

**TOWN OF SALINA LANDFILL**  
**REMEDIAL INVESTIGATION/FEASIBILITY STUDY**

SITE I.D. NO. 734036

**WORK PLAN BUDGET**  
**FOR**  
**PHASE II INVESTIGATION**  
  
**(VOLUME II)**

PREPARED FOR:

TOWN OF SALINA  
201 School Road  
Liverpool, New York 13088

JULY 14, 1999  
(Revised August 5, 1999)

PREPARED BY:

CLOUGH, HARBOUR & ASSOCIATES LLP  
Engineers, Surveyors, Planners & Landscape Architects  
109 South Warren Street, Suite 1300  
Syracuse, New York 13202

CHA Project No. 6967

Clough, Harbour & Associates LLP (CHA) has been retained by the Town of Salina to conduct a Remedial Investigation and Feasibility Study (RI/FS) of the former Town of Salina Landfill. This document presents the budget for a second phase of the RI/FS and is being provided to the New York State Department of Environmental Conservation (NYSDEC) and the Town of Salina.

Section 1 of this budget is a revised form of the budget presented to the Town and to NYSDEC in May 1998. The current budget reflects changes to the Total Project Budget Summary, Task 4 (designated for the second phase investigation), and Task 7 (related to PRP Search Activities). The total budget for Task 4 is \$85,757.42. No money was previously budgeted for a second phase investigation.

The revised budget for Task 7 is \$63,590.04. This represents an increase of \$5,709 over the existing budget. The increase covers additional work conducted by the PRP Search subcontractor, GRB Environmental Services, Inc. The expanded work helped identify other PRPs that may have contributed to contamination of Ley Creek.

Based on the above amendments, the project budget needs to be increased by an amount of \$91,466.42. However, CHA will apply a credit of \$22,621 to this amendment. This credit is derived from subcontractor monies budgeted, but not spent in the first phase of the investigation (see last page of Section 1 for details). Therefore, the final budget will need to be increased by \$68,845.42. The final cost to the Town for this additional work, after receiving 75% reimbursement from the State of New York will be \$17,211.36.

Section 2 of this document provides the details of the budget from Lawler Matusky and Skelly Engineers LLP, as required by contract.

Section 3 of this document provides a unit cost breakdown for the drilling subcontractor and the laboratory subcontractors (analytical and soil testing).

## ***SECTION 1***

# Labor Hours and Costs

Task Summary

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	TOTAL HOURS	TOTAL (\$)
		Work Plan Development	Site Characterization	Remedial Investigation Report	Second Phase Investigation	Risk Assessment	Feasibility Study	Support Activities		
IX	52.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
VIII	44.00	28.0	20.0	56.0	172.0	0.0	68.0	28.0	372	16368.00
VII	35.00	188.0	100.0	424.0	2720.0	0.0	90.0	92.0	3,614	126490.00
VI	31.00	40.0	20.0	320.0	0.0	0.0	360.0	16.0	756	23436.00
V	28.00	88.0	20.0	200.0	0.0	0.0	240.0	0.0	555	15344.00
IV	26.00	112.0	27.0	200.0	333.0	0.0	215.0	0.0	957	14430.00
III	19.00	80.0	176.0	200.0	192.0	0.0	144.0	24.0	1,006	18183.00
II	16.00	80.0	470.0	120.0	2,496.0	0.0	120.0	24.0	3,742	16996.00
I	13.00	124.0	790.0	160.0	0.0	0.0	120.0	52.0	2,366	48646.00
WP	10.00	64.0	0.0	104.0	0.0	0.0	40.0	28.0	236	2360.00
<b>TOTAL HOURS:</b>		804	1,623	1,784	307	0	1,398	264	11,786	
<b>INDIRECT SALARY COSTS (\$):</b>		18,912.00	28,114.32	46,864.00	5,913.00	0.00	37,981.47	6,832.80		144,617.59
<b>DIRECT SALARY COSTS (\$):</b>		24,774.72	36,899.76	61,391.84	7,746.03	0.00	49,755.73	8,950.97		189,449.05
<b>SUBTOTAL (\$):</b>		43,686.72	64,944.08	108,255.84	13,659.03	0.00	87,737.20	15,783.77		334,066.64
<b>FIXED FEE (\$):</b>		5,242.41	7,793.29	12,990.70	1,639.08	0.00	10,528.46	1,894.05		40,087.99
<b>MATERIAL COSTS (\$):</b>		1,204.00	1,137.00	1,504.00	645.00	0.00	960.00	760.00		6,210.00
<b>TRAVEL COSTS (\$):</b>		485.00	2,928.00	0.00	1,293.00	0.00	430.00	322.50		5,458.50
<b>FIELD EQUIPMENT (\$):</b>		0.00	3,091.00	0.00	1,159.00	0.00	0.00	0.00		4,250.00
<b>SUBS (\$):</b>		10,527.00	78,866.68	11,351.17	67,362.31	64,744.47	600.00	44,829.72		278,281.35
<b>MANAGEMENT FEE (\$):</b>		61,145.13	158,760.05	134,101.71	85,757.42	0.00	100,255.66	63,590.04		648,354.48
<b>TOTAL (\$):</b>										

