

ILLINOIS POLLUTION CONTROL BOARD

PEOPLE OF THE STATE OF ILLINOIS,

Complainant,

v.

COMMUNITY LANDFILL COMPANY, INC.,
and CITY OF MORRIS, an Illinois Municipal
Corporation,,

Respondents.

PCB 03-191
(Enforcement – Land)

NOTICE OF FILING

TO: SEE ATTACHED SERVICE LIST

PLEASE TAKE NOTICE that on September 5, 2007, we electronically filed with the Clerk of the Illinois Pollution Control Board, the Defendant, City of Morris', Supplemental Response to Complainant's Second Request for Production of Documents, a copy of which is attached hereto and hereby served upon you.

Dated: September 5, 2007

Respectfully submitted,

On behalf of the CITY OF MORRIS

/s/ Charles F. Helsten

Charles F. Helsten

One of Its Attorneys

Charles F. Helsten
Hinshaw & Culbertson LLP
100 Park Avenue
P.O. Box 1389
Rockford, IL 61105-1389
815-490-4900

AFFIDAVIT OF SERVICE

The undersigned, pursuant to the provisions of Section 1-109 of the Illinois Code of Civil Procedure, hereby under penalty of perjury under the laws of the United States of America, certifies that on September 5, 2007, she caused to be served a copy of the foregoing upon:

Mr. Christopher Grant Assistant Attorney General Environmental Bureau 69 W. Washington St., Suite 1800 Chicago, IL 60602	Mark LaRose Clarissa Grayson LaRose & Bosco, Ltd. 200 N. LaSalle, Suite 2810 Chicago, IL 60601
Mr. John T. Therriault, Assistant Clerk Illinois Pollution Control Board 100 W. Randolph, Suite 11-500 Chicago, IL 60601 (via electronic filing)	Bradley Halloran Hearing Officer Illinois Pollution Control Board 100 W. Randolph, Suite 11-500 Chicago, IL 60601
Mr. Scott Belt Scott M. Belt & Associates, P.C. 105 East Main Street Suite 206 Morris, IL 60450	Jennifer A. Tomas Office of the Attorney General Environmental Bureau 500 South Second Street Springfield, IL 62706

A copy of the same was enclosed in an envelope in the United States mail at Rockford, Illinois, proper postage prepaid, before the hour of 5:00 p.m., addressed as above.



HINSHAW & CULBERTSON
100 Park Avenue
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**DEFENDANT, CITY OF MORRIS', SUPPLEMENTAL RESPONSE TO
COMPLAINANT'S SECOND REQUEST FOR PRODUCTION OF DOCUMENTS**

NOW COMES Respondent, CITY OF MORRIS, by and through its attorneys, HINSHAW & CULBERTSON LLP, and as and for its supplemental responses to Plaintiff's Second Request for Production of Documents, states as follows::

Defendant submits the following additional documents:

1. Updated closure and post-closure costs for the Morris Community Landfill -- Parcel A for the IEPA renewal permit application Log No. 2000-155.
2. Updated closure and post-closure costs for the Morris Community Landfill -- Parcel B for the IEPA renewal permit application Log No. 2000-156.
3. 1982 Operating and Development Permit Transfer documents: June 29, 1982 Application for Permit Transfer; July 20, 1982 letter from IEPA granting operating permit to CLC; and 1974 letter from IEPA granting permit for initial development of the Landfill.

Dated: _____

9/5/07

Respectfully submitted,

On behalf of the CITY OF MORRIS

Charles F. Helsten
One of Its Attorneys

Charles F. Helsten
Hinshaw & Culbertson LLP
100 Park Avenue
P.O. Box 1389
Rockford, IL 61105-1389
815-490-4900

AUG 24 2007



Shaw® Shaw Environmental, Inc.

A World of Solutions™

July 12, 2007

Christine Roque
Permit Section, Bureau of Land #33
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: 0630600001 - Grundy County
Morris Community Landfill - Parcel A
Permit No. 2000-155-LFM (Mod. No. 9)

Dear Ms. Roque:

On behalf of the City of Morris, Shaw Environmental, Inc. (Shaw), is submitting updated closure and post-closure costs for the Morris Community Landfill - Parcel A for the IEPA renewal permit application Log No. 2005-155. Should you have any questions, please contact me at (630) 762-1400.

Very truly yours,

Shaw Environmental, Inc.

Jesse Varsho, P.E., P.G.
Project Manager

cc: Mayor Richard Kopczick – City of Morris
Chuck Helsten – Hinshaw & Culbertson
Community Landfill Company

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**MORRIS COMMUNITY LANDFILL
ESTIMATED COSTS FOR PROPOSED CLOSURE
AND POST-CLOSURE ACTIVITIES**

Task Description	Cost
Task 100 - Groundwater Monitoring Network	
Task 101 - Expand Groundwater Monitoring Network	\$28,154
Task 102 - Groundwater Monitoring Well Abandonment (includes preparation of IEPA significant permit modification application)	\$14,700
Task 103 - Repairs to Existing Monitoring Wells	\$1,080
Task 104 - Establish Groundwater Management Zone	\$25,000
Task 105 - Conduct Groundwater Monitoring (cost included in Task 502)	--
Subtotal:	\$68,934
Task 200 - Leachate Management and Monitoring	
Task 201 - Complete Leachate Collection System	\$701,567
Task 202 - Complete Leachate Monitoring System (cost included in Task 201)	--
Task 203 - Prepare Construction Quality Assurance Report	\$45,000
Task 204 - Conduct Leachate Monitoring (cost included in Task 503)	--
Subtotal:	\$746,567
Task 300 - Final Cover System and Final Landform	
Task 301 - Verification of Existing Permitted Final Cover System	\$50,000
Task 302 - Design Alternate Final Cover System	\$7,500
Task 303 - Design Final Landform and Stormwater Management System	\$10,000
Task 304 - Install / Construct Final Cover and Stormwater Management Systems (includes CQA documentation and Final Cover Certification)	\$5,623,671
Subtotal:	\$5,691,171
Task 400 - Landfill Gas Management and Monitoring	
Task 401 - Parcel A Landfill Gas Evaluation	\$15,000
Task 402 - Design Parcel A Landfill Gas Management System	\$25,000
Task 403 - Complete Installation of Parcel B Landfill Gas Management System (includes CQA documentation)	\$372,900
Task 404 - Install / Construct Parcel A Landfill Gas Management System (includes CQA documentation)	\$425,000
Task 405 - Repairs to Existing Landfill Gas Probes	\$3,000
Task 406 - Conduct Landfill Gas Monitoring (costs included in Task 504)	--
Subtotal:	\$840,900
Task 500 - Post-Closure Care Activities (60 years)	
Task 501 - Conduct Routine Inspections and Maintenance	\$389,615
Task 502 - Conduct Routine Groundwater Monitoring	\$1,302,600
Task 503 - Conduct Routine Leachate Management and Monitoring Operations	\$785,792
Task 504 - Conduct Routine Landfill Gas Management and Monitoring Operations	\$106,800
Administration and Contingency Fees for 500 Tasks	\$129,240
Subtotal:	\$2,714,047
TOTAL:	\$10,061,619

