

**CORTLAND COUNTY LANDFILL
REMEDIAL ACTION LANDFILL CLOSURE**

**TOWNLINE ROAD
CORTLAND COUNTY, NEW YORK**

**APPENDIX B
GEOSYNTHETIC TEST RESULTS**

VOLUME II OF III
[PART 1]

JUNE, 2002

Barton
& Loguidice, P.C.
Consulting Engineers

**290 Elwood Davis Road
Box 3107
Syracuse, New York 13220**

Appendix B

Geosynthetic Test Results

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Appendix B
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Geotextile Test Results

Appendix B

Section: 1.A

Manufacture's QA/QC Data



9855 Greenville Highway
 Building F
 Spartanburg, SC 29301
 800-867-5181
 fax: 864-949-6222

June 4, 2001
 REF: TNS R160
 Quantity Shipped: 4 rolls
 BOL#: 000506100

Marcy Excavation Co.
 131 E. Broad Street
 Frankfort NY 133405

Dear Sir/Madam:

This is to certify that TNS R160 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS R160 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS R160 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Grab Tensile	ASTM D 4632	lbs	380 (1.69 kN)
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	145 (.64 kN)
Puncture	ASTM D 4833	lbs	240 (1.07 kN)
Mullen Burst	ASTM D 3786	psi	800 (5512 kPa)
A.O.S.	ASTM D 4751	U.S. Sieve	100
Permittivity	ASTM D 4491	1/sec	0.7
U.V. Resistance @ 500 hrs	ASTM D 4355	%	70

Marshall O. Gaddy
 Marshall O. Gaddy
 Quality Control Manager



9856 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 854-842-6222

June 4, 2001
REF: TNS R080
Quantity Shipped: 2 rolls
BOL#: 000506100

Marcy Excavation Co.
131 E. Broad Street
Frankfort NY 133405

Dear Sir/Madam:

This is to certify that TNS R080 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS R080 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS R080 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Grab Tensile	ASTM D 4632	lbs	205 (.911 kN)
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	85 (.378 kN)
Puncture	ASTM D 751	lbs	130 (.578 kN)
Mullen Burst	ASTM D 3786	psi	400 (2756kPa)
A.O.S.	ASTM D 4751	U.S. Sieve	80 (.180 mm)
Permittivity	ASTM D 4491	1/sec	1.4
Water Flow	ASTM D 4491	gpm/sq.ft	90 (3657 l/min/sm)
U.V. Resistance after 500 hours	ASTM D 4355	% retained	70

Marshall O. Gaddy
Marshall O. Gaddy
Quality Control Manager

DATE: 6/04/01

PAGE: 1
IDQ0001A

TMS MILLS, INC.
NONWOVEN QUALITY DATA
FOR BOLA 000506100

ROLL #	STYL	WDT	LG	WGT	THCK	GRAB	GRAB	ELNG	ELNG	TRAP	TRAP	PUNC	BRST	FLOW	PRSM	PRM	AOS
						MD	MD	MD	MD	MD	MD	REBT	STNG	RATE	-ABL	-ITY	
300068158	R080	180	300	8.2	109	231	243	71	85	86	129	132	417	150	.660	2.36	
300068231	R080	180	300	7.7	111	243	233	76	91	91	122	135	408	134	.590	2.10	
300069804	R160	180	150	15.0	165	464	479	72	86	194	275	255	800	66	.430	1.03	
300069846	R160	180	150	17.1	198	462	510	85	102	188	266	263	800	71	.550	1.12	
300069860	R160	180	150	15.7	198	408	427	87	106	188	266	263	800	71	.550	1.12	
300069886	R160	180	150	15.4	181	443	468	79	92	178	237	247	800	75	.570	1.18	

TOTAL NUMBER OF ROLLS 6



9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-949-6222

July 6, 2001
REF: TNS E160
Quantity Shipped: 11 rolls
BOL #: 000506380
Location: McGraw NY

Marcy Excavation
131 E. Broad Street
Frankfort NY 133405

Dear Sir/Madam:

This is to certify that TNS E160 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E160 meets or exceeds the project specifications for the above referenced project. TNS E160 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E160 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	16.0
Grab Tensile	ASTM D 4632	lbs	425
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	150
Puncture	ASTM D 4833	lbs.	240
Permittivity	ASTM D 4491	1/sec	0.57
A.O.S.	ASTM D 4751	U.S. Sieve	100
Permeability	ASTM D 4491	cm/sec	.25
Mullen Burst	ASTM D 3786	psi	800
Water Flow	ASTM D 4491	gpm/sq ft.	45
U.V. Resistance	ASTM D 4355	%	70

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager



**9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 854-949-6222**

July 6, 2001
REF: TNS E080
Quantity Shipped: 2 rolls
BOL#: 000506380
Location: McGraw NY

Marcy Excavation
131 E. Broad Street
Frankfort NY 133405

Dear Sir/Madam:

This is to certify that TNS E080 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E080 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E080 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	8.0
Thickness	ASTM D 5199	mils	100
Grab Tensile	ASTM D 4632	lbs	225
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	90
Puncture	ASTM D 4833	lbs	130
Mullen Burst	ASTM D 3786	psi	450
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.26
Water Flow	ASTM D 4491	gpm/sq.ft.	100
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	.30

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager



9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-949-6222

July 6, 2001
REF: TNS E060
Quantity Shipped: 4 rolls
BOL#: 000506380
Location: McGraw NY

Marcy Excavation
131 E. Broad Street
Frankfort NY 133405

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	70
Permittivity	ASTM D 4491	1/sec	1.63
Water Flow	ASTM D 4491	gpm/sq.ft.	125
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	.48

Marshall O. Gaddy
Marshall O. Gaddy
Quality Control Manager

P.05/05

770 564 1818

E.S.P. Inc.

JUL-00-2001 09:58

DATE: 7/05/01

TNS MILLS, INC.
NONMOVES QUALITY DATA
FOR ROLL# 000506180PAGE: 1
INQ0001R

TOTAL P.05

ROLL #	STYL	WDT	LG	FABR WGHT	THICK	GRAB MD	GRAB KMD	ELING MD	ELMD KMD	TRAP MD	TRAP KMD	PUNC RST	BRST STRG	FLOW RATE	PERM -ABL	PERM -ITY	ADS
300048045	E160	180	360	17.0	187	510	546	80	98	172	202	257	800	81	.610	1.27	120
300049300	E160	180	360	16.5	202	468	525	86	82	175	279	255	800	59	.480	.93	120
300050929	E160	180	360	16.8	191	433	468	95	95	231	304	247	800	104	.900	1.62	120
300051463	E160	180	360	16.7	199	460	537	86	98	182	284	268	800	60	.498	.95	120
300061409	R060	180	900	7.0	122	170	193	72	92	82	115	106	355	167	.740	2.62	100
300068495	R060	180	900	6.7	101	199	209	90	102	84	116	98	352	230	1.060	3.62	70
300069796	E160	180	360	18.0	210	523	591	86	94	212	304	272	800	69	.580	1.08	100
300069799	E160	180	360	18.0	210	523	591	86	94	212	304	272	800	69	.580	1.08	100
300069802	E160	180	360	17.3	201	486	547	86	101	212	304	273	800	69	.580	1.08	100
300069803	E160	180	360	17.3	201	486	547	86	101	212	304	273	800	69	.580	1.08	100
300069805	E160	180	360	16.8	198	439	556	87	104	212	304	254	800	69	.580	1.08	100
300069807	E160	180	360	16.8	198	439	556	87	104	212	304	254	800	69	.580	1.08	100
300069808	E160	180	360	16.8	198	439	556	87	104	212	304	254	800	69	.580	1.08	100
300071278	R060	180	900	6.5	105	206	194	76	83	91	120	165	360	167	.690	2.62	70
300071286	R060	180	900	6.1	98	187	179	92	90	90	113	104	363	167	.690	2.62	70
300071662	R080	180	690	8.2	124	237	252	62	80	121	171	159	483	143	.730	2.25	80

TOTAL NUMBER OF ROLLS 16



Appendix B

Section: 1.B

Conformance Test Results

TYPE 1 GEOTEXTILE (SECTION 02233)
CONFORMANCE TEST RESULTS SUMMARY
Cortland County Landfill Remedial Action Landfill Closure 331.035

SAMPLE NO.	DATE SAMPLED	LOT NO.	ROLL NO.	CUMULATIVE AREA (sf)	MASS PER UNIT AREA	BURST STRENGTH	PUNCTURE STRENGTH	GRAB STRENGTH		GRAB ELONGATION		TRAPEZOIDAL TEAR	
					(oz/yd ²)	(psi)	(lbs)	(lbs)	(lbs)	(%)	(%)	(lbs)	(lbs)
TEST METHOD					D5261	D3786	D4833	D4632	D4632	D4632	D4632	D4533	D4533
SAMPLE FREQUENCY					100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf
SPECIFICATIONS					6.00	220	75	145	145	50	50	50	50
1	7/12/01		300068231	100,000	6.60	321	148	148	161	86	94	82	89

Note: MD = Machine Direction
TD = Transverse Direction
 = Did Not Meet Specifications

TYPE II GEOTEXTILE (SECTION 02233)
CONFORMANCE TEST RESULTS SUMMARY
Cortland County Landfill Remedial Action Landfill Closure 331.035

SAMPLE NO.	DATE SAMPLED	LOT NO.	ROLL NO.	CUMULATIVE AREA (sf)	MASS PER UNIT AREA	BURST STRENGTH	PUNCTURE STRENGTH	GRAB STRENGTH		GRAB ELONGATION		TRAPEZOIDAL TEAR	
					(oz/yd ²)	(psi)	(lbs)	MD	TD	MD	TD	MD	TD
TEST METHOD					D5281	D3786	D4833	D4632	D4632	D4632	D4632	D4533	D4533
SAMPLE FREQUENCY					100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf	100,000 sf
SPECIFICATIONS					16.00	575	170	330	330	50	50	120	120
1	6/14/01		300069860	100,000	15.01	743	257	727	432	89	101	176	212
2	7/12/01		300068231	100,000	16.30	795	263	480	534	84	92	185	213

Note: MD = Machine Direction
TD = Transverse Direction
 = Did Not Meet Specifications



GeoTesting Express, Inc.

2004 E. RANDOL MILL, SUITE 512
ARLINGTON, TX 76011
817-861-9090 (FAX) 817-861-5400

June 15, 2001

Marcy Excavation Co., Inc.
Attn: Mr. David Acton
2256 Broad Street
Frankfort, NY 13340

RE: Client Job - Cortland County Landfill
GTX Project Number: MEC 3651.009

Dear Mr. Acton:

Two (2) samples were received for testing on 06/14/01. The samples were identified as follows:

<u>SAMPLE I.D.</u>	<u>GTX COMMENTS</u>
Roll #300068234 8 oz. Geotextile	GT
Roll #300069860 16 oz Geotextile	GT

The samples were tested in accordance with the test methods listed below:

ASTM D 3786, "Test Method for Hydraulic Bursting Strength Of Knitted Goods And Nonwoven Fabrics - Diaphragm Strength Tester Method"

ASTM D 4533, "Test Method for Trapezoid Tearing Strength of Geotextiles"

ASTM D 4632, "Test Method for Breaking Load and Elongation of Geotextiles (Grab Method)"

ASTM D 4833, "Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products"

ASTM D 5261, "Standard Test Method for Measuring Mass per Unit Area of Geotextiles"

The sample material was submitted by Marcy Excavation Co., Inc.. GeoTesting Express of Texas, Inc. has no specific knowledge as to conditioning, origin, sampling procedure, special use of material, or purpose of material. The testing listed herein is based upon accepted industry practice as well as by the test method listed. GeoTesting Express of Texas, Inc. neither accepts nor makes claim as to final use and purpose of the material. Results presented apply only to the items tested.

Geotechnical and
Geosynthetic Testing Services

MULLEN BURST ASTM D 3786

Equipment: Motor Driven Hydraulic
Diaphragm Bursting Tester

Tested: 06/15/01

<u>SAMPLE I.D.</u>	<u>Reading</u>	<u>Tare</u>	Burst Strength (psi)
Roll #300068231	470	10	460
8 oz. Geotextile	390	10	380
	510	10	500
	440	10	430
	395	10	385
	390	10	380
	415	10	405
	382	10	375
	375	10	365
	395	10	85
AVG			407
S.D.			45.7
C.V. (%)			11.2

<u>SAMPLE I.D.</u>	<u>Reading</u>	<u>Tare</u>	Burst Strength (psi)
Roll #300069860	705	15	690
16 oz. Geotextile	815	15	800
	815	15	800
	780	15	765
	775	15	760
	695	15	680
	740	15	725
	790	15	775
	685	15	670
	775	15	760
AVG			743
S.D.			50.8
C.V. (%)			6.8

**TRAPAZOID TEAR
ASTM D 4533**

Tested: 06/15/01

CONDITION OF THE SPECIMENS: DRY

<u>SAMPLE I.D.</u>	Tear Strength (lb _F)	
	<u>MD</u>	<u>CD</u>
Roll #300068231 8 oz. Geotextile	110	107
	139	122
	111	119
	118	127
	89	106
	108	122
	95	106
	124	111
	73	92
	114	97
AVG.	108	111
S.D.	18.6	11.5
C.V. (%)	17.2	10.4

<u>SAMPLE I.D.</u>	Tear Strength (lb _F)	
	<u>MD</u>	<u>CD</u>
Roll #300069860 16 oz. Geotextile	189	194
	178	179
	145	216
	189	218
	190	265
	202	246
	159	201
	178	210
	155	175
	177	214
AVG.	176	212
S.D.	18.0	27.7
C.V. (%)	10.2	13.1

BREAKING STRENGTH & APPARENT ELONGATION **ASTM D 4632**

Condition of specimens : Dry

Type of testing machine : J J Instruments / M50K

Tested: 06/15/01

Type of padding used in jaws : None

<u>SAMPLE I.D.</u>	<u>Break Strength</u> <u>(lb_F)</u>		<u>Apparent Break Elongation</u> <u>(%)</u>	
	<u>MD</u>	<u>CD</u>	<u>MD</u>	<u>CD</u>
Roll #300068231	272	200	79	92
8 oz. Geotextile	251	206	73	92
	215	226	81	87
	234	259	75	96
	260	230	75	87
	260	254	75	96
	209	218	67	96
	223	239	73	100
	256	249	71	96
	213	205	71	87
AVG.	239	229	74	93
S.D.	23.2	21.3	4.0	4.7
C.V. (%)	9.7	9.3	5.4	5.0

<u>SAMPLE I.D.</u>	<u>Break Strength</u> <u>(lb_F)</u>		<u>Apparent Break Elongation</u> <u>(%)</u>	
	<u>MD</u>	<u>CD</u>	<u>MD</u>	<u>CD</u>
Roll #300069860	419	442	92	100
16 oz. Geotextile	446	436	85	98
	418	488	92	100
	426	475	90	92
	413	533	87	104
	489	474	96	100
	367	469	83	100
	466	465	96	98
	424	432	85	108
	398	408	85	110
AVG.	727	432	89	101
S.D.	34.2	34.9	4.8	5.2
C.V. (%)	8.0	7.6	5.4	5.1

PUNCTURE RESISTANCE
ASTM D 4833

Method of holding the test specimens: Rectangular clamp attachment

Tested: 06/15/01

<u>SAMPLE I.D.</u>	<u>FORCE (lb_F)</u>
Roll #300068231	132
8 oz. Geotextile	139
	134
	142
	128
	157
	146
	143
	140
	162
	121
	114
	113
	147
	137
AVG.	137
S.D.	14.0
C.V. (%)	10.2

**PUNCTURE RESISTANCE
ASTM D 4833**

Method of holding the test specimens: Rectangular clamp attachment

Tested: 06/15/01

<u>SAMPLE I.D.</u>	<u>FORCE (lb_f)</u>
Roll #300069860	274
16 oz. Geotextile	255
	251
	243
	242
	237
	259
	246
	280
	257
	261
	258
	264
	265
	259
AVG.	257
S.D.	11.8
C.V. (%)	4.6

**MASS / UNIT AREA
ASTM D 5261**

SPECIMEN SIZE: 6 in. x 6 in.
SHAPE: Square

Tested: 06/15/01

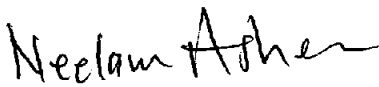
<u>SAMPLE I.D.</u>	Mass Per Unit Area (oz / yd ²)
Roll #300068231	7.9
8 oz. Geotextile	7.8
	8.7
	8.2
	7.9
AVG.	8.1
S.D.	0.3
C.V. (%)	3.7

<u>SAMPLE I.D.</u>	Mass Per Unit Area (oz / yd ²)
Roll #300069860	14.3
16 oz. Geotextile	16.0
	15.6
	14.6
	14.4
AVG.	15.0
S.D.	0.8
C.V. (%)	5.3

This report shall not be reproduced except in full, without written approval from this laboratory.

If there are any questions, please contact us.

Respectfully,


Neelam Asher
Laboratory Manager



GeoTesting Express, Inc.

2004 E. RANDOL MILL, SUITE 512
ARLINGTON, TX 76011
817-861-9090 (FAX) 817-861-5400

July 13, 2001

Marcy Excavation Co., Inc.
Attn: Mr. David Acton
2256 Broad Street
Frankfort, NY 13340

RE: Client Job - Cortland County Landfill
GTX Project Number: MEC 3651.022

Dear Mr. Acton:

Two (2) samples were received for testing on 07/12/01. The samples were identified as follows:

<u>SAMPLE I.D.</u>	<u>GTX COMMENTS</u>
Roll #300061409, Sample E06	GT
Roll #300069807, Sample E160	GT

The samples were tested in accordance with the test methods listed below:

ASTM D 3786, "Test Method for Hydraulic Bursting Strength Of Knitted Goods And Nonwoven Fabrics - Diaphragm Strength Tester Method"

ASTM D 4533, "Test Method for Trapezoid Tearing Strength of Geotextiles"

ASTM D 4632, "Test Method for Breaking Load and Elongation of Geotextiles (Grab Method)"

ASTM D 4833, "Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products"

ASTM D 5261, "Standard Test Method for Measuring Mass per Unit Area of Geotextiles"

The sample material was submitted by Marcy Excavation Co., Inc.. GeoTesting Express of Texas, Inc. has no specific knowledge as to conditioning, origin, sampling procedure, special use of material, or purpose of material. The testing listed herein is based upon accepted industry practice as well as by the test method listed. GeoTesting Express of Texas, Inc. neither accepts nor makes claim as to final use and purpose of the material. Results presented apply only to the items tested.

Geotechnical and
Geosynthetic Testing Services



**MULLEN BURST
ASTM D 3786**

Tested: 07/13/01

Equipment: Motor Driven Hydraulic
Diaphragm Bursting Tester

<u>SAMPLE I.D.</u>	<u>Reading</u>	<u>Tare</u>	<u>Burst Strength (psi)</u>
Roll #300061409	340	10	330
Sample E06	320	10	310
	340	10	330
	330	10	320
	310	10	300
	330	10	290
	330	10	320
	330	10	30
	380	10	370
	330	10	320
AVG	331	10	321
S.D.	21.3	0.0	21.9
C.V. (%)	6.4	0.0	6.6

<u>SAMPLE I.D.</u>	<u>Reading</u>	<u>Tare</u>	<u>Burst Strength (psi)</u>
Roll #300069807	800	10	790
Sample E160	870	10	860
	800	10	790
	770	10	760
	800	10	790
	760	10	750
	810	10	800
	810	10	800
	810	10	800
	820	10	810
AVG	805	10	795
S.D.	29.5	0.0	29.5
C.V. (%)	3.7	0.0	3.7

**TRAPAZOID TEAR
ASTM D 4533**

Tested: 07/13/01

CONDITION OF THE SPECIMENS: DRY

<u>SAMPLE I.D.</u>	Tear Strength (<u>lb_F</u>)	
	<u>MD</u>	<u>CD</u>
Roll #300061409	80	89
Sample E06	105	89
	100	116
	73	57
	64	78
	89	90
	90	80
	87	85
	92	85
	65	92
AVG.	82	89
S.D.	14.9	10.5
C.V. (%)	15.7	11.8

<u>SAMPLE I.D.</u>	Tear Strength (<u>lb_F</u>)	
	<u>MD</u>	<u>CD</u>
Roll #300069807	215	256
Sample E160	198	194
	208	212
	186	222
	233	227
	157	237
	138	313
	193	261
	155	263
	163	209
AVG.	185	213
S.D.	30.4	34.8
C.V. (%)	16.4	16.3

**BREAKING STRENGTH & APPARENT ELONGATION
ASTM D 4632**

Condition of specimens : Dry

Type of testing machine : J J Instruments / M50K

Tested: 07/13/01

Type of padding used in jaws : None

<u>SAMPLE I.D.</u>	<u>Break Strength</u> <u>(lb_F)</u>		<u>Apparent Break Elongation</u> <u>(%)</u>	
	<u>MD</u>	<u>CD</u>	<u>MD</u>	<u>CD</u>
Roll #300061409	135	169	100	92
Sample E06	140	174	93	96
	151	157	75	87
	134	153	98	92
	146	152	79	83
	128	164	79	92
	157	153	87	92
	172	159	83	104
	162	164	87	100
	157	161	79	100
AVG.	148	161	86	94
S.D.	14.0	7.3	8.6	6.3
C.V. (%)	9.5	4.5	10.0	6.7

<u>SAMPLE I.D.</u>	<u>Break Strength</u> <u>(lb_F)</u>		<u>Apparent Break Elongation</u> <u>(%)</u>	
	<u>MD</u>	<u>CD</u>	<u>MD</u>	<u>CD</u>
Roll #300069807	468	554	85	87
Sample E160	445	526	83	96
	475	520	92	83
	401	557	96	92
	473	590	83	96
	472	540	85	87
	501	549	79	98
	489	520	79	92
	541	501	77	96
	534	480	77	92
AVG.	480	534	84	92
S.D.	40.7	31.2	6.3	4.9
C.V. (%)	8.5	5.8	7.5	5.3

PUNCTURE RESISTANCE
ASTM D 4833

Method of holding the test specimens: Rectangular clamp attachment

Tested: 07/13/01

<u>SAMPLE I.D.</u>	<u>FORCE (lb_F)</u>
Roll #300061409	125
Sample E06	125
	116
	94
	89
	120
	115
	106
	94
	100
	115
	120
	114
	136
	111
AVG.	112
S.D.	13.2
C.V. (%)	11.8

PUNCTURE RESISTANCE
ASTM D 4833

Method of holding the test specimens: Rectangular clamp attachment

Tested: 07/13/01

<u>SAMPLE I.D.</u>	<u>FORCE (lb_F)</u>
Roll #300069807	265
Sample E160	262
	275
	262
	244
	267
	250
	269
	248
	240
	267
	266
	292
	248
	290
AVG.	263
S.D.	15.4
C.V. (%)	5.9

**MASS / UNIT AREA
ASTM D 5261**

Tested: 07/13/01

SPECIMEN SIZE: 6 in. x 6 in.
SHAPE: Square

<u>SAMPLE I.D.</u>	Mass Per Unit Area (oz / yd ²)
Roll #300061409	6.3
Sample E06	6.3
	6.4
	6.4
	5.5
	6.5
	6.9
	7.2
	7.4
	6.8
AVG.	6.6
S.D.	0.5
C.V. (%)	8.2

<u>SAMPLE I.D.</u>	Mass Per Unit Area (oz / yd ²)
Roll #300069807	15.4
Sample E160	16.6
	16.5
	15.8
	16.1
	15.5
	16.2
	17.3
	16.8
	16.8
AVG.	16.3
S.D.	0.6
C.V. (%)	3.7

This report shall not be reproduced except in full, without written approval from this laboratory.

If there are any questions, please contact us.

Respectfully,

A handwritten signature in black ink, appearing to read "Neelam Asher". The signature is fluid and cursive, with a long horizontal stroke at the end.

Neelam Asher
Laboratory Manager

Appendix B

Section: 2.0

Composite Geonet Test Results

Appendix B

Section: 2.A

Manufacture's QA/QC Data

SKAPS Industries

SKAPS Industries
571 Industrial Pkwy
Commerce, GA

Phone: 706-336-7000
Fax: 706-336-7007

Rolls 586001 - 586135

Wednesday May 30, 2001
Babcock Highway Supply, Inc.
565 County Route 51A
Oswego, NY 13126

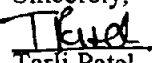
Ref. : Cortland County Landfill McGraw, NY
Transnet 220-2-6 Geocomposite
Shipper #

We certify that the Transnet 220-2-6 double sided drainage composite, shipped on the above Shipper No., meets the project requirements as stated in the specifications. The properties listed in this section include :

Net Property	Test Method	Unit	Minimum Required Value
Mass per Unit Area	ASTM D 5261	lbs/ft ²	0.162
Thickness	ASTM D 5199	inches	.22/- .022
Carbon Black	ASTM D 1603	%	2
Tensile Strength	ASTM D 5035	lb/in	50
Melt Flow	ASTM D 1238	g/10min	1.0max
Density	ASTM D 1505	g/cm ³	0.940
Transmissivity*	ASTM D 4716	m ² /s	1.0 X10 ^{-3*}
Composite Property	Test Method	Unit	Minimum Required Value
Ply Adhesion	ASTM D 413	lb/in	1.0
Transmissivity*	ASTM D 4716	m ² /s	2.2X10 ^{-4*}
Fabric Property	Test Method	Unit	MARV
Fabric Weight	ASTM D 5261	oz/yd ²	6
Grab Strength	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Tear Strength	ASTM D 4533	lbs	65
Puncture Resistance	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
Water Flow Rate	ASTM D 4491	gpm/ft ²	125
Permittivity	ASTM D 4491	1/sec	1.63
Permeability	ASTM D 4491	cm/sec	0.45
AOS	ASTM D 4751	US Sieve	80

* Transmissivity measured using water 20 Degree C (68 degree F) with a gradient of 1.0 and a confining pressure of 15000 psf, between two steel plates after 1hour.

* Transmissivity measured using water 20 Degree C (68 degree F) with a gradient of 0.1 and a confining pressure of 2000 psf, between two steel plates after 15min.

Sincerely,

Tarli Patel
QA Manager



SKAPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(706) 338-7000

SHIPPING ORDER PACKING LIST ORIGINAL NOT NEGOTIABLE

5/31/01

SHIPPER NO.

EXTERNAL REF #
CONSIGNEE TO
DESTINATION
COMMENTS FROM M.R.

