Oat Hill EE/CA

OPINION OF PROBABLE COST - CONCEPTUAL (-30% to +50%)

Alternative 2: Run-on/off Controls

Item No.	Line Item	Est. Qty.	Unit*	Unit Price	Extended Price	Description
CONSTRUCTION COST ESTIMATE						
MOBILIZATION & GENERAL SITE PREPARATION						
1	Mobilization, Bonding, Insurance	5	%	-	2,200.00	Typical percentage of overall construction
2	Construction BMPs (E&S Controls)	2	%	-	900.00	Typical percentage of overall construction
3	Clear & Grub diversion channel areas	2.00	AC	737.48	1,500.00	HCCD 02230-100-0300
4	Surveying	4	DAY	643.08	2,572.32	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
					12,200	
Surface Water Diversion Channels						
6	Excavation of channels	666	CY	1.23	800.00	HCCD 02315-424-1350; 5 CY track mounted F.E.
7	Haul excavated material to stockpile	666	CY	1.85	1,200.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
8	Grading of channels	666	CY	3.15	2,100.00	BCCD 02310-100-1150 Hand grading; modified from per SY
9	Granular bedding (materials)	167	CY	27.64	4,600.00	BCCD 02315-640-0050; bedding and placement
10	Haul bedding material to site	167	CY	18.94	3,200.00	BCCD 02315-490-0560; 12 CY dump;20 mile RT
11	Compact bedding material in channels	167	CY	2.81	500.00	BCCD 02315-640-0500; compacting bedding in trench
12	Riprap	334	CY	30.25	10,100.00	ERCD 17 03 0418; includes materials, delivery, and dumping
13	Place riprap	167	CY	17.88	3,000.00	BCCD 02370-450-0100; machine placed
14	Filter fabric (materials)	1,000	SY	1.62	1,600.00	ERCD 33 08 0534; 12oz/sy geotextile/drainage fabric (170 mil)
15	Place filter fabric	1,000	SY	0.81	800.00	ERCD 33 08 0534; Placement
					27,900	
Miscellaneous						
16	Providing Dust Control	666	CY	0.96	640.00	HCCD 02315-310-9010, 3000 gal. Water truck, 6 mile haul
17	Erosion control	1,000	SY	5.33	5,330.00	ERCD 17 03 9904 mulch hay, 50 lb; modified per SY (1 bale/SY)
18	Tack and crimp	1,000	SY	0.53	530.00	Judgement (labor + equipment) assumed 60% hand work, 40% machine; isolated site
					6,500	
SUBTOTAL FOR CONSTRUCTION					**46,600**	
19	Additional line items allowance	10	%	46,600.00	4,700.00	
SUBTOTAL FOR CONSTRUCTION WITHOUT CONTINGENCY					**51,300**	
20	Contingency	15	%	51,300.00	7,700.00	
SUBTOTAL FOR CONSTRUCTION WITH CONTINGENCY					**59,000**	
DESIGN COST ESTIMATE						
ENGINEERING & DESIGN						
21	Certificate of Designation Application Fees	1	LS	5,000.00	5,000.00	Judgment
22	Engineering design & operation report	1	LS	30,000.00	30,000.00	Judgment
23	Construction oversight	1	LS	12,000.00	12,000.00	Judgment
24	Administration	1	LS	3,000.00	3,000.00	Judgment
					50,000	
OPERATIONAL REQUIREMENTS						
25	Monitoring program plan	1	LS	4,000.00	4,000.00	Judgment
26	Recordkeeping	1	YR	2,000.00	2,000.00	Judgment
					6,000	
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	Closure plan preparation	1	LS	4,000.00	4,000.00	Judgment
30	Post-closure plan preparation	1	LS	3,000.00	3,000.00	Judgment
					13,000	
SUBTOTAL FOR DESIGN AND OPERATION					**69,000.00**	
31	Additional line items allowance	10	%	69,000.00	6,900.00	
SUBTOTAL FOR DESIGN WITHOUT CONTINGENCY					**75,900.00**	
32	Contingency	15	%	75,900.00	11,400.00	
SUBTOTAL FOR DESIGN WITH CONTINGENCY					**87,300**	
TOTAL FOR DESIGN + CONSTRUCTION (ROUNDED)					**146,300**	