MORRIS COMMUNITY LANDFILL FINAL COVER COSTS				
Item	Qty	Unit	Unit Cost	Amount
Parcel A				
Area requiring Final Cover	30	acres		
1-ft low perm. clay layer				
- Haul & Place	48,400	cy	\$3.03	\$146,652
- Fine Grading	48,400	cy	\$1.62	\$78,408
40-mil LLDPE	1,306,800	sf	\$0.30	\$392,040
Geocomposite	1,306,800	sf	\$0.40	\$522,720
Protective Soil Cover:				
- Haul & Place	145,200	cy	\$3.03	\$439,956
- Fine Grading	145,200	cy	\$1.62	\$235,224
Vegetation	30	acres	\$1,197.90	\$35,937
Subtotal:				\$1,850,937
Parcel B				
Area requiring Final Cover	65	acres		
1-ft low perm. clay layer				
- Haul & Place	104,867	cy	\$3.03	\$317,746
- Fine Grading	104,867	cy	\$1.62	\$169,884
40-mil LLDPE	2,831,400	sf	\$0.30	\$849,420
Geocomposite (50.32 ac.)	2,831,400	sf	\$0.40	\$1,132,560
Protective Soil Cover:				
- Haul & Place	314,600	cy	\$3.03	\$953,238
- Fine Grading	314,600	cy	\$1.62	\$509,652
Vegetation	65.00	acres	\$1,197.90	\$77,864
Subtotal:				\$3,522,734
Earthwork req'd for Stormwater Features	Lump Sum	-	\$250,000	\$250,000
Final Cover Certification	Lump Sum	-	\$250,000	\$250,000
TOTAL:				\$5,623,671
Source:				
Fox Moraine LF Project Closure Costs and GCL costs from CETCO				

