

Rathburn-Petray Mercury Mine EE/CA
OPINION OF PROBABLE COST - CONCEPTUAL (-30% to +50%)

Alternative 2: Limited Action

Item No.	Line Item	Est. Qty.	Unit*	Unit Price	Extended Price	Description
CONSTRUCTION COST ESTIMATE						
MOBILIZATION & GENERAL SITE PREPARATION						
1	Mobilization, Bonding, Insurance	5	%	-	5,400.00	Typical percentage of overall construction
2	Construction BMPs (E&S Controls)	2	%	-	1,000.00	Typical percentage of overall construction
3	Minor Road Improvements	5.00	DAY	1,648.21	8,200.00	HCCD Crews B10L
3	Clear & Grub diversion channel areas	2.00	AC	759.60	1,500.00	HCCD 02230-100-0300
4	Surveying	4	DAY	662.37	2,649.49	HCCD Crews A-6, 3 field days pre/post construction, 1 days office
5	Cleanup & Demobilization	1	LS	5,000.00	5,000.00	Judgment
					23,700	
Excavation and Movement of Material						
6	Excavation of sediment from PN steep channel	500	CY	2.11	1,100.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
7	Haul sediment to west PN	500	CY	1.91	1,000.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
8	Placement of sediment in PN pit	500	CY	2.11	1,100.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
9	Final grading of placed material	1,500	SY	0.12	200.00	HCCD 02310-100-3300
					3,400	
Site Reclamation						
10	Grading of channels at PN for reclamation	500	CY	3.44	1,700.00	BCCD 02310-100-1150 Hand grading; modified from per SY
11	Granular bedding (materials)	125	CY	30.20	3,800.00	BCCD 02315-640-0050; bedding and placement
12	Haul bedding material to site	125	CY	20.70	2,600.00	BCCD 02315-490-0560; 12 CY dump; 20 mile RT
13	Compact bedding material in channels	125	CY	3.07	400.00	BCCD 02315-640-0500; compacting bedding in trench
14	Riprap	375	CY	31.15	11,700.00	ERCD 17 03 0418; includes materials, delivery, and dumping
15	Place riprap	375	CY	19.54	7,300.00	BCCD 02370-450-0100; machine placed
					27,500	
Perimeter Fencing						
15	Perimeter Fencing at PN	2,000	LF	4.38	8,800.00	HCCD 01560-250-0200
16	Perimeter Fencing at PS	3,000	LF	4.38	13,100.00	HCCD 01560-250-0200
17	Perimeter Fencing at RN	5,200	LF	4.38	22,800.00	HCCD 01560-250-0200
18	Perimeter Fencing at RS	2,300	LF	4.38	10,100.00	HCCD 01560-250-0200
					54,800	
Miscellaneous						
19	Providing Dust Control	500	CY	0.99	490.00	HCCD 02315-310-9010, 3000 gal. Water truck, 6 mile haul
20	Erosion control	1,000	SY	5.82	5,820.00	ERCD 17 03 9904 mulch hay, 50 lb; modified per SY (1 bale/SY)
21	Stormwater Pollution Prevention Control	1	LS	5,000.00	5,000.00	Judgement and experience with similar projects
22	Providing Decon Area	30	SY	30.61	900.00	HCCD 02370-450-0400, stone truck washes
					12,210	
SUBTOTAL FOR CONSTRUCTION					121,600	
23	Additional line items allowance	10	%	121,600.00	12,200.00	
SUBTOTAL FOR CONSTRUCTION WITHOUT CONTINGENCY					133,800	
24	Contingency	15	%	133,800.00	20,100.00	
SUBTOTAL FOR CONSTRUCTION WITH CONTINGENCY					153,900	
DESIGN COST ESTIMATE						
ENGINEERING & DESIGN						
25	Certificate of Designation Application Fees	1	LS	5,000.00	5,000.00	Judgment
26	Engineering design & operation report	1	LS	30,000.00	30,000.00	Judgment
27	Construction oversight	1	LS	12,000.00	12,000.00	Judgment
28	Administration	1	LS	3,000.00	3,000.00	Judgment
					50,000	
OPERATIONAL REQUIREMENTS						
29	Monitoring program plan	1	LS	4,000.00	4,000.00	Judgment
30	Recordkeeping	1	YR	2,000.00	2,000.00	Judgment
					6,000	
FACILITY CLOSURE - ENGINEERING/DESIGN						
31	State & Local notifications	1	LS	3,000.00	3,000.00	Judgment
32	General public notification	1	LS	3,000.00	3,000.00	Judgment
33	Closure plan preparation	1	LS	4,000.00	4,000.00	Judgment
34	Post-closure plan preparation	1	LS	3,000.00	3,000.00	Judgment
					13,000	
SUBTOTAL FOR DESIGN AND OPERATION					69,000.00	
35	Additional line items allowance	10	%	69,000.00	6,900.00	
SUBTOTAL FOR DESIGN WITHOUT CONTINGENCY					75,900.00	
36	Contingency	15	%	75,900.00	11,400.00	
SUBTOTAL FOR DESIGN WITH CONTINGENCY					87,300	
TOTAL FOR DESIGN + CONSTRUCTION (ROUNDED)					241,200	