Marcy Excavation Co.,
c/o Cortland County Landfill
4708 Town Line Rd.
McGraw, NY 13101

DATE SHIPPED 05/29/01
CUST. P.O. # 6692
STATE: NY
INTERNAL REF # 2358
MATERIAL REQ # 6692
JOB #
SHIPPERS # 2358
BUS / MARKET SEQ # 586
TERMS: Prepaid

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
3500.0	TN22066	586028	220 NT-2 SD 6 OZ
3500.0	TN22066	586029	220 NT-2 SD 6 OZ
3500.0	TN22066	586031	220 NT-2 SD 6 OZ
3500.0	TN22066	586032	220 NT-2 SD 6 OZ
3500.0	TN22066	586033	220 NT-2 SD 6 OZ
3500.0	TN22066	586034	220 NT-2 SD 6 OZ
3500.0	TN22066	586035	220 NT-2 SD 6 OZ
3500.0	TN22066	586036	220 NT-2 SD 6 OZ
3500.0	TN22066	586037	220 NT-2 SD 6 OZ
3500.0	TN22066	586038	220 NT-2 SD 6 OZ
3500.0	TN22066	586039	220 NT-2 SD 6 OZ
3500.0	TN22066	586040	220 NT-2 SD 6 OZ
3500.0	TN22066	586041	220 NT-2 SD 6 OZ
3500.0	TN22066	586042	220 NT-2 SD 6 OZ
3500.0	TN22066	586043	220 NT-2 SD 6 OZ
3500.0	TN22066	586044	220 NT-2 SD 6 OZ
3500.0	TN22066	586045	220 NT-2 SD 6 OZ
3500.0	TN22066	586046	220 NT-2 SD 6 OZ
3500.0	TN22066	586047	220 NT-2 SD 6 OZ
3500.0	TN22066	586048	220 NT-2 SD 6 OZ
2800.0	TN22066	586049	220 NT-2 SD 6 OZ
3500.0	TN22066	586050	220 NT-2 SD 6 OZ
3500.0	TN22066	586051	220 NT-2 SD 6 OZ
3500.0	TN22066	586052	220 NT-2 SD 6 OZ
3500.0	TN22066	586053	220 NT-2 SD 6 OZ
3500.0	TN22066	586054	220 NT-2 SD 6 OZ
3500.0	TN22066	586131	220 NT-2 SD 6 OZ

Q BS
Ties

TOTAL SQFT: 93.800

TOTAL WEIGHT: 30.464

TRUCK / CONTAINER #
SEAL # F.T. Logistics
CARRIER REF.
CARRIER NAME
CARRIER SIGN _____

LOAD VERIFICATION DESIGNED X
TRUCKERS P.O. #

Elmo Jones 001
F.T. Logistics
800-660-5551

DATE: _____

SIGN HERE FOR SHIPPER

SHIPPER: _____

ADDRESS: 571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529

SIGN HERE FOR AGENT
OF SHIPPER _____

AGENT FOR SHIPPER: _____

It is the policy of Skaps Industries to ship the property described above, in apparent good order except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above, which said Carrier (the word "Carrier" is used throughout this Shipping Order as meaning the person or corporation in possession of the property) agrees to carry to the place of delivery at said destination, over all or any of the routes to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to either (a) if the Shipper noted herein is Skaps Industries as indicated by the designation of "to be Skaps Industries", then the Shipper and Carrier are subject to the terms and conditions contained in the Contract for Truck Transportation existing between the parties or (b) if the Shipper noted herein is not Skaps Industries then Skaps Industries hereby agrees to act as the general Shipper, and that every aspect of the service to be performed hereunder between the Shipper and the Carrier shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth in Southern, Western, and Illinois Freight Classifications in effect on the date hereof. If this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff. If this is a motor carrier shipment. When acting in the capacity of an agent to place the material in transit on behalf of a Shipper, Skaps Industries accepts no liability for loss of cargo, damage to containers, or any other consequences occurring during transportation. Carrier having agreed that the transportation arrangements are made by the Shipper and not by Skaps Industries.

It is the policy of Skaps Industries to ship the property described above, in apparent good order except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above, which said Carrier (the word "Carrier" is used throughout this Shipping Order as meaning the person or corporation in possession of the property) agrees to carry to the place of delivery at said destination, over all or any of the routes to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to either (a) if the Shipper noted herein is Skaps Industries as indicated by the designation of "to be Skaps Industries", then the Shipper and Carrier are subject to the terms and conditions contained in the Contract for Truck Transportation existing between the parties or (b) if the Shipper noted herein is not Skaps Industries then Skaps Industries hereby agrees to act as the general Shipper, and that every aspect of the service to be performed hereunder between the Shipper and the Carrier shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth in Southern, Western, and Illinois Freight Classifications in effect on the date hereof. If this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff. If this is a motor carrier shipment. When acting in the capacity of an agent to place the material in transit on behalf of a Shipper, Skaps Industries accepts no liability for loss of cargo, damage to containers, or any other consequences occurring during transportation. Carrier having agreed that the transportation arrangements are made by the Shipper and not by Skaps Industries.

SHIPPING ORDER-PACKING LIST-ORIGINAL-NOT NEGOTIABLE



SKIPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(706) 336-7000

5 31 01

SHIPPERS NO.

2360

EXTERNAL REF # Cortland County Landfill
CONSIGNED TO - 4708 Town Line Road
DESTINATION - McGraw, NY 13101

COMMENTS FROM M.R. Layn Babcock
315-343-8111

DATE SHIPPED 05/29/2001
CUST. P.O. # 6692
STATE:
INTERNAL REF # 586
MATERIAL REQ #
JOB # 586
SHIPPERS # 2360
BUS / MARKET SEQ #
TERMS:

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
---------------	-------------------	-----------	------------------------------------------------------------

3500	TN220-2-6	586002	220 NT-2 SD 6 OZ
3500	TN220-2-6	586003	220 NT-2 SD 6 OZ
3500	TN220-2-6	586004	220 NT-2 SD 6 OZ
3500	TN220-2-6	586005	220 NT-2 SD 6 OZ
3500	TN220-2-6	586006	220 NT-2 SD 6 OZ
3500	TN220-2-6	586007	220 NT-2 SD 6 OZ
3500	TN220-2-6	586008	220 NT-2 SD 6 OZ
3500	TN220-2-6	586009	220 NT-2 SD 6 OZ
3500	TN220-2-6	586010	220 NT-2 SD 6 OZ
3500	TN220-2-6	586011	220 NT-2 SD 6 OZ
3500	TN220-2-6	586012	220 NT-2 SD 6 OZ
3500	TN220-2-6	586013	220 NT-2 SD 6 OZ
3500	TN220-2-6	586014	220 NT-2 SD 6 OZ
3500	TN220-2-6	586015	220 NT-2 SD 6 OZ
3500	TN220-2-6	586016	220 NT-2 SD 6 OZ
3500	TN220-2-6	586017	220 NT-2 SD 6 OZ
3500	TN220-2-6	586018	220 NT-2 SD 6 OZ
3500	TN220-2-6	586019	220 NT-2 SD 6 OZ
3500	TN220-2-6	586020	220 NT-2 SD 6 OZ
3500	TN220-2-6	586021	220 NT-2 SD 6 OZ
3500	TN220-2-6	586022	220 NT-2 SD 6 OZ
3500	TN220-2-6	586023	220 NT-2 SD 6 OZ
3500	TN220-2-6	586024	220 NT-2 SD 6 OZ
3500	TN220-2-6	586025	220 NT-2 SD 6 OZ
3500	TN220-2-6	586026	220 NT-2 SD 6 OZ
3500	TN220-2-6	586027	220 NT-2 SD 6 OZ
3500	TN220-2-6	586132	220 NT-2 SD 6 OZ

2 Bag Ties

Weight: 30,118

Total Sq. Feet: 94,500

TRUCK / CONTAINER # Land Star

LOAD VERIFICATION SIGNED X
TRUCKERS P.O. #

Driver: Amy V. Mend

Tr. Co: LIGON

SEAL #

CARRIER REF.

CARRIER NAME

CARRIER SIGN

DATE: 5/29/01

PH: 570 784 2328

SIGN HERE FOR SHIPPER

SHIPPER:

ADDRESS: 571 INDUSTRIAL PARKWAY

COMMERCE, GA 30529

SIGN HERE FOR AGENT

OF SHIPPER

AGENT FOR SHIPPER:

to the above terms and conditions as to which party is the Shipper, Shipper hereby certifies that he is familiar with the terms and conditions that govern the transportation of this shipment, and the said terms and conditions



SKAPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(706) 336-7000

Friday - 6/1/01

SHIPPERS NO.

2363

EXTERNAL REF # Cortland County Landfill
CONSIGNEE TO 4708 Town Line Road
DESTINATION McGraw, NY 13101

DATE SHIPPED 05/30/2001
CUST. P.O. # 6692

COMMENTS FROM M.R. Layn Babcock
Phone # 315-343-8111

STATE:
INTERNAL REF # 586
MATERIAL REQ #
JOB # 586
SHIPPERS # 2363
BUS / MARKET SEQ #
TERMS:

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
3500	TN220-2-6	586078	220 NT-2 SD 6 OZ
3500	TN220-2-6	586083	220 NT-2 SD 6 OZ
3500	TN220-2-6	586084	220 NT-2 SD 6 OZ
3500	TN220-2-6	586085	220 NT-2 SD 6 OZ
3500	TN220-2-6	586086	220 NT-2 SD 6 OZ
3500	TN220-2-6	586087	220 NT-2 SD 6 OZ
3500	TN220-2-6	586088	220 NT-2 SD 6 OZ
3500	TN220-2-6	586089	220 NT-2 SD 6 OZ
3500	TN220-2-6	586091	220 NT-2 SD 6 OZ
3500	TN220-2-6	586092	220 NT-2 SD 6 OZ
3500	TN220-2-6	586093	220 NT-2 SD 6 OZ
3500	TN220-2-6	586094	220 NT-2 SD 6 OZ
3500	TN220-2-6	586095	220 NT-2 SD 6 OZ
3500	TN220-2-6	586096	220 NT-2 SD 6 OZ
3500	TN220-2-6	586097	220 NT-2 SD 6 OZ
3500	TN220-2-6	586098	220 NT-2 SD 6 OZ
3220	TN220-2-6	586099	220 NT-2 SD 6 OZ
2800	TN220-2-6	586100	220 NT-2 SD 6 OZ
2800	TN220-2-6	586101	220 NT-2 SD 6 OZ
3360	TN220-2-6	586102	220 NT-2 SD 6 OZ
3500	TN220-2-6	586103	220 NT-2 SD 6 OZ
3500	TN220-2-6	586104	220 NT-2 SD 6 OZ
3500	TN220-2-6	586105	220 NT-2 SD 6 OZ
3500	TN220-2-6	586106	220 NT-2 SD 6 OZ
3500	TN220-2-6	586107	220 NT-2 SD 6 OZ
3500	TN220-2-6	586108	220 NT-2 SD 6 OZ
3500	TN220-2-6	586133	220 NT-2 SD 6 OZ
Weight:	31 356	Total Sq. Feet:	32,680

2 Bag Ties

TRUCK / CONTAINER #

LOAD VERIFICATION SIGNED X

SEAL #

TRUCKERS P.O. #

CARRIER REF

CARRIER NAME

CARRIER SIGN

DATE: 5/30/01

SIGN HERE FOR SHIPPER

SHIPPER:

SIGN HERE FOR AGENT
OF SHIPPER

ADDRESS: 571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529

AGENT FOR SHIPPER:

By the above terms and conditions as to which party is the shipper, shipper hereby certifies that he is familiar with the terms and conditions that govern the transportation of this shipment, and the said terms and conditions agreed and accepted for himself and his assigns.

Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 1

Product : TN220-2-6

Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissivity (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586001	586001 - N	300067678	300067677	2.3	2.6	
2	586002	586002 - N	300067678	300067677			
3	586003	586003 - N	300067678	300067677			
4	586004	586004 - N	300067676	300067718			
5	586005	586005 - N	300067676	300067718	2.1	2.4	
6	586006	586006 - N	300067676	300067718			
7	586007	586007 - N	300067744	300067741			
8	586008	586008 - N	300067744	300067741			
9	586009	586009 - N	300067744	300067741			
10	586010	586010 - N	300067693	300067679	2.2	2.5	
11	586011	586011 - N	300067693	300067679			
12	586012	586012 - N	300067693	300067679			
13	586013	586013 - N	300067685	300067745			
14	586014	586014 - N	300067685	300067745			
15	586015	586015 - N	300067685	300067745	2.3	2.7	3.89X10 ⁻⁴
16	586016	586016 - N	300067746	300067692			
17	586017	586017 - N	300067746	300067692			
18	586018	586018 - N	300067746	300067692			
19	586019	586019 - N	300067694	300067740			
20	586020	586020 - N	300067694	300067740	2.2	2.5	
21	586021	586021 - N	300067694	300067740			
22	586022	586022 - N	300067674	300067704			
23	586023	586023 - N	300067674	300067704			
24	586024	586024 - N	300067674	300067704			
25	586025	586025 - N	300067713	300067739	2.3	2.6	
26	586026	586026 - N	300067713	300067739			
27	586027	586027 - N	300067713	300067739			

Name : Tarli N. Patel

Signature : T. Patel

Title : Quality Control Manager

Date :

05/29/01



**Engineered Synthetic
Products, Inc.**

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 1
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb./ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586001 - N	K101108	0.945	0.231	225	2.2	68	
586002 - N	K101108	0.945					
586003 - N	K101108	0.945					
586004 - N	K101108	0.945					
586005 - N	K101108	0.945	0.229	221	2.5	71	
586006 - N	K101108	0.945					
586007 - N	K101108	0.945					
586008 - N	K101108	0.945					
586009 - N	K101108	0.945					
586010 - N	K101108	0.945	0.233	224	2.2	66	
586011 - N	K101108	0.945					
586012 - N	K101108	0.945					
586013 - N	K101108	0.945					
586014 - N	K101108	0.945					
586015 - N	K101108	0.945	0.228	222	2.4	67	1.69X10 ⁻³
586016 - N	K101108	0.945					
586017 - N	K101108	0.945					
586018 - N	K101108	0.945					
586019 - N	K101108	0.945					
586020 - N	K101108	0.945	0.235	229	2.3	64	
586021 - N	K101108	0.945					
586022 - N	K101108	0.945					
586023 - N	K101108	0.945					
586024 - N	K101108	0.945					
586025 - N	K101108	0.945	0.234	224	2.4	66	
586026 - N	K101108	0.945					
586027 - N	K101108	0.945					

Name : Tarli N. Patel

Signature : T. Patel

Title : Quality Control Manager

Date : 05/29/01



Engineered Synthetic
Products, Inc.

SNAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # **2**
Product : **TN220-2-6**
Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivty (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586028	586028 - N	300067699	300067686			
2	586029	586029 - N	300067699	300067686			
3	586030	586030 - N	300067699	300067686	2.2	2.7	
4	586031	586031 - N	300067738	300067721			
5	586032	586032 - N	300067738	300067721			
6	586033	586033 - N	300067738	300067721			
7	586034	586034 - N	300067710	300067673			
8	586035	586035 - N	300067710	300067673	2.1	2.5	
9	586036	586036 - N	300067710	300067673			
10	586037	586037 - N	300067742	300067703			
11	586038	586038 - N	300067742	300067703			
12	586039	586039 - N	300067742	300067703			
13	586040	586040 - N	300067691	300067737	2.4	2.6	4.87X10 ⁻⁴
14	586041	586041 - N	300067691	300067737			
15	586042	586042 - N	300067691	300067737			
16	586043	586043 - N	300067708	300067726			
17	586044	586044 - N	300067708	300067726			
18	586045	586045 - N	300067708	300067726	2.2	2.8	
19	586046	586046 - N	300067736	300067725			
20	586047	586047 - N	300067736	300067725			
21	586048	586048 - N	300067736	300067725			
22	586049	586049 - N	300067733	300067719			
23	586050	586050 - N	300067733	300067719	2.4	2.7	
24	586051	586051 - N	300067733	300067719			
25	586052	586052 - N	300067709	300067717			
26	586053	586053 - N	300067709	300067717			
27	586054	586054 - N	300067709	300067717			

Name : Tarli N. Patel

Signature : *T. Patel*

Title : Quality Control Manager

Date : 05/29/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 2
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb./ft. ²) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586028 - N	K101108	0.945					
586029 - N	K101108	0.945					
586030 - N	K101108	0.945	0.229	222	2.4	70	
586031 - N	K101108	0.945					
586032 - N	K101108	0.945					
586033 - N	K101108	0.945					
586034 - N	K101108	0.945					
586035 - N	K101108	0.945	0.233	224	2.5	66	1.71X10 ⁻³
586036 - N	K101108	0.945					
586037 - N	K101108	0.945					
586038 - N	K101108	0.945					
586039 - N	K101108	0.945					
586040 - N	K101108	0.945	0.237	228	2.3	65	
586041 - N	K101108	0.945					
586042 - N	K101108	0.945					
586043 - N	K101108	0.945					
586044 - N	K101108	0.945					
586045 - N	K101108	0.945	0.228	222	2.4	63	
586046 - N	K101108	0.945					
586047 - N	K101108	0.945					
586048 - N	K101108	0.945					
586049 - N	K101108	0.945					
586050 - N	K101108	0.945	0.235	225	2.2	68	
586051 - N	K101108	0.945					
586052 - N	K101108	0.945					
586053 - N	K101108	0.945					
586054 - N	K101108	0.945					

Name : Tarli N. Patel Signature : TPatel
Title : Quality Control Manager Date : 05/29/01



Engineered Synthetic
Products, Inc.

SRAT'S INDUSTRIES
571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # **3**

Product : **TN220-2-6**

Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivity (m ² /sec)
			Top	Bottom	Minimum	Average	ASTM D4716
1	586055	586055 - N	300067734	300067716	2.2	2.6	
2	586056	586056 - N	300067734	300067716			
3	586057	586057 - N	300067734	300067716			
4	586058	586058 - N	300067735	300067722			
5	586059	586059 - N	300067735	300067722			
6	586060	586060 - N	300067735	300067722	2.1	2.4	
7	586061	586061 - N	300067706	300067707			
8	586062	586062 - N	300067706	300067707			
9	586063	586063 - N	300067706	300067707			
10	586064	586064 - N	300067727	300067729			
11	586065	586065 - N	300067727	300067729	2.4	2.6	
12	586066	586066 - N	300067727	300067729			
13	586067	586067 - N	300067715	300067714			
14	586068	586068 - N	300067715	300067714			
15	586069	586069 - N	300067715	300067714			
16	586070	586070 - N	300067731	300067728	2.2	2.5	5.80X10 ⁻⁴
17	586071	586071 - N	300067731	300067728			
18	586072	586072 - N	300067731	300067728			
19	586073	586073 - N	300067723	300067705			
20	586074	586074 - N	300067723	300067705			
21	586075	586075 - N	300067723	300067705	2.3	2.8	
22	586076	586076 - N	300067730	300067732			
23	586077	586077 - N	300067730	300067732			
24	586078	586078 - N	300067730	300067732			
25	586079	586079 - N	300067724	300067711			
26	586080	586080 - N	300067724	300067711	2.1	2.6	
27	586081	586081 - N	300067724	300067711			

Name : Tarli N. Patel

Signature : *T. Patel*

Title : Quality Control Manager

Date : 05/29/01



**Engineered Synthetic
Products, Inc.**

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 3
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project :

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1803	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586055 - N	K101108	0.945	0.235	227	2.4	70	
586056 - N	K101108	0.945					
586057 - N	K101108	0.945					
586058 - N	K101108	0.945					
586059 - N	K101108	0.945					
586060 - N	K101108	0.945	0.231	223	2.1	63	
586061 - N	K101108	0.945					
586062 - N	K101108	0.945					
586063 - N	K101108	0.945					
586064 - N	K101108	0.945					
586065 - N	K101108	0.945	0.236	225	2.5	68	1.80X10 ⁻³
586066 - N	K101108	0.945					
586067 - N	K101108	0.945					
586068 - N	K101108	0.945					
586069 - N	K101108	0.945					
586070 - N	K101108	0.945	0.228	221	2.3	65	
586071 - N	K101108	0.945					
586072 - N	K101108	0.945					
586073 - N	K101108	0.945					
586074 - N	K101108	0.945					
586075 - N	K101108	0.945	0.234	223	2.1	67	
586076 - N	K101108	0.945					
586077 - N	K101108	0.945					
586078 - N	K101108	0.945					
586079 - N	K101108	0.945					
586080 - N	K101108	0.945	0.233	226	2.5	70	
586081 - N	K101108	0.945					

Name : Tarli N. Patel Signature : *T. Patel*
Title : Quality Control Manager Date : 05/29/01



Engineered Synthetic
Products, Inc.

SKAFS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # **2**
Product : **TN220-2-6**
Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissivity (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586082	586082 - N	300067419	300066586			
2	586083	586083 - N	300067419	300066586			
3	586084	586084 - N	300067419	300066586			
4	586085	586085 - N	300067401	300067390	2.2	2.6	
5	586086	586086 - N	300067401	300067390			
6	586087	586087 - N	300067401	300067390			
7	586088	586088 - N	300066596	300066591			
8	586089	586089 - N	300066596	300066591			
9	586090	586090 - N	300066596	300066591	2.1	2.4	
10	586091	586091 - N	300067403	300067398			
11	586092	586092 - N	300067403	300067398			
12	586093	586093 - N	300067403	300067398			
13	586094	586094 - N	300067421	300066588			
14	586095	586095 - N	300067421	300066588	2.3	2.6	4.55X10 ⁻⁴
15	586096	586096 - N	300067421	300066588			
16	586097	586097 - N	300067410	300067399			
17	586098	586098 - N	300067410	300067399			
18	586099	586099 - N	300067410	300067399			
19	586100	586100 - N	300067414	300067418	2.2	2.5	
20	586101	586101 - N	300067414	300067418			
21	586102	586102 - N	300067414	300067418			
22	586103	586103 - N	300067397	300067404			
23	586104	586104 - N	300067397	300067404			
24	586105	586105 - N	300067397	300067404	2.1	2.4	
25	586106	586106 - N	300067416	300067384			
26	586107	586107 - N	300067416	300067384			
27	586108	586108 - N	300067416	300067384			

Name : Tarli N. Patel

Signature : *T. Patel*

Title : Quality Control Manager

Date : 05/29/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 4
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project :

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb./ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586082 - N	K101108	0.945					
586083 - N	K101108	0.945					
586084 - N	K101108	0.945					
586085 - N	K101108	0.945	0.231	224	2.3	66	
586086 - N	K101108	0.945					
586087 - N	K101108	0.945					
586088 - N	K101108	0.945					
586089 - N	K101108	0.945					
586090 - N	K101108	0.945	0.237	226	2.5	71	
586091 - N	K101108	0.945					
586092 - N	K101108	0.945					
586093 - N	K101108	0.945					
586094 - N	K101108	0.945					
586095 - N	K101108	0.945	0.229	221	2.4	68	
586096 - N	K101108	0.945					
586097 - N	K101108	0.945					
586098 - N	K101108	0.945					
586099 - N	K101108	0.945					
586100 - N	K101108	0.945	0.234	225	2.2	64	1.73X10 ⁻³
586101 - N	K101108	0.945					
586102 - N	K101108	0.945					
586103 - N	K101108	0.945					
586104 - N	K101108	0.945					
586105 - N	K101108	0.945	0.227	221	2.4	67	
586106 - N	K101108	0.945					
586107 - N	K101108	0.945					
586108 - N	K101108	0.945					

Name : Tarli N. Patel Signature : T. Patel
Title : Quality Control Manager Date : 05/29/01



Engineered Synthetic
Products, Inc.

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 5
Product : TN220-2-6

Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number	Geotextile Geonet Adhesion (lb./in.) ASTM D413	Transmissivity (m ² /sec) ASTM D4716
1	586109	586109 - N	300066592	300067417	2.1
2	586110	586110 - N	300066592	300067417	2.6
3	586111	586111 - N	300066592	300067417	
4	586112	586112 - N	300067411	300067379	
5	586113	586113 - N	300067411	300067379	
6	586114	586114 - N	300067411	300067379	
7	586115	586115 - N	300066589	300067406	2.5
8	586116	586116 - N	300066589	300067406	
9	586117	586117 - N	300066589	300067406	
10	586118	586118 - N	300067385	300067396	
11	586119	586119 - N	300067385	300067396	
12	586120	586120 - N	300067385	300067396	2.7
13	586121	586121 - N	300067407	300068678	
14	586122	586122 - N	300067407	300068678	
15	586123	586123 - N	300067407	300068678	
16	586124	586124 - N	300068680	300068676	
17	586125	586125 - N	300068680	300068676	2.2
18	586126	586126 - N	300068680	300068676	3.75X10 ⁻⁴
19	586127	586127 - N	300068675	300068679	
20	586128	586128 - N	300068675	300068679	
21	586129	586129 - N	300068675	300068679	
22	586130	586130 - N	300069250	300069252	2.4
23	586131	586131 - N	300069250	300069252	
24	586132	586132 - N	300069250	300069252	
25	586133	586133 - N	300069259	300069245	
26	586134	586134 - N	300069259	300069245	
27	586135	586135 - N	300069259	300069245	2.5

Name : Tari N. Patel
Signature : *Tari N. Patel*

Quality Control Manager

Date :

05/29/01



Engineered Synthetic
Products Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 5
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb./ft. ²) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586109 - N	K101108	0.945					
586110 - N	K101108	0.945	0.238	229	2.4	70	
586111 - N	K101108	0.945					
586112 - N	K101108	0.945					
586113 - N	K101108	0.945					
586114 - N	K101108	0.945					
586115 - N	K101108	0.945	0.231	223	2.2	64	
586116 - N	K101108	0.945					
586117 - N	K101108	0.945					
586118 - N	K101108	0.945					
586119 - N	K101108	0.945					
586120 - N	K101108	0.945	0.233	224	2.6	69	1.77X10 ⁻³
586121 - N	K101108	0.945					
586122 - N	K101108	0.945					
586123 - N	K101108	0.945					
586124 - N	K101108	0.945					
586125 - N	K101108	0.945	0.235	227	2.2	65	
586126 - N	K101108	0.945					
586127 - N	K101108	0.945					
586128 - N	K101108	0.945					
586129 - N	K101108	0.945					
586130 - N	K101108	0.945	0.230	223	2.5	70	
586131 - N	K101108	0.945					
586132 - N	K101108	0.945					
586133 - N	K101108	0.945					
586134 - N	K101108	0.945					
586135 - N	K101108	0.945	0.231	225	2.4	63	

Name : Tarli N. Patel

Signature : *T. Patel*

Title : Quality Control Manager

Date : 05/29/01





9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-949-6222

May 24, 2001
REF: TNS E060
Quantity Shipped: 27 rolls
BOL#: 000505823

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	60
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	1/sec	1.63
Water Flow	ASTM D 4491	gpm/sq.ft.	125
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	45

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

DATE: 5/24/01

TNS MILLS, INC.
NONWOVEN QUALITY DATA
FOR BOL# 000505823

PAGE: 1
INQD001R

ROLL #	STYL	WDT	LG	FABR WGHT	THCK	GRAB MD	GRAB XMD	ELNG MD	ELNG XMD	TRAP MD	TRAP XMD	PUNC REST	BRST STRG	FLOW RATE	PERM -ABL	PERM -ITY	AOS
300067679	E060	180	900	7.2	107	221	215	77	88	113	129	118	369	171	.710	2.68	80
300067710	E060	180	900	6.4	101	176	184	67	74	84	110	104	367	165	.640	2.60	120
300067739	E060	180	900	6.9	102	198	201	78	88	90	103	113	359	154	.650	2.41	120
300067746	E060	180	900	6.9	102	198	201	78	88	90	103	113	359	154	.650	2.41	120
300067721	E060	180	900	6.4	101	176	184	67	74	84	110	104	367	165	.640	2.60	120
300067704	E060	180	900	6.4	101	176	184	67	74	84	110	104	367	165	.640	2.60	120
300067678	E060	180	900	6.5	107	199	192	75	89	113	129	103	356	171	.710	2.68	80
300067718	E060	180	900	6.4	101	176	184	67	74	84	110	104	367	165	.640	2.60	120
300067674	E060	180	900	6.5	107	199	192	75	89	113	129	103	356	171	.710	2.68	80
300067677	E060	180	900	6.5	107	199	192	75	89	113	129	103	356	171	.710	2.68	80
300067676	E060	180	900	6.5	107	199	192	75	89	113	129	103	356	171	.710	2.68	80
300067673	E060	180	900	6.5	107	199	192	75	89	113	129	103	356	171	.710	2.68	80
300067691	E060	180	900	7.2	107	221	215	77	88	113	129	118	369	171	.710	2.68	80
300067713	E060	180	900	6.4	101	176	184	67	74	84	110	104	367	165	.640	2.60	120
300067685	E060	180	900	7.2	107	221	215	77	88	113	129	118	369	171	.710	2.68	80
300067686	E060	180	900	7.2	107	221	215	77	88	113	129	118	369	171	.710	2.68	80
300067699	E060	180	900	6.4	104	208	193	76	84	100	129	101	352	165	.640	2.60	120
300067744	E060	180	900	6.9	102	198	201	78	88	90	103	113	359	154	.650	2.41	120
300067740	E060	180	900	6.9	102	198	201	78	88	90	103	113	359	154	.650	2.41	120
300067694	E060	180	900	6.1	105	189	183	76	88	100	129	95	352	165	.640	2.60	120
300067693	E060	180	900	6.1	105	189	183	76	88	100	129	95	352	165	.640	2.60	120
300067692	E060	180	900	7.2	107	221	215	77	88	113	129	118	369	171	.710	2.68	80
300067738	E060	180	900	6.4	101	176	184	67	74	84	110	104	367	165	.640	2.60	120
300067742	E060	180	900	6.9	102	198	201	78	88	90	103	113	359	154	.650	2.41	120
300067745	E060	180	900	6.9	102	198	201	78	88	90	103	113	359	154	.650	2.41	120
300067741	E060	180	900	6.9	102	198	201	78	88	90	103	113	359	154	.650	2.41	120
300067703	E060	180	900	6.4	101	176	184	67	74	84	110	104	367	165	.640	2.60	120