## Labor Hours and Costs

### Task 4 SECOND PHASE INVESTIGATION

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	Task 4.1		Task 4.2		Task 4.3		Task 4.4		Task 4.5		TOTAL HOURS	TOTAL (\$)
		Waste Area Investigation	Surface Soil Investigation	Groundwater Investigation	Site Survey	Validation (DUSR)	Data						
IX	50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
VIII	43.00	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	172.00
VII	34.00	40.0	15.0	15.0	15.0	5.0	5.0	5.0	5.0	5.0	5.0	80	2720.00
VI	30.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
V	27.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
IV	25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
III	18.00	0.0	0.0	12.0	12.0	6.5	6.5	6.5	6.5	6.5	6.5	19	333.00
II	16.00	0.0	0.0	0.0	0.0	12.0	12.0	12.0	12.0	12.0	12.0	12	192.00
I	13.00	80.0	50.0	40.0	40.0	12.0	12.0	12.0	12.0	10.0	10.0	192	2,496.00
W/P	9.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
<b>TOTAL HOURS:</b>		122	67	67	67	36	36	15	15	307			
<b>INDIRECT SALARY COSTS (\$):</b>		2,486.00	1,246.00	1,246.00	1,246.00	635.00	635.00	300.00	300.00	5,913.00			5,913.00
<b>FIXED FEE (\$):</b>		1,310.00	3,256.66	1,632.26	1,632.26	831.85	831.85	393.00	393.00	7,746.03			7,746.03
<b>MATERIAL COSTS (\$):</b>		5,742.66	2,878.26	2,878.26	2,878.26	1,466.85	1,466.85	693.00	693.00	13,659.03			13,659.03
<b>TRAVEL COSTS (\$):</b>		689.12	345.39	345.39	345.39	176.02	176.02	83.16	83.16	1,639.08			1,639.08
<b>FIELD EQUIPMENT (\$):</b>		255.00	135.00	135.00	255.00	0.00	0.00	0.00	0.00	645.00			645.00
<b>SUBS (\$):</b>		380.00	483.00	355.00	355.00	75.00	75.00	0.00	0.00	1,293.00			1,293.00
<b>MANAGEMENT FEE (\$):</b>		255.00	343.00	561.00	561.00	0.00	0.00	5,000.00	5,000.00	1,159.00			1,159.00
<b>TOTAL (\$):</b>		40,662.00	21,700.31	0.00	0.00	1,717.87	1,717.87	5,776.16	5,776.16	85,757.42			85,757.42

# Material Costs

## Task 4 SECOND PHASE INVESTIGATION

ITEM	RATE BASE	ESTIMATED RATE PER UNIT	Task 4.1	Task 4.2	Task 4.3	Task 4.4	Task 4.5	TOTAL (\$)
			Waste Area Investigation	Surface Soil Investigation	Groundwater Investigation	Site Survey	Data Validation (DUSR)	
Telephone	(at cost)	1.00	20	20	20	0	0	60.00
Reproduction	(per page)	0.05	0	0	0	0	0	0.00
General PC usage	(per hr)	1.50	0	0	0	0	0	0.00
Auto CADD	(per hr)	8.50	0	0	0	0	0	0.00
Fax	(at cost)	1.00	0	0	0	0	0	0.00
Mailing/shipping	(at cost)	1.00	120	0	120	0	0	240.00
Information purchases	(at cost)	1.00	0	0	0	0	0	0.00
Photography	(per roll)	15.00	1	1	1	0	0	45.00
Lg/ print repro (30x42)	(at cost)	1.00	0	0	0	0	0	0.00
Consumable equip.*	(at cost)	1.00	100	100	100	0	0	300.00
<b>TASK TOTAL (\$):</b>			255.0	135.0	255.0	0.0	0.0	645.0