ASSUMPTIONS & LIMITATIONS:

1 Pricing is for 2007 present value with 7 percent discount rate.

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

Oat Hill EE/CA

OPINION OF PROBABLE COST - CONCEPTUAL (-30% to +50%)

Alternative 3:Stabilization by Terracing Slopes

Item No.	Line Item	Est. Qty.	Unit*	Unit Price	Extended Price	Description
CONSTRUCTION COST ESTIMATE						
MOBILIZATION & GENERAL SITE PREPARATION						
1	Mobilization, Bonding, Insurance	5	%	-	36,000.00	Typical percentage of overall construction
2	Construction BMPs (E&S Controls)	2	%	-	14,400.00	Typical percentage of overall construction
3	Clear & Grub staging areas	2.00	AC	737.48	1,500.00	HCCD 02230-100-0300, aareas surrounding terrace locations
4	Surveying	8	DAY	643.08	5,100.00	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
					65,000	
Excavation and Movement of Material						
6	Excavation of waste material from steep mounded areas	25,000	CY	2.05	51,200.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
7	Haul to terrace area	25,000	CY	1.85	46,400.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
8	Placement of material at terrace locations	25,000	CY	2.05	51,200.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
					148,800	
Terrace Construction						
9	Construction of terrace walls	40,000	SF	11.20	448,100.00	ERCD 17 03 0906 and 18 04 0205 sheeting and wall forms
10	Placement of material into terrace configuration	25,000	CY	2.05	51,200.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
11	Compact material	25,000	CY	0.25	6,400.00	BCCD 02315-310-5080; 12" lifts, 3 passes
12	Final grading of surface on terraced benches	18,000	SY	0.11	2,000.00	HCCD 02310-100-3300
					507,700.00	
Surface Water Controls						
13	Excavation of channels	666	CY	1.23	800.00	HCCD 02315-424-1350; 5 CY track mounted F.E.
14	Haul excavated material to stockpile	666	CY	1.85	1,200.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
15	Grading of channels	666	CY	3.15	2,100.00	BCCD 02310-100-1150 Hand grading; modified from per SY
16	Granular bedding (materials)	167	CY	27.64	4,600.00	BCCD 02315-640-0050; bedding and placement
17	Haul bedding material to site	167	CY	18.94	3,200.00	BCCD 02315-490-0560; 12 CY dump;20 mile RT
18	Compact bedding material in channels	167	CY	2.81	500.00	BCCD 02315-640-0500; compacting bedding in trench
19	Riprap	167	CY	30.25	5,100.00	ERCD 17 03 0418; includes materials, delivery, and dumping
20	Place riprap	167	CY	17.88	3,000.00	BCCD 02370-450-0100; machine placed
21	Filter fabric (materials)	1,000	SY	1.62	1,600.00	ERCD 33 08 0534; 12oz/sy geotextile/drainage fabric (170 mil)
22	Place filter fabric	1,000	SY	0.81	800.00	ERCD 33 08 0534; Placement
					22,900	
Site Reclamation						
23	Providing decon area	30	SY	29.72	900.00	HCCD 02370-450-0400, stone truck washes
24	Final grading excavated areas	9,000	SY	0.11	1,000.00	HCCD 02310-100-3300
25	Revegetation	2	AC	3,000.00	6,000.00	Per value suggested by similar BLM project, excavated areas of disturbance
					7,900	
Miscellaneous						
26	Providing Dust Control	6,250	CY	0.96	5,990.00	HCCD 02315-310-9010, 3000 gal. Water truck, 6 mile haul
27	Erosion control	2,000	SY	5.33	10,660.00	ERCD 17 03 9904 mulch hay, 50 lb; modified per SY (1 bale/SY)
28	Tack and crimp	2,000	SY	0.53	1,060.00	Judgement (labor + equipment) assumed 60% hand work, 40% machine; isolated site
					17,710	
SUBTOTAL FOR CONSTRUCTION					**770,010**	
29	Additional line items allowance	10	%	770,010.00	77,000.00	
SUBTOTAL FOR CONSTRUCTION WITHOUT CONTINGENCY					**847,010**	
30	Contingency	15	%	847,010.00	127,100.00	
SUBTOTAL FOR CONSTRUCTION WITH CONTINGENCY					**974,110**	
DESIGN COST ESTIMATE						
ENGINEERING & DESIGN						
31	Certificate of Designation Application Fees	1	LS	5,000.00	5,000.00	Judgment
32	Engineering design & operation report	1	LS	80,000.00	80,000.00	Judgment
33	Construction oversight	1	LS	64,000.00	64,000.00	Judgment, 2 people @ $80/day, 10 hour/day, 5 day/week, 2 months
34	Administration	1	LS	8,000.00	8,000.00	Judgment
					157,000	
OPERATIONAL REQUIREMENTS						
35	Monitoring program plan	1	LS	6,000.00	6,000.00	Judgment
36	Recordkeeping	1	YR	5,000.00	5,000.00	Judgment
					11,000	
FACILITY CLOSURE - ENGINEERING/DESIGN						
37	State & Local notifications	1	LS	3,000.00	3,000.00	Judgment
38	General public notification	1	LS	3,000.00	3,000.00	Judgment
39	Closure plan preparation	1	LS	8,000.00	8,000.00	Judgment
40	Post-closure plan preparation	1	LS	4,000.00	4,000.00	Judgment
					18,000	
SUBTOTAL FOR DESIGN AND OPERATION					**186,000.00**	
41	Additional line items allowance	10	%	186,000.00	18,600.00	
SUBTOTAL FOR DESIGN WITHOUT CONTINGENCY					**204,600.00**	
42	Contingency	15	%	204,600.00	30,700.00	
SUBTOTAL FOR DESIGN WITH CONTINGENCY					**235,300**	
TOTAL FOR DESIGN + CONSTRUCTION (ROUNDED)					**1,209,400**	