ASSUMPTIONS & LIMITATIONS:

- Pricing is for 2008 present value with 7 percent discount rate.
- Annual costs are set at 30 years for long-term monitoring activities at the Site.

***UNITS:**

AC = acre
CY = cubic yard
EA = each
LF = linear foot
LS = lump sum
SY = square yard
YR = year

HCCD = RSMMeans Heavy Construction Cost Data 2006, adjusted for inflation
BCCD = RSMMeans Building Construction Cost Data 2005, adjusted for inflation
ERCD = RSMMeans Environmental Remediation Cost Data 2005, adjusted for inflation
Judgement = Professional judgement or estimation by E & E.

Rathburn-Petray Mercury Mine EE/CA
OPINION OF PROBABLE COST - CONCEPTUAL (-30% to +50%)

Alternative 3: Onsite Stabilization and Consolidation

Item No.	Line Item	Est. Qty.	Unit*	Unit Price	Extended Price	Description
CONSTRUCTION COST ESTIMATE						
MOBILIZATION & GENERAL SITE PREPARATION						
1	Mobilization, Bonding, Insurance	5	%	-	59,900.00	Typical percentage of overall construction
2	Construction BMPs (E&S Controls)	2	%	-	24,000.00	Typical percentage of overall construction
3	Minor to Moderate Road Improvements	7.00	DAY	1,697.65	11,900.00	HCCD Crews B10L
3	Clear & Grub staging areas	2.00	AC	759.60	1,500.00	HCCD 02230-100-0300, aareas surrounding terrace locations
4	Surveying	8	DAY	662.37	5,300.00	HCCD Crews A-6, 4 field days pre/post construction, 2 days intermediate, 2 days office
5	Cleanup & Demobilization	1	LS	8,000.00	8,000.00	Judgment
					110,600	
Excavation and Movement of Material						
6	Excavation of sediment from PN steep channel	500	CY	2.11	1,100.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
7	Haul sediment to west PN	500	CY	1.91	1,000.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
8	Placement of sediment in PN pit	500	CY	2.11	1,100.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
9	Additional earth moving at steep walls of PN	2,500	CY	2.11	5,300.00	HCCD 02315-520-0170, 2.5 CY FE loader, 300' haul
10	Final grading of placed material at PN	9,000	SY	0.12	1,100.00	HCCD 02310-100-3300
11	Pull back of material at PS	45,000	CY	2.11	95,000.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
12	Regrade material pulled back at PS	45,000	CY	2.11	95,000.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
13	Final grading of placed material at PS	135,000	SY	0.12	15,800.00	HCCD 02310-100-3300
14	Excavation of material from RN	50,000	CY	2.11	105,600.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
15	Push material into pit at RN	50,000	CY	1.91	95,500.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
16	Placement of material at RN pit	50,000	CY	2.11	105,600.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
17	Final grading of placed material at RN	150,000	SY	0.12	17,500.00	HCCD 02310-100-3300
18	Excavation of material at RS	15,000	CY	2.11	31,700.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
19	Haul material to RS	15,000	CY	1.91	28,600.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
20	Placement of material in RS pit	15,000	CY	2.11	31,700.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
21	Final grading of placed material at RS	45,000	SY	0.12	5,300.00	HCCD 02310-100-3300
					636,900	
Capping of PS						
22	Compact material at consolidation area at PS	45,000	CY	0.26	11,800.00	BCCD 02-315-310-5080; 12" lifts, 3 passes
23	Select fill	10,000	CY	13.11	131,100.00	ERCD 17 03 0424; unclassified fill, delivered, off site, includes remoteness factor
24	Placement of fill	10,000	CY	2.11	21,100.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
25	Compaction of fill	10,000	CY	0.26	2,600.00	BCCD 02315-310-5080; 12" lifts, 3 passes
26	Topsoil	5,000	CY	24.35	121,700.00	ERCD 18 05 0301 Furnish imported topsoil (includes material and hauling to site)