TOTAL NUMBER OF ROLLS 27

N-2004



9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 884-949-8222

May 15, 2001
REF: TNS E060
Quantity Shipped: 27 rolls
BOL#: 000505802

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M A R V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	1/sec	1.63
Water Flow	ASTM D 4491	gpm/sq ft	125
U.V Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	.45

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

ADD 1 000 1911AEM

DATE: 5/15/01

TNS MILLS, INC.
NONWOVEN QUALITY DATA
FOR BOLL 000505802PAGE: 1
INQ0001H

ROLL #	STYLE	WIDT INCH	FAUK WGHT	THICK	GRAB MD	GRAB KMD	ELNG MD	ELNG KMD	TRAP MD	TRAP KMD	PUNC HST	BRST STRG	FLOW RATE	PERM -ABL	PERM ITY	ADS
300067737	E060	180 900	6.5	103	186	194	71	83	90	103	111	355	154	.650	2.41	120
300067725	E060	180 900	6.5	106	216	192	75	82	84	110	105	355	165	.640	2.60	120
300067731	E060	180 900	6.6	107	202	207	75	87	90	103	101	351	154	.650	2.41	120
300067722	E060	180 900	6.5	106	216	192	75	82	84	110	105	355	165	.640	2.60	120
300067735	E060	180 900	6.5	103	186	194	71	83	90	103	111	355	154	.650	2.41	120
300067717	E060	180 900	6.7	105	182	195	68	79	84	110	106	365	165	.640	2.60	120
300067714	E060	180 900	6.5	103	186	194	71	83	90	103	111	355	154	.650	2.41	120
300067733	E060	180 900	6.5	103	186	194	71	83	90	103	111	355	154	.650	2.41	120
300067715	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120
300067708	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120
300067711	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120
300067729	E060	180 900	6.6	107	202	207	75	87	90	103	101	351	154	.650	2.41	120
300067706	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120
300067723	E060	180 900	6.5	106	216	192	75	82	84	110	105	355	165	.640	2.60	120
300067736	E060	180 900	6.5	103	186	194	71	83	90	103	111	355	154	.650	2.41	120
300067726	E060	180 900	6.5	106	216	192	75	82	84	110	105	355	165	.640	2.60	120
300067732	E060	180 900	6.6	107	202	207	75	87	90	103	101	351	154	.650	2.41	120
300067724	E060	180 900	6.5	106	216	192	75	82	84	110	105	355	165	.640	2.60	120
300067719	E060	180 900	6.7	105	182	195	68	79	84	110	106	365	165	.640	2.60	120
300067716	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120
300067728	E060	180 900	6.6	107	202	207	75	87	90	103	101	351	154	.650	2.41	120
300067727	E060	180 900	6.6	107	202	207	75	87	90	103	101	351	154	.650	2.41	120
300067714	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120
300067705	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120
300067707	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120
300067730	E060	180 900	6.6	107	202	207	75	87	90	103	101	351	154	.650	2.41	120
300067709	E060	180 900	6.4	104	208	193	76	84	100	129	101	350	165	.640	2.60	120

TOTAL NUMBER OF ROLLS 27



9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-949-6222

May 18, 2001
REF: TNS E060
Quantity Shipped: 27 rolls
BOL#: 000505851

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq. ft.	125
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	45

Marshall O. Gaddy
Marshall O. Gaddy
Quality Control Manager

DATE: 5/18/01

TNS MILLS, INC.
NONWOVEN QUALITY DATA
FOR ROLLS 000505851

PAGE: 1
IN00001R

May 13 2001 3:13PM

No. 1513 P. 2

ROLL #	S'YD.	WDT	LG	FAIR	THICK	GRAB	GRAB	GRAB	KLING	KLING	TRAP	TRAP	PUNC	BRST	FLOW	PERM	PERM	ADS
				WGHT		MD	MD	MD	MD	MD	MD	MD	REST	STRG	RATE	-ABL	-ITY	
300066596	E060	180	900	6.8	117	198	198	198	74	90	75	103	106	166	198	.980	3.11	120
300067419	E060	180	900	6.7	114	172	189	174	72	89	75	100	105	358	170	.780	2.67	100
300067401	E060	180	900	6.5	108	165	174	174	74	89	76	106	111	361	170	.780	2.67	100
300066588	E060	180	900	6.8	117	198	198	198	74	90	75	103	106	366	198	.980	3.11	120
300066592	E060	180	900	6.8	117	198	198	198	74	90	75	103	106	366	198	.980	3.11	120
300066586	E060	180	900	6.7	114	172	189	174	72	89	75	100	105	358	170	.780	2.67	100
300066589	E060	180	900	6.8	117	198	198	198	74	90	75	103	106	365	198	.980	3.11	120
300067404	E060	180	900	6.4	109	164	181	181	68	90	76	106	105	365	170	.780	2.67	100
300067410	E060	180	900	6.4	110	170	180	180	74	91	75	100	103	373	170	.780	2.67	100
300067390	E060	180	900	6.5	113	192	194	194	76	88	87	121	96	387	175	.800	2.74	100
300067417	E060	180	900	6.7	114	172	189	174	72	89	75	100	105	358	170	.780	2.67	100
300067399	E060	180	900	6.5	108	165	174	174	74	89	76	106	111	361	170	.780	2.67	100
300067379	E060	180	900	6.6	113	196	202	202	80	92	87	121	107	358	175	.800	2.74	100
300067416	E060	180	900	6.7	114	172	189	174	72	89	75	100	105	358	170	.780	2.67	100
300067403	E060	180	900	6.5	108	165	174	174	74	89	76	106	111	361	170	.780	2.67	100
300067397	E060	180	900	6.4	110	170	180	180	74	91	75	100	103	373	170	.780	2.67	100
300067389	E060	180	900	6.8	114	193	182	182	72	88	76	106	114	360	170	.780	2.67	100
300066591	E060	180	900	6.5	113	192	194	194	76	88	87	121	96	387	175	.800	2.74	100
300067396	E060	180	900	6.8	117	198	198	198	74	90	75	103	106	366	198	.980	3.11	120
300067384	E060	180	900	6.5	113	192	194	182	72	88	75	106	114	360	170	.780	2.67	100
300067406	E060	180	900	6.4	109	164	181	181	68	90	76	106	105	365	170	.780	2.67	100
300067418	E060	180	900	6.7	114	172	189	174	72	89	75	100	105	358	170	.780	2.67	100
300067407	E060	180	900	6.4	109	164	181	181	68	90	76	106	105	365	170	.780	2.67	100
300067411	E060	180	900	6.4	110	170	180	180	74	91	75	100	103	373	170	.780	2.67	100
300067385	E060	180	900	6.5	113	192	194	194	76	88	87	121	96	387	175	.800	2.74	100
300067421	E060	180	900	6.7	114	172	189	174	72	89	75	100	105	358	170	.780	2.67	100

TOTAL NUMBER OF ROLLS 27



9655 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-848-6222

May 25, 2001
REF: TNS E060
Quantity Shipped: 27 rolls
BOL#: 000506026

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	60
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq. ft.	125
U V Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	45

Marshall O. Gaddy
Marshall O. Gaddy
Quality Control Manager

000506026

May 29 2001 1:18PM

DATE: 5/29/01

TSS MILLS, INC.
NONWOVEN QUALITY DATA
FOR ROLLS 000506026PAGE: 1
1M000012

May 29 2001 1:13PM

No.2142 P. 2/2

ROLL #	STYL	WDT	LNG	FABR WGHT	THCK	GRAB MD	GRAB XMD	ELNG MD	ELNG XMD	TRAP MD	TRAP XMD	FUNC REST	BRST STRG	FLOW RATE	PERM -ABL	PERM -ITY	AOS
300068318	E060	180	900	6.8	105	192	212	80	91	87	127	106	352	154	.650	2.41	120
300068322	E060	180	900	6.8	105	192	212	80	91	87	127	106	352	154	.650	2.41	120
300068678	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300068679	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300068311	E060	180	900	6.8	105	192	212	80	91	87	127	106	352	154	.650	2.41	120
300069244	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069245	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069249	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069247	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069253	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069258	E060	180	900	7.0	137	167	186	80	99	67	68	104	364	170	.780	2.67	80
300069262	E060	180	900	6.6	137	171	180	69	83	67	68	100	361	170	.780	2.67	80
300069260	E060	180	900	7.0	137	167	186	80	99	67	68	104	364	170	.780	2.67	80
300068680	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300068312	E060	180	900	6.8	105	192	212	80	91	87	127	106	352	154	.650	2.41	120
300068677	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300068676	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300068675	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300068341	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069246	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069251	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069250	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069248	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069252	E060	180	900	6.5	108	180	198	72	95	87	101	99	366	167	.740	2.63	120
300069259	E060	180	900	7.0	137	167	186	80	99	67	68	104	364	170	.780	2.67	80
300069264	E060	180	900	6.6	137	171	180	69	83	67	68	100	361	170	.780	2.67	80
300069263	E060	180	900	6.6	137	171	180	69	83	67	68	100	361	170	.780	2.67	80

TOTAL NUMBER OF ROLLS 27

SKAPS Industries

SKAPS Industries
571 Industrial Pkwy
Commerce, GA

Phone: 706-336-7000
Fax: 706-336-7007

ROLLS 586136-586270

Wednesday June 20, 2001
Babcock Highway Supply, Inc.
565 County Route 51A
Oswego, NY 13126

Ref. : Cortland County Landfill McGraw, NY
Transnet 220-2-6 Geocomposite
Shipper #

We certify that the Transnet 220-2-6 double sided drainage composite, shipped on the above Shipper No., meets the project requirements as stated in the specifications. The properties listed in this section include :

Net Property	Test Method	Unit	Minimum Required Value
Mass per Unit Area	ASTM D 5261	lbs/ft ²	0.162
Thickness	ASTM D 5199	inches	.22/- .022
Carbon Black	ASTM D 1603	%	2
Tensile Strength	ASTM D 5035	lb/in	50
Melt Flow	ASTM D 1238	g/10min	1.0max
Density	ASTM D 1505	g/cm ³	0.940
Transmissivity*	ASTM D 4716	m2/s	1.0 X10 ⁻³ *
Composite Property	Test Method	Unit	Minimum Required Value
Ply Adhesion	ASTM D 413	lb/in	1.0
Transmissivity*	ASTM D 4716	m2/s	2.2X10 ⁻⁴ *
Fabric Property	Test Method	Unit	MARV
Fabric Weight	ASTM D 5261	oz/yd ²	6
Grab Strength	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Tear Strength	ASTM D 4533	lbs	65
Puncture Resistance	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
Water Flow Rate	ASTM D 4491	gpm/ft ²	125
Permittivity	ASTM D 4491	1/sec	1.63
Permeability	ASTM D 4491	cm/sec	0.45
AOS	ASTM D 4751	US Sieve	80

* Transmissivity measured using water 20 Degree C (68 degree F) with a gradient of 1.0 and a confining pressure of 15000 psf, between two steel plates after 1 hour.

• Transmissivity measured using water 20 Degree C (68 degree F) with a gradient of 0.1 and a confining pressure of 2000 psf, between two steel plates after 15min.

Sincerely,


Darli Patel

QA Manager

**Engineered Synthetic
Products, Inc.**

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 6
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissivity (m ² /sec)
			Top	Bottom	Minimum	Average	ASTM D4716
1	586136	586136 - N	300069260	300069253	2.1	2.7	
2	586137	586137 - N	300069260	300069253			
3	586138	586138 - N	300069260	300069253			
4	586139	586139 - N	300069246	300069263			
5	586140	586140 - N	300069246	300069263	2.2	2.6	
6	586141	586141 - N	300069246	300069263			
7	586142	586142 - N	300069258	300068318			
8	586143	586143 - N	300069258	300068318			
9	586144	586144 - N	300069258	300068318			
10	586145	586145 - N	300068677	300069249	2.3	2.8	
11	586146	586146 - N	300068677	300069249			
12	586147	586147 - N	300068677	300069249			
13	586148	586148 - N	300068311	300069251			
14	586149	586149 - N	300068311	300069251			
15	586150	586150 - N	300068311	300069251	2.2	2.5	5.80X10 ⁻⁴
16	586151	586151 - N	300069244	300069264			
17	586152	586152 - N	300069244	300069264			
18	586153	586153 - N	300069244	300069264			
19	586154	586154 - N	300069262	300068322			
20	586155	586155 - N	300069262	300068322	2.4	2.9	
21	586156	586156 - N	300069262	300068322			
22	586157	586157 - N	300069248	300069247			
23	586158	586158 - N	300069248	300069247			
24	586159	586159 - N	300069248	300069247			
25	586160	586160 - N	300068341	300068312	2.1	2.4	
26	586161	586161 - N	300068341	300068312			
27	586162	586162 - N	300068341	300068312			

Name : Tarli N. Patel

Signature :

T. Patel

Title : Quality Control Manager

Date :

06/21/01



Engineered Synthetic Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 6
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586136 - N	52004	0.943					
586137 - N	52004	0.943					
586138 - N	52004	0.943					
586139 - N	52004	0.943					
586140 - N	52004	0.943	0.231	223	2.3	67	
586141 - N	52004	0.943					
586142 - N	52004	0.943					
586143 - N	52004	0.943					
586144 - N	52004	0.943					
586145 - N	52004	0.943	0.234	225	2.2	64	1.67X10 ⁻³
586146 - N	52004	0.943					
586147 - N	52004	0.943					
586148 - N	52004	0.943					
586149 - N	52004	0.943					
586150 - N	52004	0.943	0.229	221	2.6	71	
586151 - N	52004	0.943					
586152 - N	52004	0.943					
586153 - N	52004	0.943					
586154 - N	52004	0.943					
586155 - N	52004	0.943	0.235	225	2.3	65	
586156 - N	52004	0.943					
586157 - N	52004	0.943					
586158 - N	52004	0.943					
586159 - N	52004	0.943					
586160 - N	52004	0.943	0.228	220	2.4	66	
586161 - N	52004	0.943					
586162 - N	52004	0.943					

Name : Tari N. Patel Signature : Tari N. Patel

Title : Quality Control Manager Date : 06/21/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # Z
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissivity (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586163	586163 - N	300069307	300069292			
2	586164	586164 - N	300069307	300069292			
3	586165	586165 - N	300069307	300069292	2.3	2.7	4.89X10 ⁻⁴
4	586166	586166 - N	300069288	300069275			
5	586167	586167 - N	300069288	300069275			
6	586168	586168 - N	300069288	300069275			
7	586169	586169 - N	300069271	300069290			
8	586170	586170 - N	300069271	300069290	2.2	2.5	
9	586171	586171 - N	300069271	300069290			
10	586172	586172 - N	300069282	300069306			
11	586173	586173 - N	300069282	300069306			
12	586174	586174 - N	300069282	300069306			
13	586175	586175 - N	300069293	300069270	2.4	2.9	
14	586176	586176 - N	300069293	300069270			
15	586177	586177 - N	300069293	300069270			
16	586178	586178 - N	300069268	300069305			
17	586179	586179 - N	300069268	300069305			
18	586180	586180 - N	300069268	300069305	2.2	2.6	
19	586181	586181 - N	300069287	300069283			
20	586182	586182 - N	300069287	300069283			
21	586183	586183 - N	300069287	300069283			
22	586184	586184 - N	300069285	300069272			
23	586185	586185 - N	300069285	300069272	2.1	2.4	
24	586186	586186 - N	300069285	300069272			
25	586187	586187 - N	300069286	300069284			
26	586188	586188 - N	300069286	300069284			

Name : Tarli N. Patel

Signature : T. Patel

Title : Quality Control Manager

Date :

06/21/01



**Engineered Synthetic
Products, Inc.**

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 7
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project :

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586163 - N	52004	0.943					
586164 - N	52004	0.943					
586165 - N	52004	0.943	0.229	221	2.4	65	
586166 - N	52004	0.943					
586167 - N	52004	0.943					
586168 - N	52004	0.943					
586169 - N	52004	0.943					
586170 - N	52004	0.943	0.231	223	2.1	63	
586171 - N	52004	0.943					
586172 - N	52004	0.943					
586173 - N	52004	0.943					
586174 - N	52004	0.943					
586175 - N	52004	0.943	0.227	220	2.4	66	1.72X10 ⁻³
586176 - N	52004	0.943					
586177 - N	52004	0.943					
586178 - N	52004	0.943					
586179 - N	52004	0.943					
586180 - N	52004	0.943	0.233	224	2.5	68	
586181 - N	52004	0.943					
586182 - N	52004	0.943					
586183 - N	52004	0.943					
586184 - N	52004	0.943					
586185 - N	52004	0.943	0.235	226	2.3	65	
586186 - N	52004	0.943					
586187 - N	52004	0.943					
586188 - N	52004	0.943					
586189 - N	52004	0.943					

Name : Tarli N. Patel Signature : *Tarli N. Patel*
Title : Quality Control Manager Date : 06/21/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 8
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissivity (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586190	586190 - N	300069294	300069279	2.2	2.8	
2	586191	586191 - N	300069294	300069279			
3	586192	586192 - N	300069294	300069279			
4	586193	586193 - N	300069269	300069280			
5	586194	586194 - N	300069269	300069280			
6	586195	586195 - N	300069269	300069280	2.1	2.6	
7	586196	586196 - N	300069281	300069289			
8	586197	586197 - N	300069281	300069289			
9	586198	586198 - N	300069281	300069289			
10	586199	586199 - N	300069273	300069291			
11	586200	586200 - N	300069273	300069291	2.3	2.8	3.95X10 ⁻⁴
12	586201	586201 - N	300069273	300069291			
13	586202	586202 - N	300069274	300061385			
14	586203	586203 - N	300069274	300061385			
15	586204	586204 - N	300069274	300061385			
16	586205	586205 - N	300061394	300061382	2.4	2.7	
17	586206	586206 - N	300061394	300061382			
18	586207	586207 - N	300061394	300061382			
19	586208	586208 - N	300061368	300061356			
20	586209	586209 - N	300061368	300061356			
21	586210	586210 - N	300061368	300061356	2.2	2.9	
22	586211	586211 - N	300061367	300061381			
23	586212	586212 - N	300061367	300061381			
24	586213	586213 - N	300061367	300061381			
25	586214	586214 - N	300061390	300061365			
26	586215	586215 - N	300061390	300061365	2.4	3.0	
27	586216	586216 - N	300061390	300061365			

Name : Tari N. Patel

Signature : Tari N. Patel

Title : Quality Control Manager

Date : 06/21/01



Engineered Synthetic Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # **8**
Product : **TN220-2-6**
Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586190 - N	52004	0.943	0.235	225	2.3	67	
586191 - N	52004	0.943					
586192 - N	52004	0.943					
586193 - N	52004	0.943					
586194 - N	52004	0.943					
586195 - N	52004	0.943	0.229	220	2.4	69	
586196 - N	52004	0.943					
586197 - N	52004	0.943					
586198 - N	52004	0.943					
586199 - N	52004	0.943					
586200 - N	52004	0.943	0.230	0.221	2.6	71	
586201 - N	52004	0.943					
586202 - N	52004	0.943					
586203 - N	52004	0.943					
586204 - N	52004	0.943					
586205 - N	52004	0.943	0.228	222	2.4	66	1.66X10 ⁻³
586206 - N	52004	0.943					
586207 - N	52004	0.943					
586208 - N	52004	0.943					
586209 - N	52004	0.943					
586210 - N	52004	0.943	0.232	224	2.2	63	
586211 - N	52004	0.943					
586212 - N	52004	0.943					
586213 - N	52004	0.943					
586214 - N	52004	0.943					
586215 - N	52004	0.943	0.231	223	2.5	67	
586216 - N	52004	0.943					

Name : Tarli N. Patel Signature : *Tarli*
Title : Quality Control Manager Date : 06/21/01



Engineered Synthetic
Products, Inc.

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571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 9
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivity (m ² /sec)
			Top	Bottom	Minimum	Average	ASTM D4716
1	586217	586217 - N	300068327	300068351			
2	586218	586218 - N	300068327	300068351			
3	586219	586219 - N	300068327	300068351			
4	586220	586220 - N	300068331	300068333	2.2	2.8	
5	586221	586221 - N	300068331	300068333			
6	586222	586222 - N	300068331	300068333			
7	586223	586223 - N	300068329	300068352			
8	586224	586224 - N	300068329	300068352			
9	586225	586225 - N	300068329	300068352	2.3	2.9	
10	586226	586226 - N	300068354	300068340			
11	586227	586227 - N	300068354	300068340			
12	586228	586228 - N	300068354	300068340			
13	586229	586229 - N	300068330	300068334			
14	586230	586230 - N	300068330	300068334	2.2	2.6	5.15X10 ⁻⁴
15	586231	586231 - N	300068330	300068334			
16	586232	586232 - N	300068328	300068338			
17	586233	586233 - N	300068328	300068338			
18	586234	586234 - N	300068328	300068338			
19	586235	586235 - N	300068353	300068350	2.1	2.4	
20	586236	586236 - N	300068353	300068350			
21	586237	586237 - N	300068353	300068350			
22	586238	586238 - N	300068348	300068349			
23	586239	586239 - N	300068348	300068349			
24	586240	586240 - N	300068348	300068349	2.3	2.7	
25	586241	586241 - N	300068356	300068324			
26	586242	586242 - N	300068356	300068324			
27	586243	586243 - N	300068356	300068324			

Name : Tarli N. Patel

Signature : *T. Patel*

Title : Quality Control Manager

Date : 06/21/01



Engineered Synthetic Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 9
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586217 - N	52004	0.943					
586218 - N	52004	0.943					
586219 - N	52004	0.943					
586220 - N	52004	0.943	0.229	223	2.4	68	
586221 - N	52004	0.943					
586222 - N	52004	0.943					
586223 - N	52004	0.943					
586224 - N	52004	0.943					
586225 - N	52004	0.943	0.231	222	2.1	63	1.83X10 ⁻³
586226 - N	52004	0.943					
586227 - N	52004	0.943					
586228 - N	52004	0.943					
586229 - N	52004	0.943					
586230 - N	52004	0.943	0.233	225	2.5	68	
586231 - N	52004	0.943					
586232 - N	52004	0.943					
586233 - N	52004	0.943					
586234 - N	52004	0.943					
586235 - N	52004	0.943	0.231	224	2.3	65	
586236 - N	52004	0.943					
586237 - N	52004	0.943					
586238 - N	52004	0.943					
586239 - N	52004	0.943					
586240 - N	52004	0.943	0.235	222	2.6	67	
586241 - N	52004	0.943					
586242 - N	52004	0.943					
586243 - N	52004	0.943					

Name : Tarli N. Patel Signature : *TPatel*
Title : Quality Control Manager Date : 06/21/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 10
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivity (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586244	586244 - N	300067373	300067376			
2	586245	586245 - N	300067373	300067376	2.3	2.7	
3	586246	586246 - N	300067373	300067376			
4	586247	586247 - N	300067378	300067392			
5	586248	586248 - N	300067378	300067392			
6	586249	586249 - N	300067378	300067392			
7	586250	586250 - N	300067372	300067393	2.2	2.8	
8	586251	586251 - N	300067372	300067393			
9	586252	586252 - N	300067372	300067393			
10	586253	586253 - N	300061298	300067386			
11	586254	586254 - N	300061298	300067386			
12	586255	586255 - N	300061298	300067386	2.1	2.7	
13	586256	586256 - N	300067398	300067375			
14	586257	586257 - N	300067398	300067375			
15	586258	586258 - N	300067398	300067375			
16	586259	586259 - N	300067381	300067400			
17	586260	586260 - N	300067381	300067400	2.0	2.4	4.70X10 ⁻⁴
18	586261	586261 - N	300067381	300067400			
19	586262	586262 - N	300067364	300067382			
20	586263	586263 - N	300067364	300067382			
21	586264	586264 - N	300067364	300067382			
22	586265	586265 - N	300067402	300066613	2.2	2.6	
23	586266	586266 - N	300067402	300066613			
24	586267	586267 - N	300067402	300066613			
25	586268	586268 - N	300067394	300061345			
26	586269	586269 - N	300067394	300061345			
27	586270	586270 - N	300067394	300061345	2.1	2.7	

Name : Tarli N. Patel

Signature : T. Patel

Title : Quality Control Manager

Date : 06/21/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 10
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project :

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586244 - N	52004	0.943					
586245 - N	52004	0.943	0.227	221	2.2	65	
586246 - N	52004	0.943					
586247 - N	52004	0.943					
586248 - N	52004	0.943					
586249 - N	52004	0.943					
586250 - N	52004	0.943	0.231	223	2.4	68	
586251 - N	52004	0.943					
586252 - N	52004	0.943					
586253 - N	52004	0.943					
586254 - N	52004	0.943					
586255 - N	52004	0.943	0.229	222	2.5	70	1.59X10 ⁻³
586256 - N	52004	0.943					
586257 - N	52004	0.943					
586258 - N	52004	0.943					
586259 - N	52004	0.943					
586260 - N	52004	0.943	0.235	225	2.2	67	
586261 - N	52004	0.943					
586262 - N	52004	0.943					
586263 - N	52004	0.943					
586264 - N	52004	0.943					
586265 - N	52004	0.943	0.233	222	2.4	66	
586266 - N	52004	0.943					
586267 - N	52004	0.943					
586268 - N	52004	0.943					
586269 - N	52004	0.943					
586270 - N	52004	0.943	0.229	220	2.2	64	

Name : Tarli N. Patel Signature : T Patel
Title : Quality Control Manager Date : 06/21/01







9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-887-5181
fax: 864-949-8222

May 25, 2001
REF: TNS E060
Quantity Shipped: 27 rolls
BOL#: 000506026

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq.ft.	125
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	.45

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

PAGE: 1
INQD001R

No. 2142 P. 2/3

[illegible]

TOTAL NUMBER OF ROLLS 27



8855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-948-6222

May 25, 2001
REF: TNS E060
Quantity Shipped: 27 rolls
BOL#: 000506027

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq ft.	125
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	.45

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

ROLL #	STYL	WDT	LNG	FABR	THICK	GRAB	GRAB	GRAB	KLNG	KLNG	TRAP	TRAP	PUNC	BEST	FLOW	PERM	FERM	AOS
				WGT		MD	XND	XND	MD	MD	MD	XND	REST	STEG	RATE	-ASU	-ITY	
300069268	E060	180	900	6.6	137	171	180	180	69	83	67	68	100	361	170	780	2.67	80
300069269	E060	180	900	6.6	137	171	180	180	69	83	67	68	100	361	170	780	2.67	80
300069270	E060	180	900	6.6	137	171	180	180	69	83	67	68	100	361	170	780	2.67	80
300069271	E060	180	900	6.6	115	192	214	214	79	94	67	68	113	370	170	780	2.67	80
300069272	E060	180	900	6.6	115	192	214	214	79	94	67	68	113	370	170	780	2.67	80
300069273	E060	180	900	6.6	115	192	214	214	79	94	67	68	113	370	170	780	2.67	80
300069274	E060	180	900	6.6	115	192	214	214	79	94	67	68	113	370	170	780	2.67	80
300069275	E060	180	900	6.6	115	192	214	214	79	94	67	68	113	370	170	780	2.67	80
300069276	E060	180	900	6.6	115	192	214	214	79	94	67	68	113	370	170	780	2.67	80
300069277	E060	180	900	6.2	107	183	208	208	78	90	81	88	104	373	170	780	2.67	80
300069279	E060	180	900	6.2	107	183	208	208	78	90	81	88	104	373	170	780	2.67	80
300069280	E060	180	900	6.3	106	192	206	206	77	90	81	88	105	378	170	780	2.67	80
300069281	E060	180	900	6.3	106	192	206	206	77	90	81	88	105	378	170	780	2.67	80
300069282	E060	180	900	6.3	106	192	206	206	77	90	81	88	105	378	170	780	2.67	80
300069283	E060	180	900	6.3	106	192	206	206	77	90	81	88	105	378	170	780	2.67	80
300069284	E060	180	900	6.3	106	192	206	206	77	90	81	88	105	378	170	780	2.67	80
300069285	E060	180	900	6.3	106	192	206	206	77	90	81	88	105	378	170	780	2.67	80
300069286	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069287	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069288	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069289	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069290	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069291	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069292	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069293	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069294	E060	180	900	6.5	111	176	190	190	76	95	81	88	102	400	170	780	2.67	80
300069305	E060	180	900	6.5	110	180	199	199	77	96	81	88	105	404	154	.650	2.41	80
300069306	E060	180	900	6.5	110	180	199	199	77	96	81	88	105	404	154	.650	2.41	80
300069307	E060	180	900	6.5	110	180	199	199	77	96	81	88	105	404	154	.650	2.41	80
300069308	E060	180	900	6.5	110	180	199	199	77	96	81	88	105	404	154	.650	2.41	80