ASSUMPTIONS & LIMITATIONS:

1 Pricing is for 2007 present value with 7 percent discount rate.

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

Oat Hill EE/CA

OPINION OF PROBABLE COST - CONCEPTUAL (-30% to +50%)

Alternative 4: On-site 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	%	-	119,500.00	Typical percentage of overall construction
2	Construction BMPs (E&S Controls)	2	%	-	47,800.00	Typical percentage of overall construction
3	Clear & Grub staging areas	2.00	AC	737.48	1,500.00	HCCD 02230-100-0300, areas surrounding containment locations
4	Surveying	8	DAY	643.08	5,100.00	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
					181,900	
Excavation and Movement of Material						
6	Excavation of waste material from large north pile	150,000	CY	2.05	307,500.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
7	Haul to north consolidation area	150,000	CY	1.85	278,100.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
8	Placement of material at north consolidation area	150,000	CY	2.05	307,500.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
9	Excavation of waste material from upper tailings pile	20,000	CY	2.05	41,000.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
10	Haul to upper consolidation area	20,000	CY	1.85	37,100.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
11	Placement of material at upper consolidation area	20,000	CY	2.05	41,000.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
12	Excavation of waste material from lower tailings pile	80,000	CY	2.05	164,000.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
13	Haul to lower consolidation area	80,000	CY	1.85	148,300.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
14	Placement of material at lower consolidation area	80,000	CY	2.05	164,000.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
					1,488,500	
Capping of Containment Areas						
15	Compact material at consolidation areas	250,000	CY	0.25	61,800.00	BCCD 02-315-310-5080; 12" lifts, 3 passes
16	Fill for caps at north, upper, and lower piles	12,415	CY	12.73	158,100.00	ERCD 17 03 0424; unclassified fill, delivered, off site, includes remoteness factor
17	Placement of fill	12,415	CY	2.05	25,400.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
18	Compaction of fill	12,415	CY	0.25	3,100.00	BCCD 02315-310-5080; 12" lifts, 3 passes
19	Topsoil	6,207	CY	22.28	138,300.00	ERCD 18 05 0301 Furnish imported topsoil (includes material and hauling to site)
20	Placing topsoil	37,244	SY	2.05	76,300.00	HCCD 02315-520-0170, spread topsoil from stockpile, 2.5 CY FE loader, 300' haul
					463,000.00	
Surface Water Controls						
21	Excavation of channels	666	CY	1.23	800.00	HCCD 02315-424-1350; 5 CY track mounted F.E.
22	Haul excavated material to stockpile	666	CY	1.85	1,200.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
23	Grading of channels	666	CY	3.15	2,100.00	BCCD 02310-100-1150 Hand grading; modified from per SY
24	Granular bedding (materials)	167	CY	27.64	4,600.00	BCCD 02315-640-0050; bedding and placement
25	Haul bedding material to site	167	CY	18.94	3,200.00	BCCD 02315-490-0560; 12 CY dump;20 mile RT
26	Compact bedding material in channels	167	CY	2.81	500.00	BCCD 02315-640-0500; compacting bedding in trench
27	Riprap	167	CY	30.25	5,100.00	ERCD 17 03 0418; includes materials, delivery, and dumping