27	Placing topsoil	15,000	SY	2.11	31,700.00	HCCD 02315-520-0170, spread topsoil from stockpile, 2.5 CY FE loader, 300' haul
					320,000.00	
Rerouting of Stream at PN						
28	Excavation of new stream channel	900	CY	2.11	1,900.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
29	Grading of new stream channel	900	CY	3.44	3,100.00	BCCD 02310-100-1150 Hand grading; modified from per SY
30	Granular bedding (materials)	250	CY	30.20	7,600.00	BCCD 02315-640-0050; bedding and placement
31	Haul bedding material to site	250	CY	20.70	5,200.00	BCCD 02315-490-0560; 12 CY dump; 20 mile RT
32	Compact bedding material in channels	250	CY	3.07	800.00	BCCD 02315-640-0500; compacting bedding in trench
33	Riprap	650	CY	31.15	20,200.00	ERCD 17 03 0418; includes materials, delivery, and dumping
34	Place riprap	650	CY	19.54	12,700.00	BCCD 02370-450-0100; machine placed
					51,500	
Perimeter Fencing						
35	Perimeter Fencing at PN	2,000	LF	4.38	8,800.00	HCCD 01560-250-0200
36	Perimeter Fencing at RN	5,200	LF	4.38	22,800.00	HCCD 01560-250-0200
37	Perimeter Fencing at RS	2,300	LF	4.38	10,100.00	HCCD 01560-250-0200
					41,700	
Site Reclamation						
38	Grading of channels at PN for reclamation of drainage	500	CY	3.44	1,700.00	BCCD 02310-100-1150 Hand grading; modified from per SY
39	Granular bedding (materials) for PN	125	CY	30.20	3,800.00	BCCD 02315-640-0050; bedding and placement
40	Haul bedding material to PN site	125	CY	20.70	2,600.00	BCCD 02315-490-0560; 12 CY dump; 20 mile RT
41	Compact bedding material in channels at PN	125	CY	3.07	400.00	BCCD 02315-640-0500; compacting bedding in trench
42	Riprap for PN	375	CY	31.15	11,700.00	ERCD 17 03 0418; includes materials, delivery, and dumping
43	Place riprap at PN drainages	375	CY	19.54	7,300.00	BCCD 02370-450-0100; machine placed
44	Final grading of excavated areas at PN, PS, RN, and RS	337,500	SY	0.12	39,400.00	HCCD 02310-100-3300
					66,900	
Miscellaneous						
45	Providing Dust Control	28,475	CY	0.99	28,090.00	HCCD 02315-310-9010, 3000 gal. Water truck, 6 mile haul
46	Erosion control	1,000	SY	5.82	5,820.00	ERCD 17 03 9904 mulch hay, 50 lb; modified per SY (1 bale/SY)
47	Stormwater Pollution Prevention Control	1	LS	20,000.00	20,000.00	Judgement and experience with similar projects
48	Providing Decon Area	30	SY	30.61	900.00	HCCD 02370-450-0400, stone truck washes
					54,810	
SUBTOTAL FOR CONSTRUCTION					1,282,410	
49	Additional line items allowance	10	%	1,282,410.00	128,200.00	
SUBTOTAL FOR CONSTRUCTION WITHOUT CONTINGENCY					1,410,610	
50	Contingency	15	%	1,410,610.00	211,600.00	
SUBTOTAL FOR CONSTRUCTION WITH CONTINGENCY					1,622,210	
DESIGN COST ESTIMATE						
ENGINEERING & DESIGN						
51	Certificate of Designation Application Fees	1	LS	5,000.00	5,000.00	Judgment
52	Engineering design & operation report	1	LS	80,000.00	80,000.00	Judgment
53	Construction oversight	1	LS	64,000.00	64,000.00	Judgment, 2 people @ \$80/day, 10 hour/day, 5 day/week, 2 months
54	Administration	1	LS	8,000.00	8,000.00	Judgment
					157,000	
OPERATIONAL REQUIREMENTS						
55	Monitoring program plan	1	LS	6,000.00	6,000.00	Judgment
56	Recordkeeping	1	YR	5,000.00	5,000.00	Judgment
					11,000	
FACILITY CLOSURE - ENGINEERING/DESIGN						
57	State & Local notifications	1	LS	3,000.00	3,000.00	Judgment
58	General public notification	1	LS	3,000.00	3,000.00	Judgment
59	Closure plan preparation	1	LS	8,000.00	8,000.00	Judgment
60	Post-closure plan preparation	1	LS	4,000.00	4,000.00	Judgment
					18,000	
SUBTOTAL FOR DESIGN AND OPERATION					186,000.00	
61	Additional line items allowance	10	%	186,000.00	18,600.00	
SUBTOTAL FOR DESIGN WITHOUT CONTINGENCY					204,600.00	
62	Contingency	15	%	204,600.00	30,700.00	
SUBTOTAL FOR DESIGN WITH CONTINGENCY					235,300	
TOTAL FOR DESIGN + CONSTRUCTION (ROUNDED)					1,857,500	

