

NSM

North Country Environmental Services, Inc.



June 15, 2000

Mr. Michael J. Hanscom
City of Concord WWTF
General Service Department
125 Hall Street
Concord, New Hampshire 03301-3228



3 Pitkin Court
Montpelier, Vermont 05602

(802) 223-7221
(802) 223-7128 Fax

**RE: Leachate Consolidation Project
North Country Environmental Services, Inc. Landfill
May 2000 - VOC and SVOC Analytical Reports**

Dear Mr. Hanscom:

Enclosed please find the May 2000 analytical report for the consolidated leachate samples collected at North Country Environmental Services, Inc. landfill on May 11, 2000.

The VOC (EPA Method 8260B) and SVOC (EPA Method 8270) analytical results indicate that the consolidated leachate delivered to your facility is non-hazardous. We will continue to collect monthly samples of the consolidated leachate and forward the analytical results to your office per your request.

Please call if you have any questions.

Sincerely,

NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.

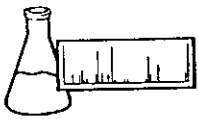
David E. Adams, P.E., Sr. Project Manager
Permits, Compliance & Engineering

TOWN: BETHLEHEM
PROJECT: NCES Sma 11
LETTER/DATA/PERMIT/FA/OTHER: _____

Enclosure

- cc: Jon A. Bushhold, City of Concord
- Larry Lackey, North Country Environmental Services, Inc. (w/o enc.)
- Lenny Wing, North Country Environmental Services, Inc. (w/o enc.)
- Al Sabino, North Country Environmental Services, Inc. (w/o enc.)
- Robert Banfield, North Country Environmental Services, Inc. (w/o enc.)
- Michael McCluskey, P.E., NHDES

[C:\Casella\Leachate\Concord WWTP Reports\2000\Letter-M.Hanscom, NCES Consolidated Leachate Report (May 2000).doc]



ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Casella Waste Systems
3 Pitkin Court
Montpelier, VT 05602
Attn: Dave Adams

PROJECT: NCES Landfill
ORDER ID: 7318
RECEIVE DATE: May 12, 2000
REPORT DATE: May 23, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

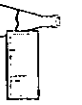


LABORATORY REPORT
SW 8260B

CLIENT: Casella Waste Systems
PROJECT: NCES Landfill
SITE: Consolidation Tank
DATE RECEIVED: May 12, 2000
REPORT DATE: May 23, 2000
ANALYSIS DATE: May 20, 2000

ORDER ID: 7318
REFERENCE NUMBER: 154835
DATE SAMPLED: May 11, 2000
TIME SAMPLED: 12:15 PM
SAMPLER: JC
ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	5,820.	1,1-Dichloropropene	< 10.0
Benzene	< 10.0	cis-1,3-Dichloropropene	< 10.0
Bromobenzene	< 10.0	trans-1,3-Dichloropropene	< 10.0
Bromochloromethane	< 20.0	Diethyl Ether	189.
Bromodichloromethane	< 10.0	Ethylbenzene	28.2
Bromoform	< 10.0	Hexachlorobutadiene	< 50.0
Bromomethane	< 50.0	2-Hexanone	596.
2-Butanone	10,000.	Isopropylbenzene	< 10.0
n-Butylbenzene	< 10.0	p-Isopropyltoluene	< 10.0
sec-Butylbenzene	< 10.0	Methylene Chloride	< 50.0
tert-Butylbenzene	< 10.0	4-Methyl-2-Pentanone	315.
Carbon Disulfide	< 100.	MTBE	107.
Carbon Tetrachloride	< 10.0	Naphthalene	< 50.0
Chlorobenzene	< 10.0	n-Propylbenzene	< 10.0
Chloroethane	< 50.0	Styrene	< 10.0
2-Chloroethyl Vinyl Ether	< 200.	1,1,1,2-Tetrachloroethane	< 20.0
Chloroform	< 10.0	i,1,2,2-Tetrachloroethane	< 20.0
Chloromethane	< 100.	Tetrachloroethene	< 10.0
2-Chlorotoluene	< 10.0	Tetrahydrofuran	1,280.
4-Chlorotoluene	< 10.0	Toluene	98.9
Dibromochloromethane	< 10.0	1,2,3-Trichlorobenzene	< 20.0
1,2-Dibromo-3-Chloropropane	< 20.0	1,2,4-Trichlorobenzene	< 20.0
1,2-Dibromoethane	< 20.0	1,1,1-Trichloroethane	< 10.0
Dibromomethane	< 20.0	1,1,2-Trichloroethane	< 10.0
1,2-Dichlorobenzene	< 10.0	Trichloroethene	< 10.0
1,3-Dichlorobenzene	< 10.0	Trichlorofluoromethane	< 20.0
1,4-Dichlorobenzene	< 10.0	1,2,3-Trichloropropane	< 20.0
Dichlorodifluoromethane	< 100.	1,2,4-Trimethylbenzene	< 10.0
1,1-Dichloroethane	11.5	1,3,5-Trimethylbenzene	< 10.0
1,2-Dichloroethane	< 10.0	Vinyl Chloride	< 20.0
1,1-Dichloroethene	< 10.0	Xylenes, Total	66.4
cis-1,2-Dichloroethene	< 10.0	Surrogate 1	103.0%
trans-1,2-Dichloroethene	< 10.0	Surrogate 2	97.0%
1,2-Dichloropropane	< 10.0	Surrogate 3	100.0%
1,3-Dichloropropane	< 10.0	UIP's	> 10.
2,2-Dichloropropane	< 10.0		



ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

35701
10/1

Project Name: NCES Landfill Bethlem, NH

Reporting Address: 3 P.T.V. Court, Montpelier, VT.

Billing Address: Sand

Endyne Order ID: 7317

Company: Casella Waste

Sampler Name: Jason Collins

(Lab Use Only) 2-0

Contact Name/Phone #: Dave Adams

Phone #: 802-728-2000

Matrix: -1

Date/Time: 5-11-00

Sample Containers: 1

Analysis Required: 24

Sample Preservation: HCL

Rush: None

Ref # (Lab Use Only)	Sample Identification	Matrix	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
				No.	Type/Size				
154835	Consolidation Tank	Leachate	5-11-00 12:15	2	6.00L		24	HCL	None

Relinquished by: John Date/Time: 5-11-00 / 1315

Received by: John Sullivan Date/Time: 5/13/00 / 1:30

New York State Project: Yes No

Requested Analyses

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
pH						TKN	Total P	Total Diss. P	BOD	Alkalinity	Total Solids	TSS	TDS	Turbidity	Conductivity	Sulfate	Coliform (Specify)	COD	802LB	8010/8020	1664 TPH/FOG	8015 GRO	8015 DKO	8260/8260B	8270 B/N or Acid	8270 FAH	PP13 Metals	RCKA8 Metals						
Metals (As, S, Total Diss.)	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn																																	
TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)																																		
Other																																		



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160 James Brown Drive
Williston, Vermont 05495
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FAX 879-7103

LABORATORY REPORT

Casella Waste Systems
3 Pitkin Court
Montpelier, VT 05602
Attn: Dave Adams

PROJECT: NCES Landfill
ORDER ID: 7318
RECEIVE DATE: May 12, 2000
REPORT DATE: May 30, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

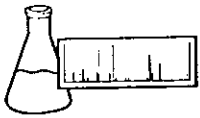
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Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures



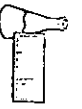
LABORATORY REPORT

SW 8270C

CLIENT: Casella Waste Systems
PROJECT: NCES Landfill
SITE: Consolidation Tank
DATE RECEIVED: May 12, 2000
REPORT DATE: May 30, 2000
ANALYSIS DATE: May 26, 2000