## Travel Costs

### Task 4

### SECOND PHASE INVESTIGATION

ITEM	RATE BASE	ESTIMATED COST PER UNIT	Task 4.1		Task 4.2		Task 4.3		Task 4.4		Task 4.5		TOTAL (\$)
			Waste Area Investigation	Surface Soil Investigation	Groundwater Investigation	Site Survey	Data Validation (DUSR)						
Air fare	(at cost)	1.00	0	0	0	0	0	0	0	0	0	0	0.00
Auto rental	(per day)	39.00	0	0	0	0	0	0	0	0	0	0	0.00
Truck/van rental	(at cost)	1.00	355	355	355	0	0	0	0	0	0	0	1,065.00
Truck/van mileage	(per mile)	0.500	50	50	0	140	0	0	0	0	0	0	120.00
Personal mileage	(per mile)	0.310	0	300	0	0	0	0	0	0	0	0	93.00
Per diem	(per day)	101.00	0	0	0	0	0	0	0	0	0	0	0.00
Tolls, etc.	(at cost)	1.00	0	10	0	5	0	0	0	0	0	0	15.00
<b>TOTAL UNITS:</b>			405	715	355	145	0	0	0	0	0	0	
<b>TASK TOTAL (\$):</b>			380.00	483.00	355.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00	1,293.0

Equipment Costs

Task 4 SECOND PHASE INVESTIGATION

ITEM	RATE BASE	COST PER UNIT	Task 4.1		Task 4.2		Task 4.3		Task 4.4		Task 4.5	
			Waste Area Investigation	Surface Soil Investigation	Groundwater Investigation	Site Survey	Data Validation (DUSR)	TOTAL UNITS	TOTAL (\$)			
Personal Protective Equipment:												
Level D (per person)	(per day)	12	5	4	2	0	0	0	0	0	11.00	132
Level C	(per day)	53	0	0	0	0	0	0	0	0	0.00	0
Level B	(per day)	63	0	0	0	0	0	0	0	0	0.00	0
Cost of air	(per day)	1	0	0	0	0	0	0	0	0	0.00	0
PID - HNu (P1-101)	(per day)	17	0	0	0	0	0	0	0	0	0.00	0
PID - Thermo 580S (OVM)	(per day)	11	0	0	0	0	0	0	0	0	0.00	0
PID - Photovac (Rental)	(per week)	195	1	1	1	0	0	0	0	0	3.00	585
Scott D-15 Combustible Gasterer	(per day)	22	0	0	0	0	0	0	0	0	0.00	0
Draeger pump	(per day)	4	0	0	0	0	0	0	0	0	0.00	0
Draeger - detector tubes(10/box)	(per box)	36	0	0	0	0	0	0	0	0	0.00	0
Radiation monitor - Dosimeter 3700	(per day)	16	0	0	0	0	0	0	0	0	0.00	0
Soil gas sampler - KVA (sampler #14)	(per day)	37	0	0	0	0	0	0	0	0	0.00	0
Mini Ram particulate monitor	(per day)	7	0	0	0	0	0	0	0	0	0.00	0
Inertial Pump- WaTerra	(per day)	38	0	0	0	0	0	0	0	0	0.00	0
Grundfos Submersible Pump	(per day)	11	0	0	0	0	2	0	0	0	2.00	22
Bladder pump -Isco	(per day)	38	0	0	0	0	0	0	0	0	0.00	0
Generators - Honda (800w)	(per day)	39	0	0	0	0	2	0	0	0	2.00	78
Generator - Coleman	(per day)	9	0	0	0	0	0	0	0	0	0.00	0
Static well level - Solinst 101	(per day)	2	0	0	0	0	2	0	0	0	2.00	4
ORP Meter	(per day)	1	0	0	0	0	2	0	0	0	2.00	2
Hermit data logger - in-situ	(per day)	57	0	0	0	0	0	0	0	0	0.00	0
Turbidity meter - Hach	(per day)	3	0	0	0	0	2	0	0	0	2.00	6
Corning Checkmate	(per day)	15	0	0	0	0	2	0	0	0	2.00	30
Troxler Nuclear Density Guage	(per day)	100	0	0	0	1	0	0	0	0	3.00	300
GPS System	(per day)	152	0	0	0	0	0	0	0	0	0.00	0
<b>TOTAL</b>			<b>255</b>	<b>343</b>	<b>561</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1159</b>	<b>1159</b>