28	Place riprap	167	CY	17.88	3,000.00	BCCD 02370-450-0100; machine placed
29	Filter fabric (materials)	1,000	SY	1.62	1,600.00	ERCD 33 08 0534; 12oz/sy geotextile/drainage fabric (170 mil)
30	Place filter fabric	1,000	SY	0.81	800.00	ERCD 33 08 0534; Placement
					22,900	
Site Reclamation						
31	Providing Decon Area	30	SY	29.72	900.00	HCCD 02370-450-0400, stone truck washes
32	Fill for excavated areas not covered by caps	12,415	CY	6.37	79,000.00	ERCD 17 03 0424; unclassified fill, delivered, off site
33	Placement of fill	12,415	CY	2.05	25,400.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
34	Final grading of excavated areas	37,244	SY	0.11	4,200.00	HCCD 02310-100-3300
35	Temporary Fencing	3,080	LF	4.25	13,100.00	HCCD 01560-250-0200
36	Revegetation	8	AC	3,000.00	23,100.00	Per value suggested by similar BLM project
					145,700	
Groundwater Monitoring Program						
37	Installing 3 monitoring wells	3	LS	65,000.00	195,000.00	Judgement per similar BLM project
38	Miscellaneous equipment, parts, locks, etc.	3	EA	250.00	750.00	Judgement
					195,750	
Miscellaneous						
39	Providing Dust Control	37,500	CY	0.96	35,920.00	HCCD 02315-310-9010, 3000 gal. Water truck, 6 mile haul
40	Erosion control	4,000	SY	5.33	21,320.00	ERCD 17 03 9904 mulch hay, 50 lb; modified per SY (1 bale/SY)
41	Tack and crimp	4,000	SY	0.53	2,120.00	Judgement (labor + equipment) assumed 60% hand work, 40% machine; isolated site
					59,360	
SUBTOTAL FOR CONSTRUCTION					**2,557,110**	
42	Additional line items allowance	10	%	2,557,110.00	255,700.00	
SUBTOTAL FOR CONSTRUCTION WITHOUT CONTINGENCY					**2,812,810**	
43	Contingency	15	%	2,812,810.00	421,900.00	
SUBTOTAL FOR CONSTRUCTION WITH CONTINGENCY					**3,234,710**	
DESIGN COST ESTIMATE						
ENGINEERING & DESIGN						
44	Certificate of Designation Application Fees	1	LS	5,000.00	5,000.00	Judgment
45	Engineering design & operation report	1	LS	80,000.00	80,000.00	Judgment
46	Construction oversight	1	LS	64,000.00	64,000.00	Judgment, 2 people @ $80/day, 10 hour/day, 5 day/week, 2 months
47	Administration	1	LS	8,000.00	8,000.00	Judgment
					157,000	
OPERATIONAL REQUIREMENTS						
48	Monitoring program plan (cap and wells)	1	LS	30,000.00	30,000.00	Judgment
49	Cap monitoring	30	YR	10,200.00	126,600.00	Judgment, quarterly cap and site monitoring, adjusted to Present Worth
50	Groundwater monitoring	5	YR	2,500.00	41,000.00	Judgment, quarterly well monitoring, adjusted to Present Worth
51	Laboratory analyses	5	YR	300.00	4,900.00	Judgment, quarterly analyses, adjusted to Present Worth
52	Recordkeeping	5	YR	5,000.00	25,000.00	Judgment
					227,500	
FACILITY CLOSURE - ENGINEERING/DESIGN						
53	State & Local notifications	1	LS	3,000.00	3,000.00	Judgment
54	General public notification	1	LS	3,000.00	3,000.00	Judgment
55	Closure plan preparation	1	LS	8,000.00	8,000.00	Judgment
56	Post-closure plan preparation	1	LS	4,000.00	4,000.00	Judgment
					18,000	
SUBTOTAL FOR DESIGN AND OPERATION					**402,500.00**	
57	Additional line items allowance	10	%	402,500.00	40,300.00	
SUBTOTAL FOR DESIGN WITHOUT CONTINGENCY					**442,800.00**	
58	Contingency	15	%	442,800.00	66,400.00	
SUBTOTAL FOR DESIGN WITH CONTINGENCY					**509,200**	
TOTAL FOR DESIGN + CONSTRUCTION (ROUNDED)					**3,743,900**	