Electronic Filing, Received, Clerk's Office, September 5, 2007

MORRIS COMMUNITY LANDFILL

Description	Assumptions	2005 Means Cost Code	Unit	Unit Cost	Means /City Adj.	Adj. Unit Cost	Qty.	Total Cost
Leachate Collection, Extraction, & Storage Systems - Parcel A								
Perimeter Leachate Collection System:								
gravel envelope (2' x 2' x 2,625')	stone 3/4" - spread w/ dozer, no compaction, 2 mile RT haul	02060-150-0320	c.y.	\$35.50	1.073	\$38.09	388.89	\$14,814
hauling gravel from source to site	20 c.y. dump trailer, 10-mile round trip	02315-490-1250	c.y.	\$7.20	1.073	\$7.73	388.89	\$3,005
geotextile fabric (2' W x 4 sides x 2,625' L)	geotextile fabric, laid in trench, polypropylene	02620-300-0100	s.y.	\$1.69	1.073	\$1.81	2,333.33	\$4,232
6" dia. HDPE perforated pipe (lateral piping)	Former (Wisconsin), SDR 17	02510-780-0200	l.f.	\$4.37	1.073	\$4.69	2,625.00	\$12,309
welding of 6" dia HDPE pipe (butt fusion joints)	Former (Wisconsin), \$175/day equip. + \$800 day technician	--	day	\$775.00	n/a	\$775.00	3	\$2,325
36" dia. manholes w/ 36" sumps	Former (Wisconsin)	--	each	\$5,800.00	n/a	\$5,800.00	3	\$17,400
Installation of manholes in 10' sections, and concrete base for ea. manhole	Shaw St. Charles, Illinois office costs	--	each	\$3,500.00	n/a	\$3,500.00	3	\$10,500
submersible pumps @ 10 gpm each (for 3 manhole)	Illinois Processing Equipment, Inc. (Schamburg), smallest size available is for 3" dia. pipe, vertical pump, model JS10-07, 10 gpm, 3 HP, 200' lift, incl. level actuator	--	each	\$1,240.00	n/a	\$1,240.00	3	\$3,720
backhoe excav / load trks. with earthen material (10' W x 2' D x 2,625' L) - 389	hydraulic backhoe, crawler mdl., 160 cy / hr.; borrow volume = volume of apron minus volume of gravel envelope (389 cy)	02315-424-0300	c.y.	\$2.34	1.073	\$2.51	1,555.44	\$3,906
haul borrow material w/dump trucks (earthen material)	60 cy rear / bottom dump, 1/2-mile RT, 3.4 loads / hr	02315-480-2140	c.y.	\$1.62	1.073	\$1.74	1,555.44	\$2,704
backfill w/dozer (earthen material)	fill, spread dumped material, no compaction	02315-520-0020	c.y.	\$1.59	1.073	\$1.71	1,555.44	\$2,654
line grading (earthen material)	grading of subgrade -- large area	02310-100-1020	s.y.	\$0.80	1.073	\$0.86	2,915.67	\$2,504
geotextile fabric (-2.83' W x 2,625' L) (earthen material)	geotextile fabric, laid in trench, polypropylene	02620-300-0100	s.y.	\$1.69	1.073	\$1.81	825.00	\$1,497
Subtotal:								\$81,570
Leachate Drainage Layer (1' x 50' x 2,625'):								
drainage layer / sand (12' D x 50' W x 2,625' L)	Fox Engineering price from Project 115593 (2005); quoted \$12/ton; assumed 120lb/cy for unit cost	--	c.y.	\$0.72	n/a	\$0.72	4,661.11	\$3,500
hauling sand from source to if site	20 c.y. dump trailer, 10-mile round trip	02315-490-1250	c.y.	\$7.20	1.073	\$7.73	4,661.11	\$37,555
backfill w/dozer leachate drainage layer	fill, spread dumped material, no compaction	02315-520-0020	c.y.	\$1.59	1.073	\$1.71	4,661.11	\$8,294
Subtotal:								\$49,349
Perimeter Berm:								
excavate w/backhoe, borrow material	hydraulic backhoe, crawler mdl., common earth, 160 cy / hr, add 15% to load dump trucks	02315-424-0300	c.y.	\$2.89	1.073	\$2.89	19,444.44	\$56,145
hauling, borrow material	60 cy rear / bottom dump, 1/2-mile RT, 3.4 loads / hr	02315-480-2140	c.y.	\$1.62	1.073	\$1.74	19,444.44	\$33,800
backfill w/dozer	fill, spread dumped material, no compaction	02315-520-0020	c.y.	\$1.59	1.073	\$1.71	19,444.44	\$33,174
compaction w/sheepsfoot perimeter berm	6" lift, 3 passes	02315-310-5620	c.y.	\$0.84	1.073	\$0.90	19,444.44	\$17,526
Subtotal:								\$140,645
Lateral Leachate Collection Trench:								
excavate trench (2' W x 20' D x 1,100' L)	common earth, 14' to 20' deep, 1 cy hydraulic backhoe	02315-610-1300	c.y.	\$4.31	1.073	\$4.62	1,629.63	\$7,537
granular layer - sand	Fox Engineering price from Project 115593 (2005); quoted \$12/ton; assumed 120lb/cy for unit cost	--	c.y.	\$0.72	n/a	\$0.72	1,467.00	\$1,057
hauling sand from source to if site	20 c.y. dump trailer, 10-mile round trip	02315-490-1120	c.y.	\$7.20	1.073	\$7.73	1,467.00	\$11,334
gravel envelope (2' W x 2' D x 1,100' L)	stone 3/4" - spread w/ dozer, no compaction, 2 mile RT haul	02060-150-0320	c.y.	\$35.50	1.073	\$38.09	162.96	\$6,208
backfill trench w/ dozer (sand)	fill, spread dumped material, no compaction	02315-520-0020	c.y.	\$1.59	1.073	\$1.71	1,467.00	\$2,503
6" dia. HDPE perforated pipe (1,000' lateral piping)	Former (Wisconsin), SDR 17	02510-780-0200	l.f.	\$4.37	1.073	\$4.69	1,100.00	\$5,158
geotextile fabric (2' W x 4 sides x 1,100' L)	geotextile fabric, laid in trench, polypropylene	02620-300-0100	s.y.	\$1.69	1.073	\$1.81	878.00	\$1,774
8" dia. HDPE vertical riser / cleanout pipes (one at each end of trench, 26' each)	Former (Wisconsin), SDR 17	--	l.f.	\$7.96	1.073	\$8.54	52.00	\$445
welding of 6" , 8" dia HDPE pipe (butt fusion joints)	Former (Wisconsin), \$175/day equip. + \$800 day technician	--	day	\$775.00	n/a	\$775.00	2	\$1,550
submersible pumps @ 10 gpm each	Illinois Processing Equipment, Inc. (Schamburg), smallest size available is for 3" dia. pipe, vertical pump, model JS10-07, 10 gpm, 3 HP, 200' lift, incl. level actuator	--	each	\$1,240.00	n/a	\$1,240.00	2	\$2,480
Subtotal:								\$40,046
Conveyance Piping Between L117 & L120:								
2" dia. solid HDPE conveyance pipe (1,310' L)	Former (Wisconsin), SDR 11	--	l.f.	\$2.52	n/a	\$2.52	1,310.00	\$3,302
welding of 2" dia HDPE pipe (butt fusion joints)	Former (Wisconsin), \$56/day equip. + \$600 day technician	--	day	\$650.00	n/a	\$650.00	1.5	\$975
trenching of conveyance line (1,310' L x 3' 2" D)	trenching 1'-4" deep with 3/8 c.y. tractor loaded backhoe	02315-610-0050	c.y.	\$6.90	1.073	\$7.08	153.64	\$1,089
backfill conveyance line trench (1,310' L x 3' 2" D)	fill, spread dumped material, no compaction	02315-520-0020	c.y.	\$1.59	1.073	\$1.71	153.64	\$263
Subtotal:								\$5,629