Subconsultant and Subcontractor Costs

Task 4 SECOND PHASE INVESTIGATION

ITEM	Task 4.1 Waste Area Investigation	Task 4.2 Surface Soil Investigation	Task 4.3 Groundwater Investigation	Task 4.4 Site Survey	Task 4.5 Data Validation (DUSR)	SUBTOTAL (\$)
<b>Subconsultants</b>						
LMS	0	21700.31	0	0	5000	26700.31
GRB Environmental	0	0	0	0	0	0
Third	0	0	0	0	0	0
Fourth	0	0	0	0	0	0
Fifth	0	0	0	0	0	0
Sixth	0	0	0	0	0	0
<b>SUBTOTAL:</b>	0	21700.31	0	0	5000	26700.31
<b>Subcontractors:</b>						
Modi Engineering	0	0	0	0	0	0
Parratt Wolff Inc.	11705	0	0	0	0	11705
Upstate Laboratories	27157	0	0	0	0	27157
CME Associates	1800	0	0	0	0	1800
Fifth	0	0	0	0	0	0
Sixth	0	0	0	0	0	0
<b>SUBTOTAL:</b>	40662	0	0	0	0	40662
<b>TOTAL:</b>	40662	21700.31	0	0	5000	67362.31

# Labor Hours and Costs

## Task 7 SUPPORT ACTIVITIES

		Task 7.1		Task 7.2			
NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	Citizen		PRP Search Activities	TOTAL HOURS	TOTAL (\$)	
		Participation Activities	PRP Search Activities				
IX	52.00	0.0	0.0		0	0.00	
VIII	44.72	16.0	12.0		28	1252.16	
VII	35.36	60.0	32.0		92	3253.12	
VI	31.20	16.0	0.0		16	499.20	
V	28.08	0.0	0.0		0	0.00	
IV	26.00	0.0	0.0		0	0.00	
III	18.72	24.0	0.0		24	449.28	
II	16.64	24.0	0.0		24	399.36	
I	13.52	40.0	12.0		52	703.04	
WP	9.88	24.0	4.0		28	276.64	
<b>TOTAL HOURS:</b>		204	60		264		
<b>INDIRECT SALARY</b>							
<b>DIRECT SALARY COSTS (\$):</b>		4,962.88	1,869.92			6,832.80	
<b>COSTS (\$):</b>		6,501.37	2,449.60			8,950.97	
<b>FIXED FEE (\$):</b>		0.12				15,783.77	
<b>MATERIAL COSTS (\$):</b>		760.00	0.00			1,894.05	
<b>TRAVEL COSTS (\$):</b>		215.00	107.50			760.00	
<b>FIELD EQUIPMENT (\$):</b>		0.00	0.00			322.50	
<b>SUBS (\$):</b>		4,120.72	40,709.00			0.00	
<b>MANAGEMENT FEE (\$):</b>						44,829.72	
<b>TOTAL (\$):</b>		17,935.68	45,654.36			63,590.04	

## Subconsultant and Subcontractor Costs

### Task 7 SUPPORT ACTIVITIES

ITEM	Task 7.1 Citizen Participation Activities	Task 7.2 PRP Search Activities	SUBTOTAL (\$)
<b>Subconsultants</b>			
LMS	4120.72	0	4,121
GRB Environmental	0	40,709	40,709
Third	0	0	0
Fourth	0	0	0
Fifth	0	0	0
Sixth	0	0	0
<b>SUBTOTAL:</b>	4120.72	40,709	44,830
<b>Subcontractors:</b>			
Modi Engineering	0	0	0
American Auger	0	0	0
RECRA Env.	0	0	0
Potak	0	0	0
Fifth	0	0	0
Sixth	0	0	0
<b>SUBTOTAL:</b>	0	0	0
<b>TOTAL:</b>	4120.72	40709	44829.72

CREDIT AMOUNT FROM PHASE I INVESTIGATION

Subcontractor	Budget Amount	Invoice Amount	Over/Under
American Auger	41681	39514	2167
RECRA Environmental	44979	28211	16768
Modi Engineering	3675	3672	3
Nancy Potak	6062	6333	-271
GE Capital Modular	1215	0	1215
Patricia Electric	1681	0	1681
Expenses	7156	6098	1058
Total	\$106,449	\$83,828	\$22,621