ASSUMPTIONS & LIMITATIONS:

- Pricing is for 2008 present value with 7 percent discount rate.
- Annual costs are set at 30 years for long-term monitoring activities at the Site.

***UNITS:**

AC = acre
 CY = cubic yard
 EA = each
 LF = linear foot
 LS = lump sum
 SY = square yard
 YR = year

HCCD = RSMMeans Heavy Construction Cost Data 2006, adjusted for inflation
 BCCD = RSMMeans Building Construction Cost Data 2005, adjusted for inflation
 ERCD = RSMMeans Environmental Remediation Cost Data 2005, adjusted for inflation
 Judgement = Professional judgement or estimation by E & E.

Rathburn-Petray Mercury Mine EE/CA
OPINION OF PROBABLE COST - CONCEPTUAL (-30% to +50%)

Alternative 4: Onsite Consolidation and Capping

Item No.	Line Item	Est. Qty.	Unit*	Unit Price	Extended Price	Description
CONSTRUCTION COST ESTIMATE						
MOBILIZATION & GENERAL SITE PREPARATION						
1	Mobilization, Bonding, Insurance	5	%	-	133,800.00	Typical percentage of overall construction
2	Construction BMPs (E&S Controls)	2	%	-	53,500.00	Typical percentage of overall construction
3	Moderate Road Improvements	9.00	DAY	1,697.65	15,300.00	HCCD Crews B10L
3	Clear & Grub staging areas	2.00	AC	759.60	1,500.00	HCCD 02230-100-0300, areas surrounding terrace locations
4	Surveying	8	DAY	662.37	5,300.00	HCCD Crews A-6, 4 field days pre/post construction, 2 days intermediate, 2 days office
5	Cleanup & Demobilization	1	LS	8,000.00	8,000.00	Judgment
					217,400	
Excavation and Movement of Material						
6	Excavation of sediment from PN steep channel	500	CY	2.11	1,100.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
7	Haul sediment to west PN	500	CY	1.91	1,000.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
8	Placement of sediment in PN pit	500	CY	2.11	1,100.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
9	Additional earth moving at steep walls of PN	2,500	CY	2.11	5,300.00	HCCD 02315-520-0170, 2.5 CY FE loader, 300' haul
10	Final grading of placed material at PN	9,000	SY	0.12	1,100.00	HCCD 02310-100-3300
11	Pull back of material at PS	45,000	CY	2.11	95,000.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
12	Regrade material pulled back at PS	45,000	CY	2.11	95,000.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
13	Final grading of placed material at PS	135,000	SY	0.12	15,800.00	HCCD 02310-100-3300
14	Excavation of material from RN	50,000	CY	2.11	105,600.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
15	Push material into pit at RN	50,000	CY	1.91	95,500.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
16	Placement of material at RN pit	50,000	CY	2.11	105,600.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
17	Final grading of placed material at RN	150,000	SY	0.12	17,500.00	HCCD 02310-100-3300
18	Excavation of material at RS	15,000	CY	2.11	31,700.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
19	Haul material to RS	15,000	CY	1.91	28,600.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
20	Placement of material in RS pit	15,000	CY	2.11	31,700.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
21	Final grading of placed material at RS	45,000	SY	0.12	5,300.00	HCCD 02310-100-3300