ASSUMPTIONS & LIMITATIONS:

1 Pricing is for 2007 present value with 7 percent discount rate.

2 Annual costs are set at 30 years for long-term monitoring activities at the Site.

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

Oat Hill EE/CA

OPINION OF PROBABLE COST - CONCEPTUAL (-30% to +50%)

Alternative 5: Removal to Off-Site Commercial Landfill Facility

Item No.	Line Item	Est. Qty.	Unit*	Unit Price	Extended Price	Description
CONSTRUCTION COST ESTIMATE						
MOBILIZATION & GENERAL SITE PREPARATION						
1	Mobilization, Bonding, Insurance	5	%	-	1,159,800.00	Typical percentage of overall construction
2	Construction BMPs (E&S Controls)	2	%	-	463,900.00	Typical percentage of overall construction
3	Road Improvements	5.00	DAY	1,648.21	8,200.00	HCCD Crews B10L
4	Clear & Grub staging areas	2.00	AC	737.48	1,500.00	HCCD 02230-100-0300, areas surrounding containment locations
5	Surveying	4	DAY	643.08	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
					1,644,000	
Excavation of Material						
7	Excavation of waste material from large north pile	150,000	CY	2.05	307,500.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
8	Excavation of waste material from upper tailings pile	20,000	CY	2.05	41,000.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
9	Excavation of waste material from lower tailings pile	80,000	CY	2.05	164,000.00	HCCD 02315-424-0300; 3 CY track mounted backhoe
					512,500	
Off-Site Disposal Fees						
10	Management of disposal	250,000	CY	90.00	22,500,000.00	Estimate from WSG (loading, hauling, transfer, and disposal)
					22,500,000	
Surface Water Controls						
11	Excavation of channels	666	CY	1.23	800.00	HCCD 02315-424-1350; 5 CY track mounted F.E.
12	Haul excavated material to stockpile	666	CY	1.85	1,200.00	HCCD 02315-490-2010, 1000' haul, 22 CY rear dump
13	Grading of channels	666	CY	3.15	2,100.00	BCCD 02310-100-1150 Hand grading; modified from per SY
14	Granular bedding (materials)	167	CY	27.64	4,600.00	BCCD 02315-640-0050; bedding and placement
15	Haul bedding material to site	167	CY	18.94	3,200.00	BCCD 02315-490-0560; 12 CY dump;20 mile RT
16	Compact bedding material in channels	167	CY	2.81	500.00	BCCD 02315-640-0500; compacting bedding in trench
17	Riprap	167	CY	30.25	5,100.00	ERCD 17 03 0418; includes materials, delivery, and dumping
18	Place riprap	167	CY	17.88	3,000.00	BCCD 02370-450-0100; machine placed
19	Filter fabric (materials)	1,000	SY	1.62	1,600.00	ERCD 33 08 0534; 12oz/sy geotextile/drainage fabric (170 mil)
20	Place filter fabric	1,000	SY	0.81	800.00	ERCD 33 08 0534; Placement
					22,900	
Site Reclamation						
21	Providing Decon Area	30	SY	29.72	900.00	HCCD 02370-450-0400, stone truck washes