*SECTION 2*

## Labor Hours and Costs

### Task 4 SECOND PHASE INVESTIGATION

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	Task 4.1	Task 4.2	Task 4.3	Task 4.4	Task 4.5	TOTAL HOURS	TOTAL (\$)
		Waste Area Investigation	Surface Soil Investigation	Groundwater Investigation	Site Survey	Data Validation (DUSR)		
IX	53.27	0.0	0.0	0.0	0.0	0.0	0	0.00
VIII	42.97	0.0	16.0	0.0	0.0	2.0	18	773.46
VII	38.68	0.0	0.0	0.0	0.0	0.0	0	0.00
VI	33.77	0.0	12.0	0.0	0.0	0.0	12	405.24
V	29.97	0.0	16.0	0.0	0.0	6.0	22	659.34
IV	26.35	0.0	80.0	0.0	0.0	0.0	80	2108.00
III	20.80	0.0	60.0	0.0	0.0	0.0	60	1248.00
II	20.80	0.0	0.0	0.0	0.0	60.0	60	1248.00
I	15.96	0.0	100.0	0.0	0.0	8.0	108	1723.68
W/P	15.96	0.0	40.0	0.0	0.0	7.0	47	750.12
<b>TOTAL HOURS:</b>		0	324	0	0	83	407	
<b>DIRECT SALARY COSTS (\$):</b>		0.00	7,162.68	0.00	0.00	1,753.16		8,915.84
<b>INDIRECT SALARY COSTS (\$):</b>		0.00	11,102.15	0.00	0.00	2,717.40		13,819.55
<b>FIXED FEE (\$):</b>		0.00	16,264.83	0.00	0.00	4,470.56		22,735.39
<b>MATERIAL COSTS (\$):</b>		0.00	1,826.48	0.00	0.00	447.06		2,273.54
<b>TRAVEL COSTS (\$):</b>		0.00	585.00	0.00	0.00	82.38		667.38
<b>FIELD EQUIPMENT (\$):</b>		0.00	200.00	0.00	0.00	0.00		200.00
<b>SUBS (\$):</b>		0.00	0.00	0.00	0.00	0.00		0.00
<b>MANAGEMENT FEE (\$):</b>		0.00	21,700.31	0.00	0.00	5,000.00		26,700.31
<b>TOTAL (\$):</b>		0.00	21,700.31	0.00	0.00	5,000.00		26,700.31

## Material Costs

### Task 4 SECOND PHASE INVESTIGATION

ITEM	RATE BASE	ESTIMATED RATE PER UNIT	Task 4.1	Task 4.2	Task 4.3	Task 4.4	Task 4.5	TOTAL (\$)
			Waste Area Investigation	Surface Soil Investigation	Groundwater Investigation	Site Survey	Data Validation (DUSR)	
Telephone	(at cost)	1.00	0	80	0	0	25	105.00
Reproduction	(per page)	0.05	0	4,000	0	0	300	215.00
General PC usage	(per hr)	1.50	0	50	0	0	10	90.00
Fax	(per page)	1.00	0	60	0	0	10	70.00
Mailing/shipping	(at cost)	1.00	0	120	0	0	17.38	137.38
Film Processing	(at cost)	1.00	0	50	0	0	0	50.00
<b>TASK TOTAL (\$):</b>			0.0	565.0	0.0	0.0	82.38	667.4

## Travel Costs

### Task 4 SECOND PHASE INVESTIGATION

ITEM	RATE BASE	ESTIMATED COST PER UNIT	Task 4.1		Task 4.2		Task 4.3		Task 4.4		Task 4.5		TOTAL (\$)
			Waste Area Investigation	Surface Soil Investigation	Groundwater Investigation	Site Survey	Data Validation (DUSR)						
Truck/van rental (per day)		31.34	0	4	0	0	0	0	0	0	0	0	125.36
Truck/van mileage (per mile)		0.133	0	471	0	0	0	0	0	0	0	0	62.64
Personal mileage (per mile)		0.300	0	0	0	0	0	0	0	0	0	0	0.00
Per diem (per day)		101.00	0	6	0	0	0	0	0	0	0	0	606.00
Tolls, etc. (at cost)		1.00	0	30	0	0	0	0	0	0	0	0	30.00
<b>TOTAL UNITS:</b>			0	511	0	0	0	0	0	0	0	0	
<b>TASK TOTAL (\$):</b>			0.00	824.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	824.0