Description	Assumptions	2005 Means Cost Code	Unit	Unit Cost	Means /City Adj.	Adj. Unit Cost	Qty.	Total Cost
Leachate Collection, Extraction, & Storage Systems - Parcel A								
<u>Vertical Leachate Extraction Wells L117 & L118:</u>								
- 12" dia. solid HDPE pipe (2 extraction wells @ 66' + 78' deep, w/10' perforated)	Forrer (Wisconsin), SDR 17, assume 10' perforated screen on each, therefore total pipe length = 66' + 78' - 20' = 124'	--	L.F.	\$11.60	n/a	\$11.60	127	\$1,474
- 12" dia. perforated HDPE pipe (2 wells w/ 10' perforated sections each = 20')	Forrer (Wisconsin), SDR 17	--	L.F.	\$12.70	n/a	\$12.70	20	\$254
- welding of 12" dia HDPE pipe (butt fusion joints)	Forrer (Wisconsin), \$175/day equip. + \$600 day technician	--	day	\$775.00	n/a	\$775.00	0.5	\$388
- submersible pumps @ 10 gpm each	Winco Processing Equipment, Inc. (Schaumburg), smallest size available is for 3" dia. pipe, vertical pump, model J610-07, 10 gpm, 3 HP, 200' BT, incl. level actuator	--	each	\$1,240.00	n/a	\$1,240.00	2	\$2,480
- drilling / installation of extraction wells	drill rig and crew w/ truck mounted auger; added 25% to unit cost to account for the setup time, required health & safety (HSP), and additional time to drill through the waste fill; assumed 100 ft per day drilling time and remaining time to install well	022210-120-1400	day	\$2,312.50	n/a	\$2,312.50	2.5	\$5,782
- drilling / well installation materials (cement, gravel, bentonite, etc)	Shaw St. Charles, Illinois office costs	--	L.S.	\$350.00	n/a	\$550.00	1	\$550
- mobilization / demobilization of drilling equipment (extraction wells)	Shaw St. Charles, Illinois office costs	--	L.S.	\$600.00	n/a	\$600.00	1	\$600
Subtotal:								\$11,528
<u>Leachate Storage AST & Conveyance Line Under Ashley Road:</u>								
- engineering / design and CQA for leachate storage system (see items below)	cost estimate from Marcy Construction Co., Project - ECSWD, Mora (MN)	--	each	\$50,000.00	n/a	\$50,000.00	1	\$50,000
- equipment mobilization / demobilization for leachate storage system work	cost estimate from Marcy Construction Co., Project - ECSWD, Mora (MN)	--	each	\$12,000.00	n/a	\$12,000.00	1	\$12,000
- leachate storage tank	cost estimate from Marcy Construction Co., Project - ECSWD, Mora (MN); above ground tank, 28,000 gal cap.	--	each	\$65,000.00	n/a	\$65,000.00	1	\$65,000
- recirculating pump for leachate tank	cost estimate from Marcy Construction Co., Project - ECSWD, Mora (MN)	--	each	\$21,000.00	n/a	\$21,000.00	1	\$21,000
- installation of leachate storage tank and appurtenances	cost estimate from Marcy Construction Co., Project - ECSWD, Mora (MN)	--	each	\$20,000.00	n/a	\$20,000.00	1	\$20,000
- containment area / tank pad for leachate storage	cost estimate from Marcy Construction Co., Project - ECSWD, Mora (MN); includes footprint prep., concrete foundation, surface coating	--	each	\$124,300.00	n/a	\$124,300.00	1	\$124,300
- 6" I.D. HDPE dual containment pipe (3 lines x 175' L) fr. Parcel A to tie-in	Forrer (Wisconsin), SDR 17; 3 conveyance lines from MH-120, MH-112, and extraction trench sump - each line 175' L	--	L.F.	\$15.57	n/a	\$15.57	525.00	\$8,176
- 6" I.D. HDPE dual containment fitting to tie 3 conveyance lines into one line	Shaw St. Charles, Illinois office costs	--	each	\$300.00	n/a	\$300.00	1.00	\$300
- 6" I.D. HDPE dual containment pipe (188' L) fr. tie-in to lift station	Forrer (Wisconsin), SDR 17	--	L.F.	\$15.57	n/a	\$15.57	188.00	\$2,928
- 6" I.D. HDPE dual containment pipe (45' L) fr. lift station to tank	Forrer (Wisconsin), SDR 17	--	L.F.	\$15.57	n/a	\$15.57	45.00	\$701
- welding of 6" dia HDPE pipe (butt fusion joints)	Forrer (Wisconsin), \$175/day equip. + \$600 day technician	--	day	\$775.00	n/a	\$775.00	1.5	\$1,163
- excavate trenches (2' W x 3'10" D x 175' L x 3 lines) fr. Parcel A to triple tie-in	common earth, 1' to 4' deep, 3/8 cy hydraulic backhoe	02315-610-0050	c.y.	\$6.60	1.073	\$7.08	149.07	\$1,055
- excavate trench (2' W x 3'10" D x 153' L x 1 line) fr. tie-in to lift station, excl. road	common earth, 1' to 4' deep, 3/8 cy hydraulic backhoe; exclude section under Ashley Rd. (35') - total length fr. tie-in to lift station is 188', length of trench using backhoe is 188'-35' = 153'	02315-610-0050	c.y.	\$6.60	1.073	\$7.08	43.44	\$308
- backfill trenches for conveyance line ((2' x 3'10" x 175' x 3 lines)+(2' x 3'10" x 153'))	fill, spread dumped material, no compaction	02315-620-0020	c.y.	\$1.59	1.073	\$1.71	192.52	\$329
- horizontal drilling to install conveyance pipe under Ashley Road (35' L)	up to 24" casing, unit price reflects labor + equipment only (\$981.1. +\$53,504.1.)	02445-300-0100	L.F.	\$149.50	n/a	\$149.50	35.00	\$5,233
- mobilization / demobilization of drilling equipment	Shaw St. Charles, Illinois office costs	--	L.S.	\$600.00	n/a	\$600.00	1	\$600
- lift station	cost estimate from Marcy Construction Co., Project - ECSWD, Mora (MN); includes valve, aboveground pipe, electrical, and startup and testing	--	each	\$43,000.00	n/a	\$43,000.00	1	\$43,000
Subtotal:								\$356,093
Total:								\$684,860