8855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-949-0222

June 13, 2001
REF. TNS E060
Quantity Shipped: 27 rolls
BOL#: 000506167

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq.ft.	125
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	.45

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

DATE: 5/14/01

TMS MILLS, INC.
NONWOVEN QUALITY DATA
FOR ROLLS 000000167

PAGE: 1
INQ00001R

ROLL #	STYL	WDT	LNG	FABR WGHT	THCK	GRAB MD	GRAB KMD	ELNG MD	ELNG KMD	TRAP MD	TRAP KMD	FUNC REST	BHST STRG	FLOW RATE	PERM -ABL	PERM -ITY	AOS
200082650	E060	180	900	7.5	100	203	257	81	80	118	87	113	379	169	.760	2.65	100
200082651	E060	180	900	7.5	100	203	257	81	80	118	87	113	379	169	.760	2.65	100
200082652	E060	180	900	7.2	100	195	222	72	72	87	118	108	353	169	.760	2.65	100
300061348	E060	180	900	6.7	119	168	177	64	85	96	103	112	360	133	.640	2.09	100
300061350	E060	180	900	7.0	116	182	181	68	81	87	97	104	377	133	.640	2.09	100
300061356	E060	180	900	6.7	117	186	184	73	82	87	97	108	364	133	.640	2.09	100
300061365	E060	180	900	6.6	113	170	176	66	86	87	97	101	360	133	.640	2.09	100
300061367	E060	180	900	6.6	113	170	176	66	86	87	97	101	360	133	.640	2.09	100
300061368	E060	180	900	6.6	113	170	176	66	86	87	97	101	360	133	.640	2.09	100
300061381	E060	180	900	6.7	116	167	180	75	95	70	81	96	350	151	.730	2.37	100
300061382	E060	180	900	6.7	116	167	180	75	95	70	81	96	350	151	.730	2.37	100
300061385	E060	180	900	6.7	116	167	180	75	95	70	81	96	350	151	.730	2.37	100
300061390	E060	180	900	7.0	119	171	178	71	91	70	81	101	366	151	.730	2.37	100
300061391	E060	180	900	7.0	119	171	178	71	91	70	81	101	366	151	.730	2.37	100
300061394	E060	180	900	6.6	116	161	171	68	83	83	102	111	357	167	.740	2.62	100
300061396	E060	180	900	6.6	116	161	171	68	83	83	102	111	357	167	.740	2.62	100
300061400	E060	180	900	7.0	121	172	176	63	83	83	102	108	382	167	.740	2.62	100
300061402	E060	180	900	7.0	122	172	176	63	83	83	102	108	382	167	.740	2.62	100
300061405	E060	180	900	7.0	122	170	193	72	92	82	115	106	355	167	.740	2.62	100
300061407	E060	180	900	7.0	122	170	193	72	92	82	115	106	355	167	.740	2.62	100
300061408	E060	180	900	7.0	122	170	193	72	92	82	115	106	355	167	.740	2.62	100
300061450	E060	180	900	7.1	117	181	169	68	91	83	110	109	395	169	.760	2.65	100
300061451	E060	180	900	7.4	120	174	193	63	83	83	111	109	395	169	.760	2.65	100
300061452	E060	180	900	7.4	120	174	193	63	83	83	111	109	395	169	.760	2.65	100
300061453	E060	180	900	7.4	120	174	193	63	83	83	111	109	395	169	.760	2.65	100
300061455	E060	180	900	7.4	120	174	193	63	83	83	111	109	395	169	.760	2.65	100
300061458	E060	180	900	7.4	120	174	193	63	83	83	111	109	395	169	.760	2.65	100

TOTAL NUMBER OF ROLLS 27

Jun 14, 2001 11:49AM

No. 3383 P. 2



9955 Greenville Highway
Building F
Spartanburg, SC 29301
800-887-8181
fax: 804-949-0222

May 22, 2001
REF: TNS E060
Quantity Shipped: 27 rolls
BOL#: 000305934

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered acid chemicals, alkalis, and oils. It is also resistant to mold. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq.ft.	125
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	.45

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

DATE: 6/21/01

TMS MILLS, INC.
NONWOVEN QUALITY DATA
FOR BOLT#000505934

PAGE: 1
INQD001R

ROLL #	STYL	WDT	LNG	FABR WGHT	THCR	GRAB MD	GRAB XMD	ELNG MD	ELNG XMD	TRAP MD	TRAP XMD	PUNC REST	HRST STRG	FLOW RATE	PERM -ABL	PERM -ITY	AOS
300068313	E060	180	900	6.8	105	192	212	80	91	87	127	106	352	154	.650	2.41	120
300068315	E060	180	900	6.8	105	192	212	80	91	87	127	106	352	154	.650	2.41	120
300068324	E060	180	900	6.9	111	206	198	75	95	88	113	102	372	167	.740	2.63	120
300068325	E060	180	900	6.9	111	206	198	75	95	88	113	102	372	167	.740	2.63	120
300068326	E060	180	900	6.9	111	206	198	75	95	88	113	102	372	167	.740	2.63	120
300068327	E060	180	900	6.9	111	206	198	75	95	88	113	102	372	167	.740	2.63	120
300068328	E060	180	900	6.9	111	206	198	75	95	88	113	102	372	167	.740	2.63	120
300068329	E060	180	900	6.4	108	187	185	75	96	88	113	102	363	167	.740	2.63	120
300068330	E060	180	900	6.4	108	187	185	75	96	88	113	102	363	167	.740	2.63	120
300068331	E060	180	900	6.4	108	187	185	75	96	88	113	102	363	167	.740	2.63	120
300068332	E060	180	900	6.4	108	187	185	75	96	88	113	102	363	167	.740	2.63	120
300068333	E060	180	900	6.4	108	187	185	75	96	88	113	102	363	167	.740	2.63	120
300068334	E060	180	900	6.4	108	187	185	75	96	88	113	102	363	167	.740	2.63	120
300068337	E060	180	900	6.4	105	199	181	73	93	87	101	99	371	167	.740	2.63	120
300068338	E060	180	900	6.4	105	199	181	73	93	87	101	99	371	167	.740	2.63	120
300068339	E060	180	900	6.4	105	199	181	73	93	87	101	99	371	167	.740	2.63	120
300068340	E060	180	900	6.4	105	199	181	73	93	87	101	99	371	167	.740	2.63	120
300068348	E060	180	900	6.8	112	206	189	81	96	87	101	99	359	167	.700	2.63	120
300068349	E060	180	900	6.8	112	206	189	81	96	87	101	99	359	167	.700	2.63	120
300068350	E060	180	900	6.8	112	206	189	81	96	87	101	99	359	167	.700	2.63	120
300068351	E060	180	900	6.8	112	206	189	81	96	87	101	99	359	167	.700	2.63	120
300068352	E060	180	900	6.8	112	206	189	81	96	87	101	99	359	167	.700	2.63	120
300068353	E060	180	900	6.8	112	206	189	81	96	87	101	99	359	167	.700	2.63	120
300068354	E060	180	900	6.8	112	206	189	81	96	87	101	99	359	167	.700	2.63	120
300068355	E060	180	900	6.3	109	181	181	75	89	100	106	101	359	165	.700	2.59	80
300068356	E060	180	900	6.3	109	181	181	75	89	100	106	101	359	165	.700	2.59	80
300068357	E060	180	900	6.3	109	181	181	75	89	100	106	101	359	165	.700	2.59	80

TOTAL NUMBER OF ROLLS 27

Jun-21-2001 2:42PM



9855 Greenway Highway
Building F
Spartanburg, SC 29301
800-867-8181
fax: 864-949-8222

May 21, 2001
REF: TNS E060
Quantity Shipped: 27 rolls
BOL#: 000505837

Skaps Industries
571 Industrial Parkway
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS E060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS E060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS E060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 5261	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq. ft.	125
U.V. Resistance	ASTM D 4355	% retained	70
Permeability	ASTM D 4491	cm/sec	.45

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

DATE: 5/21/01

TEX. MILLS, INC.
NONWOVEN QUALITY DATA
FOR BOLA-000505637

PAGE: 1
INQ0001R

ROLL #	STYL	WDT	LNG	FABR WGHT	THCK	GRAB MD	GRAB IND	XLNG MD	ELNG MD	TRAP MD	TRAP XND	PUNC RST	BRST STRG	FLOW RATE	PERM -ABL	PERM -JTY	AOS
300067409	E060	180	900	6.4	109	164	181	68	90	76	106	105	365	170	.780	2.67	100
300067373	E060	180	900	6.7	117	191	209	81	92	77	98	109	365	175	.800	2.74	100
300067413	E060	180	900	6.4	110	170	180	74	91	75	100	103	373	170	.780	2.67	100
300067408	E060	180	900	6.4	109	164	181	68	90	76	106	105	365	170	.780	2.67	100
300067391	E060	180	900	6.5	113	192	194	76	88	87	121	96	387	175	.800	2.74	100
300067385	E060	180	900	6.5	113	192	194	76	88	87	121	96	387	175	.800	2.74	100
300067400	E060	180	900	6.5	108	165	174	74	89	76	106	111	361	170	.780	2.67	100
300067369	E060	180	900	6.6	115	194	191	79	92	77	98	106	360	175	.800	2.74	100
300067412	E060	180	900	6.4	110	170	180	74	91	75	100	103	373	170	.780	2.67	100
300067322	E060	180	900	6.8	114	193	182	72	88	76	106	114	360	170	.780	2.67	100
300067402	E060	180	900	6.5	108	165	174	74	89	76	106	111	361	170	.780	2.67	100
300067382	E060	180	900	6.6	113	196	202	80	92	87	121	107	358	175	.800	2.74	100
300067376	E060	180	900	6.6	113	196	202	80	92	87	121	107	358	175	.800	2.74	100
300067394	E060	180	900	6.8	114	193	182	72	88	75	106	114	360	170	.780	2.67	100
300067420	E060	180	900	6.7	114	172	189	72	89	75	100	105	358	170	.780	2.67	100
300067405	E060	180	900	6.4	109	164	181	68	90	76	106	105	365	170	.780	2.67	100
300066813	E060	180	900	6.5	101	193	185	75	90	90	118	97	357	198	.910	3.11	120
300067393	E060	180	900	6.8	114	193	182	72	88	75	106	114	360	170	.780	2.67	100
300067372	E060	180	900	6.7	117	191	209	81	92	77	98	109	365	175	.800	2.74	100
300067398	E060	180	900	6.5	108	165	174	74	89	76	106	111	361	170	.780	2.67	100
300067381	E060	180	900	6.6	113	196	202	80	92	87	121	107	358	175	.800	2.74	100
300067364	E060	180	900	6.6	115	194	191	79	92	77	98	106	360	175	.800	2.74	100
300066593	E060	180	900	6.7	118	187	197	74	87	75	103	113	378	198	.980	3.11	120
300067375	E060	180	900	6.7	117	191	209	81	92	77	98	109	365	175	.800	2.74	100
300067378	E060	180	900	6.6	113	196	202	80	92	87	121	107	358	175	.800	2.74	100
300061345	E060	180	900	6.7	117	163	173	63	78	87	97	107	376	133	.640	2.09	100
300061298	E060	180	900	7.0	116	174	176	58	75	82	91	97	384	146	.630	2.30	100

TOTAL NUMBER OF ROLLS 27

May 21, 2001 3:31PM

SKAPS Industries

SKAPS Industries
571 Industrial Pkwy
Commerce, GA

Phone: 706-336-7000
Fax: 706-336-7007

Tuesday August 07, 2001
Babcock Highway Supply, Inc.
565 County Route 51A
Oswego, NY 13126

Ref. : Cortland County Landfill McGraw, NY
Transnet 220-2-6 Geocomposite

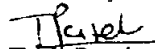
We certify that the Transnet 220-2-6 double sided drainage composite, shipped on the above Shipper No., meets the project requirements as stated in the specifications. The properties listed in this section include :

Net Property	Test Method	Unit	Minimum Required Value
Mass per Unit Area	ASTM D 5261	lbs/ft ²	0.162
Thickness	ASTM D 5199	inches	.22/- .022
Carbon Black	ASTM D 1603	%	2
Tensile Strength	ASTM D 5035	lb/in	50
Melt Flow	ASTM D 1238	g/10min	1.0max
Density	ASTM D 1505	g/cm ³	0.940
Transmissivity*	ASTM D 4716	m ² /s	1.0 X10 ⁻³ *
Composite Property	Test Method	Unit	Minimum Required Value
Ply Adhesion	ASTM D 413	lb/in	1.0
Transmissivity*	ASTM D 4716	m ² /s	2.2X10 ⁻⁴ *
Fabric Property	Test Method	Unit	MARV
Fabric Weight	ASTM D 5261	oz/yd ²	6
Grab Strength	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Tear Strength	ASTM D 4533	lbs	65
Puncture Resistance	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
Water Flow Rate	ASTM D 4491	gpm/ft ²	125
Permittivity	ASTM D 4491	l/sec	1.63
Permeability	ASTM D 4491	cm/sec	0.45
AOS	ASTM D 4751	US Sieve	80

* Transmissivity measured using water 20 Degree C (68 degree F) with a gradient of 1.0 and a confining pressure of 15000 psf, between two steel plates after 1 hour.

* Transmissivity measured using water 20 Degree C (68 degree F) with a gradient of 0.1 and a confining pressure of 2000 psf, between two steel plates after 15 min.

Sincerely,



Tarli Patel

QA Manager



SKAPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(706) 336-7000

2557

EXTERNAL REF # Cortland County Landfill
CONSIGNEE TO - 4708 Town Line Road
DESTINATION - McGraw, NY 13101

COMMENTS FROM M.R. Dave
Phone# 315/724-4062

DATE SHIPPED 8/3/01
CUST. P.O. # 6882
STATE:
INTERNAL REF # 586
MATERIAL REQ #
JOB # 586
SHIPPERS # 2557
BUS / MARKET SEQ #
TERMS:

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
2800	TN220-2-6	586440	220 NT-2 SD 6 OZ
2800	TN220-2-6	586509	220 NT-2 SD 6 OZ
3500	TN220-2-6	586520	220 NT-2 SD 6 OZ
3500	TN220-2-6	586522	220 NT-2 SD 6 OZ
3500	TN220-2-6	586523	220 NT-2 SD 6 OZ
3500	TN220-2-6	586524	220 NT-2 SD 6 OZ
3500	TN220-2-6	586525	220 NT-2 SD 6 OZ
3500	TN220-2-6	586526	220 NT-2 SD 6 OZ
3500	TN220-2-6	586527	220 NT-2 SD 6 OZ
3500	TN220-2-6	586528	220 NT-2 SD 6 OZ
3500	TN220-2-6	586529	220 NT-2 SD 6 OZ
3500	TN220-2-6	586530	220 NT-2 SD 6 OZ
3500	TN220-2-6	586531	220 NT-2 SD 6 OZ
3500	TN220-2-6	586532	220 NT-2 SD 6 OZ
3500	TN220-2-6	586533	220 NT-2 SD 6 OZ
3500	TN220-2-6	586534	220 NT-2 SD 6 OZ
3500	TN220-2-6	586535	220 NT-2 SD 6 OZ
3500	TN220-2-6	586536	220 NT-2 SD 6 OZ
3500	TN220-2-6	586537	220 NT-2 SD 6 OZ
3500	TN220-2-6	586538	220 NT-2 SD 6 OZ
3500	TN220-2-6	586539	220 NT-2 SD 6 OZ
3500	TN220-2-6	586406	220 NT-2 SD 6 OZ
3500	TN220-2-6	586434	220 NT-2 SD 6 OZ
3500	TN220-2-6	586463	220 NT-2 SD 6 OZ
3500	TN220-2-6	586492	220 NT-2 SD 6 OZ
3500	TN220-2-6	586521	220 NT-2 SD 6 OZ
3500	TN220-2-6	586540	220 NT-2 SD 6 OZ

PLEASE COLLECT
FROM THE DRIVER
2 BAG TIES

DELIVER BY

Morday
8/14/01

DRIVER

Ben

TR. CO.

F.T. Logistic

PHONE#

TOTAL

SQ.FT. 93,100

Weight: 30,108

TRUCK / CONTAINER #

SEAL #

CARRIER REF.

CARRIER NAME

CARRIER SIGN

LOAD VERIFICATION SIGNED X

TRUCKERS P.O. #

DATE: 8/3/01

SIGN HERE FOR SHIPPER

SHIPPER:

ADDRESS: 571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529

SIGN HERE FOR AGENT

OF SHIPPER

AGENT FOR SHIPPER:

Received at Commerce, GA from Skaps Industries the property described above, in apparent good order except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above, which said Carrier (the word "Carrier" being understood throughout this Shipping Order as meaning the person or corporation in possession of the property) agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any of said property, over all or a portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to either: (a) if the Shipper noted herein is Skaps Industries as indicated by the designation of "Shipper" to be Skaps Industries, then the Shipper and Carrier are subject to the terms and conditions contained in the Contract for Truck Transportation existing between the parties or (b) if the Shipper noted herein is not Skaps Industries then Skaps Industries acting solely as the agent for the denoted Shipper, and thus every aspect of the service to be performed hereunder between the Shipper and the Carrier shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) Official, Southern, Western, and Illinois Freight Classifications in effect on the date hereof, if this is a full-carrier shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. When acting in the capacity of an agent for Shipper in placing the material in transit on behalf of a Shipper, Skaps Industries accepts no liability for loss of cargo, damage to containers, or any other consequences occurring during transportation, Carrier having agreed that the transportation arrangement is initiated by the Shipper and not by Skaps Industries.

Subject to the above terms and conditions as to which party is the Shipper, Shipper hereby certifies that he is familiar with the terms and conditions that govern the transportation of this shipment, and the said terms and conditions are hereby agreed and accepted for himself and his assigns.



SKAPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(706) 338-7000

SHIPPERS NO.

2554

EXTERNAL REF # Cortland County Landfill
CONSIGNED TO - 4708 Town Line Road
DESTINATION - McGraw, NY 13101

COMMENTS FROM M.R. Dave
Phone# 315/724-4062

DATE SHIPPED 8/2/01
CUST. P.O. # 6692
STATE:
INTERNAL REF # 586
MATERIAL REQ #
JOB # 586
SHIPPERS # 2554
BUS / MARKET SEQ #
TERMS:

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
3500	TN220-2-6	586407	220 NT-2 SD 6 OZ
3500	TN220-2-6	586408	220 NT-2 SD 6 OZ
3500	TN220-2-6	586409	220 NT-2 SD 6 OZ
3500	TN220-2-6	586410	220 NT-2 SD 6 OZ
3500	TN220-2-6	586411	220 NT-2 SD 6 OZ
3500	TN220-2-6	586412	220 NT-2 SD 6 OZ
3500	TN220-2-6	586413	220 NT-2 SD 6 OZ
3500	TN220-2-6	586414	220 NT-2 SD 6 OZ
3500	TN220-2-6	586415	220 NT-2 SD 6 OZ
3500	TN220-2-6	586416	220 NT-2 SD 6 OZ
3500	TN220-2-6	586417	220 NT-2 SD 6 OZ
3500	TN220-2-6	586418	220 NT-2 SD 6 OZ
3500	TN220-2-6	586419	220 NT-2 SD 6 OZ
3500	TN220-2-6	586420	220 NT-2 SD 6 OZ
3500	TN220-2-6	586421	220 NT-2 SD 6 OZ
3500	TN220-2-6	586422	220 NT-2 SD 6 OZ
3500	TN220-2-6	586423	220 NT-2 SD 6 OZ
3500	TN220-2-6	586424	220 NT-2 SD 6 OZ
3500	TN220-2-6	586425	220 NT-2 SD 6 OZ
3500	TN220-2-6	586426	220 NT-2 SD 6 OZ
3500	TN220-2-6	586427	220 NT-2 SD 6 OZ
3500	TN220-2-6	586428	220 NT-2 SD 6 OZ
3500	TN220-2-6	586429	220 NT-2 SD 6 OZ
3500	TN220-2-6	586430	220 NT-2 SD 6 OZ
3500	TN220-2-6	586431	220 NT-2 SD 6 OZ
3500	TN220-2-6	586432	220 NT-2 SD 6 OZ
3500	TN220-2-6	586433	220 NT-2 SD 6 OZ

PLEASE COLLECT
FROM THE DRIVER
2 BAG TIES

DELIVER BY : MONDAY

DRIVER Ken

TR. CO. : TSG.

PHONE# : 1-888-252-7769

TOTAL
SQ.FT. 94,500

Weight: 30,175

TRUCK / CONTAINER #

SEAL #

CARRIER REF.

CARRIER NAME

CARRIER SIGN Brook Park Trans

LOAD VERIFICATION SIGNED X

TRUCKERS P.O. #

DATE: 8/6/01

SIGN HERE FOR SHIPPER

SHIPPER: UCR

ADDRESS:

571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529

SIGN HERE FOR AGENT
OF SHIPPER

AGENT FOR SHIPPER:

Received at Commerce, GA from Skaps Industries the property described above, in apparent good order except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above, which said Carrier (the word "Carrier" being understood throughout this Shipping Order as meaning the person or corporation in possession of the property) agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any of said property, over all or portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to either: (a) if the Shipper noted herein is Skaps Industries as indicated by the designation of "Shipper" to be Skaps Industries, then the Shipper and Carrier are subject to the terms and conditions contained in the Contract for Truck Transportation existing between the parties or (b) if the Shipper noted herein is not Skaps Industries then Skaps Industries acting solely as the agent for the consigned Shipper, and thus every aspect of the service to be performed hereunder between the Shipper and the Carrier shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) Official, Southern, Western, and Illinois Freight Classifications in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. When acting in the capacity of an agent for Shipper in placing the material in transit on behalf of a Shipper, Skaps Industries accepts no liability for loss of cargo, damage to containers, or any other consequences occurring during transportation. Carrier having agreed that the transportation arrangement is required by the Shipper and not by Skaps Industries.

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SKAPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(706) 336-7000

2886

EXTERNAL REF # Cortland County Landfill
CONSIGNED TO - 4708 Town Line Road
DESTINATION - McGraw, NY 13101

DATE SHIPPED 8/20/01
CUST. P.O. # 6892
STATE:
INTERNAL REF # 586
MATERIAL REQ #
JOB # 586
SHIPPERS # 2556
BUS / MARKET SEQ #
TERMS:

COMMENTS FROM M.R. Dave
Phone# 315/724-4062

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
3500	TN220-2-6	586462	220 NT-2 SD 6 OZ
3500	TN220-2-6	586464	220 NT-2 SD 6 OZ
3500	TN220-2-6	586465	220 NT-2 SD 6 OZ
3500	TN220-2-6	586466	220 NT-2 SD 6 OZ
3500	TN220-2-6	586467	220 NT-2 SD 6 OZ
3500	TN220-2-6	586468	220 NT-2 SD 6 OZ
3500	TN220-2-6	586469	220 NT-2 SD 6 OZ
3500	TN220-2-6	586470	220 NT-2 SD 6 OZ
3500	TN220-2-6	586472	220 NT-2 SD 6 OZ
3500	TN220-2-6	586473	220 NT-2 SD 6 OZ
3500	TN220-2-6	586474	220 NT-2 SD 6 OZ
3500	TN220-2-6	586475	220 NT-2 SD 6 OZ
3500	TN220-2-6	586476	220 NT-2 SD 6 OZ
3500	TN220-2-6	586477	220 NT-2 SD 6 OZ
3500	TN220-2-6	586478	220 NT-2 SD 6 OZ
3500	TN220-2-6	586479	220 NT-2 SD 6 OZ
3500	TN220-2-6	586480	220 NT-2 SD 6 OZ
3500	TN220-2-6	586481	220 NT-2 SD 6 OZ
3500	TN220-2-6	586482	220 NT-2 SD 6 OZ
3500	TN220-2-6	586483	220 NT-2 SD 6 OZ
3500	TN220-2-6	586484	220 NT-2 SD 6 OZ
3500	TN220-2-6	586485	220 NT-2 SD 6 OZ
3500	TN220-2-6	586486	220 NT-2 SD 6 OZ
3500	TN220-2-6	586487	220 NT-2 SD 6 OZ
3500	TN220-2-6	586488	220 NT-2 SD 6 OZ
3500	TN220-2-6	586489	220 NT-2 SD 6 OZ
3500	TN220-2-6	586490	220 NT-2 SD 6 OZ

PLEASE COLLECT
FROM THE DRIVER
2 BAG TIES

DRIVER

TR. CO. OHIO CARRIERS.

PHONE# 1800 362 66

TOTAL
SQ.FT. 94,500

Weight: 30,147

TRUCK / CONTAINER #

SEAL #

CARRIER REF.

CARRIER NAME

CARRIER SIGN

LOAD VERIFICATION SIGNED X

TRUCKERS P.O. #

DATE: 8/6/01

SIGN HERE FOR SHIPPER

SHIPPER:

ADDRESS: 571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529

SIGN HERE FOR AGENT
OF SHIPPER

AGENT FOR SHIPPER:

Received at Commerce, GA from Skaps Industries the property described above, in apparent good order except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above, which said Carrier (the word "Carrier" being understood throughout this Shipping Order as meaning the person or corporation in possession of the property) agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any of said property, over all or portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to either: (a) if the Shipper noted herein is Skaps Industries as indicated by the designation of "Shipper" to be Skaps Industries, then the Shipper and Carrier are, subject to the terms and conditions contained in the Contract for Truck Transportation existing between the parties or (b) if the Shipper noted herein is not Skaps Industries then Skaps Industries, acting solely as the agent for the denoted Shipper, and thus every aspect of the service to be performed hereunder between the Shipper and the Carrier shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth in (1) Official, Southern, Western, and Illinois Freight Classifications in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. When acting in the capacity of an agent for Shipper in placing the material in transit on behalf of a Shipper, Skaps Industries accepts no liability for loss of cargo, damage to containers, or any other consequences occurring during transportation, Carrier having agreed that the transportation arrangement created by the Shipper and not by Skaps Industries.

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SKIPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(708) 336-7000

SHIPPER NO.

2555

EXTERNAL REF # Cortland County Landfill
CONSIGNED TO 4706 Town Line Road
DESTINATION McGraw, NY 13101

COMMENTS FROM M.R. Dave
Phone# 315/724-4062

DATE SHIPPED 8/2/01
CUST. P.O. # 6892
STATE:
INTERNAL REF # 586
MATERIAL REQ #
JOB # 586
SHIPPERS # 2555
BUS / MARKET SEQ #
TERMS:

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
3500	TN220-2-8	586491	220 NT-2 SD 6 OZ
3500	TN220-2-8	586493	220 NT-2 SD 6 OZ
3500	TN220-2-8	586494	220 NT-2 SD 6 OZ
3500	TN220-2-8	586495	220 NT-2 SD 6 OZ
3500	TN220-2-8	586496	220 NT-2 SD 6 OZ
3500	TN220-2-8	586497	220 NT-2 SD 6 OZ
3500	TN220-2-8	586498	220 NT-2 SD 6 OZ
3500	TN220-2-8	586499	220 NT-2 SD 6 OZ
3500	TN220-2-8	586500	220 NT-2 SD 6 OZ
3500	TN220-2-8	586501	220 NT-2 SD 6 OZ
3500	TN220-2-8	586502	220 NT-2 SD 6 OZ
3500	TN220-2-8	586503	220 NT-2 SD 6 OZ
3500	TN220-2-8	586504	220 NT-2 SD 6 OZ
3500	TN220-2-8	586505	220 NT-2 SD 6 OZ
3500	TN220-2-8	586506	220 NT-2 SD 6 OZ
3500	TN220-2-8	586507	220 NT-2 SD 6 OZ
3500	TN220-2-8	586508	220 NT-2 SD 6 OZ
3500	TN220-2-8	586510	220 NT-2 SD 6 OZ
3500	TN220-2-8	586511	220 NT-2 SD 6 OZ
3500	TN220-2-8	586512	220 NT-2 SD 6 OZ
3500	TN220-2-8	586513	220 NT-2 SD 6 OZ
3500	TN220-2-8	586514	220 NT-2 SD 6 OZ
3500	TN220-2-8	586515	220 NT-2 SD 6 OZ
3500	TN220-2-8	586516	220 NT-2 SD 6 OZ
3500	TN220-2-8	586517	220 NT-2 SD 6 OZ
3500	TN220-2-8	586518	220 NT-2 SD 6 OZ
3500	TN220-2-8	586519	220 NT-2 SD 6 OZ

PLEASE COLLECT
FROM THE DRIVER
2 BAG TIES

DELIVER BY: 8/2/01 5/6/01

DRIVER

TR. CO. OHIO CARRIER

PHONE#

TOTAL
SQ.FT. 94,500

Weight: 30,211

TRUCK / CONTAINER #

SEAL #

CARRIER REF.