					636,900	
Capping of all 4 Sub-sites						
22	Compact material at consolidation area at PN	3,000	CY	0.26	800.00	BCCD 02-315-310-5080; 12" lifts, 3 passes
23	Select fill	3,000	CY	13.11	39,300.00	ERCD 17 03 0424; unclassified fill, delivered, off site, includes remoteness factor
24	Placement of fill	3,000	CY	2.11	6,300.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
25	Compaction of fill	3,000	CY	0.26	800.00	BCCD 02315-310-5080; 12" lifts, 3 passes
26	Topsoil	1,500	CY	24.35	36,500.00	ERCD 18 05 0301 Furnish imported topsoil (includes material and hauling to site)
27	Placing topsoil	4,500	SY	2.11	9,500.00	HCCD 02315-520-0170, spread topsoil from stockpile, 2.5 CY FE loader, 300' haul
26	Compact material at consolidation area at PS	45,000	CY	0.26	11,800.00	BCCD 02-315-310-5080; 12" lifts, 3 passes
27	Select fill	10,000	CY	13.11	131,100.00	ERCD 17 03 0424; unclassified fill, delivered, off site, includes remoteness factor
28	Placement of fill	10,000	CY	2.11	21,100.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
29	Compaction of fill	10,000	CY	0.26	2,600.00	BCCD 02315-310-5080; 12" lifts, 3 passes
30	Topsoil	5,000	CY	24.35	121,700.00	ERCD 18 05 0301 Furnish imported topsoil (includes material and hauling to site)
31	Placing topsoil	15,000	SY	2.11	31,700.00	HCCD 02315-520-0170, spread topsoil from stockpile, 2.5 CY FE loader, 300' haul
30	Compact material at consolidation area at RN	50,000	CY	0.26	13,100.00	BCCD 02-315-310-5080; 12" lifts, 3 passes
31	Select fill	34,000	CY	13.11	445,800.00	ERCD 17 03 0424; unclassified fill, delivered, off site, includes remoteness factor
32	Placement of fill	34,000	CY	2.11	71,800.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
33	Compaction of fill	34,000	CY	0.26	8,900.00	BCCD 02315-310-5080; 12" lifts, 3 passes
34	Topsoil	17,000	CY	24.35	413,900.00	ERCD 18 05 0301 Furnish imported topsoil (includes material and hauling to site)
35	Placing topsoil	51,000	SY	2.11	107,700.00	HCCD 02315-520-0170, spread topsoil from stockpile, 2.5 CY FE loader, 300' haul
34	Compact material at consolidation area at RS	15,000	CY	0.26	3,900.00	BCCD 02-315-310-5080; 12" lifts, 3 passes
35	Select fill	9,000	CY	13.11	118,000.00	ERCD 17 03 0424; unclassified fill, delivered, off site, includes remoteness factor
36	Placement of fill	9,000	CY	2.11	19,000.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
37	Compaction of fill	9,000	CY	0.26	2,400.00	BCCD 02315-310-5080; 12" lifts, 3 passes
38	Topsoil	4,500	CY	24.35	109,600.00	ERCD 18 05 0301 Furnish imported topsoil (includes material and hauling to site)
39	Placing topsoil	13,500	SY	2.11	28,500.00	HCCD 02315-520-0170, spread topsoil from stockpile, 2.5 CY FE loader, 300' haul
					1,755,800.00	
Rerouting of Stream at PN						
40	Excavation of new stream channel	900	CY	2.11	1,900.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
41	Grading of new stream channel	900	CY	3.44	3,100.00	BCCD 02310-100-1150 Hand grading; modified from per SY
42	Granular bedding (materials)	250	CY	30.20	7,600.00	BCCD 02315-640-0050; bedding and placement
43	Haul bedding material to site	250	CY	20.70	5,200.00	BCCD 02315-490-0560; 12 CY dump; 20 mile RT