Morris Community Landfill - Parcel A							
Revised Cost Estimates for Post-Closure Care							
Total Area (acres)		44.36					
Description	Quantity	Unit	Unit Price	Annual Cost	Years	Total Cost	
Inspection							
Year 1-5	4	inspection	\$240.00	\$960.00	5	\$4,800	
Year 6-30	1	inspection	\$240.00	\$240.00	25	\$6,000	
Cover Maintenance							
Year 1-5 (0.5 %)	2,147	cy	\$2.96	\$6,355.12	5	\$31,776	
Year 6-30 (0.2%)	859	cy	\$2.96	\$2,542.64	25	\$63,566	
Vegetation Maintenance							
Year 1-5 (1.0 %)	0.44	acres	\$1,176.12	\$517.49	5	\$2,587	
Year 6-30 (0.5%)	0.22	acres	\$1,176.12	\$258.75	25	\$6,469	
Mowing	44.36	acres	\$30.00	\$1,330.80	30	\$39,924	
Miscellaneous Maintenance	1	lump-sum	\$1,000.00	\$1,000.00	30	\$30,000	
Subtotal for Inspections and Maintenance						\$185,122	
Groundwater Monitoring	# of wells		price per well				
Year 1-30 Collection and Reporting	10	4	events	\$60	\$2,400.00	30	\$72,000
Year 1-30 Lab Testing (Quarterly Analytical)	10	3	events	\$180	\$5,400.00	30	\$162,000
Year 1-30 Lab Testing (Annual Analytical)	10	1	events	\$1,313	\$13,130.00	30	\$393,900
Groundwater Monitoring Wells Abandonment	1	lump-sum	\$15,000	--	--	\$15,000	
Piezometer Water Level Measurements (7 Piezometers / Quaterly)	4	events	\$100	\$400.00	30	\$12,000	
Piezometer Abandonment	1	lump-sum	\$1,200	--	--	\$1,200	
Subtotal for Groundwater Monitoring						\$656,100	
Leachate Testing							
Year 1-30 Collection & Reporting (1st Qtr.)	3	sampling locations	\$60	\$180.00	30	\$5,400	

Morris Community Landfill - Parcel A Revised Cost Estimates for Post-Closure Care						
Year 1-30 Collection & Reporting (2nd Qtr.)	2	sampling locations	\$60	\$120.00	30	\$3,600
Year 1-30 Collection & Reporting (3rd Qtr.)	4	sampling locations	\$60	\$240.00	30	\$7,200
Year 1-30 Collection & Reporting (4th Qtr.)	3	sampling locations	\$60	\$180.00	30	\$5,400
Year 1-30 Lab Testing (1st Qtr. Analytical)	1	event	\$3,289.60	\$3,289.60	30	\$98,688
Year 1-30 Lab Testing (2nd Qtr. Analytical)	1	event	\$1,781.60	\$1,781.60	30	\$53,448
Year 1-30 Lab Testing (3rd Qtr. Analytical)	1	event	\$2,055.20	\$2,055.20	30	\$61,656
Year 1-30 Lab Testing (4th Qtr. Analytical)	1	event	\$1,369.20	\$1,369.20	30	\$41,076
Leachate Treatment	727,648	gallons	\$0.00082	\$596.67	30	\$17,900
Leachate Operation & Maintenance	1	lump-sum	\$1,068.00	\$1,068.00	30	\$32,040
Leachate Management System Abandonment	1	lump-sum	\$5,000	--	--	\$5,000
Subtotal for Leachate Management and Monitoring Operations						\$331,408
Landfill Gas Monitoring (13 probes)						
Year 1-5 (Monthly)	12	events	\$240	\$2,880.00	5	\$14,400
Year 6-30 (Quarterly)	4	events	\$240	\$960.00	25	\$24,000
Landfill Gas Management System Abandonment	1	lump-sum	\$10,000	--	--	\$10,000
Landfill Gas Probes Abandonment	1	lump-sum	\$5,000	--	--	\$5,000
Subtotal for Landfill Gas Management and Monitoring Operations						\$53,400
Subtotal for Parcel A						\$1,226,030
Administration & Contingencies (5%)						\$61,301
Total for Parcel A						\$1,287,331



A World of Solutions™

July 12, 2007

Christine Roque
Permit Section, Bureau of Land #33
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: 0630600001 - Grundy County
Morris Community Landfill - Parcel B
Permit No. 2000-156-LFM (Mod. No. 9)

Dear Ms. Roque:

On behalf of the City of Morris, Shaw Environmental, Inc. (Shaw), is submitting updated closure and post-closure costs for the Morris Community Landfill - Parcel B for the IEPA renewal permit application Log No. 2005-156. Should you have any questions, please contact me at (630) 762-1400.

Very truly yours,

Shaw Environmental, Inc.

A handwritten signature in black ink, appearing to read "J. Varsho", is written over a horizontal line.

Jesse Varsho, P.E., P.G.
Project Manager

cc: Mayor Richard Kopczick – City of Morris
Chuck Helsten – Hinshaw & Culbertson
Community Landfill Company

T:\Projects\2004\112005 - Morris\Correspondence\IEPA 07.12.07 Parcel B.doc

**MORRIS COMMUNITY LANDFILL
ESTIMATED COSTS FOR PROPOSED CLOSURE
AND POST-CLOSURE ACTIVITIES**

Task Description	Cost
Tasks 100 - Groundwater Monitoring Network	
Task 101 - Expand Groundwater Monitoring Network	\$28,154
Task 102 - Groundwater Monitoring Well Abandonment (includes preparation of IEPA significant permit modification application)	\$14,700
Task 103 - Repairs to Existing Monitoring Wells	\$1,080
Task 104 - Establish Groundwater Management Zone	\$25,000
Task 105 - Conduct Groundwater Monitoring (cost included in Task 502)	--
Subtotal:	\$68,934
Tasks 200 - Leachate Management and Monitoring	
Task 201 - Complete Leachate Collection System	\$701,567
Task 202 - Complete Leachate Monitoring System (cost included in Task 201)	--
Task 203 - Prepare Construction Quality Assurance Report	\$45,000
Task 204 - Conduct Leachate Monitoring (cost included in Task 503)	--
Subtotal:	\$746,567
Tasks 300 - Final Cover System and Final Landform	
Task 301 - Verification of Existing Permitted Final Cover System	\$50,000
Task 302 - Design Alternate Final Cover System	\$7,500
Task 303 - Design Final Landform and Stormwater Management System	\$10,000
Task 304 - Install / Construct Final Cover and Stormwater Management Systems (includes CQA documentation and Final Cover Certification)	\$5,623,671
Subtotal:	\$5,691,171
Tasks 400 - Landfill Gas Management and Monitoring	
Task 401 - Parcel A Landfill Gas Evaluation	\$15,000
Task 402 - Design Parcel A Landfill Gas Management System	\$25,000
Task 403 - Complete Installation of Parcel B Landfill Gas Management System (includes CQA documentation)	\$372,900
Task 404 - Install / Construct Parcel A Landfill Gas Management System (includes CQA documentation)	\$425,000
Task 405 - Repairs to Existing Landfill Gas Probes	\$3,000
Task 406 - Conduct Landfill Gas Monitoring (costs included in Task 504)	--
Subtotal:	\$840,900
Tasks 500 - Post Closure Care Activities (50 years)	
Task 501 - Conduct Routine Inspections and Maintenance	\$389,615
Task 502 - Conduct Routine Groundwater Monitoring	\$1,302,600
Task 503 - Conduct Routine Leachate Management and Monitoring Operations	\$785,792
Task 504 - Conduct Routine Landfill Gas Management and Monitoring Operations	\$106,800
Administration and Contingency Fees for 500 Tasks	\$129,240
Subtotal:	\$2,714,047
TOTAL:	\$10,061,619