CARRIER NAME

CARRIER SIGN

LOAD VERIFICATION SIGNED X

TRUCKERS P.O. #

DATE: 8/2/01

SIGN HERE FOR SHIPPER

SHIPPER:

ADDRESS: 571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529

SIGN HERE FOR AGENT
OF SHIPPER

AGENT FOR SHIPPER:

Received at Commerce, GA from Skips Industries the property described above, in apparent good order except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above, which said Carrier (the word "Carrier" being understood throughout this Shipping Order as meaning the person or corporation in possession of the property) agrees to carry to the place of delivery as said destination. It is mutually agreed as to each Carrier of all or any of said property, over all or portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to either: (a) if the Shipper noted herein is Skips Industries as indicated by the designation of "Shipper" to be Skips Industries, then the Shipper and Carrier are subject to the terms and conditions contained in the Contract for Truck Transportation existing between the parties or (b) if the Shipper noted herein is not Skips Industries then Skips Industries acting solely as the agent for the named Shipper, and thus every aspect of the service to be performed hereunder between the Shipper and the Carrier shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth in Official, Southern, Western, and Illinois Freight Classifications in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. When acting in the capacity of an agent for Shipper in placing the material in transit on behalf of a Shipper, Skips Industries accepts no liability for loss of cargo, damage to containers, or any other consequences occurring during transportation. Carrier having agreed that the transportation arrangement is initiated by the Shipper and not by Skips Industries.

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SKAPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(706) 336-7000

SHIPPERS NO.

2552

EXTERNAL REF # Cortland County Landfill
CONSIGNED TO - 4708 Town Line Road
DESTINATION - McGraw, NY 13101

COMMENTS FROM M.R. Dave
Phone# 315/724-4062

DATE SHIPPED 8/1/01
CUST. P.O. # 6692
STATE:
INTERNAL REF # 586
MATERIAL REQ #
JOB # 586
SHIPPERS # 2552
BUS / MARKET SEQ #
TERMS:

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
3500	TN220-2-6	586435	220 NT-2 SD 6 OZ
3500	TN220-2-6	586436	220 NT-2 SD 6 OZ
3500	TN220-2-6	586437	220 NT-2 SD 6 OZ
3500	TN220-2-6	586438	220 NT-2 SD 6 OZ
3500	TN220-2-6	586439	220 NT-2 SD 6 OZ
2800	TN220-2-6	586441	220 NT-2 SD 6 OZ
3500	TN220-2-6	586442	220 NT-2 SD 6 OZ
3500	TN220-2-6	586443	220 NT-2 SD 6 OZ
3500	TN220-2-6	586444	220 NT-2 SD 6 OZ
3500	TN220-2-6	586445	220 NT-2 SD 6 OZ
3500	TN220-2-6	586446	220 NT-2 SD 6 OZ
3500	TN220-2-6	586447	220 NT-2 SD 6 OZ
3500	TN220-2-6	586448	220 NT-2 SD 6 OZ
3500	TN220-2-6	586449	220 NT-2 SD 6 OZ
3500	TN220-2-6	586450	220 NT-2 SD 6 OZ
3500	TN220-2-6	586451	220 NT-2 SD 6 OZ
3500	TN220-2-6	586452	220 NT-2 SD 6 OZ
3500	TN220-2-6	586453	220 NT-2 SD 6 OZ
3500	TN220-2-6	586454	220 NT-2 SD 6 OZ
3500	TN220-2-6	586455	220 NT-2 SD 6 OZ
3500	TN220-2-6	586456	220 NT-2 SD 6 OZ
3500	TN220-2-6	586457	220 NT-2 SD 6 OZ
3500	TN220-2-6	586458	220 NT-2 SD 6 OZ
3500	TN220-2-6	586459	220 NT-2 SD 6 OZ
3500	TN220-2-6	586460	220 NT-2 SD 6 OZ
3500	TN220-2-6	586461	220 NT-2 SD 6 OZ
3500	TN220-2-6	586471	220 NT-2 SD 6 OZ

PLEASE COLLECT
FROM THE DRIVER
2 BAG TIES

DELIVER BY : 8/2/01

DRIVER Doug. Blair.

TR. CO. TEI

TR 7140 TR 7141

PHONE#

TOTAL
SQ.FT. 93,800

Weight: 30,434

TRUCK / CONTAINER #

SEAL #

CARRIER REF.

CARRIER NAME

CARRIER SIGN

LOAD VERIFICATION SIGNED X

TRUCKERS P.O. #

DATE: 8/1/01

SIGN HERE FOR SHIPPER

SHIPPER:

ADDRESS: 571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529

SIGN HERE FOR AGENT
OF SHIPPER

AGENT FOR SHIPPER:

Received at Commerce, GA from Skaps Industries the property described above, in apparent good order except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above, which said Carrier (the word "Carrier" understood throughout this Shipping Order as meaning the person or corporation in possession of the property) agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any of said property, over all or portion of said route to destination, and as to each party, at any time interested in all or any of said property, that every service performed hereunder shall be subject to either: (a) if the Shipper noted herein is Skaps Industries as indicated by the designation of "Shipper" to be Skaps Industries, then the Shipper and Carrier are subject to the terms and conditions contained in the Contract for Truck Transportation existing between the parties or (b) if the Shipper noted herein is not Skaps Industries then Skaps Industries acting solely as the agent for the designated Shipper, and thus every aspect of the service to be performed hereunder between the Shipper and the Carrier shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth in Official Southern Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. When acting in the capacity of an agent, Shipper in placing the material in transit on behalf of a Shipper, Skaps Industries accepts no liability for loss of cargo, damage to containers, or any other consequences occurring during transportation, Carrier having agreed that the transportation arrangement initiated by the Shipper and not by Skaps Industries.

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Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway

Commerce, GA 30529

Phone # 706-336-7000

Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 16

Product : TN220-2-6

Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivity (m ² /sec)
			Top	Bottom	Minimum	Average	ASTM D4716
1	586406	586406 - N	300067861	300069469			
2	586407	586407 - N	300067861	300069469			
3	586408	586408 - N	300067861	300069469			
4	586409	586409 - N	300068708	300067782			
5	586410	586410 - N	300068708	300067782	2.1	2.3	
6	586411	586411 - N	300068708	300067782			
7	586412	586412 - N	300067848	300067904			
8	586413	586413 - N	300067848	300067904			
9	586414	586414 - N	300067848	300067904			
10	586415	586415 - N	300067912	300067903	2.4	2.8	
11	586416	586416 - N	300067912	300067903			
12	586417	586417 - N	300067912	300067903			
13	586418	586418 - N	300067797	300067876			
14	586419	586419 - N	300067797	300067876			
15	586420	586420 - N	300067797	300067876	2.2	2.7	4.25X10 ⁻⁴
16	586421	586421 - N	300067868	300067895			
17	586422	586422 - N	300067868	300067895			
18	586423	586423 - N	300067868	300067895			
19	586424	586424 - N	300067862	300067909			
20	586425	586425 - N	300067862	300067909	2.1	2.3	
21	586426	586426 - N	300067862	300067909			
22	586427	586427 - N	300067901	300067872			
23	586428	586428 - N	300067901	300067872			
24	586429	586429 - N	300067901	300067872			
25	586430	586430 - N	300067787	300067801	2.2	2.6	
26	586431	586431 - N	300067787	300067801			
27	586432	586432 - N	300067787	300067801			

Name : Tarli N. Patel

Signature :

T. Patel

Title : Quality Control Manager

Date :

05/29/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # **16**
Product : **TN220-2-6**
Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586406 - N	25567-1	0.950					
586407 - N	25567-1	0.950					
586408 - N	25567-1	0.950					
586409 - N	25567-1	0.950					
586410 - N	25567-1	0.950	0.233	225	2.4	68	
586411 - N	25567-1	0.950					
586412 - N	25567-1	0.950					
586413 - N	25567-1	0.950					
586414 - N	25567-1	0.950					
586415 - N	25567-1	0.950	0.229	223	2.2	65	
586416 - N	25567-1	0.950					
586417 - N	25567-1	0.950					
586418 - N	25567-1	0.950					
586419 - N	25567-1	0.950					
586420 - N	25567-1	0.950	0.230	221	2.1	63	1.65X10 ⁻³
586421 - N	25567-1	0.950					
586422 - N	25567-1	0.950					
586423 - N	25567-1	0.950					
586424 - N	25567-1	0.950					
586425 - N	25567-1	0.950	0.226	222	2.5	69	
586426 - N	25567-1	0.950					
586427 - N	25567-1	0.950					
586428 - N	25567-1	0.950					
586429 - N	25567-1	0.950					
586430 - N	25567-1	0.950	0.223	224	2.2	34	
586431 - N	25567-1	0.950					
586432 - N	25567-1	0.950					

Name : Tarli N. Patel Signature : *Truel*
Title : Quality Control Manager Date : 05/29/01



SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 17
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissivity (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586433	586433 - N	300067842	300067859			
2	586434	586434 - N	300067842	300067859			
3	586435	586435 - N	300067842	300067859	2.3	2.7	
4	586436	586436 - N	300067844	300067871			
5	586437	586437 - N	300067844	300067871			
6	586438	586438 - N	300067844	300067871			
7	586439	586439 - N	300067911	300067804			
8	586440	586440 - N	300067911	300067804	2.1	2.4	
9	586441	586441 - N	300067911	300067804			
10	586442	586442 - N	300067915	300067894			
11	586443	586443 - N	300067915	300067894			
12	586444	586444 - N	300067915	300067894			
13	586445	586445 - N	300068760	300068765	2.2	2.8	4.65X10 ⁻⁴
14	586446	586446 - N	300068760	300068765			
15	586447	586447 - N	300068760	300068765			
16	586448	586448 - N	300069006	300067906			
17	586449	586449 - N	300069006	300067906			
18	586450	586450 - N	300069006	300067906	2.4	2.6	
19	586451	586451 - N	300068727	300068756			
20	586452	586452 - N	300068727	300068756			
21	586453	586453 - N	300068727	300068756			
22	586454	586454 - N	300068687	300067755			
23	586455	586455 - N	300068687	300067755	2.2	2.5	
24	586456	586456 - N	300068687	300067755			
25	586457	586457 - N	300068752	300068693			
26	586458	586458 - N	300068752	300068693			
27	586459	586459 - N	300068752	300068693			

Name : Tarli N. Patel

Signature : TPatel

Title : Quality Control Manager

Date :

05/29/01



SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTSShipper # **17**Product : **TN220-2-6**Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586433 - N	25567-1	0.950					
586434 - N	25567-1	0.950					
586435 - N	25567-1	0.950	0.225	223	2.3	66	
586436 - N	25567-1	0.950					
586437 - N	25567-1	0.950					
586438 - N	25567-1	0.950					
586439 - N	25567-1	0.950					
586440 - N	25567-1	0.950	0.229	220	2.1	62	
586441 - N	25567-1	0.950					
586442 - N	25567-1	0.950					
586443 - N	25567-1	0.950					
586444 - N	25567-1	0.950					
586445 - N	25567-1	0.950	0.224	222	2.6	70	1.77X10 ⁻³
586446 - N	25567-1	0.950					
586447 - N	25567-1	0.950					
586448 - N	25567-1	0.950					
586449 - N	25567-1	0.950					
586450 - N	25567-1	0.950	0.221	220	2.2	63	
586451 - N	25567-1	0.950					
586452 - N	25567-1	0.950					
586453 - N	25567-1	0.950					
586454 - N	25567-1	0.950					
586455 - N	25567-1	0.950	0.223	223	2.4	68	
586456 - N	25567-1	0.950					
586457 - N	25567-1	0.950					
586458 - N	25567-1	0.950					
586459 - N	25567-1	0.950					

Name : Tarli N. PatelSignature : *T. Patel*Title : Quality Control ManagerDate : 05/29/01

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 18

Product : TN220-2-6

Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivity (m ² /sec)
			Top	Bottom	Minimum	Average	ASTM D4716
1	586460	586460 - N	300067896	300067902	2.3	2.6	
2	586461	586461 - N	300067896	300067902			
3	586462	586462 - N	300067896	300067902			
4	586463	586463 - N	300052980	300067780			
5	586464	586464 - N	300052980	300067780			
6	586465	586465 - N	300052980	300067780	2.1	2.4	
7	586466	586466 - N	300052041	300067254			
8	586467	586467 - N	300052041	300067254			
9	586468	586468 - N	300052041	300067254			
10	586469	586469 - N	300066687	300067897			
11	586470	586470 - N	300066687	300067897	2.2	2.5	
12	586471	586471 - N	300066687	300067897			
13	586472	586472 - N	300067756	300067907			
14	586473	586473 - N	300067756	300067907			
15	586474	586474 - N	300067756	300067907			
16	586475	586475 - N	300048228	300066762	2.4	2.7	3.99X10 ⁻⁴
17	586476	586476 - N	300048228	300066762			
18	586477	586477 - N	300048228	300066762			
19	586478	586478 - N	300067913	300067877			
20	586479	586479 - N	300067913	300067877			
21	586480	586480 - N	300067913	300067877	2.1	2.3	
22	586481	586481 - N	300067762	300067875			
23	586482	586482 - N	300067762	300067875			
24	586483	586483 - N	300067762	300067875			
25	586484	586484 - N	300067908	300067900			
26	586485	586485 - N	300067908	300067900	2.3	2.4	
27	586486	586486 - N	300067908	300067900			

Name : Tarli N. Patel

Signature : *T. Patel*

Title : Quality Control Manager

Date :

05/29/01



SKAPS INDUSTRIES

571 Industrial Parkway
 Commerce, GA 30529
 Phone # 706-336-7000
 Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # **18**
 Product : **TN220-2-6**
 Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586460 - N	25567-1	0.950	0.223	221	2.1	64	
586461 - N	25567-1	0.950					
586462 - N	25567-1	0.950					
586463 - N	25567-1	0.950					
586464 - N	25567-1	0.950					
586465 - N	25567-1	0.950	0.225	220	2.3	66	
586466 - N	25567-1	0.950					
586467 - N	25567-1	0.950					
586468 - N	25567-1	0.950					
586469 - N	25567-1	0.950					
586470 - N	25567-1	0.950	0.228	223	2.5	69	
586471 - N	25567-1	0.950					
586472 - N	25567-1	0.950					
586473 - N	25567-1	0.950					
586474 - N	25567-1	0.950					
586475 - N	25567-1	0.950	0.226	220	2.1	63	1.69X10 ⁻³
586476 - N	25567-1	0.950					
586477 - N	25567-1	0.950					
586478 - N	25567-1	0.950					
586479 - N	25567-1	0.950					
586480 - N	25567-1	0.950	0.230	224	2.4	66	
586481 - N	25567-1	0.950					
586482 - N	25567-1	0.950					
586483 - N	25567-1	0.950					
586484 - N	25567-1	0.950					
586485 - N	25567-1	0.950	0.232	221	2.2	65	
586486 - N	25567-1	0.950					

Name : Tari N. Patel Signature : *Tari Patel*
 Title : Quality Control Manager Date : 05/29/01



SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 19
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivity (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586487	586487 - N	300067856	300067893			
2	586488	586488 - N	300067856	300067893			
3	586489	586489 - N	300067856	300067893			
4	586490	586490 - N	300051973	300052105	2.4	2.6	
5	586491	586491 - N	300051973	300052105			
6	586492	586492 - N	300051973	300052105			
7	586493	586493 - N	300067905	300067910			
8	586494	586494 - N	300067905	300067910			
9	586495	586495 - N	300067905	300067910	2.1	2.4	
10	586496	586496 - N	300067870	300048210			
11	586497	586497 - N	300067870	300048210			
12	586498	586498 - N	300067870	300048210			
13	586499	586499 - N	300066761	300068742			
14	586500	586500 - N	300066761	300068742	2.3	2.5	5.55X10 ⁻⁴
15	586501	586501 - N	300066761	300068742			
16	586502	586502 - N	300068769	300069013			
17	586503	586503 - N	300068769	300069013			
18	586504	586504 - N	300068769	300069013			
19	586505	586505 - N	300068772	300068764	2.2	2.3	
20	586506	586506 - N	300068772	300068764			
21	586507	586507 - N	300068772	300068764			
22	586508	586508 - N	300068699	300068737			
23	586509	586509 - N	300068699	300068737			
24	586510	586510 - N	300068699	300068737	2.1	2.2	
25	586511	586511 - N	300068688	300068684			
26	586512	586512 - N	300068688	300068684			
27	586513	586513 - N	300068688	300068684			

Name : Tarli N. Patel

Signature : Th Patel

Title : Quality Control Manager

Date :

05/29/01



SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # **19**
Product : **TN220-2-6**
Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project:

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb./ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586487 - N	25567-1	0.950					
586488 - N	25567-1	0.950					
586489 - N	25567-1	0.950					
586490 - N	25567-1	0.950	0.225	222	2.6	71	
586491 - N	25567-1	0.950					
586492 - N	25567-1	0.950					
586493 - N	25567-1	0.950					
586494 - N	25567-1	0.950					
586495 - N	25567-1	0.950	0.235	221	2.3	67	
586496 - N	25567-1	0.950					
586497 - N	25567-1	0.950					
586498 - N	25567-1	0.950					
586499 - N	25567-1	0.950					
586500 - N	25567-1	0.950	0.230	224	2.2	65	1.63X10 ⁻³
586501 - N	25567-1	0.950					
586502 - N	25567-1	0.950					
586503 - N	25567-1	0.950					
586504 - N	25567-1	0.950					
586505 - N	25567-1	0.950	0.224	223	2.5	68	
586506 - N	25567-1	0.950					
586507 - N	25567-1	0.950					
586508 - N	25567-1	0.950					
586509 - N	25567-1	0.950					
586510 - N	25567-1	0.950	0.226	220	2.3	69	
586511 - N	25567-1	0.950					
586512 - N	25567-1	0.950					
586513 - N	25567-1	0.950					

Name : Tarli N. Patel Signature : *T Patel*
Title : Quality Control Manager Date : 05/29/01



SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 20
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivity (m ² /sec) ASTM D4716
			Top	Bottom	Minimum	Average	
1	586514	586514 - N	300068698	300068771			
2	586515	586515 - N	300068698	300068771	2.2	2.5	
3	586516	586516 - N	300068698	300068771			
4	586517	586517 - N	300068765	300066684			
5	586518	586518 - N	300068765	300066684			
6	586519	586519 - N	300068765	300066684			
7	586520	586520 - N	300067863	300068761	2.1	2.3	
8	586521	586521 - N	300067863	300068761			
9	586522	586522 - N	300067863	300068761			
10	586523	586523 - N	300068763	300052942			
11	586524	586524 - N	300068763	300052942			
12	586525	586525 - N	300068763	300052942	2.4	2.6	
13	586526	586526 - N	300052843	300052956			
14	586527	586527 - N	300052843	300052956			
15	586528	586528 - N	300052843	300052956			
16	586529	586529 - N	300050619	300052944			
17	586530	586530 - N	300050619	300052944	2.3	2.5	3.75X10-4
18	586531	586531 - N	300050619	300052944			
19	586532	586532 - N	300050716	300052936			
20	586533	586533 - N	300050716	300052936			
21	586534	586534 - N	300050716	300052936			
22	586535	586535 - N	300052961	300052837	2.1	2.4	
23	586536	586536 - N	300052961	300052837			
24	586537	586537 - N	300052961	300052837			
25	586538	586538 - N	300068700	300068711			
26	586539	586539 - N	300068700	300068711			
27	586540	586540 - N	300068700	300068711	2.2	2.4	

Name : Tarli N. Patel

Signature : Thel

Title : Quality Control Manager

Date :

05/29/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

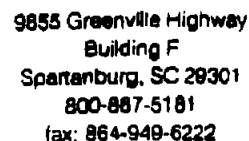
Shipper # **20**
Product : **TN220-2-6**
Project Name : **Marcy Excavation Co., Inc., McGraw, NY**

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project :

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb/ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586514 - N	25567-1	0.950					
586515 - N	25567-1	0.950	0.223	221	2.5	67	
586516 - N	25567-1	0.950					
586517 - N	25567-1	0.950					
586518 - N	25567-1	0.950					
586519 - N	25567-1	0.950					
586520 - N	25567-1	0.950	0.226	223	2.3	68	
586521 - N	25567-1	0.950					
586522 - N	25567-1	0.950					
586523 - N	25567-1	0.950					
586524 - N	25567-1	0.950					
586525 - N	25567-1	0.950	0.232	228	2.2	64	
586526 - N	25567-1	0.950					
586527 - N	25567-1	0.950					
586528 - N	25567-1	0.950					
586529 - N	25567-1	0.950					
586530 - N	25567-1	0.950	0.234	230	2.5	71	1.68X10 ⁻³
586531 - N	25567-1	0.950					
586532 - N	25567-1	0.950					
586533 - N	25567-1	0.950					
586534 - N	25567-1	0.950					
586535 - N	25567-1	0.950	0.229	226	2.3	67	
586536 - N	25567-1	0.950					
586537 - N	25567-1	0.950					
586538 - N	25567-1	0.950					
586539 - N	25567-1	0.950					
586540 - N	25567-1	0.950	0.225	221	2.4	69	

Name : Tarli N. Patel Signature : *T Patel*
Title : Quality Control Manager Date : 05/29/01





Skaps Industries
571 Industrial Pkwy.
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS H060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS H060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS H060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V.</u>
Weight	ASTM D 3776	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq ft.	125
Permeability	ASTM D 4491	cm/sec	.45

Marshall O. Gaddy

Marshall O Gaddy
Quality Control Manager

DATE: 11/26/01

PAGE: 1
INQD001RTHE MILLS, INC.
NON-SPIN QUALITY DATA
FOR BOLA 000506635

ROLL #	STYL	WDT LMC	FABR WCHT	THCK	GRAB MD	GRAB	ELNG MD	ELNG MD	TRAP MD	TRAP MD	PUNC REST	BRST STRG	FLWM RATE	PERM -ABL	PERM -ITY	AOS
300066584	H060	180 900	6.8	114	172	209	80	92	90	103	95	354	211	.980	3.31	80
300067755	H060	180 900	6.5	102	179	189	85	92	77	101	110	359	154	.740	2.47	80
300067863	H060	180 900	6.8	105	194	195	75	92	94	113	97	363	208	.840	3.27	80
300067906	H060	180 900	6.9	104	197	198	83	102	77	108	103	368	209	.800	3.27	80
300068584	H060	180 900	6.3	103	193	215	81	95	80	113	100	358	209	.800	3.27	80
300068887	H060	180 900	6.3	103	193	215	81	95	80	113	100	358	209	.800	3.27	80
300068888	H060	180 900	6.3	103	193	215	81	95	80	113	100	358	209	.800	3.27	80
300068593	H060	180 900	6.7	101	199	209	90	102	84	116	98	352	230	1.060	3.62	80
300068598	H060	180 900	6.8	104	203	205	84	111	84	116	105	350	230	1.060	3.62	80
300068599	H060	180 900	6.9	104	203	205	84	111	86	116	105	376	230	1.060	3.62	80
300068700	H060	180 900	6.9	104	203	205	84	111	86	116	105	376	230	1.060	3.62	80
300068713	H060	180 900	6.8	108	210	217	93	108	84	116	99	355	230	1.060	3.62	80
300068727	H060	180 900	6.7	102	195	199	82	92	84	116	99	355	230	1.060	3.62	80
300068737	H060	180 900	6.7	108	215	210	75	93	78	88	111	355	127	.700	1.99	80
300068742	H060	180 900	6.6	107	207	200	73	95	78	88	96	358	127	.700	1.99	80
300068752	H060	180 900	6.6	107	208	187	75	103	78	94	107	376	127	.700	1.90	80
300068750	H060	180 900	6.7	107	215	188	79	113	78	94	99	367	127	.700	1.90	80
300068761	H060	180 900	6.7	107	215	188	79	113	78	94	99	367	127	.700	1.90	80
300068763	H060	180 900	6.7	107	215	188	79	113	78	94	99	367	127	.700	1.90	80
300068764	H060	180 900	6.7	107	215	188	79	113	78	94	99	367	127	.700	1.90	80
300068765	H060	180 900	6.1	100	191	189	85	105	76	84	106	353	230	1.060	3.62	80
300068766	H060	180 900	6.1	100	191	189	85	105	76	84	106	353	230	1.060	3.62	80
300068769	H060	180 900	6.1	100	191	189	85	105	76	84	106	353	230	1.060	3.62	80
300068771	H060	180 900	6.1	100	191	189	85	105	76	84	106	353	230	1.060	3.62	80
300068772	H060	180 900	6.1	100	191	189	85	105	76	84	106	353	230	1.060	3.62	80
300069006	H060	180 900	6.8	107	187	221	88	112	80	98	96	352	218	.900	3.42	80
300069013	H060	180 900	6.4	104	180	214	87	101	80	98	95	353	218	.900	3.42	80

TOTAL NUMBER OF ROLLS 27



9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-949-8222

July 26, 2001
REF: TNS H060
Quantity Shipped: 27 rolls
BOL# 000506631

Skaps Industries
571 Industrial Pkwy.
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS H060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS H060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS H060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 3776	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	1/sec	1.63
Water Flow	ASTM D 4491	gpm/sq ft.	125
Permeability	ASTM D 4491	cm/sec	45

Marshall O. Gaddy

Marshall O. Gaddy
Quality Control Manager

DATE: 7/26/01

TMS MILLS, INC.
NONPROVEN QUALITY DATA
FOR ROLL 000506631

PAGE: 1
INQ0001R

ROLL #	STYL	WDT	LNK	FAHR WGHT	THICK MD	GRAB XMD	GRAB XMD	ELANG MD	ELANG XMD	TRAP MD	TRAP XMD	PUNC REST	BRST STRC	FLOW RATE	PERM ABI.	PERM ITY	AOS
300048210	H060	180	900	6.4	107	171	184	77	103	94	122	97	352	253	1.090	3.97	80
300048228	H060	180	900	6.3	110	166	167	76	97	88	111	99	380	253	1.090	3.97	80
300051973	H060	180	900	6.3	113	165	185	68	85	88	99	100	378	149	.680	2.33	80
300052041	H060	180	900	6.6	100	170	168	64	84	81	85	96	353	194	.760	3.04	80
300052105	H060	180	900	6.4	113	163	189	76	79	82	114	99	364	221	1.000	3.46	80
300052980	H060	180	900	6.2	120	165	170	74	100	69	76	96	361	243	1.190	3.81	80
300066687	H060	180	900	6.8	114	172	200	80	93	90	103	95	354	211	.980	3.31	80
300066761	H060	180	900	7.4	126	198	217	61	88	98	116	125	406	253	1.140	3.97	80
300066762	H060	180	900	7.4	126	198	217	61	88	98	116	125	406	253	1.140	3.97	80
300067254	H060	180	900	6.6	106	178	189	65	80	81	105	120	388	218	.900	3.42	80
300067756	H060	180	900	7.6	112	204	208	89	101	77	101	102	357	154	.740	2.47	80
300067762	H060	180	900	8.1	127	243	239	84	104	105	146	110	386	173	.860	2.72	80
300067780	H060	180	900	6.7	109	180	190	86	98	100	107	98	350	173	.860	2.72	80
300067856	H060	180	900	6.7	105	204	184	74	91	94	113	105	353	208	.840	3.27	80
300067870	H060	180	900	6.9	105	200	205	82	87	89	100	113	354	191	.800	2.99	80
300067875	H060	180	900	6.9	105	200	205	82	87	89	100	113	354	191	.800	2.99	80
300067877	H060	180	900	6.8	101	205	208	74	92	76	98	100	377	191	.800	2.99	80
300067893	H060	180	900	7.2	104	216	220	83	95	76	98	116	379	191	.800	2.99	80
300067896	H060	180	900	6.6	101	185	186	69	90	77	108	99	358	209	.800	3.27	80
300067897	H060	180	900	6.6	101	185	186	69	90	77	108	99	358	209	.800	3.27	80
300067900	H060	180	900	6.6	106	179	185	71	90	77	108	101	365	209	.800	3.27	80
300067902	H060	180	900	6.6	106	179	185	71	90	77	108	101	365	209	.800	3.27	80
300067905	H060	180	900	6.6	106	179	185	71	90	77	108	101	365	209	.800	3.27	80
300067907	H060	180	900	6.9	104	197	198	83	102	77	108	103	368	209	.800	3.27	80
300067908	H060	180	900	6.9	104	197	198	83	102	77	108	103	368	209	.800	3.27	80
300067910	H060	180	900	6.9	104	197	198	83	102	77	108	103	368	209	.800	3.27	80
300067913	H060	180	900	6.5	102	187	179	77	99	84	98	100	351	209	.800	3.27	80

