

TABLE 11

**COST ESTIMATE FOR REVISED REMEDY
WASTE DISPOSAL, INC. SUPERFUND SITE**

Capital Costs				
Description	Quantity	Unit	Unit Cost	Total Cost
Management Plans				
Schedule	1	LS	6820	6,820
Health and Safety Plan	1	LS	6956	6,956
Sampling and Analysis Plan	1	LS	9722	9,722
Permits	1	LS	50416	50,416
NPDES Permits	1	LS	7485	7,485
NPDES Permits - O&M	1	LS	5141	5,141
QA/QC Plan	1	LS	9094	9,094
Traffic Control Plan	1	LS	2162	2,162
O&M Plan	1	LS	15754	15,754
Procurement	1	LS	16168	16,168
Construction				
HO Support	11	MTH	12490	137,390
Site Admin	6	MTH	52040	312,240
Site Mob/Demob	1	LS	27020	27,020
Clear and Grub	19	Acre	1133	21,527
Close Wells	2960	LF	38	113,072
Remove Concrete Slabs	32398	SF	1.43	46,329
Break/Relocate Concrete and Bricks	212	CY	192.21	40,749
Break Asphalt	130956	LF	0.24	31,429
Install/Remove Silt Fence	4300	LF	8.49	36,493
Install/Remove Hay Balse	1000	LF	12.62	12,620
Overexcavate Fill Areas	64797	CY	3.85	249,156
Leachate Collection Points	4	EA	1805.25	7,221
Biovent Wells	25	EA	1761.12	44,028
Install Building Control System	1	EA	28821	28,821
Repave Conc Building Control System Trench	1500	SF	8.80	13,200
Relocate Building Occupants	1	EA	11000	11,000
Stormwater Pavement Demo/Restoration	50	SF	20.10	1,005
Anchor Trench Perimeter Drain	1885	LF	50.13	94,496
Storm Drain to Offsite	1560	LF	36.00	56,163
Storm Drain Catch Basin Invert	2	EA	4581	9,162
Geocomposite Gas Collection	300584	SF	0.47	141,255
Gas Collection System	1920	LF	7.76	14,900
Install 60 ml HDPE	306355	SF	0.67	204,396
Install Drain Layer Geocomposite	305355	SF	0.44	135,650
Install Asphalt Skim Coat	92552	SF	0.78	71,832
Install Extraction System	1	LS	17444	17,444
Startup System	1	LS	4081	4,081
Soil Cover All Areas	77756	CY	11.21	871,679
Irrigation System North East Corner Only	3360	LF	11.09	37,254
Seeding of Graded Areas	19.34	Acre	1917	37,068
Trees/Shrubs North East Corner	1	LS	24943	24,943
As-Builts	1	LS	44117	44,117
Grade RV Parking to Surrounding Grades	16735	CY	3.30	55,255
Demolish Brothers Building	5740	SF	3.53	20,268
Demolish C+E Building	6400	SF	4.41	28,221
Install 20' Fence	475	LF	29.70	14,108
Tenant Relocation	2	EA	50000	100,000
Subtotal				3,245,310
Contingency	15%			486,797
Agency Oversight	10%			373,211
TOTAL CAPITAL COST				4,110,000

Notes:

LS = Lump Sum
MTH = Month
LF = Lineal Feet

SF = Square Feet
CY = Cubic Yard
EA = Each

TABLE 11 (Continued)

COST ESTIMATE FOR REVISED REMEDY
WASTE DISPOSAL, INC. SUPERFUND SITE

Annual Costs of O&M (calculated for a 30-year minimum period)						
Description	Quantity	Unit	Cost/Unit	Ann O&M	Present Worth	
Institutional Controls Monitoring (Quarterly)	1	Year	16,992	16,992	312,518	
Enforcement Actions (1 per year)	1	Year	10,400	10,400	191,277	
Agency Oversight (10% of O&M costs)	1	Year	18,500	18,500	340,253	
Soil Gas Monitoring (Quarterly)	1	Year	73,132	73,132	1,345,047	
Groundwater Monitoring (Quarterly)	1	Year	29,579	29,579	544,018	
In-Business Air Monitoring (Semi-annually)	1	Year	6,304	6,304	115,943	
Reservoir Liquid Sump (300 gallon per year)	1	Year	3,835	3,835	70,533	
Stormwater Monitoring (4 samples per year)	1	Year	2,200	2,200	40,462	
Biovent Monitoring						
First year (25 samples, semi-annually)	1	Year	26,450	26,450	25,556	
Years 2-30 (25 samples per year)	1	Year	11,275	11,275	203,353	
Soil Gas Control System Beneath Res. Cap						
First year (12 samples)	1	Year	4,620	4,620	4,464	
Years 2-30 (4 samples per year)	1	Year	1,540	1,540	27,775	
Replace Stand Pipe once at 10 years	1	Year	75	75	624	
Replace Stand Pipe once at 20 years	1	Year	37	37	526	
Annual Reports	1	Year	10,000	10,000	183,920	
Cap over Reservoir						
Mow grass	1	Year	495	495	9,104	
rodent control	1	Visit	2,000	2,000	36,784	
Engineered Cap Area 2 w/o Reservoir						
Mow grass	1	Year	512	512	9,417	
Engineered Cap outside Area 2						
Mow grass	1	Year	249	249	4,580	
Replace 20% Engineered AC Cover every 7.5 years						
7.5 years	1	Year	8,699	8,699	56,522	
15 years	1	Year	8,699	8,699	43,668	
22.5 years	1	Year	8,699	8,699	33,737	
30 years	1	Year	8,699	8,699	26,065	
Replace 20% Engineered Concrete Cover every 7.5 years						
7.5 years	1	Year	5,027	5,027	32,663	
15 years	1	Year	5,027	5,027	25,235	
22.5 years	1	Year	5,027	5,027	19,496	
30 years	1	Year	5,027	5,027	15,063	
TOTAL PRESENT WORTH OF ANNUAL O&M					3,720,000	

TOTAL CAPITAL AND PW OF ANNUAL O&M	7,830,000
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Notes:

- Total cost is subject to revision during remedial design.
- There may be some additional costs associated with temporary or permanent relocation of occupants whose properties will be impacted by the remedial construction, but it cannot be quantified at this time.
- Interest rate for NPV calculations (I=3.5% before tax/after inflation) was selected based on the difference between the Consumer Price Index (CPI) and the 30-year long-term bond rate at time of calculation.
- O&M is expected to be longer than 30 years and information obtained during annual and 5-year reviews will be used to refine long-term O&M cost estimates.
- Reference is to WDIG Draft Cost Estimate of Jan 2002.