Equipment Costs

Task 4 SECOND PHASE INVESTIGATION

ITEM	RATE BASE	COST PER UNIT	Task 4.1		Task 4.2		Task 4.3		Task 4.4		Task 4.5	
			Waste Area Investigation	Surface Soil Investigation	Groundwater Investigation	Site Survey	Data Validation (DUSR)	TOTAL UNITS	TOTAL (\$)			
Conductivity w/ temp meter - YEI	(per day)	23	0	0	0	0	0	0	0	0	0.00	0
DO/Temp meter - YEI	(per day)	4	0	0	0	0	0	0	0	0	0.00	0
pH meter - CP (pH pen)	(per day)	14	0	0	0	0	0	0	0	0	0.00	0
Turbidity meter - Hach	(per day)	13	0	0	0	0	0	0	0	0	0.00	0
14 ft Jon Boat	(per day)	20	0	0	0	0	0	0	0	0	0.00	0
Petite Ponar Dredge	(per day)	100	0	0	0	0	0	0	0	0	0.00	0
Electrofisher	(at cost)	1	0	200	0	0	0	0	0	0	200.00	200
Misc. Disposables												
<b>TOTAL</b>			<b>0</b>	<b>200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200.00</b>	<b>200</b>

***SECTION 3***

COST ESTIMATE  
PARRATT WOLFF INC.

Description	Unit Cost - Level D	Units	No. of Units	Total Cost
<b>Mobilization</b>				
Mobilization and Demobilization	2000	\$/ea.	1	2000
Personal Prot. Equip	20	\$/day	0	0
<b>Drilling</b>				
Equipment & crew for two Ley Creek borings	2025	\$/day	3	6075
Geoprobe rig	1200	\$/day	1	1200
Drive Shelby Tubes (per attempt)	45	\$/ea	6	270
<b>Excavation</b>				
Tracked excavator and operator for test pits	1080	\$/day	2	2160
<b>Level C Upgrade</b>	100	\$/day	0	0
<b>TOTAL</b>				<b>11705</b>

COST ESTIMATE -  
UPSTATE LABORATORIES, INC.

Type of Analysis	Analytical Method	Unit Cost per Sample	Subsurface Soil	Surface Soil	Earthworms	Ground Water	Subtotal	Subtotal
TCL Volatile Organic Compounds	ASP 95-1	85	7	0	0	1	8	680
TCL Semi-Volatile Organic Compounds	ASP 95-2	170	7	25	18	1	51	8670
TCL Pesticides/PCBs	ASP 95-3	70	7	25	18	1	51	3570
TAL Metals (IACP - 23 Metals, including digestion)	200.7 CLP-M	95	7	25	18	2	52	4940
Cyanide	335.2 CLP-M	32	7	25	18	1	51	1632
Tissue Prep.	NA	35	0	0	18	1	19	665
Dioxin Isomers	ASP 8290	800	0	0	0	5	5	4000
Nutrient/Microbial Testing	NA	500	6	0	0	0	6	3000
<b>TOTAL</b>							<b>243</b>	<b>\$27,157</b>

COST ESTIMATE  
ATLANTIC TESTING LABS.

Description	Method	Unit Cost	Units	No. of Units	Total Cost
<b>Test Schedule</b>					
Triaxial permeability	ASTM D 5084	350	\$/ea.	4	1400
Falling Head Permeability	NA	180	\$/ea.	0	0
Constant Head Permeability	ASTM D 2434	165	\$/ea.	0	0
Gradation	ASTM D 422	55	\$/ea.	12	660
<b>TOTAL</b>					2060

COST ESTIMATE  
CME Associates, Inc.

Description	Method	Unit Cost	Units	No. of Units	Total Cost
<b>Test Schedule</b>					
Triaxial permeability	ASTM D 5084	315	\$/ea.	4	1260
Falling Head Permeability	NA	280	\$/ea.	0	0
Constant Head Permeability	ASTM D 2434	200	\$/ea.	0	0
Gradation	ASTM D 422	45	\$/ea.	12	540
<b>TOTAL</b>					1800

COST ESTIMATE  
PARRATT-WOLFF, INC.\*

Description	Method	Unit Cost	Units	No. of Units	Total Cost
<b>Test Schedule</b>					
Triaxial permeability	ASTM D 5084	325	\$/ea.	4	1300
Falling Head Permeability	NA	325	\$/ea.	0	0
Constant Head Permeability	ASTM D 2434	285	\$/ea.	0	0
Gradation	ASTM D 422	55	\$/ea.	12	660
<b>TOTAL</b>					1960

\* Prices are elevated if soils are contaminated by factors of 1.3 to 1.7