TOTAL NUMBER OF ROLLS 27



9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-949-6222

August 2, 2001
REF TNS H060
Quantity Shipped: 27 rolls
BOL#: 000506730

Skaps Industries
571 Industrial Pkwy.
Commerce, GA 30529

Dear Sir/Madam:

This is to certify that TNS H060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS H060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS H060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>MARV</u>
Weight	ASTM D 3776	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq ft.	125
Permeability	ASTM D 4491	cm/sec	.45

Marshall O. Gaddy

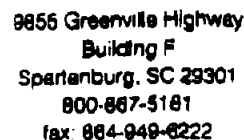
Marshall O. Gaddy
Quality Control Manager

DATE: 8/07/01

TNS MILLS, INC.
NONWOVEN QUALITY DATA
FOR BOLL 000506730PAGE: 1
INQ0001R

ROLL #	STYL	WDT	LNQ	FABR WGHT	THCK	GRAB MD	GRAB XMD	ELNG MD	ELNG XMD	TRAP MD	TRAP XMD	PUNC RST	BRST STRG	FLOW RATE	PBRM -ABL	PERM -ITY	AOS
300050716	H060	180	900	6.6	120	173	190	84	89	76	78	97	352	243	1.080	3.82	100
300050717	H060	180	900	6.1	110	160	193	85	84	83	110	104	361	208	.940	3.27	80
300052015	H060	180	900	6.3	103	182	185	74	102	71	78	95	358	249	.960	3.90	80
300052025	H060	180	900	6.3	104	171	171	77	85	71	78	95	358	249	.960	3.90	80
300052790	H060	180	900	6.3	120	175	188	84	89	71	82	100	363	243	1.080	3.82	100
300052837	H060	180	900	6.2	116	170	187	74	98	74	72	105	366	204	.710	3.20	80
300052842	H060	180	900	6.2	112	162	175	76	98	74	72	105	358	204	.710	3.20	80
300052843	H060	180	900	6.2	112	162	175	76	98	74	72	105	358	204	.710	3.20	80
300052851	H060	180	900	6.2	112	161	179	78	91	74	72	105	358	204	.710	3.20	80
300052861	H060	180	900	6.9	125	179	206	65	84	101	114	124	448	243	1.190	3.81	80
300052863	H060	180	900	6.4	120	179	194	68	93	84	97	120	426	243	1.190	3.81	80
300052865	H060	180	900	6.4	120	179	194	68	93	84	97	120	426	243	1.190	3.81	80
300052869	H060	180	900	6.1	115	160	185	72	81	84	97	120	426	243	1.190	3.81	80
300052886	H060	180	900	6.4	119	162	197	79	95	69	74	96	404	243	1.160	3.81	80
300052901	H060	180	900	6.6	119	160	178	91	101	69	74	96	404	243	1.190	3.81	80
300052936	H060	180	900	6.8	119	170	207	76	85	94	117	124	392	243	1.190	3.81	80
300052942	H060	180	900	6.5	119	178	198	74	92	94	117	124	392	243	1.190	3.81	80
300052944	H060	180	900	6.5	119	178	198	74	92	94	117	124	392	243	1.190	3.81	80
300052947	H060	180	900	6.4	124	168	178	75	97	69	76	98	368	243	1.190	3.81	80
300052955	H060	180	900	6.7	124	173	205	82	107	69	76	98	368	243	1.190	3.81	80
300052956	H060	180	900	6.7	124	173	205	82	107	69	76	98	368	243	1.190	3.81	80
300052957	H060	180	900	6.7	124	173	205	82	107	69	76	98	368	243	1.190	3.81	80
300052961	H060	180	900	6.7	124	168	181	88	105	69	76	98	368	243	1.190	3.81	80
300052984	H060	180	900	6.0	110	164	178	84	89	71	80	102	361	214	.930	3.36	80
300052985	H060	180	900	6.0	110	164	178	84	89	71	80	102	361	214	.930	3.36	80
300052986	H060	180	900	6.2	108	164	193	85	84	80	104	106	386	214	.930	3.36	80
300052987	H060	180	900	6.6	120	173	190	60	60	76	78	97	352	243	1.080	3.82	80
TOTAL NUMBER OF ROLLS 26																	

Aug 7 2001 11:48AM



Skaps Industries
571 Industrial Pkwy.
Commerce, GA 30529

This is to certify that TNS H060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS H060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS H060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R. V</u>
Weight	ASTM D 3776	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S.	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq ft.	125
Permeability	ASTM D 4491	cm/sec	45

Marshall O. Gaddy
Marshall O. Gaddy
Quality Control Manager

DATE: 8/0/01

PAGE: 1
1M00001R

TNS HILLS, INC.
NONMOVEN QUALITY DATA
FOR ROLLS 000506617

ROLL #	STYL	WGT	LMG	PARR	THICK	GRAB	GRAB	CRAB	ELNG	ELNG	TRAP	TRAP	PENC	BEST	FLOW	PRRM	PRRM	AD5
				WERT		MD	MD	XMD	MD	MD	MD	XMD	REBT	STRO	RATE	ABL	ITY	
30006782	H060	180	900	7.3	116	198	202	202	84	101	100	107	97	357	173	860	2.72	80
30006787	H060	180	900	7.3	116	198	202	202	84	101	100	107	97	357	173	860	2.72	80
30006797	H060	180	900	7.3	108	205	212	212	76	99	102	117	111	350	180	760	2.81	80
300067801	H060	180	900	7.3	108	205	212	212	76	99	102	117	111	350	180	760	2.81	80
300067804	H060	180	900	7.6	110	221	223	223	83	96	102	117	115	357	180	760	2.81	80
300067842	H060	180	900	7.0	104	206	209	209	75	96	93	116	121	357	208	840	3.27	80
300067844	H060	180	900	7.0	104	206	209	209	75	96	93	116	121	357	208	840	3.27	80
300067848	H060	180	900	7.1	108	201	213	213	78	98	93	116	121	357	208	840	3.27	80
300067859	H060	180	900	6.8	105	194	195	195	75	92	94	113	113	370	208	840	3.27	80
300067861	H060	180	900	6.8	105	194	195	195	75	92	94	113	113	363	208	840	3.27	80
300067862	H060	180	900	6.8	105	194	195	195	75	92	94	113	97	363	208	840	3.27	80
300067865	H060	180	900	6.8	106	199	203	203	76	87	89	100	104	360	191	800	2.99	80
300067888	H060	180	900	6.8	106	199	203	203	76	87	89	100	104	360	191	800	2.99	80
300067871	H060	180	900	6.9	105	200	205	205	82	87	89	100	113	354	191	800	2.99	80
300067872	H060	180	900	6.9	105	200	205	205	82	87	89	100	113	354	191	800	2.99	80
300067876	H060	180	900	6.8	101	205	208	208	74	92	76	98	100	377	191	800	2.99	80
300067894	H060	180	900	6.6	101	185	186	186	69	90	77	108	99	350	209	800	3.27	80
300067895	H060	180	900	6.6	101	185	186	186	69	90	77	108	99	350	209	800	3.27	80
300067901	H060	180	900	6.6	106	179	185	185	71	90	77	108	101	365	209	800	3.27	80
300067903	H060	180	900	6.6	106	179	185	185	71	90	77	108	101	365	209	800	3.27	80
300067904	H060	180	900	6.6	106	179	185	185	71	90	77	108	101	365	209	800	3.27	80
300067909	H060	180	900	6.9	104	197	198	198	83	102	77	108	103	368	209	800	3.27	80
300067911	H060	180	900	6.9	104	197	198	198	83	102	77	108	103	368	209	800	3.27	80
300067912	H060	180	900	6.9	104	197	198	198	83	102	77	108	103	368	209	800	3.27	80
300067915	H060	180	900	6.5	102	187	179	179	77	99	84	98	100	351	209	800	3.27	80
300068708	H060	180	900	6.9	108	221	222	222	51	111	84	116	103	367	230	1.060	3.52	80
300069469	H060	180	900	6.6	116	177	193	193	74	95	76	107	106	361	225	1.000	3.53	80

TOTAL NUMBER OF ROLLS 27

SKAPS Industries

SKAPS Industries
571 Industrial Pkwy
Commerce, GA

Phone: 706-336-7000
Fax: 706-336-7007

Friday September 07, 2001
Babcock Highway Supply, Inc.
565 County Route 51A
Oswego, NY 13126

Ref. : Cortland County Landfill McGraw, NY
Transnet 220-2-6 Geocomposite

We certify that the Transnet 220-2-6 double sided drainage composite. shipped on the above Shipper No., meets the project requirements as stated in the specifications. The properties listed in this section include :

Net Property	Test Method	Unit	Minimum Required Value
Mass per Unit Area	ASTM D 5261	lbs/ft ²	0.162
Thickness	ASTM D 5199	inches	.22/-022
Carbon Black	ASTM D 1603	%	2
Tensile Strength	ASTM D 5035	lb/in	50
Melt Flow	ASTM D 1238	g/10min	1.0max
Density	ASTM D 1505	g/cm ³	0.940
Transmissivity*	ASTM D 4716	m2/s	1.0 X10 ⁻³
Composite Property	Test Method	Unit	Minimum Required Value
Ply Adhesion	ASTM D 413	lb/in	1.0
Transmissivity*	ASTM D 4716	m2/s	2.2X10 ⁻⁴
Fabric Property	Test Method	Unit	MARV
Fabric Weight	ASTM D 5261	oz/yd ²	6
Grab Strength	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	50
Tear Strength	ASTM D 4533	lbs	65
Puncture Resistance	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
Water Flow Rate	ASTM D 4491	gpm/ft ²	125
Permittivity	ASTM D 4491	l/sec	1.63
Permeability	ASTM D 4491	cm/sec	0.45
AOS	ASTM D 4751	US Sieve	80

* Transmissivity measured using water 20 Degree C (68 degree F) with a gradient of 1.0 and a confining pressure of 15000 psf. between two steel plates after 1 hour.

* Transmissivity measured using water 20 Degree C (68 degree F) with a gradient of 0.1 and a confining pressure of 2000 psf. between two steel plates after 15 min.

Sincerely,

T. Patel
Tarli Patel
QA Manager



SKAPS INDUSTRIES
571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529
(706) 336-7000

SHIPPERS NO.

2650

EXTERNAL REF #
CONSIGNED TO - Cortland County Landfill
DESTINATION - 4708 Town Line Road
McGraw, NY 13101

COMMENTS FROM M.R.
Dave Ambrose
Phone# 315/724-4062

DATE SHIPPED 9/6/01
CUST. P.O. # 6692
STATE:
INTERNAL REF #
MATERIAL REQ # 586-B
JOB #
SHIPPERS # 586-B
BUS / MARKET SEQ 2650
TERMS:

DRIVER MUST CALL 24 HOURS PRIOR TO DELIVERY

NO # SQ FT	PRODUCT CODE #	ROLL #	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS
---------------	-------------------	-----------	------------------------------------------------------------

3500	TN220-2-6	586553	220 NT-2 SD 6 OZ
3500	TN220-2-6	586554	220 NT-2 SD 6 OZ
3500	TN220-2-6	586555	220 NT-2 SD 6 OZ
3500	TN220-2-6	586556	220 NT-2 SD 6 OZ
3500	TN220-2-6	586557	220 NT-2 SD 6 OZ
3500	TN220-2-6	586558	220 NT-2 SD 6 OZ
3500	TN220-2-6	586559	220 NT-2 SD 6 OZ
3500	TN220-2-6	586560	220 NT-2 SD 6 OZ
3500	TN220-2-6	586561	220 NT-2 SD 6 OZ
3500	TN220-2-6	586562	220 NT-2 SD 6 OZ
3500	TN220-2-6	586563	220 NT-2 SD 6 OZ
3500	TN220-2-6	586564	220 NT-2 SD 6 OZ
3500	TN220-2-6	586565	220 NT-2 SD 6 OZ
3500	TN220-2-6	586566	220 NT-2 SD 6 OZ
3500	TN220-2-6	586567	220 NT-2 SD 6 OZ
3500	TN220-2-6	586568	220 NT-2 SD 6 OZ
3500	TN220-2-6	586569	220 NT-2 SD 6 OZ
3500	TN220-2-6	586570	220 NT-2 SD 6 OZ
3500	TN220-2-6	586571	220 NT-2 SD 6 OZ
3500	TN220-2-6	586572	220 NT-2 SD 6 OZ
3500	TN220-2-6	586573	220 NT-2 SD 6 OZ
3500	TN220-2-6	586574	220 NT-2 SD 6 OZ
3500	TN220-2-6	586575	220 NT-2 SD 6 OZ
3500	TN220-2-6	586576	220 NT-2 SD 6 OZ
3500	TN220-2-6	586577	220 NT-2 SD 6 OZ
3500	TN220-2-6	586578	220 NT-2 SD 6 OZ
3500	TN220-2-6	586579	220 NT-2 SD 6 OZ

PLEASE COLLECT
FROM THE DRIVER
2 BAG TIES

DELIVER BY: 9/7/01

DRIVER David

TR. CO. TFI

PHONE#

TOTAL
SQ.FT. 94,500

Weight: 29,322

TRUCK / CONTAINER #
SEAL #

LOAD VERIFICATION SIGNED X
TRUCKERS P.O. #

CARRIER REF.
CARRIER NAME
CARRIER SIGN

David Hills

DATE: 9/6/01

SIGN HERE FOR SHIPPER

SHIPPER:

ADDRESS: 571 INDUSTRIAL PARKWAY
COMMERCE, GA 30529

SIGN HERE FOR AGENT
OF SHIPPER

AGENT FOR SHIPPER:

at Commerce, GA from Skaps Industries the property described above, in apparent good order except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above, which said Carrier (the word "Carrier" understood throughout this Shipping Order as meaning the person or corporation in possession of the property) agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any of said property, over all or at said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to either: (a) if the Shipper noted herein is Skaps Industries as indicated by the designation of "To be Skaps Industries, then the Shipper and Carrier are subject to the terms and conditions contained in the Contract for Truck Transportation existing between the parties or (b) if the Shipper noted herein is not Skaps Industries then Skaps Industries hereby as the agent for the denoted Shipper, and thus every aspect of the service to be performed hereunder between the Shipper and the Carrier shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading and (1) Southern, Western, and Illinois Freight Classifications in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. When acting in the capacity of an agent in placing the material in transit on behalf of a Shipper, Skaps Industries accepts no liability for loss of cargo, damage to containers, or any other consequences occurring during transportation. Carrier having agreed that the transportation is to be by the Shipper and not by Skaps Industries.

Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEOCOMPOSITE QUALITY CONTROL TEST RESULTS

Shipper # 22
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geocomposite Manufacturer, hereby certify the following for material delivered to the above referenced project :

Roll Number	Geocomposite Roll Number	Geonet Roll Number	Geotextile Roll Number		Geotextile Geonet Adhesion (lb./in.) ASTM D413		Transmissiivity (m ² /sec)
			Top	Bottom	Minimum	Average	ASTM D4716
1	586553	586553 - N	300052089	300052051			
2	586554	586554 - N	300052089	300052051			
3	586555	586555 - N	300052089	300052051	2.2	2.8	
4	586556	586556 - N	300052080	300052087			
5	586557	586557 - N	300052080	300052087			
6	586558	586558 - N	300052080	300052087			
7	586559	586559 - N	300052076	300051824			
8	586560	586560 - N	300052076	300051824	2.1	2.5	
9	586561	586561 - N	300052076	300051824			
10	586562	586562 - N	300069529	300052084			
11	586563	586563 - N	300069529	300052084			
12	586564	586564 - N	300069529	300052084			
13	586565	586565 - N	300052078	300052043	2.4	2.9	6.12X10 ⁻⁴
14	586566	586566 - N	300052078	300052043			
15	586567	586567 - N	300052078	300052043			
16	586568	586568 - N	300052064	300052045			
17	586569	586569 - N	300052064	300052045			
18	586570	586570 - N	300052064	300052045	2.3	2.7	
19	586571	586571 - N	300069492	300052058			
20	586572	586572 - N	300069492	300052058			
21	586573	586573 - N	300069492	300052058			
22	586574	586574 - N	300052091	300052062			
23	586575	586575 - N	300052091	300052062	2.0	2.5	
24	586576	586576 - N	300052091	300052062			
25	586577	586577 - N	300052083	300052046			
26	586578	586578 - N	300052083	300052046			
27	586579	586579 - N	300052083	300052046			

Name : Tarli N. Patel

Signature : T Patel

Title : Quality Control Manager

Date :

09/07/01



Engineered Synthetic
Products, Inc.

SKAPS INDUSTRIES

571 Industrial Parkway
Commerce, GA 30529
Phone # 706-336-7000
Fax # 706-336-7007

GEONET QUALITY CONTROL TEST RESULTS

Shipper # 22
Product : TN220-2-6
Project Name : Marcy Excavation Co., Inc., McGraw, NY

We, the Geonet Manufacturer, hereby certify the following for material delivered to the above referenced project :

Geonet Roll Number	Lot Number	Density (g/cc) ASTM D1505	Mass Per Unit Area (lb./ft.2) ASTM D5261	Thickness (mils) ASTM D5199	Carbon Black Content (%) ASTM D1603	Tensile Strength (MD) (lb./in) ASTM D1682	Transmissivity (m ² /sec) ASTM D4716
586553 - N	25568	0.950					
586554 - N	25568	0.950					
586555 - N	25568	0.950	0.229	223	2.2	64	
586556 - N	25568	0.950					
586557 - N	25568	0.950					
586558 - N	25568	0.950					
586559 - N	25568	0.950					
586560 - N	25568	0.950	0.225	221	2.4	67	
586561 - N	25568	0.950					
586562 - N	25568	0.950					
586563 - N	25568	0.950					
586564 - N	25568	0.950					
586565 - N	25568	0.950	0.230	223	2.1	63	1.63X10 ⁻³
586566 - N	25568	0.950					
586567 - N	25568	0.950					
586568 - N	25568	0.950					
586569 - N	25568	0.950					
586570 - N	25568	0.950	0.233	222	2.3	65	
586571 - N	25568	0.950					
586572 - N	25568	0.950					
586573 - N	25568	0.950					
586574 - N	25568	0.950					
586575 - N	25568	0.950	0.226	220	2.6	70	
586576 - N	25568	0.950					
586577 - N	25568	0.950					
586578 - N	25568	0.950					
586579 - N	25568	0.950					

Name : Tarli N. Patel Signature : T. Patel
Title : Quality Control Manager Date : 09/07/01





9855 Greenville Highway
Building F
Spartanburg, SC 29301
800-867-5181
fax: 864-949-6222

August 21, 2001
REF TNS H060
Quantity Shipped 27 rolls
BOL# 000801593

Skaps Industries
571 Industrial Pkwy.
Commerce, GA 30529

Dear Sir/Madam.

This is to certify that TNS H060 is a 100% polypropylene, nonwoven, needle-punched fabric. TNS H060 is resistant to degradation due to ultraviolet exposure and resists commonly encountered soil chemicals, insects, mildew, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13. TNS H060 conforms to the physical properties listed in the following table:

<u>FABRIC PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>M.A.R.V</u>
Weight	ASTM D 3776	oz/sy	6.0
Thickness	ASTM D 5199	mils	85
Grab Tensile	ASTM D 4632	lbs	160
Grab Elongation	ASTM D 4632	%	60
Trap Tear	ASTM D 4533	lbs	65
Puncture	ASTM D 4833	lbs	95
Mullen Burst	ASTM D 3786	psi	350
A.O.S	ASTM D 4751	U.S. Sieve	80
Permittivity	ASTM D 4491	l/sec	1.63
Water Flow	ASTM D 4491	gpm/sq ft	125
Permeability	ASTM D 4491	cm/sec	45

Marshall O. Gaddy
Marshall O. Gaddy
Quality Control Manager

7/25/01 10:00 AM

DATE: 8/20/01

PAGE: 1
INQ00019TWS MILLS, INC.
NONWOVEN QUALITY DATA
FOR BOLL 000801593

ROLL #	STYL.	WDT	LG	FABR WGHT	THCK	GRAB MD	GRAB XSD	ELNG MD	ELNG XSD	TRAP MD	TRAP XSD	PONC REST	BRST STRE	FLOW RATE	PERM ABI	PERM ITY	AUS
300051824	H060	180	900	6.4	120	170	179	68	96	84	115	99	368	240	1.090	3.76	100
300052043	H060	180	900	6.6	100	170	168	64	84	81	85	96	353	194	.760	3.04	100
300052045	H060	180	900	6.6	100	170	168	64	84	81	85	96	353	194	.760	3.04	100
300052046	H060	180	900	6.6	100	170	168	64	84	81	85	96	353	194	.760	3.04	100
300052051	H060	180	900	6.6	100	170	168	64	84	81	85	96	353	194	.760	3.04	100
300052056	H060	180	900	6.2	97	165	173	68	78	76	81	96	361	162	.520	2.54	100
300052057	H060	180	900	6.2	97	165	173	68	78	76	81	96	361	162	.520	2.54	100
300052058	H060	180	900	6.4	112	172	173	74	103	76	81	96	361	162	.520	2.54	100
300052061	H060	180	900	6.4	112	172	173	74	103	76	81	96	361	162	.520	2.54	100
300052062	H060	180	900	6.4	112	172	173	74	103	76	81	96	361	162	.520	2.54	100
300052064	H060	180	900	6.3	111	174	179	74	88	69	72	98	360	162	.520	2.54	100
300052074	H060	180	900	6.3	111	174	179	74	88	69	72	98	360	162	.520	2.54	100
300052075	H060	180	900	6.3	111	174	179	74	88	69	72	98	360	162	.520	2.54	100
300052076	H060	180	900	6.3	111	174	179	74	88	69	72	98	360	162	.520	2.54	100
300052078	H060	180	900	6.3	111	174	179	74	88	69	72	98	360	162	.520	2.54	100
300052080	H060	180	900	6.3	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052081	H060	180	900	6.5	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052083	H060	180	900	6.5	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052084	H060	180	900	6.5	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052085	H060	180	900	6.5	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052087	H060	180	900	6.5	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052088	H060	180	900	6.5	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052089	H060	180	900	6.5	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052091	H060	180	900	6.5	111	167	187	71	96	76	81	96	361	162	.520	2.54	100
300052094	H060	180	900	6.3	116	163	185	66	82	82	114	99	364	221	1.000	3.46	100
300052094	H060	180	900	6.7	118	186	208	73	96	83	96	108	364	211	.930	3.32	100
300069492	H060	180	900	6.3	115	182	189	69	97	73	102	108	365	203	.880	3.18	100
300069529	H060	180	900	6.3	115	182	189	69	97	73	102	108	365	203	.880	3.18	100

TOTAL NUMBER OF ROLLS 27

Appendix B

Section: 2.B

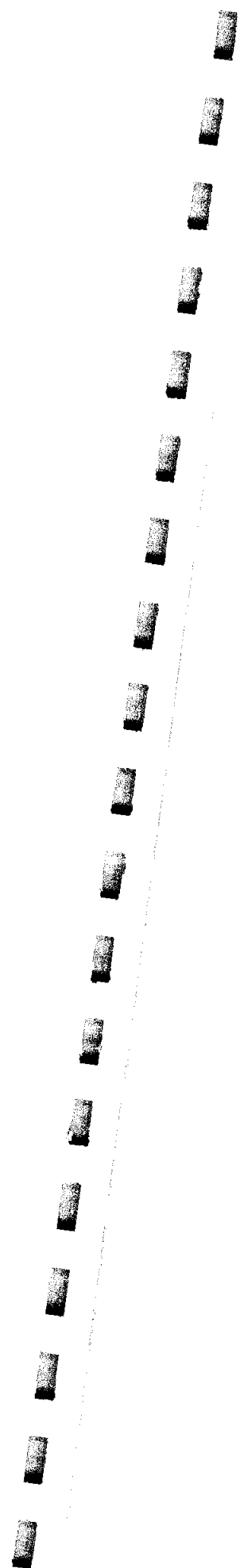
Conformance Test Results

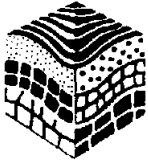
**COMPOSITE GEONET (SECTION 02237)
CONFORMANCE TEST RESULTS SUMMARY
Cortland County Landfill Remedial Action Landfill Closure 331.035**

SAMPLE NO.	DATE SAMPLED	LOT NUMBER	ROLL NUMBER	CUMULATIVE AREA (sf)	GEONET CORE				GEOTEXTILE				COMPOSITE GEONET	
					Mass per Unit Area (lb/ft ²)	Specific Gravity na	Thickness (mils)	Melt Flow Index (g/10 min.)	AOS (US sieve)	Mass per Unit Area (oz/sy)	Grab Strength MD / TD (lbs)	Grab Elongatio MD / TD (%)	Transmissivity (m ² /sec)	Ply Adhesion MD : top / bottom (lb/in)
					D5281	D1505	D5199	D1238	D4751	D5251	D4832	D4632	D4716	D413
TEST METHOD					100,000 sf				100,000 sf				100,000 sf	
SAMPLE FREQUENCY														
SPECIFICATIONS					0.182	.940 (min)	220 (min)	1.0 (max)	70-120	6 (min)	160 (min)	50 (min)	2.20.E-04	1.0
4754	18-May-01		586001	100,000	0.280	0.948	259.2	0.191	80	6.3	186.8 / 185.9	56.6 / 74.0	3.59.E-04	3.1 / 2.2
									100	6.6	181.0 / 199.8	60.5 / 70.0		
4765	18-May-01		586030	200,000	0.259	0.949	256.8	0.191	120	7.0	197.0 / 199.5	59.9 / 74.2	5.08.E-04	2.7 / 4.1
									70	6.2	172.3 / 196.1	59.3 / 69.1		
4766	18-May-01		586050	300,000	0.263	0.948	258.0	0.179	70	6.7	188.3 / 219.3	70.7 / 76.9	4.25.E-04	4.1 / 3.0
									120	6.6	186.4 / 176.7	53.4 / 75.2		
4767	18-May-01		586080	400,000	0.288	0.948	264.7	0.193	120	6.4	196.2 / 205.5	64.2 / 85.1	3.78.E-04	3.5 / 2.3
									100	6.3	195.0 / 203.7	60.9 / 81.8		
4768	18-May-01		586120	500,000	0.280	0.947	260.0	0.191	100	6.4	173.3 / 193.0	61.0 / 79.4	4.37.E-04	3.4 / 2.6
									120	6.7	185.1 / 212.8	67.0 / 75.2		
4896	12-Jun-01		586136	600,000	0.257	0.945	250.0	0.154	70	7.0	206.6 / 250.9	68.9 / 82.2	6.52.E-04	1.2 / 1.4
									70	6.8	209.3 / 246.0	72.3 / 79.2		
4897	12-Jun-01		586165	700,000	0.263	0.946	246.6	0.157	80	7.1	198.9 / 213.0	69.3 / 78.6	6.36.E-04	2.8 / 3.3
									70	7.7	221.6 / 240.5	86.0 / 99.7		
4898	12-Jun-01		586194	800,000	0.281	0.947	262.7	0.153	70	6.5	197.3 / 225.6	63.9 / 80.2	6.05.E-04	2.0 / 2.9
									60	6.2	198.2 / 225.8	66.9 / 87.2		
4899	12-Jun-01		586223	900,000	0.262	0.947	246.2	0.151	70	7.0	212.7 / 221.7	67.4 / 80.9	5.84.E-04	2.6 / 2.6
									70	7.6	230.0 / 259.4	72.5 / 81.0		
4900	12-Jun-01		586252	1,000,000	0.279	0.946	255.6	0.153	70	7.5	239.1 / 1063.7	83.4 / 94.8	7.58.E-04	2.4 / 1.8
									80	6.9	209.5 / 226.5	70.7 / 79.0		
5011	6-Jul-01		586271	1,100,000	0.255	0.945	259.0	0.447	70	6.4	108.7 / 189.4	62.7 / 74.4	7.94.E-04	4.1 / 5.0
									70	6.3	172.4 / 182.1	62.5 / 72.7		
5012	6-Jul-01		586300	1,200,000	0.270	0.945	260.0	0.435	70	6.3	170.1 / 177.9	59.1 / 74.8	6.45.E-04	3.9 / 5.4
									80	6.5	171.7 / 195.4	62.3 / 69.0		
5013	6-Jul-01		586328	1,300,000	0.270	0.945	262.6	0.427	70	6.5	167.9 / 184.2	58.6 / 77.3	8.78.E-04	3.1 / 4.4
									70	5.2	163.5 / 209.1	65.3 / 79.3		
5014	6-Jul-01		586357	1,400,000	0.256	0.945	252.9	0.427	80	6.9	206.6 / 216.8	61.0 / 76.4	7.56.E-04	3.0 / 2.7
									70	6.1	171.2 / 215.8	62.1 / 79.4		
5015	6-Jul-01		586385	1,500,000	0.287	0.945	265.6	0.427	70	6.2	183.7 / 184.4	62.7 / 77.6	1.00.E-03	1.8 / 3.0
									70	6.2	173.2 / 208.6	63.5 / 81.3		
5016	6-Jul-01		586405	1,600,000	0.258	0.945	258.9	0.450	100	6.3	167.5 / 206.4	57.9 / 80.5	7.76.E-04	3.5 / 3.2
									80	6.8	176.4 / 202.0	58.1 / 82.5		
5124	6-Jul-01		586406	1,700,000	0.257	0.950	255.5	0.441	70	6.1	175.3 / 206.6	64.5 / 78.2	6.31.E-04	3.0 / 3.2
									70	6.4	194.4 / 212.9	63.8 / 75.1		
5125	6-Jul-01		586434	1,800,000	0.270	0.951	248.7	0.153	70	6.9	163.7 / 194.7	54.6 / 68.3	5.61.E-04	2.0 / 3.6
									80	6.4	183.0 / 204.3	59.1 / 72.0		
5126	6-Jul-01		586463	1,900,000	0.263	0.951	254.9	0.151	70	6.4	175.4 / 194.9	57.5 / 67.7	5.12.E-04	3.1 / 3.2
									70	6.7	189.0 / 230.4	60.3 / 77.1		
5127	6-Jul-01		586492	2,000,000	0.254	0.951	250.4	0.145	70	6.3	187.9 / 226.5	69.2 / 75.7	8.94.E-04	6.3 / 5.9
									70	6.4	201.6 / 213.3	64.0 / 76.9		
5128	6-Jul-01		586521	2,100,000	0.249	0.950	246.7	0.150	100	6.6	193.7 / 210.7	62.1 / 71.1	6.02.E-04	5.0 / 4.4
									80	6.8	200.5 / 230.7	81.1 / 85.2		
5129	6-Jul-01		586540	2,200,000	0.272	0.951	255.9	0.148	70	7.3	195.0 / 205.1	66.1 / 77.0	8.15.E-04	4.9 / 4.9
									70	6.4	186.1 / 215.0	57.9 / 73.7		

Note: MD = Machine Direction
TD = Transverse Direction

REV 11/30/01





GeoTesting Express, Inc.

