ²)	403,712	509,600	586,188	1,033,405	1,383,005	1,507,647	2,222,190	2,522,911	2,132,355	4,113,072	2,388,392
Avg. Completed Thickness	19.6	16.3	12.5	12.9	14.6	15.4	12.3	16.4	16.4	18	22
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 (ft ³)	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	74,035,296	52,544,624
Kgallons per Pore Volume	17,164	18,018	15,894	28,917	43,800	50,364	59,291	89,752	75,858	160,597	113,980
Number of Patterns in Unit(s)											
Current	0	52	57	96	187	187	205	248	195	280	140
Estimated next report	0	0	0	0	0	0	0	0	0	20	20
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	187	187	205	248	195	280	140
Estimated next report	0	0	0	0	0	0	0	0	0	20	20
Total Estimated	3	52	57	96	187	187	205	248	195	300	160
Injection Wells											
Current	0	79	96	169	221	309	370	412	324	435	224
Estimated next report	0	0	0	0	0	0	0	0	0	40	60
Total Estimated	0	79	96	169	221	309	370	412	324	475	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	11	23	26	8	20	20	31	19
Estimated next report	0	0	0	-2	0	0	0	0	-7	0	0
Total Estimated	11	10	7	9	23	26	8	20	13	31	19
Number of Wells per Wellfield	14	144	163	285	456	550	608	710	552	838	487
Total Number of Wells	4807										
Average Well Depth (ft) - Deep Wells	665	631	774	698	675	515	762	500	770	480	810
Average Well Depth (ft) - Shallow Wells	200	200	200	200	200	200	200	200	200	150	350

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Master Cost Basis

Electrical Costs			
Power cost (adj for current actual cost)	2009 Rate \$0.0759	2010 Est Rate \$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			
Operator Labor Cost	2009 \$153.12	2010 Est Rate (CPI) \$150.98	day
Engineer Cost	\$9,381.65	\$9,250.31	month
Radiation Technician Costs	\$4,743.90	\$4,677.49	month
Chemical Costs			
Antiscalant for RO (adj for current actual cost)	2009 Rate \$15.22	2010 Est Rate \$15.90	gal
Reductant (adj for current actual cost)	\$0.37	\$0.39	lb
Cement (adj for current actual cost)	\$0.07	\$0.08	pound
Bentonite Tubes (adj for current actual cost)	\$7.10	\$7.46	tube
Salt (adj for current actual cost)	\$127.60	\$133.98	ton
Plug Gel (adj for current actual cost)	\$3.19	\$3.35	sack
Well Cap (adj for current actual cost)	\$7.65	\$8.03	each
Hydrochloric Acid (adj for current actual cost)	\$1.24	\$1.65	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	\$50.04	analysis
Other (radon, bio, etc.) Est Rate (CPI)	\$925.00	\$912.05	month
Spare Parts			
Restoration spare parts estimate	2009 \$20,475.00	2010 Est Rate (CPI) \$20,188.35	year

CPI Escalators (CPI-U, U.S. City Average)	
1988 CPI (average)	118.3
April 2009 CPI (deep well estimate)	213.2
2008 CPI (June 2008 used in last update)	218.8
Current CPI (June 2009)	215.7
2009 Escalation Factor	0.986

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Master Cost Basis

Equipment Costs						
<u>Equipment</u>	<u>Base</u>	<u>Labor Costs</u>	<u>Repair Reserve Costs</u>	<u>Fuel Costs</u>	<u>Mob & Demob (\$/hr)</u>	<u>Total (\$/hr)</u>
	<u>Rental</u>					
	<u>Rate</u>	<u>(\$/hr)</u>	<u>(\$/hr)</u>	<u>(\$/hr)</u>		
Cat 924G Loader	\$26.50	\$18.87	\$3.00	\$6.63	inc.	\$55.00
Cat 416 Backhoe	\$16.50	\$18.87	\$3.10	\$6.85	inc.	\$45.32
Shredder	\$12.00			inc.	inc.	\$12.00
Cat D8N Bulldozer	\$110.00	\$18.87	\$11.50	\$25.42	inc.	\$165.79
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:
Cat 924G, 416 and D8N rental rates from Nebraska Machinery (Aug '08); others estimated.
Repair Reserve costs based on from Nebraska Machinery (Aug '08).
Current diesel usage from from Nebraska Machinery (Aug 08), with current (Aug 08) costs for off-road fuel: \$2.210 gallon