44	Compact bedding material in channels	250	CY	3.07	800.00	BCCD 02315-640-0500; compacting bedding in trench
45	Riprap	650	CY	31.15	20,200.00	ERCD 17 03 0418; includes materials, delivery, and dumping
46	Place riprap	650	CY	19.54	12,700.00	BCCD 02370-450-0100; machine placed
					51,500	
Site Reclamation						
47	Grading of channels at PN for reclamation of drainage	500	CY	3.44	1,700.00	BCCD 02310-100-1150 Hand grading; modified from per SY
48	Granular bedding (materials) for PN	125	CY	30.20	3,800.00	BCCD 02315-640-0050; bedding and placement
49	Haul bedding material to PN site	125	CY	20.70	2,600.00	BCCD 02315-490-0560; 12 CY dump; 20 mile RT
50	Compact bedding material in channels at PN	125	CY	3.07	400.00	BCCD 02315-640-0500; compacting bedding in trench
51	Riprap for PN	375	CY	31.15	11,700.00	ERCD 17 03 0418; includes materials, delivery, and dumping
52	Place riprap at PN drainages	375	CY	19.54	7,300.00	BCCD 02370-450-0100; machine placed
53	Final grading of excavated areas at PN, PS, RN, and RS	337,500	SY	0.12	39,400.00	HCCD 02310-100-3300
54	Revegetation	20	AC	1,000.00	20,000.00	Per value suggested by similar BLM project
55	Temporary fencing	12,500	LF	4.38	54,800.00	HCCD 01560-250-0200
					141,700	
Miscellaneous						
56	Providing Dust Control	28,475	CY	0.99	28,090.00	HCCD 02315-310-9010, 3000 gal. Water truck, 6 mile haul
57	Erosion control	2,000	SY	5.82	11,650.00	ERCD 17 03 9904 mulch hay, 50 lb; modified per SY (1 bale/SY)
58	Stormwater Pollution Prevention Control	1	LS	20,000.00	20,000.00	Judgement and experience with similar projects
59	Providing Decon Area	30	SY	30.61	900.00	HCCD 02370-450-0400, stone truck washes
					60,640	
SUBTOTAL FOR CONSTRUCTION						
60	Additional line items allowance	10	%	2,863,940.00	286,400.00	
SUBTOTAL FOR CONSTRUCTION WITHOUT CONTINGENCY						3,150,340
61	Contingency	15	%	3,150,340.00	472,600.00	
SUBTOTAL FOR CONSTRUCTION WITH CONTINGENCY						3,622,940
DESIGN COST ESTIMATE						
ENGINEERING & DESIGN						
62	Certificate of Designation Application Fees	1	LS	5,000.00	5,000.00	Judgment
63	Engineering design & operation report	1	LS	80,000.00	80,000.00	Judgment
64	Construction oversight	1	LS	64,000.00	64,000.00	Judgment, 2 people @ \$80/day, 10 hour/day, 5 day/week, 2 months
65	Administration	1	LS	8,000.00	8,000.00	Judgment
					157,000	
OPERATIONAL REQUIREMENTS						
66	Monitoring program plan	1	LS	6,000.00	6,000.00	Judgment
67	Recordkeeping	1	YR	5,000.00	5,000.00	Judgment
					11,000	
FACILITY CLOSURE - ENGINEERING/DESIGN						
68	State & Local notifications	1	LS	3,000.00	3,000.00	Judgment
69	General public notification	1	LS	3,000.00	3,000.00	Judgment
70	Closure plan preparation	1	LS	8,000.00	8,000.00	Judgment
71	Post-closure plan preparation	1	LS	4,000.00	4,000.00	Judgment
					18,000	
SUBTOTAL FOR DESIGN AND OPERATION						
72	Additional line items allowance	10	%	186,000.00	18,600.00	
SUBTOTAL FOR DESIGN WITHOUT CONTINGENCY						204,600.00
73	Contingency	15	%	204,600.00	30,700.00	
SUBTOTAL FOR DESIGN WITH CONTINGENCY						235,300
TOTAL FOR DESIGN + CONSTRUCTION (ROUNDED)						3,858,200