MORRIS COMMUNITY LANDFILL FINAL COVER COSTS				
Item	Qty	Unit	Unit Cost	Amount
Parcel A				
Area requiring Final Cover	30	acres		
1-ft low perm. clay layer				
- Haul & Place	48,400	cy	\$3.03	\$146,652
- Fine Grading	48,400	cy	\$1.62	\$78,408
40-mil LLDPE	1,306,800	sf	\$0.30	\$392,040
Geocomposite	1,306,800	sf	\$0.40	\$522,720
Protective Soil Cover:				
- Haul & Place	145,200	cy	\$3.03	\$439,956
- Fine Grading	145,200	cy	\$1.62	\$235,224
Vegetation	30	acres	\$1,197.90	\$35,937
Subtotal:				\$1,850,937
Parcel B				
Area requiring Final Cover	65	acres		
1-ft low perm. clay layer				
- Haul & Place	104,867	cy	\$3.03	\$317,746
- Fine Grading	104,867	cy	\$1.62	\$169,884
40-mil LLDPE	2,831,400	sf	\$0.30	\$849,420
Geocomposite (50.32 ac.)	2,831,400	sf	\$0.40	\$1,132,560
Protective Soil Cover:				
- Haul & Place	314,600	cy	\$3.03	\$953,238
- Fine Grading	314,600	cy	\$1.62	\$509,652
Vegetation	65.00	acres	\$1,197.90	\$77,864
Subtotal:				\$3,522,734
Earthwork req'd for Stormwater Features	Lump Sum	-	\$250,000	\$250,000
Final Cover Certification	Lump Sum	-	\$250,000	\$250,000
TOTAL:				\$5,623,671
Source:				
Fox Moraine LF Project Closure Costs and GCL costs from CETCO				

Description	Assumptions	2005 Means Cost Code	Unit	Unit Cost	Means /City Adj.	Adj. Unit Cost	Qty.	Total Cost
Leachate Collection System - Parcel B								
Leachate Conveyance Pipeline/Trenching								
- 2" HDPE solid pipe conveyance line (2,150' - 150' = 2000')	SDR 11, 40' lengths, butt fusion joints; new pipe installed from L102 to L105, and from L103 through L104 to lift station	cost provided by Forrer Pipe Supply	I.L.	\$0.65	n/a	\$0.65	2,000.00	\$1,300
- 6" I.D. HDPE dual containment pipe (150' L) fr. 2" conveyance line to lift station	Forrer (Wisconsin), SDR 17, I.D. = 6", O.D. = 10'	--	I.L.	\$15.57	n/a	\$15.57	150.00	\$2,336
- trenching to bury 2" dia. pipe (1' W x 3' 2" D x (2,000' +3,300') L)	trenching 1'-4" deep with 3/8 c.y. tractor loader/backhoe	02315-610-0050	c.y.	\$6.80	1.073	\$7.08	621.60	\$4,403
- backfill trench for 2" dia. pipe	fill, spread dumped material, no compaction	02315-520-0020	c.y.	\$1.59	1.073	\$1.71	621.60	\$1,061
- trenching to bury dual containment pipe (2' x 3' 10" x 150')	trenching 1'-4" deep with 3/8 c.y. tractor loader/backhoe	02315-610-0050	c.y.	\$6.60	1.073	\$7.08	42.59	\$302
- backfill trench for dual containment pipe	fill, spread dumped material, no compaction	02315-520-0020	c.y.	\$1.59	1.073	\$1.71	42.59	\$73
- welding of 2" HDPE pipe (technician and equipment)	Forrer (Wisconsin), \$55/day equip. + \$800 day technician	--	day	\$655.00	n/a	\$655.00	2	\$1,310
- welding of 6" HDPE pipe (technician and equipment)	Forrer (Wisconsin), \$175/day equip. + \$500 day technician	--	day	\$775.00	n/a	\$775.00	0.5	\$388
							subtotal:	\$11,173
Replacement/Install of Damaged Manhole/Submersible leachate pumps								
- replace collar of damaged 36" HDPE manhole	Advanced Drainage Systems, Inc. (ADS) pipe (Randy Harker)	--	each	\$400.00	n/a	\$400.00	1	\$400
- submersible pumps @ 10 gpm each (4 manholes)	Micros Processing Equipment, Inc. (Schamburg), smallest size for 3" dia. pipe, vertical pump, model JS10-07, 10 gpm, 3 HP, 200' lift, incl. level actuator	--	each	\$1,240.00	n/a	\$1,240.00	4	\$4,960
							subtotal:	\$5,360
Abandoning Temporary Leachate Extraction Wells								
- abandonment of 3 temporary leachate wells, excavation	Common earth, hydraulic backhoe, 1 c.y. bucket	02315-462-6040	c.y.	\$12.60	1.073	\$13.73	10.00	\$138
- abandonment of 3 temporary leachate wells, backfill clean material	60 cy rear / bottom dump, 1/2-mile RT, 3.4 loads / hr	02315-490-2140	c.y.	\$1.62	1.073	\$1.74	10.00	\$18
- abandonment of 3 temporary leachate wells, fill clean material	fill, spread dumped material, no compaction	02315-520-0020	c.y.	\$1.59	1.073	\$1.71	10.00	\$18
							subtotal:	\$174
							Total:	\$16,707