2658 HOLCOMB BRIDGE AVENUE, SUITE 110
ALPHARETTA, GA 30022
770-645-6575 (FAX) 770-645-6570

June 6, 2001

Mr. David Acton
Marcy Excavation Co.
2256 Board Street
Frankfort, New York 13340

Subject: Test Report(s) – CORTLAND COUNTY LANDFILL

Dear Mr. Acton:

GeoTesting Express of Georgia, Inc. (GTX of GA) is pleased to present the attached test report(s) for the above-mentioned project. The note section below addresses sample preparation, sample disposal and a disclosure statement.

GTX of GA appreciates the opportunity to provide testing services for this project. Should you have any questions regarding the attached document(s), or if you require additional information, please do not hesitate to contact me.

Sincerely,

Barry E. Sigmon, P.G.
Laboratory Manager

Attachment

Note:

Unless otherwise noted in the test report(s), the sample(s)/specimen(s) were prepared in accordance with the applicable test standard or generally accepted sampling procedures.

Contaminated/Chemical samples and all related laboratory generated waste (i.e., test liquids, PPE, absorbents, etc.) will be returned to the client or designated representative(s), at the client's cost, within 45 days following the completion of the testing program, unless special arrangements for proper disposal are made with GTX of GA.

Materials that are not contaminated will be discarded after test specimens and archived specimens are obtained. Archived specimens will be discarded 60 days after the samples are received at the laboratory, unless long-term storage arrangements are specifically made with the laboratory.

The test results apply only to the materials tested and do not necessarily indicate the quality or condition of apparently identical or similar materials. The testing was performed in accordance with the general engineering standards and conditions reported. The test results are related to the testing conditions used during the testing program. When requested or necessary, minor modifications to a test standard might have been applied. As a mutual protection to the client, the public, and GTX of GA, the reported results are submitted and accepted for the exclusive use of the client and upon the condition that the results are not used, in whole or in part, in any advertising, promotional or publicity matter without prior written authorization from GTX of GA.

G0216

**Geotechnical and
Geosynthetic Testing Services**



MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001
Sample Number:	4759
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	37.11	1403	41.4	0.287
2	35.81	1354	39.9	0.277
3	36.35	1374	40.5	0.281
4	36.41	1377	40.6	0.282
5	35.36	1337	39.4	0.274
Avg.	36.21	1369	40.4	0.280
S.D.	0.66	25	0.7	0.005

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586030
Sample Number:	4760
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	31.95	1208	35.6	0.247
2	32.88	1243	36.7	0.255
3	34.65	1310	38.6	0.268
4	33.42	1264	37.3	0.259
5	34.22	1294	38.2	0.265
Avg.	33.42	1264	37.3	0.259
S.D.	1.07	41	1.2	0.008

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

 GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 •  5-24-01 www.geotest.com

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060
Sample Number:	4761
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	34.62	1309	38.6	0.268
2	32.63	1234	36.4	0.253
3	33.33	1260	37.2	0.258
4	34.37	1299	38.3	0.266
5	35.15	1329	39.2	0.272
Avg.	34.02	1286	37.9	0.263
S.D.	1.02	39	1.1	0.008

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

 GeoTesting Express, Inc. • Alpharetta, GA • (770) 645-6575 •  5-24-01 • www.geotest.com

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090
Sample Number:	4762
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	35.03	1324	39.1	0.271
2	35.90	1357	40.0	0.278
3	37.03	1400	41.3	0.287
4	39.41	1490	43.9	0.305
5	38.82	1468	43.3	0.301
Avg.	37.24	1408	41.5	0.288
S.D.	1.87	71	2.1	0.014

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120
Sample Number:	4763
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	35.22	1332	39.3	0.273
2	36.53	1381	40.7	0.283
3	36.01	1361	40.2	0.279
4	36.29	1372	40.5	0.281
5	36.68	1387	40.9	0.284
Avg.	36.15	1367	40.3	0.280
S.D.	0.58	22	0.6	0.004

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN

ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001
Sample Number:	4759
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Density @ 23°C (g/cc)
1	0.948
2	0.948
3	0.947
Avg.	0.948

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN

ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586030
Sample Number:	4760
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Density @ 23°C (g/cc)
1	0.949
2	0.949
3	0.948
Avg.	0.949

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060
Sample Number:	4761
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Density @ 23°C (g/cc)
1	0.948
2	0.948
3	0.948
Avg.	0.948

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN

ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090
Sample Number:	4762
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Density @ 23°C (g/cc)
1	0.948
2	0.948
3	0.948
Avg.	0.948

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120
Sample Number:	4763
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Density @ 23°C (g/cc)
1	0.947
2	0.947
3	0.947
Avg.	0.947

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001
Sample Number:	4759
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2524	252.4	6.41
2	0.2528	252.8	6.42
3	0.2614	261.4	6.64
4	0.2650	265.0	6.73
5	0.2583	258.3	6.56
6	0.2606	260.6	6.62
7	0.2543	254.3	6.46
8	0.2547	254.7	6.47
9	0.2591	259.1	6.58
10	0.2634	263.4	6.69
Avg.	0.2582	258.2	6.56
S.D.	0.0045	4.5	0.11

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:
Project Number:
Client Project Number:
Client/Site ID:
Sample Number:
Material Type:
Expected/Specified Value:
Date Received:

CORTLAND COUNTY LANDFILL
GTX-G0216
MEC 3651.002
586030
4760
GEONET
5/18/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2531	253.1	6.43
2	0.2618	261.8	6.65
3	0.2575	257.5	6.54
4	0.2630	263.0	6.68
5	0.2543	254.3	6.46
6	0.2606	260.6	6.62
7	0.2512	251.2	6.38
8	0.2535	253.5	6.44
9	0.2484	248.4	6.31
10	0.2646	264.6	6.72
Avg.	0.2568	256.8	6.52
S.D.	0.0055	5.5	0.14

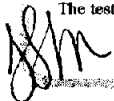
Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.



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BSS 5-24-01

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060
Sample Number:	4761
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2551	255.1	6.48
2	0.2587	258.7	6.57
3	0.2689	268.9	6.83
4	0.2543	254.3	6.46
5	0.2594	259.4	6.59
6	0.2646	264.6	6.72
7	0.2528	252.8	6.42
8	0.2591	259.1	6.58
9	0.2563	256.3	6.51
10	0.2508	250.8	6.37
Avg.	0.2580	258.0	6.55
S.D.	0.0055	5.5	0.14

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090
Sample Number:	4762
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2713	271.3	6.89
2	0.2618	261.8	6.65
3	0.2670	267.0	6.78
4	0.2709	270.9	6.88
5	0.2634	263.4	6.69
6	0.2677	267.7	6.80
7	0.2626	262.6	6.67
8	0.2606	260.6	6.62
9	0.2630	263.0	6.68
10	0.2587	258.7	6.57
Avg.	0.2647	264.7	6.72
S.D.	0.0043	4.3	0.11

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120
Sample Number:	4763
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2583	258.3	6.56
2	0.2661	266.1	6.76
3	0.2512	251.2	6.38
4	0.2661	266.1	6.76
5	0.2539	253.9	6.45
6	0.2657	265.7	6.75
7	0.2563	256.3	6.51
8	0.2528	252.8	6.42
9	0.2709	270.9	6.88
10	0.2587	258.7	6.57
Avg.	0.2600	260.0	6.60
S.D.	0.0068	6.8	0.17

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001
Sample Number:	4759
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Melt Index (g/10 min)
1	0.193
2	0.189
Avg.	0.191

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586030
Sample Number:	4760
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Melt Index (g/10 min)
1	0.189
2	0.194
Avg	0.191

Notes:

Temperature = 190 °C, Load = 2.16 kg

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060
Sample Number:	4761
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Melt Index (g/10 min)
1	0.180
2	0.178
Avg	0.179

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090
Sample Number:	4762
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Melt Index (g/10 min)
1	0.192
2	0.195
Avg.	0.193

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120
Sample Number:	4763
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Melt Index (g/10 min)
1	0.193
2	0.190
Avg	0.191

Notes:

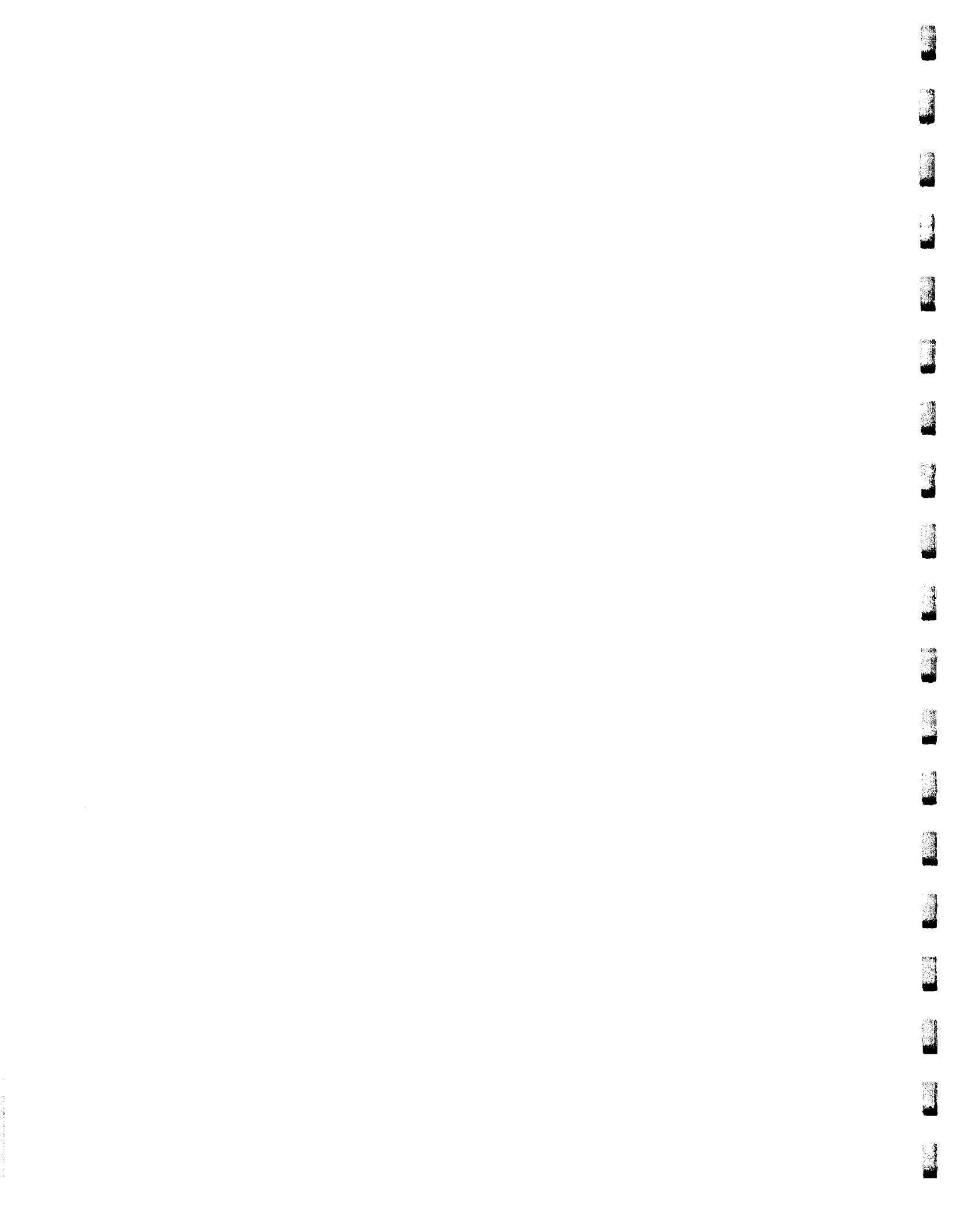
Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586001/300067678
Sample Number:	4769
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.163	80
B	0.165	80
C	0.181	70
D	0.190	70
E	0.159	80
Ave.	0.172	80
S.D.	0.013	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586001/300067677
Sample Number:	4770
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.123	120
B	0.130	100
C	0.117	120
D	0.143	100
E	0.145	100
Ave.	0.131	100
S.D.	0.012	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE

ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586030/300067699
Sample Number:	4771
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.105	140
B	0.106	120
C	0.105	140
D	0.136	100
E	0.105	140
Ave.	0.111	120
S.D.	0.014	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586030/300067686
Sample Number:	4772
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.168	80
B	0.184	70
C	0.204	70
D	0.207	70
E	0.204	70
Ave.	0.193	70
S.D.	0.017	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586060/300067735
Sample Number:	4773
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.192	70
B	0.186	70
C	0.180	70
D	0.197	70
E	0.183	70
Ave.	0.188	70
S.D.	0.007	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586060/300067722
Sample Number:	4774
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.106	140
B	0.140	100
C	0.121	120
D	0.075	170
E	0.133	100
Ave.	0.115	120
S.D.	0.026	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE **ASTM D4751**

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586090/300066596
Sample Number:	4775
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.105	140
B	0.105	140
C	0.105	140
D	0.147	100
E	0.133	100
Ave.	0.119	120
S.D.	0.020	N/A

Notes:

Deviations:
 Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586090/300066591
Sample Number:	4776
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.147	100
B	0.189	70
C	0.133	100
D	0.115	120
E	0.133	100
Ave.	0.144	100
S.D.	0.028	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586120/300067385
Sample Number:	4777
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.123	120
B	0.147	100
C	0.128	100
D	0.131	100
E	0.131	100
Ave.	0.132	100
S.D.	0.009	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY L.F.
Project Number:	GTX-G0216
Client Project Number:	MEC-3651.002
Client/Site ID:	586120/30006796
Sample Number:	4778
Material Type:	NONWOVEN GEOTEXTIL
Expected/Specified Value:	N/A
Date Received:	05/18/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.130	100
B	0.135	100
C	0.106	120
D	0.110	120
E	0.105	140
Ave.	0.117	120
S.D.	0.014	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

MASS PER UNIT AREA
ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001 / 300067678
Sample Number:	4769
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.08	198	5.8	0.040
2	3.93	190	5.6	0.039
3	5.30	257	7.6	0.053
4	4.07	197	5.8	0.040
5	4.51	218	6.4	0.045
Avg.	4.38	212	6.3	0.043
S.D.	0.56	27	0.8	0.006

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001 / 300067677
Sample Number:	4770
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.77	231	6.8	0.047
2	4.75	230	6.8	0.047
3	4.57	221	6.5	0.045
4	4.54	220	6.5	0.045
5	4.62	224	6.6	0.046
Avg.	4.65	225	6.6	0.046
S.D.	0.10	5	0.1	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name: CORTLAND COUNTY LANDFILL
Project Number: GTX-G0216
Client Project Number: MEC 3651.002
Client/Site ID: 586030 / 300067699
Sample Number: 4771
Material Type: NONWOVEN GEOTEXTILE
Expected/Specified Value:
Date Received: 5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.69	227	6.7	0.047
2	4.82	233	6.9	0.048
3	5.23	253	7.5	0.052
4	5.14	249	7.3	0.051
5	4.58	222	6.5	0.045
Avg.	4.89	237	7.0	0.049
S.D.	0.28	14	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BSS 5-24-01

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586030 / 300067686
Sample Number:	4772
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.15	201	5.9	0.041
2	4.42	214	6.3	0.044
3	4.54	220	6.5	0.045
4	4.21	204	6.0	0.042
5	4.36	211	6.2	0.043
Avg.	4.34	210	6.2	0.043
S.D.	0.16	8	0.2	0.002

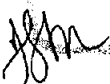
Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.



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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060 / 300067735
Sample Number:	4773
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.80	233	6.9	0.048
2	4.68	227	6.7	0.046
3	5.07	246	7.2	0.050
4	4.42	214	6.3	0.044
5	4.43	215	6.3	0.044
Avg.	4.68	227	6.7	0.046
S.D.	0.27	13	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060 / 300067722
Sample Number:	4774
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.45	216	6.4	0.044
2	4.21	204	6.0	0.042
3	5.38	261	7.7	0.053
4	4.27	207	6.1	0.042
5	4.78	232	6.8	0.047
Avg.	4.62	224	6.6	0.046
S.D.	0.48	23	0.7	0.005

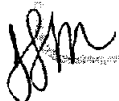
Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.



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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090 / 300066596
Sample Number:	4775
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.24	205	6.1	0.042
2	4.06	197	5.8	0.040
3	5.03	244	7.2	0.050
4	4.73	229	6.8	0.047
5	4.20	203	6.0	0.042
Avg.	4.45	216	6.4	0.044
S.D.	0.41	20	0.6	0.004

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name: CORTLAND COUNTY LANDFILL
Project Number: GTX-G0216
Client Project Number: MEC 3651.002
Client/Site ID: 586090 / 300066591
Sample Number: 4776
Material Type: NONWOVEN GEOTEXTILE
Expected/Specified Value:
Date Received: 5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.04	196	5.8	0.040
2	4.39	213	6.3	0.044
3	4.76	231	6.8	0.047
4	4.62	224	6.6	0.046
5	4.36	211	6.2	0.043
Avg.	4.43	215	6.3	0.044
S.D.	0.28	13	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.



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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120 / 300067385
Sample Number:	4777
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.47	217	6.4	0.044
2	4.10	199	5.9	0.041
3	4.87	236	7.0	0.048
4	4.49	217	6.4	0.045
5	4.32	209	6.2	0.043
Avg.	4.45	216	6.4	0.044
S.D.	0.28	14	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.



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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120 / 300067396
Sample Number:	4778
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.68	227	6.7	0.046
2	4.69	227	6.7	0.047
3	4.70	228	6.7	0.047
4	4.79	232	6.8	0.048
5	4.67	226	6.7	0.046
Avg.	4.71	228	6.7	0.047
S.D.	0.05	2	0.1	0.000

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001 / 300067678
Sample Number:	4769
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	177.6	790.0	189.8	844.3	60.3	81.0
2	176.0	782.9	184.2	819.4	54.7	77.0
3	186.3	828.7	200.8	893.2	57.0	69.3
4	147.2	654.8	176.1	783.3	57.3	55.3
5	158.0	702.8	181.8	808.7	54.7	70.0
6	159.6	709.9	176.3	784.2	62.7	79.3
7	153.0	680.6	178.8	795.3	53.3	89.3
8	162.8	724.2	190.5	847.4	50.0	81.0
9	181.1	805.6	189.1	841.2	53.7	73.0
10	166.2	739.3	191.2	850.5	62.0	64.3
Avg.	166.8	741.9	185.9	826.7	56.6	74.0
S.D.	12.9	57.5	7.9	34.9	4.1	9.7

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES **ASTM D4632 ⁽¹⁾**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001 / 300067677
Sample Number:	4770
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	182.2	810.5	219.7	977.3	65.3	70.7
2	199.0	885.2	189.1	841.2	57.7	68.7
3	159.5	709.5	189.8	844.3	56.7	66.3
4	174.3	775.3	215.6	959.0	58.0	76.7
5	173.1	770.0	182.3	810.9	62.3	70.0
6	182.1	810.0	197.1	876.7	62.3	74.0
7	183.3	815.4	208.3	926.6	57.7	71.3
8	201.1	894.5	180.2	801.6	64.0	65.0
9	177.2	788.2	207.8	924.3	63.3	69.0
10	177.7	790.4	208.1	925.7	58.0	68.7
Avg.	181.0	804.9	199.8	888.8	60.5	70.0
S.D.	12.2	54.1	14.0	62.3	3.2	3.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586030 / 300067699
Sample Number:	4771
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	207.3	922.1	195.2	868.3	65.3	74.0
2	204.6	910.1	185.0	822.9	55.0	72.3
3	203.8	906.5	205.2	912.8	53.3	73.3
4	193.3	859.8	202.2	899.4	63.3	76.7
5	160.8	715.3	223.5	994.2	64.0	73.7
6	189.3	842.0	187.6	834.5	70.3	70.3
7	200.2	890.5	203.3	904.3	57.0	74.3
8	222.8	991.1	191.2	850.5	59.0	74.3
9	211.1	939.0	195.6	870.1	53.7	80.3
10	176.6	785.6	205.7	915.0	58.0	72.3
Avg.	197.0	876.2	199.5	887.2	59.9	74.2
S.D.	17.9	79.6	11.2	49.7	5.6	2.7

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586030 / 300067686
Sample Number:	4772
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	179.5	798.5	178.5	794.0	73.0	65.3
2	207.7	923.9	191.0	849.6	64.7	78.0
3	157.6	701.0	187.8	835.4	59.3	65.7
4	151.8	675.2	223.7	995.1	60.7	64.0
5	165.6	736.6	205.6	914.6	67.3	85.0
6	175.6	781.1	207.3	922.1	57.0	67.0
7	198.6	883.4	184.3	819.8	51.7	68.0
8	153.8	684.1	203.1	903.4	52.0	67.7
9	149.8	666.3	179.8	799.8	52.3	64.7
10	183.3	815.4	219.9	978.0	55.0	65.3
Avg.	172.3	766.6	198.1	881.2	59.3	69.1
S.D.	20.2	89.7	16.2	72.0	7.2	6.9

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060 / 300067735
Sample Number:	4773
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	206.2	917.2	215.8	959.9	66.0	59.3
2	197.6	879.0	207.5	923.0	70.3	84.3
3	191.3	850.9	205.2	912.8	70.0	80.3
4	203.8	906.5	212.3	944.4	76.0	78.0
5	191.1	850.1	218.8	973.3	69.0	79.7
6	175.6	781.1	223.8	995.5	73.7	70.7
7	209.8	933.2	227.8	1013.3	65.7	80.0
8	208.3	926.6	235.8	1048.9	72.0	79.7
9	191.7	852.7	212.3	944.4	69.3	83.0
10	207.7	923.9	234.1	1041.3	75.3	74.0
Avg.	198.3	882.1	219.3	975.7	70.7	76.9
S.D.	10.9	48.6	10.7	47.6	3.5	7.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES
ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060 / 300067722
Sample Number:	4774
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	188.3	837.6	173.6	772.2	57.7	69.0
2	181.6	807.8	169.1	752.2	51.7	70.0
3	199.0	885.2	185.7	826.0	56.0	85.7
4	185.1	823.4	178.6	794.5	55.3	73.7
5	175.7	781.6	176.3	784.2	59.3	71.7
6	177.3	788.7	178.3	793.1	55.3	71.7
7	167.2	743.7	179.3	797.6	54.0	73.7
8	216.0	960.8	156.3	695.3	48.0	74.3
9	197.8	879.9	189.5	842.9	44.7	85.0
10	176.1	783.3	180.1	801.1	51.7	77.0
Avg.	186.4	829.2	176.7	785.9	53.4	75.2
S.D.	14.4	64.0	9.1	40.7	4.5	5.8

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090 / 300066596
Sample Number:	4775
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	158.7	705.9	204.2	908.3	64.7	77.0
2	223.3	993.3	185.7	826.0	59.7	89.7
3	236.3	1051.1	183.3	815.4	67.3	90.0
4	208.1	925.7	227.6	1012.4	67.0	75.3
5	172.2	766.0	221.2	983.9	63.7	84.0
6	188.2	837.2	213.2	948.4	61.3	86.3
7	161.6	718.8	198.3	882.1	67.3	80.0
8	229.0	1018.6	209.1	930.1	63.7	95.7
9	192.7	857.2	188.7	839.4	61.0	93.3
10	192.0	854.1	223.3	993.3	66.7	80.0
Avg.	196.2	872.8	205.5	913.9	64.2	85.1
S.D.	27.6	122.6	16.1	71.8	2.9	7.0

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES **ASTM D4632 ⁽¹⁾**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090 / 300066591
Sample Number:	4776
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	166.3	739.7	222.5	989.7	64.3	77.7
2	213.5	949.7	201.7	897.2	65.3	87.3
3	205.0	911.9	209.6	932.3	61.7	92.0
4	200.0	889.6	201.7	897.2	61.0	80.3
5	157.2	699.3	194.8	866.5	60.7	78.0
6	182.1	810.0	183.6	816.7	65.7	82.0
7	171.2	761.5	213.0	947.5	54.7	77.7
8	257.7	1146.3	198.2	881.6	59.3	80.7
9	231.2	1028.4	174.0	774.0	51.3	83.0
10	176.2	783.8	237.8	1057.8	64.7	79.0
Avg.	196.0	872.0	203.7	906.1	60.9	81.8
S.D.	31.7	141.0	18.4	81.8	4.7	4.7