22	Fill for excavated areas	12,415	CY	6.37	79,000.00	ERCD 17 03 0424; unclassified fill, delivered, off site
23	Placement of fill	12,415	CY	2.05	25,400.00	HCCD 02315-520-0170, spread fill from stockpile, 2.5 CY FE loader, 300' haul
24	Final grading of excavated areas	37,244	SY	0.11	4,200.00	HCCD 02310-100-3300
25	Revegetation	6	AC	1,000.00	6,000.00	Per value suggested by similar BLM project
					115,500	
Miscellaneous						
26	Providing Dust Control	25,000	CY	0.96	23,950.00	HCCD 02315-310-9010, 3000 gal. Water truck, 6 mile haul
					23,950	
SUBTOTAL FOR CONSTRUCTION					**24,794,900**	
27	Additional line items allowance	10	%	24,794,900.00	2,479,500.00	
SUBTOTAL FOR CONSTRUCTION WITHOUT CONTINGENCY					**27,274,400**	
28	Contingency	15	%	27,274,400.00	4,091,200.00	
SUBTOTAL FOR CONSTRUCTION WITH CONTINGENCY					**31,365,600**	
DESIGN COST ESTIMATE						
ENGINEERING & DESIGN						
29	Certificate of Designation Application Fees	1	LS	5,000.00	5,000.00	Judgment
30	Engineering design & operation report	1	LS	60,000.00	60,000.00	Judgment
31	Construction oversight	1	LS	100,000.00	100,000.00	Judgment
32	Administration	1	LS	20,000.00	20,000.00	Judgment
					185,000	
OPERATIONAL REQUIREMENTS						
33	Monitoring program plan	1	LS	10,000.00	10,000.00	Judgment
34	Monitoring	1	YR	2,000.00	2,000.00	Judgment, sampling and testing of removed materials
35	Recordkeeping	1	YR	5,000.00	5,000.00	Judgment
					17,000	
FACILITY CLOSURE - ENGINEERING/DESIGN						
36	State & Local notifications	1	LS	3,000.00	3,000.00	Judgment
37	General public notification	1	LS	3,000.00	3,000.00	Judgment
38	Trespass prevention measures	0	LS	3,500.00	0.00	Judgment
39	Permanent surface water control plan	0	LS	10,000.00	0.00	Judgment
40	Closure plan preparation, incl. final cover system	0	LS	30,000.00	0.00	Judgment
41	Post-closure plan preparation	0	LS	10,000.00	0.00	Judgment
					6,000	
SUBTOTAL FOR DESIGN AND OPERATION					**208,000.00**	
42	Additional line items allowance	10	%	208,000.00	20,800.00	
SUBTOTAL FOR DESIGN WITHOUT CONTINGENCY					**228,800.00**	
43	Contingency	15	%	228,800.00	34,300.00	
SUBTOTAL FOR DESIGN WITH CONTINGENCY					**263,100**	
TOTAL FOR DESIGN + CONSTRUCTION (ROUNDED)					**31,628,700**	

ASSUMPTIONS & LIMITATIONS:

1 Pricing is for 2007 present value with 7 percent discount rate.

2 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 = RSMeans Heavy Construction Cost Data 2006, adjusted for inflation
BCCD = RSMeans Building Construction Cost Data 2005, adjusted for inflation
ERCD = RSMeans Environmental Remediation Cost Data 2005, adjusted for inflation
Judgement = Professional judgement or estimation by E & E.
WSG = Waste Solutions Group