ASSUMPTIONS & LIMITATIONS:

- 1 Pricing is for 2008 present value with 7 percent discount rate.
- 2 Annual costs are set at 30 years for long-term monitoring activities at the Site.

***UNITS:**

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- CY = cubic yard
- EA = each
- LF = linear foot
- LS = lump sum
- SY = square yard
- YR = year

HCCD = RSMMeans Heavy Construction Cost Data 2006, adjusted for inflation
 BCCD = RSMMeans Building Construction Cost Data 2005, adjusted for inflation
 ERCD = RSMMeans Environmental Remediation Cost Data 2005, adjusted for inflation
 Judgement = Professional judgement or estimation by E & E.

Rathburn-Petray Mercury Mine EE/CA
OPINION OF PROBABLE COST - CONCEPTUAL (-30% to +50%)

Alternative 5: Offsite Removal

Item No.	Line Item	Est. Qty.	Unit*	Unit Price	Extended Price	Description
CONSTRUCTION COST ESTIMATE						
MOBILIZATION & GENERAL SITE PREPARATION						
1	Mobilization, Bonding, Insurance	5	%	-	2,214,900.00	Typical percentage of overall construction
2	Construction BMPs (E&S Controls)	2	%	-	886,000.00	Typical percentage of overall construction
3	Major Road Improvements	20.00	DAY	1,697.65	34,000.00	HCCD Crews B10L
4	Clear & Grub staging areas	2.00	AC	759.60	1,500.00	HCCD 02230-100-0300, areas surrounding containment locations
5	Surveying	4	DAY	662.37	2,600.00	HCCD Crews A-6, 3 field days pre/post construction, 1 days office
6	Cleanup & Demobilization	1	LS	8,000.00	8,000.00	Judgment
					3,147,000	
Excavation of Material						
7	Excavation of waste material from PN	22,000	CY	2.11	46,400.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
8	Excavation of waste material from PS	100,000	CY	2.11	211,100.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
9	Excavation of waste material from RN	330,000	CY	2.11	696,700.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
9	Excavation of waste material from RS	25,500	CY	2.11	53,800.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
					1,008,000	
Off-Site Disposal Fees						
10	Management of disposal	477,500	CY	90.00	42,975,000.00	Estimate from WSG (loading, hauling, transfer, and disposal)
					42,975,000	
Site Reclamation						
11	Final grading of excavated areas at PN, PS, RN, and RS	330,000	SY	0.12	38,500.00	HCCD 02310-100-3300
12	Revegetation	20	AC	1,000.00	20,000.00	Per value suggested by similar BLM project