Morris Community Landfill - Parcel B							
Revised Cost Estimates for Post-Closure Care							
Total Area (acres)		50.32					
Description	Quantity	Unit	Unit Price	Annual Cost	Years	Total Cost	
Inspection							
Year 1-5	4	inspection	\$240.00	\$960.00	5	\$4,800	
Year 6-30	1	inspection	\$240.00	\$240.00	25	\$6,000	
Cover Maintenance							
Year 1-5 (0.5 %)	2,435	cy	\$2.96	\$7,207.60	5	\$36,038	
Year 6-30 (0.2%)	974	cy	\$2.96	\$2,883.04	25	\$72,076	
Vegetation Maintenance							
Year 1-5 (1.0 %)	0.5	acres	\$1,176.12	\$588.06	5	\$2,940	
Year 6-30 (0.5%)	0.25	acres	\$1,176.12	\$294.03	25	\$7,351	
Mowing	50.32	acres	\$30.00	\$1,509.60	30	\$45,288	
Miscellaneous Maintenance	1	lump-sum	\$1,000.00	\$1,000.00	30	\$30,000	
Subtotal for Inspections and Maintenance						\$204,493	
Groundwater Monitoring	# of wells		price per well				
Year 1-30 Collection and Reporting	10	4	events	\$60	\$2,400.00	30	\$72,000
Year 1-30 Lab Testing (Quarterly Analytical)	10	3	events	\$180	\$5,400.00	30	\$162,000
Year 1-30 Lab Testing (Annual Analytical)	10	1	events	\$1,313	\$13,130.00	30	\$393,900
Groundwater Monitoring Wells Abandonment	1	lump-sum	\$15,000	--	--	\$15,000	
Piezometer Water Level Measurements (2 Piezometers / Quaterly)	4	events	\$30	\$120.00	30	\$3,600	
Subtotal for Groundwater Monitoring						\$646,500	
Leachate Testing							
Year 1-30 Collection & Reporting (1st Qtr.)	4	sampling locations	\$60	\$240.00	30	\$7,200	
Year 1-30 Collection & Reporting (2nd Qtr.)	5	sampling locations	\$60	\$300.00	30	\$9,000	

Morris Community Landfill - Parcel B Revised Cost Estimates for Post-Closure Care						
Year 1-30 Collection & Reporting (3rd Qtr.)	4	sampling locations	\$60	\$240.00	30	\$7,200
Year 1-30 Collection & Reporting (4th Qtr.)	5	sampling locations	\$60	\$300.00	30	\$9,000
Year 1-30 Lab Testing (1st Qtr. Analytical)	1	event	\$3,016.00	\$3,016.00	30	\$90,480
Year 1-30 Lab Testing (2nd Qtr. Analytical)	1	event	\$3,289.60	\$3,289.60	30	\$98,688
Year 1-30 Lab Testing (3rd Qtr. Analytical)	1	event	\$3,016.00	\$3,016.00	30	\$90,480
Year 1-30 Lab Testing (4th Qtr. Analytical)	1	event	\$3,013.20	\$3,013.20	30	\$90,396
Leachate Treatment	727,648	gallons	\$0.00082	\$596.67	30	\$17,900
Leachate Operation & Maintenance	1	lump-sum	\$1,068.00	\$1,068.00	30	\$32,040
Leachate Management System Abandonment	1	lump-sum	\$2,000	--	--	\$2,000
Subtotal for Leachate Management and Monitoring Operations						\$454,384
Landfill Gas Monitoring (15 probes)						
Year 1-5 (Monthly)	12	events	\$240	\$2,880.00	5	\$14,400
Year 6-30 (Quarterly)	4	events	\$240	\$960.00	25	\$24,000
Landfill Gas Management System Abandonment	1	lump-sum	\$10,000	--	--	\$10,000
Landfill Gas Probes Abandonment	1	lump-sum	\$5,000	--	--	\$5,000
Subtotal for Landfill Gas Management and Monitoring Operations						\$53,400
Subtotal for Parcel B						\$1,358,777
Administration & Contingencies (5%)						\$67,939
Total for Parcel B						\$1,426,716

APPLICATION FOR PERMIT TRANSFER

All information submitted as part of the Application is available to the public except when specifically designated by the Applicant to be treated confidentially as regarding a trade secret or secret process in accordance with Section 7(a) of the Environmental Protection Act.

APPLICATION MUST BE SUBMITTED IN DUPLICATE

DO NOT WRITE IN THIS SPACE - FOR E.P.A. USE ONLY

Grundy COUNTY - LAND POLLUTION CONTROL

Morris Municipal/Municipal Region Northern

Application Received: 29 June 1982

Reviewed by: L J Withers Permit No. 1974-22

Operating Permit Transfer

Date 7/30/82 Date _____

Granted YES Denied _____

Thomas E. Caronaphy
Manager, Land Permit Section

PART I - APPLICANT INFORMATION

A. SITE IDENTIFICATION

1. Name of Applicant COMMUNITY LANDFILL CO.
(Person responsible for operation)

2. Address of Applicant 25 N. Ottawa St.
(Street, P.O. Box, or R.R. #)

Joliet Illinois 60431
City State Zip Code

Telephone: 815/726-2767 or 815/726-7407
(Area Code) (Number)

3. Name of Land Owner CITY OF MORRIS
(If same as above, so indicate)

4. Address of Land Owner 320 Wauponsee St.
(Street, P.O. Box, or R.R. #)

Morris Illinois 60450
City State Zip Code

RECEIVED

JUN 29 1982

E.P.A. - D.L.P.C.
STATE OF ILLINOIS

5. Name of Site COMMUNITY LANDFILL CO.
CITY OF MORRIS LANDFILL

6. Address of Site Ashley Road
(Street, P.O. Box, or R.R. #)

Morris Illinois 60450
City State Zip Code

7. Land Ownership (Check Applicable Boxes)

- () Presently Owned by Applicant
() To Be Purchased by Applicant
(x) To Be Leased by Applicant For 17 Years
() Years of Lease Remaining: termination date of lease

Operated by: Ill. Corporation (x) Partnership () Government ()
Individual () Other ()

B. SITE BACKGROUND

8. This is an existing operation begun July 30 (mo.) 1976 (yr.)

9. This is a proposed transfer of an existing permit:

Illinois-E.P.A. Permit No. 1974-22-0P

Supplemental Permit No. (List all) 78 - 1148

1980 - 160

PART II

The applicant reaffirms and adopts the information provided by the transferor in the original application for Permit (Parts II-VI) and all supplemental permits. (No change is permitted. Any such change must be the subject of a supplemental Permit Application).