ORDER ID: 7318
REFERENCE NUMBER: 154835
DATE SAMPLED: May 11, 2000
TIME SAMPLED: 12:15 PM
SAMPLER: JC
ANALYST: 917

Parameter	Result ug/L	Parameter	Result ug/L
Acenaphthen:	< 50.0	1-Methylnaphthalene	< 50.0
Acenaphthylene	< 50.0	2-Methylnaphthalene	< 50.0
Aniline	< 250.	Naphthalene	< 50.0
Anthracene	< 50.0	1-Naphthylamine	< 250.
Azobenzene	< 125	2-Naphthylamine	< 250.
Benzidine	< 250.	2-Nitroaniline	< 500.
Benzo(a)anthracene	< 50.0	3-Nitroaniline	< 500.
Benzo(b&k)fluoranthene	< 50.0	4-Nitroaniline	< 500.
Benzo(a)pyrene	< 50.0	Nitrobenzene	< 125.
Benzo(g,h,i)perylene	< 50.0	N-Nitroso-di-n-butylamine	< 125.
Bis(2-chloroethyl)ether	< 125.	N-Nitrosodiphenylamine	< 125.
Bis(2-chloroethoxy)methane	< 125.	N-Nitrosodimethylamine	< 250.
Bis(2-ethylhexyl)phthalate	< 250.	N-Nitrosodi-n-propylamine	< 250.
Bis(2-chloroisopropyl)ether	< 250.	N-Nitrosopiperidine	< 250.
4-Bromophenyl phenyl ether	< 50.0	Phenanthrene	< 50.0
Butyl benzyl phthalate	< 250.	Pyrene	< 50.0
Carbazole	< 250	Pyridine	< 250.
4-Chloroaniline	< 125.	1,2,4-Trichlorobenzene	< 50.0
1-Chloronaphthalene	< 50.0	Benzyl alcohol	< 250.
2-Chloronaphthalene	< 50.0	4-Chloro-3-methylphenol	< 250.
4-Chlorophenyl phenyl ether	< 50.0	2-Chlorophenol	< 125.
Chrysene	< 50.0	2,4-Dichlorophenol	< 125.
Dibenzofuran	< 50.0	2,6-Dichlorophenol	< 125.
Dibenzo(a,h)anthracene	< 50.0	2,4-Dimethylphenol	< 125.
Di-n-butylphthalate	< 250.	4,6-Dinitro-2-methylphenol	< 1,250.
1,2-Dichlorobenzene	< 50.0	2,4-Dinitrophenol	< 250.
1,3-Dichlorobenzene	< 50.0	2-Methylphenol (o-cresol)	< 125.
1,4-Dichlorobenzene	< 50.0	3&4-Methylphenol (m&p-cresol)	4,130.
3,3'-Dichlorobenzidine	< 125.	2-Nitrophenol	< 250.
Diethyl phthalate	< 250.	4-Nitrophenol	< 250.
Dimethyl phthalate	< 250.	Pentachlorophenol	< 375.
2,4-Dinitrotoluene	< 125.	Phenol	591.
2,6-Dinitrotoluene	< 125.	2,4,5-Trichlorophenol	< 250.
Di-n-octylphthalate	< 250.	2,4,6-Trichlorophenol	< 250.
Fluoranthene	< 50.0	Acid Surrogate 1	60.%
Fluorene	< 50.0	Acid Surrogate 2	61.%
Hexachlorobenzene	< 125.	Acid Surrogate 3	104.%
Hexachlorobutadiene	< 125.	Base/Neutral Surrogate 1	33.%
Hexachlorocyclopentadiene	< 500.	Base/Neutral Surrogate 2	91.%
Hexachloroethane	< 125.	Base/Neutral Surrogate 3	102.%
Indeno(1,2,3-cd)pyrene	< 50.0	UIP's	> 10.
Isophorone	< 50.0		



ENDYNE, INC.
 160 James Brown Drive
 Williston, Vermont 05495
 (802) 879-4333

CHAIN-OF-CUSTODY-RECORD

35701
 1 of 1

Project Name: NCE5 Landfill Belknap, NH	Reporting Address: 3 Pkwa Court, Montpelier, VT.	Billing Address: Same
Endyne Order ID: (Lab Use Only) 7318	Company: Contact Name/Phone #: Cassia Chase David Adams	Sampler Name: Jason 6-255 Phone #: 802-726-2000
Matrix: -0 -1 -5	Date/Time: 5-11-00 12:15	Sample Preservation: HCL NONE

Ref # (Lab Use Only)	Sample Identification	Matrix	K A B	C M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
154835	Consolidation Tank	Leachate			5-11-00 12:15	2	G V56 VOL		24	HCL	
						1	G 1L		25	NONE	

Relinquished by: <i>[Signature]</i>	Date/Time 5-11-00 / 1315	Received by: <i>[Signature]</i>	Date/Time 5/12/00 1:30
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Requested Analyses

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1	pH	TKN	Total Solids	Sulfate	1664 TPH/FOG	26	8270 PAH																								
2	Chloride	Total P	TSS	Caliform (Specific)	8015 GRO	27	PP13 Metals																								
3	Ammonia N	Total Diss. P	TDS	COD	8015 DRO	28	RCRA8 Metals																								
4	Nitrite N	BOD	Turbidity	8021B	8260B	29																									
5	Nitrate N	Alkalinity	Conductivity	8010/8020	8270B/N or Acid	30																									
31	Metals (As, Is, Total, Diss) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn																														
32	TCAP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)																														
33																															
34	Other																														