13	Temporary fencing	12,500	LF	4.38	54,800.00	HCCD 01560-250-0200
					113,300	
Miscellaneous						
14	Providing Dust Control	119,375	CY	0.99	117,780.00	HCCD 02315-310-9010, 3000 gal. Water truck, 6 mile haul
15	Erosion control	2,000	SY	5.82	11,650.00	ERCD 17 03 9904 mulch hay, 50 lb; modified per SY (1 bale/SY)
16	Stormwater Pollution Prevention Control	1	LS	25,000.00	25,000.00	Judgement and experience with similar projects
17	Providing Decon Area	30	SY	30.61	900.00	HCCD 02370-450-0400, stone truck washes
					155,330	
SUBTOTAL FOR CONSTRUCTION					47,398,630	
18	Additional line items allowance	10	%	47,398,630.00	4,739,900.00	
SUBTOTAL FOR CONSTRUCTION WITHOUT CONTINGENCY					52,138,530	
19	Contingency	15	%	52,138,530.00	7,820,800.00	
SUBTOTAL FOR CONSTRUCTION WITH CONTINGENCY					59,959,330	
DESIGN COST ESTIMATE						
ENGINEERING & DESIGN						
20	Certificate of Designation Application Fees	1	LS	5,000.00	5,000.00	Judgment
21	Engineering design & operation report	1	LS	60,000.00	60,000.00	Judgment
22	Construction oversight	1	LS	100,000.00	100,000.00	Judgment
23	Administration	1	LS	20,000.00	20,000.00	Judgment
					185,000	
OPERATIONAL REQUIREMENTS						
24	Monitoring program plan	1	LS	10,000.00	10,000.00	Judgment
25	Monitoring	1	YR	2,000.00	2,000.00	Judgment, sampling and testing of removed materials
26	Recordkeeping	1	YR	5,000.00	5,000.00	Judgment
					17,000	
FACILITY CLOSURE - ENGINEERING/DESIGN						
27	State & Local notifications	1	LS	3,000.00	3,000.00	Judgment
28	General public notification	1	LS	3,000.00	3,000.00	Judgment
29	Trespass prevention measures	0	LS	3,500.00	0.00	Judgment
30	Permanent surface water control plan	0	LS	10,000.00	0.00	Judgment
31	Closure plan preparation, incl. final cover system	0	LS	30,000.00	0.00	Judgment
32	Post-closure plan preparation	0	LS	10,000.00	0.00	Judgment
					6,000	
SUBTOTAL FOR DESIGN AND OPERATION					208,000.00	
33	Additional line items allowance	10	%	208,000.00	20,800.00	
SUBTOTAL FOR DESIGN WITHOUT CONTINGENCY					228,800.00	
34	Contingency	15	%	228,800.00	34,300.00	
SUBTOTAL FOR DESIGN WITH CONTINGENCY					263,100	
TOTAL FOR DESIGN + CONSTRUCTION (ROUNDED)					60,222,400	

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 ERCD = RSMMeans Environmental Remediation Cost Data 2005, adjusted for inflation
 Judgement = Professional judgement or estimation by E & E.
 WSG = Waste Solutions Group