RECEIVED

JUN 29 1982

E.P.A. — D.L.P.C.
STATE OF ILLINOIS

I hereby affirm that all information contained in this Application is true and accurate to the best of my knowledge and belief.

Signature of Applicant: [Signature] 6/28/82
Date

Attest: [Signature] 6/28/82
Date

Signature of Landowner(s): ^{MAYOR} James R. Washburn 6/28/82
Date

Attest: Kenneth E. Severo 6/28/82
Date

I hereby request that Permit No. 1974-22-OP and all supplemental permits listed in Part I, Section B-9 issued by the Illinois Environmental Protection Agency be transferred to the above named applicant.

Signature of Transferor: ^{MAYOR} James R. Washburn 6/28/82
Date

Attest: Kenneth E. Severo 6/28/82
Date

TT:jb/5999A/1-4sp

RECEIVED

JUN 29 1982

E.P.A. — D.L.P.C.
STATE OF ILLINOIS



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

217/732-6750

Refer to: 05306001 Grundy County - Morris/Municipal
Permit No. 1974-22-0P

July 30, 1976

July 20, 1982 (Revised to Reflect Permit Transfer)

City of Morris
222 Wauponsee Street
Morris, Illinois 60450

Gentlemen:

Permit is hereby granted to Community Landfill Company to operate a solid waste disposal site consisting of 119.2 acres in parts of Section 2 and 3, T.33N, R.7E, all of the 3rd Principal Meridian to handle general solid waste, excluding all liquid and hazardous wastes unless a supplemental permit is obtained to handle these materials all in accordance with the application and plans prepared by Chamlin & Associates, Inc. Said application consisting of 10 pages, dated December 31, 1973, and received by the Environmental Protection Agency on January 14, 1974, said plans consisting of 7 pages and 4 addenda dated December 27, 1973 and March 1, 1974 and received January 14, 1974 and March 8, 1974 respectively. The permit is issued subject to the standard conditions set forth on page 3, attached hereto and incorporated herein by reference, and further subject to the following special conditions:

1. Site surface drainage, during operation, and after the site is closed, shall be such that no adverse effects are encountered by adjacent property owners relative to their existing drainageways.
2. The best available technology (mufflers, berms, and other sound shielding devices) shall be employed to minimize equipment noise impacts on property adjacent to the site during both development and operation. (See standard condition number 4, attached.)
3. The monitor well shall be sampled and analyzed quarterly (January, April, July, October) for the following parameters: Residue on Evaporation (ROE), and Iron (Fe), Boron (B), and Ammonia (NH₃). Results shall be forwarded to the Illinois Environmental Protection Agency, Division of Land Pollution Control, Compliance Assurance Section.

SCREENED RC



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

Page 2

4. Daily operations must be in general compliance with the Solid Waste Rules and Regulations.

Very truly yours,

Thomas E. Cavanagh, Jr.

Thomas E. Cavanagh, Jr., Manager
Permit Section
Division of Land Pollution Control

TEC:JM:sc/4702c/15

cc: Northern Region
Grundy County Health Department
Chanlin & Associates

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

2200 Churchill Road
62706



Springfield, Illinois
Phone: 217-525-3334

Dr. Richard H. Bruceland, Director

April 5, 1974

GRUNDY COUNTY - Land Pollution Control
Morris/Municipal
Permit No. 1974-22-DE

City of Morris
222 Wauponsee Street
Morris, Illinois 60450

Gentlemen:

Permit is hereby granted to the City of Morris to develop a solid waste disposal site consisting of 119.2 acres in parts of Section 2 and 3, T. 33 N, R. 7 E, all of the 3rd Principal Meridian to handle general solid waste all in accordance with the application and plans prepared by Chamlin & Associates, Inc. Said application consisting of 10 pages dated December 31, 1973 and received by the Environmental Protection Agency on January 14, 1974; said plans consisting of 7 pages and 4 addenda dated December 27, 1973 and March 1, 1974 and received January 14, 1974 and March 8, 1974 respectively.

The permit is issued subject to the standard conditions set forth on Page 3, attached hereto and incorporated herein by reference, and further subject to the following special conditions:

1. An observation well, as designated in the plans, is to be installed in the Southwest portion of the site prior to issuance of an operating permit. The well, to be a minimum of 2.0" I.D., should be sampled and analyzed for the parameters listed below. Results of the analyses should be forwarded to this office when they become available. A monitoring program will be established should an operational permit be issued.

Ca, Mg, Na, K, NH₃, B, Fe, Mn, Pb, Hg, SO₄, hardness, Cl, COD, and TDS (or specific conductance)

2. Construction of all devices and facilities pertaining to the East portion of the site and listed on Pages 1 and 2 of the Engineering report prepared by Chamlin & Associates is to be complete prior to issuance of an operating permit.

City of Morris
Page 2
April 8, 1974

3. The operation may not proceed to the western portion of the site until the developments of Pages 8 and 9 of the Chamlin & Associates report have been completed.

Very truly yours,

ENVIRONMENTAL PROTECTION AGENCY

Thomas P. Clark

Thomas P. Clark, Acting Manager
Permit Section
Division of Land Pollution Control

MWR:TPC:ds
enc.

cc's/-Region II

- Grundy County Health Dept.
- ISGS
- Chamlin & Associates, Inc.
3017 5th Street
Peru, Illinois 61354
- Robert K. Morse
U.S. 51 South
El Paso, Illinois 61738