Labor rate based on current operator labor rate

Pipe Volumes			
<u>Nominal Pipe Size</u>	<u>Wall Thickness</u>		<u>Volume per foot</u>
	<u>(in.)</u>	<u>Pipe OD (in.)</u>	
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	6.56000	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

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Pipe Removal and Shredding Costs				
<i>Activity</i>	<u>Removal Rate</u> <i>(ft/man-day)</i>	<u>Shredding Rate</u> <i>(ft/man-day)</i>	<u>Labor Rate (day)</u>	<u>Activity Cost per foot</u>
2-inch SDR 13.5 inj & prod. Removal	225		\$150.98	\$0.67
2-inch SDR 13.5 inj & prod. Shredding		1920	\$150.98	\$0.08
Trunkline Removal	100		\$150.98	\$1.51
Trunkline Shredding		100	\$150.98	\$1.51
Downhole Pipe Removal	2000		\$150.98	\$0.08
Downhole Pipe Shredding		2250	\$150.98	\$0.07
Downhole Hose Removal	1000		\$150.98	\$0.15
Waste and RO Building Pipeline Removal	67		\$150.98	\$2.25
Waste and RO Building Pipeline Shredding		1500	\$150.98	\$0.10

Waste Disposal Costs								
<u>Waste Form</u>	<u>Fee</u>		<u>Density</u> <u>Correction</u> <u>Factor</u> <i>(Tons/Yd3)</i>	<u>Fee per Cubic Yard</u>	<u>Transport Cost</u>		<u>Total</u> <u>Transportation</u> <u>and Disposal</u>	
Soil, Bulk Byproduct Material	\$194.45	per Ton	0.54	\$105.00	\$45.27	per Yd3	\$150.27	per Yd3
Unpackaged Bulk Byproduct Material (e.g., pipe, equipment)	\$742.50	per Ton	0.42	\$311.85	\$45.27	per Yd3	\$357.12	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							

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Plant Dismantling						
<i>Plant Components:</i>	<i>Number</i>	<i>Units</i>	<i>Estimated Disposal</i>		<i>Activity</i>	<i>2007 Cost</i>
			<i>Volume</i>	<i>Units</i>	<i>Units</i>	
Contaminated Tanks	90	each	19.3	Ft ³ each	Dismantle interior steel, tanks, piping and electrical:	\$ 159450
Uncontaminated Tanks	16	each	.193	Ft ³ each	Dismantle Plant Building	\$ 79725
Pumps	95	each	5	Ft ³ each	Concrete floor removal rate	Current Cost \$/ft ² 14.04
Downhole Pumps	1169	each	0.5	Ft ³ each		
Contaminated Piping	8995	feet	See estimate by piping size and material			
Uncontaminated Piping	4625	feet				
Filters	81	each	100	Ft ³ each		
Dryer	2	each	400	Ft ³ each		
Average PVC Pipe Diameter (inches)	6					

Plant Decontamination				
Direct Dispose Plant Floor Area	5450	ft ²	Decon Solution (HCl) Floor Application Rate	2 gal/ft ²
Uncontaminated Plant Floor Area	7000	ft ²		
Decontaminated Plant Floor Area*	21246	ft ²		
Average concrete thickness	0.5	ft		
Plant Wall Area	29262	ft ²	Decon Solution (HCl) Wall Application Rate	1 gal/ft ²