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120 / 300067385
Sample Number:	4777
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	181.2	806.0	176.0	782.9	62.3	71.3
2	223.7	995.1	188.3	837.6	61.7	90.7
3	178.2	792.7	184.7	821.6	58.3	94.7
4	145.2	645.9	216.3	962.2	55.0	80.0
5	151.0	671.7	205.8	915.4	62.7	82.7
6	184.6	821.1	190.0	845.2	69.7	78.3
7	163.3	726.4	167.6	745.5	59.0	70.7
8	152.0	676.1	182.2	810.5	59.3	81.0
9	157.0	698.4	224.2	997.3	62.0	72.0
10	196.7	875.0	195.0	867.4	60.3	72.3
Avg.	173.3	770.8	193.0	858.6	61.0	79.4
S.D.	24.5	109.0	17.7	78.9	3.8	8.3

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES
ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120 / 300067396
Sample Number:	4778
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	215.7	959.5	197.5	878.5	64.7	77.3
2	165.5	736.2	274.1	1219.3	65.3	77.0
3	189.8	844.3	227.7	1012.9	61.7	70.7
4	198.7	883.9	201.6	896.8	72.0	71.7
5	158.3	704.2	222.3	988.8	66.0	75.7
6	151.1	672.1	199.0	885.2	63.3	75.3
7	207.2	921.7	223.3	993.3	70.3	76.7
8	151.1	672.1	196.7	875.0	65.0	78.3
9	201.0	894.1	196.1	872.3	72.0	66.3
10	213.0	947.5	189.2	841.6	70.0	82.7
Avg.	185.1	823.5	212.8	946.4	67.0	75.2
S.D.	26.0	115.6	25.4	113.2	3.7	4.6

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001/TN220-2-6
Sample Number:	4764
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	3.41E-4	0.165
2	MD	96	2000	0.25	0.10	3.98E-4	0.192
3	MD	96	2000	0.25	0.10	3.39E-4	0.164

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
 Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586030/TN220-2-6
Sample Number:	4765
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	4.22E-4	0.204
2	MD	96	2000	0.25	0.10	5.76E-4	0.278
3	MD	96	2000	0.25	0.10	5.26E-4	0.254

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060/TN220-2-6
Sample Number:	4766
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	4.25E-4	0.205
2	MD	96	2000	0.25	0.10	4.03E-4	0.195
3	MD	96	2000	0.25	0.10	4.48E-4	0.217

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090/TN220-2-6
Sample Number:	4767
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	4.07E-4	0.196
2	MD	96	2000	0.25	0.10	3.66E-4	0.177
3	MD	96	2000	0.25	0.10	3.61E-4	0.175

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:

CORTLAND COUNTY LANDFILL

Project Number:

GTX-G0216

Client Project Number:

MEC 3651.002

Client/Site ID:

586120/TN220-2-6

Sample Number:

4768

Material Type:

GEOCOMPOSITE

Expected/Specified Value:

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	4.12E-4	0.200
2	MD	96	2000	0.25	0.10	4.24E-4	0.205
3	MD	96	2000	0.25	0.10	4.74E-4	0.228

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586001
Sample Number:	4764
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	1112	6.2	283	1.6	551	3.1	569	3.2
5	272	1.5	283	1.6	1141	6.4	1121	6.3
3	283	1.6	281	1.6	283	1.6	283	1.6
4	565	3.2	551	3.1	283	1.6	420	2.4
5	569	3.2	560	3.1	283	1.6	281	1.6
Avg.	560	3.1	392	2.2	509	2.8	535	3.0
S.D.	340	1.9	150	0.8	372	2.1	348	1.9

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586030
Sample Number:	4765
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	384	2.2	939	5.3	375	2.1	516	2.9
5	859	4.8	708	4.0	462	2.6	449	2.5
3	496	2.8	442	2.5	498	2.8	248	1.4
4	324	1.8	844	4.7	739	4.1	542	3.0
5	362	2.0	701	3.9	261	1.5	712	4.0
Avg.	485	2.7	727	4.1	467	2.6	493	2.8
S.D.	219	1.2	188	1.1	177	1.0	168	0.9

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586060
Sample Number:	4766
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	674	3.8	375	2.1	525	2.9	623	3.5
5	1123	6.3	647	3.6	536	3.0	496	2.8
3	482	2.7	792	4.4	641	3.6	342	1.9
4	659	3.7	205	1.2	337	1.9	449	2.5
5	685	3.8	694	3.9	478	2.7	540	3.0
Avg.	725	4.1	543	3.0	503	2.8	490	2.7
S.D.	238	1.3	244	1.4	110	0.6	105	0.6

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586090
Sample Number:	4767
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	504	2.8	429	2.4	357	2.0	534	3.0
5	299	1.7	705	4.0	190	1.1	357	2.0
3	565	3.2	429	2.4	1138	6.4	277	1.6
4	1152	6.5	299	1.7	326	1.8	317	1.8
5	629	3.5	163	0.9	304	1.7	997	5.6
Avg.	630	3.5	405	2.3	463	2.6	496	2.8
S.D.	317	1.8	201	1.1	383	2.1	297	1.7

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.002
Client/Site ID:	586120
Sample Number:	4768
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	5/18/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	560	3.1	395	2.2	1138	6.4	616	3.5
5	509	2.9	373	2.1	1131	6.3	498	2.8
3	1103	6.2	721	4.0	283	1.6	283	1.6
4	283	1.6	565	3.2	277	1.6	283	1.6
5	618	3.5	304	1.7	616	3.5	672	3.8
Avg.	615	3.4	471	2.6	689	3.9	471	2.6
S.D.	301	1.7	169	0.9	429	2.4	182	1.0

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.





GeoTesting Express, Inc.

2658 HOLCOMB BRIDGE AVENUE, SUITE 110
ALPHARETTA, GA 30022
770-645-6575 (FAX) 770-645-6570

July 2, 2001

Mr. David Acton
Marcy Excavation Co.
2256 Broad Street
P.O. Box 3410
Frankfort, New York 13340

Subject: Test Report(s) — CORTLAND COUNTY LANDFILL

Dear Mr. Acton

GeoTesting Express of Georgia, Inc. (GTX of GA) is pleased to present the attached test report(s) for the above-mentioned project. The note section below addresses sample preparation, sample disposal and a disclosure statement.

GTX of GA appreciates the opportunity to provide testing services for this project. Should you have any questions regarding the attached document(s), or if you require additional information, please do not hesitate to contact me.

Sincerely,

Barry E. Sigmon, P.G.
Laboratory Manager

Attachment

Note:

Unless otherwise noted in the test report(s), the sample(s)/specimen(s) were prepared in accordance with the applicable test standard or generally accepted sampling procedures.

Contaminated/Chemical samples and all related laboratory generated waste (i.e., test liquids, PPE, absorbents, etc.) will be returned to the client or designated representative(s), at the client's cost, within 45 days following the completion of the testing program, unless special arrangements for proper disposal are made with GTX of GA.

Materials that are not contaminated will be discarded after test specimens and archived specimens are obtained. Archived specimens will be discarded 60 days after the samples are received at the laboratory, unless long-term storage arrangements are specifically made with the laboratory.

The test results apply only to the materials tested and do not necessarily indicate the quality or condition of apparently identical or similar materials. The testing was performed in accordance with the general engineering standards and conditions reported. The test results are related to the testing conditions used during the testing program. When requested or necessary, minor modifications to a test standard might have been applied. As a mutual protection to the client, the public, and GTX of GA, the reported results are submitted and accepted for the exclusive use of the client and upon the condition that the results are not used, in whole or in part, in any advertising, promotional or publicity matter without prior written authorization from GTX of GA.

G0216.DOC

**Geotechnical and
Geosynthetic Testing Services**

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136
Sample Number:	4891
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	32.94	1245	36.7	0.255
2	33.37	1262	37.2	0.258
3	33.82	1279	37.7	0.262
4	34.25	1295	38.2	0.265
5	31.70	1198	35.3	0.245
Avg.	33.22	1256	37.0	0.257
S.D.	0.98	37	1.1	0.008

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165
Sample Number:	4892
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	35.46	1341	39.5	0.275
2	35.36	1337	39.4	0.274
3	33.59	1270	37.5	0.260
4	31.83	1203	35.5	0.246
5	33.33	1260	37.2	0.258
Avg.	33.91	1282	37.8	0.263
S.D.	1.52	58	1.7	0.012

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194
Sample Number:	4893
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	34.04	1287	38.0	0.264
2	39.12	1479	43.6	0.303
3	36.88	1394	41.1	0.286
4	36.40	1376	40.6	0.282
5	34.79	1315	38.8	0.269
Avg.	36.25	1370	40.4	0.281
S.D.	1.98	75	2.2	0.015

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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28m
6-13-01

BSS 6-20-01

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223
Sample Number:	4894
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	34.39	1300	38.3	0.266
2	35.20	1331	39.3	0.273
3	34.22	1294	38.2	0.265
4	32.61	1233	36.4	0.253
5	32.99	1247	36.8	0.255
Avg.	33.88	1281	37.8	0.262
S.D.	1.06	40	1.2	0.008

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

28m
6-13-01

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MASS PER UNIT AREA
ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252
Sample Number:	4895
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	36.83	1392	41.1	0.285
2	34.86	1318	38.9	0.270
3	35.22	1332	39.3	0.273
4	36.68	1387	40.9	0.284
5	36.55	1382	40.8	0.283
Avg.	36.03	1362	40.2	0.279
S.D.	0.92	35	1.0	0.007

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136
Sample Number:	4891
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Density @ 23°C (g/cc)
1	0.944
2	0.945
3	0.945
Avg.	0.945

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165
Sample Number:	4892
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Density @ 23°C (g/cc)
1	0.946
2	0.946
3	0.945
Avg.	0.946

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194
Sample Number:	4893
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Density @ 23°C (g/cc)
1	0.946
2	0.946
3	0.947
Avg.	0.947

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223
Sample Number:	4894
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Density @ 23°C (g/cc)
1	0.947
2	0.947
3	0.947
Avg.	0.947

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252
Sample Number:	4895
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Density @ 23°C (g/cc)
1	0.946
2	0.946
3	0.946
Avg.	0.946

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136
Sample Number:	4891
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2550	255.0	6.48
2	0.2555	255.5	6.49
3	0.2455	245.5	6.24
4	0.2490	249.0	6.32
5	0.2520	252.0	6.40
6	0.2505	250.5	6.36
7	0.2500	250.0	6.35
8	0.2515	251.5	6.39
9	0.2455	245.5	6.24
10	0.2450	245.0	6.22
Avg.	0.2500	250.0	6.35
S.D.	0.0038	3.8	0.10

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165
Sample Number:	4892
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2465	246.5	6.26
2	0.2485	248.5	6.31
3	0.2515	251.5	6.39
4	0.2495	249.5	6.34
5	0.2400	240.0	6.10
6	0.2440	244.0	6.20
7	0.2420	242.0	6.15
8	0.2420	242.0	6.15
9	0.2475	247.5	6.29
10	0.2545	254.5	6.46
Avg.	0.2466	246.6	6.26
S.D.	0.0046	4.6	0.12

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194
Sample Number:	4893
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2495	249.5	6.34
2	0.2580	258.0	6.55
3	0.2575	257.5	6.54
4	0.2565	256.5	6.52
5	0.2770	277.0	7.04
6	0.2575	257.5	6.54
7	0.2720	272.0	6.91
8	0.2685	268.5	6.82
9	0.2630	263.0	6.68
10	0.2670	267.0	6.78
Avg.	0.2627	262.7	6.67
S.D.	0.0084	8.4	0.21

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223
Sample Number:	4894
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2500	250.0	6.35
2	0.2505	250.5	6.36
3	0.2415	241.5	6.13
4	0.2410	241.0	6.12
5	0.2390	239.0	6.07
6	0.2415	241.5	6.13
7	0.2440	244.0	6.20
8	0.2515	251.5	6.39
9	0.2525	252.5	6.41
10	0.2505	250.5	6.36
Avg.	0.2462	246.2	6.25
S.D.	0.0052	5.2	0.13

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252
Sample Number:	4895
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2565	256.5	6.52
2	0.2560	256.0	6.50
3	0.2590	259.0	6.58
4	0.2555	255.5	6.49
5	0.2570	257.0	6.53
6	0.2610	261.0	6.63
7	0.2590	259.0	6.58
8	0.2510	251.0	6.38
9	0.2495	249.5	6.34
10	0.2510	251.0	6.38
Avg.	0.2556	255.6	6.49
S.D.	0.0039	3.9	0.10

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136
Sample Number:	4891
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Melt Index (g/10 min)
1	0.153
2	0.154
Avg.	0.154

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165
Sample Number:	4892
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Melt Index (g/10 min)
1	0.158
2	0.156
Avg.	0.157

Notes:

Temperature = 190 °C, Load = 2.16 kg

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194
Sample Number:	4893
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Melt Index (g/10 min)
1	0.155
2	0.151
Avg.	0.153

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223
Sample Number:	4894
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Melt Index (g/10 min)
1	0.151
2	0.150
Avg.	0.151

Notes:

Temperature = 190 °C, Load = 2.16 kg

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252
Sample Number:	4895
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Melt Index (g/10 min)
1	0.152
2	0.153
Avg.	0.153

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.006
Client/Site ID:	586136/300069260
Sample Number:	4901
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.205	70
B	0.211	70
C	0.204	70
D	0.206	70
E	0.207	70
Ave.	0.206	70
S.D.	0.003	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136/300069253
Sample Number:	4902
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.206	70
B	0.199	70
C	0.208	70
D	0.200	70
E	0.197	70
Ave.	0.202	70
S.D.	0.005	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165/300069307
Sample Number:	4903
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.142	100
B	0.163	80
C	0.166	80
D	0.149	100
E	0.194	70
Ave.	0.163	80
S.D.	0.020	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165/300069292
Sample Number:	4904
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.194	70
B	0.205	70
C	0.199	70
D	0.203	70
E	0.205	70
Ave.	0.201	70
S.D.	0.005	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194/300069269
Sample Number:	4905
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.199	70
B	0.207	70
C	0.199	70
D	0.206	70
E	0.183	70
Ave.	0.199	70
S.D.	0.010	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194/300069280
Sample Number:	4906
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.210	70
B	0.212	70
C	0.265	50
D	0.237	60
E	0.210	70
Ave.	0.227	60
S.D.	0.024	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223/300068329
Sample Number:	4907
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.196	70
B	0.179	80
C	0.181	70
D	0.200	70
E	0.202	70
Ave.	0.192	70
S.D.	0.011	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE **ASTM D4751**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223/300068352
Sample Number:	4908
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.185	70
B	0.200	70
C	0.199	70
D	0.207	70
E	0.185	70
Ave.	0.195	70
S.D.	0.010	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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6-18-01

BSS 6-20-01

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252/300067372
Sample Number:	4909
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.208	70
B	0.201	70
C	0.207	70
D	0.211	70
E	0.181	70
Ave.	0.202	70
S.D.	0.012	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252/300067393
Sample Number:	4910
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	06/12/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.160	80
B	0.174	80
C	0.168	80
D	0.198	70
E	0.153	80
Ave.	0.171	80
S.D.	0.017	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136 / 300069260
Sample Number:	4901
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.83	234	6.9	0.048
2	4.60	223	6.6	0.046
3	5.28	256	7.5	0.052
4	5.05	245	7.2	0.050
5	4.75	230	6.8	0.047
Avg.	4.90	237	7.0	0.049
S.D.	0.27	13	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136 / 300069253
Sample Number:	4902
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.90	237	7.0	0.049
2	4.51	218	6.4	0.045
3	4.91	238	7.0	0.049
4	4.58	222	6.5	0.045
5	4.89	237	7.0	0.049
Avg.	4.76	230	6.8	0.047
S.D.	0.20	10	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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6-20-01

2812
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MASS PER UNIT AREA
ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165 / 300069307
Sample Number:	4903
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.72	229	6.7	0.047
2	5.39	261	7.7	0.053
3	4.70	228	6.7	0.047
4	4.80	233	6.9	0.048
5	5.23	253	7.5	0.052
Avg.	4.97	241	7.1	0.049
S.D.	0.32	15	0.5	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±9 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165 / 300069292
Sample Number:	4904
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	5.23	253	7.5	0.052
2	5.63	273	8.0	0.056
3	5.34	259	7.6	0.053
4	5.65	274	8.1	0.056
5	5.07	246	7.2	0.050
Avg.	5.38	261	7.7	0.053
S.D.	0.25	12	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194 / 300069269
Sample Number:	4905
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.51	218	6.4	0.045
2	4.55	220	6.5	0.045
3	4.51	218	6.4	0.045
4	4.65	225	6.6	0.046
5	4.69	227	6.7	0.047
Avg.	4.58	222	6.5	0.045
S.D.	0.08	4	0.1	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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6-15-01

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MASS PER UNIT AREA
ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194 / 300069280
Sample Number:	4906
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.32	209	6.2	0.043
2	4.33	210	6.2	0.043
3	4.54	220	6.5	0.045
4	4.26	206	6.1	0.042
5	4.27	207	6.1	0.042
Avg.	4.34	210	6.2	0.043
S.D.	0.11	6	0.2	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223 / 300068329
Sample Number:	4907
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	5.09	247	7.3	0.050
2	4.77	231	6.8	0.047
3	5.15	249	7.4	0.051
4	4.83	234	6.9	0.048
5	4.80	233	6.9	0.048
Avg.	4.93	239	7.0	0.049
S.D.	0.18	9	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223 / 300068352
Sample Number:	4908
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	5.76	279	8.2	0.057
2	5.41	262	7.7	0.054
3	5.06	245	7.2	0.050
4	5.03	244	7.2	0.050
5	5.22	253	7.5	0.052
Avg	5.30	257	7.6	0.053
S.D.	0.30	15	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA
ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252 / 300067372
Sample Number:	4909
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	5.32	258	7.6	0.053
2	5.64	273	8.1	0.056
3	4.90	237	7.0	0.049
4	5.14	249	7.3	0.051
5	5.40	262	7.7	0.054
Avg.	5.28	256	7.5	0.052
S.D.	0.28	13	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA
ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252 / 300067393
Sample Number:	4910
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.77	231	6.8	0.047
2	4.94	239	7.1	0.049
3	4.92	238	7.0	0.049
4	4.92	238	7.0	0.049
5	4.55	220	6.5	0.045
Avg.	4.82	233	6.9	0.048
S.D.	0.17	8	0.2	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136 / 300069260
Sample Number:	4901
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	202.1	899.0	271.0	1205.5	64.3	71.3
2	174.7	777.1	247.5	1100.9	63.7	86.7
3	190.3	846.5	246.0	1094.3	68.7	90.7
4	198.0	880.7	275.7	1226.4	67.7	87.3
5	232.5	1034.2	251.8	1120.1	78.7	84.7
6	210.8	937.7	234.1	1041.3	69.3	81.7
7	194.6	865.6	255.7	1137.4	72.0	79.3
8	205.7	915.0	264.7	1177.4	66.0	87.7
9	210.1	934.6	213.3	948.8	70.7	78.0
10	247.5	1100.9	248.8	1106.7	65.7	75.0
Avg.	206.6	919.1	250.9	1115.9	68.7	82.2
S.D.	20.8	92.5	18.2	80.8	4.4	6.2

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136 / 300069253
Sample Number:	4902
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	236.1	1050.2	245.6	1092.5	67.3	79.0
2	215.0	956.4	266.0	1183.2	74.0	71.7
3	200.3	891.0	255.8	1137.9	74.7	75.3
4	194.7	866.1	290.8	1293.5	73.0	80.3
5	242.6	1079.1	248.1	1103.6	71.7	73.7
6	196.0	871.9	264.7	1177.4	84.0	79.0
7	222.1	988.0	220.2	979.5	65.3	86.7
8	176.0	782.9	225.1	1001.3	65.3	79.7
9	213.1	947.9	226.5	1007.5	76.3	80.3
10	196.7	875.0	217.2	966.2	71.7	86.3
Avg.	209.3	930.8	246.0	1094.3	72.3	79.2
S.D.	20.5	91.1	24.0	106.6	5.6	4.9

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165 / 300069307
Sample Number:	4903
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	242.0	1076.5	174.7	777.1	61.3	85.0
2	160.8	715.3	185.1	823.4	65.0	73.0
3	198.1	881.2	221.3	984.4	69.7	68.0
4	159.0	707.3	220.8	982.2	68.0	77.0
5	242.7	1079.6	225.0	1000.8	71.3	88.0
6	200.5	891.9	224.6	999.1	76.7	95.3
7	233.2	1037.3	218.5	971.9	72.7	72.3
8	206.1	916.8	227.7	1012.9	64.3	76.0
9	180.0	800.7	226.5	1007.5	77.3	73.3
10	166.8	742.0	205.5	914.1	66.3	78.3
Avg.	198.9	884.8	213.0	947.3	69.3	78.6
S.D.	32.4	144.1	18.7	83.1	5.3	8.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165 / 300069292
Sample Number:	4904
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	221.6	985.7	274.8	1222.4	95.7	100.3
2	227.1	1010.2	201.2	895.0	85.7	95.3
3	249.7	1110.7	232.5	1034.2	91.0	98.0
4	220.2	979.5	258.7	1150.8	79.3	115.7
5	230.6	1025.8	221.7	986.2	87.7	96.3
6	217.3	966.6	225.2	1001.7	91.0	92.0
7	206.1	916.8	250.8	1115.6	89.3	98.0
8	206.5	918.6	229.3	1020.0	92.7	99.3
9	218.5	971.9	264.3	1175.7	89.0	104.3
10	220.3	979.9	246.8	1097.8	78.3	97.7
Avg.	221.8	986.6	240.5	1069.9	88.0	99.7
S.D.	12.5	55.5	22.5	99.9	5.5	6.5

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194 / 300069269
Sample Number:	4905
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	192.7	857.2	220.0	978.6	63.7	88.0
2	197.5	878.5	220.2	979.5	68.7	80.7
3	213.8	951.0	223.8	995.5	65.0	74.3
4	159.6	709.9	218.7	972.8	63.7	73.0
5	211.2	939.5	245.6	1092.5	64.3	78.3
6	189.0	840.7	215.8	959.9	60.0	89.7
7	168.7	750.4	222.1	988.0	55.7	80.7
8	211.0	938.6	225.0	1000.8	75.3	71.0
9	226.0	1005.3	246.3	1095.6	60.7	84.7
10	203.6	905.7	218.3	971.0	62.0	82.0
Avg.	197.3	877.7	225.6	1003.4	63.9	80.2
S.D.	20.7	92.0	11.1	49.2	5.3	6.2

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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28m
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6-20-01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194 / 300069280
Sample Number:	4906
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	187.1	832.3	235.2	1046.2	67.7	88.7
2	185.7	826.0	247.6	1101.4	70.7	82.0
3	205.7	915.0	225.6	1003.5	76.0	90.3
4	189.3	842.0	267.1	1188.1	67.7	91.7
5	211.5	940.8	202.1	899.0	65.3	79.3
6	203.6	905.7	198.5	883.0	60.7	86.3
7	194.8	866.5	215.7	959.5	67.3	84.0
8	187.1	832.3	233.2	1037.3	69.3	92.7
9	181.8	808.7	222.7	990.6	61.0	91.7
10	235.2	1046.2	210.7	937.2	63.7	85.0
Avg.	198.2	881.5	225.8	1004.6	66.9	87.2
S.D.	16.3	72.5	21.0	93.4	4.6	4.6

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223 / 300068329
Sample Number:	4907
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	190.5	847.4	226.0	1005.3	81.3	72.3
2	241.7	1075.1	219.2	975.1	63.0	87.0
3	228.6	1016.9	231.7	1030.7	65.3	80.3
4	273.3	1215.7	213.7	950.6	53.3	89.0
5	157.0	698.4	207.6	923.5	59.0	74.3
6	172.0	765.1	237.3	1055.6	68.0	77.7
7	211.0	938.6	221.1	983.5	76.7	79.0
8	258.2	1148.5	207.8	924.3	68.7	81.3
9	183.1	814.5	212.3	944.4	75.3	83.7
10	211.7	941.7	240.3	1068.9	63.7	84.3
Avg.	212.7	946.2	221.7	986.2	67.4	80.9
S.D.	38.0	168.9	11.8	52.6	8.5	5.3

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223 / 300068352
Sample Number:	4908
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	208.6	927.9	236.6	1052.4	81.0	74.3
2	234.6	1043.6	253.5	1127.6	83.3	79.7
3	246.1	1094.7	284.8	1266.9	64.3	76.0
4	209.1	930.1	287.6	1279.3	67.0	83.0
5	193.0	858.5	246.6	1096.9	64.7	91.7
6	251.6	1119.2	252.3	1122.3	78.3	86.3
7	310.6	1381.6	237.2	1055.1	64.0	73.7
8	210.3	935.5	257.1	1143.6	81.3	79.3
9	214.1	952.4	256.8	1142.3	68.7	80.7
10	221.7	986.2	281.5	1252.2	72.7	85.7
Avg.	230.0	1023.0	259.4	1153.9	72.5	81.0
S.D.	33.7	149.9	18.9	83.9	7.8	5.7

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES
ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252 / 300067372
Sample Number:	4909
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	250.6	1114.7	253.3	1126.7	83.0	92.7
2	236.1	1050.2	260.5	1158.8	72.3	97.7
3	222.7	990.6	286.5	1274.4	91.3	97.3
4	209.7	932.8	283.1	1259.3	77.0	98.3
5	212.1	943.5	286.3	1273.5	84.0	96.0
6	303.5	1350.0	247.3	1100.0	84.7	105.0
7	229.5	1020.9	265.3	1180.1	78.7	92.0
8	251.8	1120.1	244.7	1088.5	84.7	89.0
9	238.8	1062.2	241.6	1074.7	89.7	92.3
10	236.5	1052.0	234.7	1044.0	89.0	88.0
Avg.	239.1	1063.7	260.3	1158.0	83.4	94.8
S.D.	26.7	118.7	19.4	86.1	6.0	5.1

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±13 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BES 6-20-01

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES **ASTM D4632 ⁽¹⁾**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252 / 300067393
Sample Number:	4910
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	219.2	975.1	259.5	1154.3	78.0	73.7
2	255.7	1137.4	208.1	925.7	63.3	86.3
3	194.7	866.1	235.7	1048.4	76.7	79.3
4	222.3	988.8	232.7	1035.1	76.7	69.0
5	181.0	805.1	210.8	937.7	67.7	77.3
6	191.2	850.5	221.5	985.3	76.0	82.0
7	204.6	910.1	221.6	985.7	71.0	87.7
8	231.2	1028.4	227.0	1009.7	66.3	81.3
9	195.1	867.8	230.1	1023.5	60.3	79.0
10	199.5	887.4	217.8	968.8	71.3	74.7
Avg.	209.5	931.7	226.5	1007.4	70.7	79.0
S.D.	22.5	100.1	14.7	65.2	6.2	5.7

Notes:

RD Roll Direction
 XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

BE 6-20-01

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136
Sample Number:	4896
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	8.02E-4	0.387
2	MD	96	2000	0.25	0.10	7.10E-4	0.343
3	MD	96	2000	0.25	0.10	4.46E-4	0.216

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165
Sample Number:	4897
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	6.32E-4	0.306
2	MD	96	2000	0.25	0.10	6.44E-4	0.311
3	MD	96	2000	0.25	0.10	6.33E-4	0.306

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194
Sample Number:	4898
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	7.52E-4	0.363
2	MD	96	2000	0.25	0.10	3.99E-4	0.193
3	MD	96	2000	0.25	0.10	6.65E-4	0.321

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223
Sample Number:	4899
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	7.18E-4	0.347
2	MD	96	2000	0.25	0.10	5.46E-4	0.264
3	MD	96	2000	0.25	0.10	4.89E-4	0.236

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252
Sample Number:	4900
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	8.03E-4	0.338
2	MD	96	2000	0.25	0.10	6.22E-4	0.300
3	MD	96	2000	0.25	0.10	8.49E-4	0.410

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
 Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.



PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586136
Sample Number:	4896
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	154	0.9	174	1.0	80	0.5	112	0.6
5	183	1.0	248	1.4	87	0.5	176	1.0
3	163	0.9	254	1.4	199	1.1	158	0.9
4	163	0.9	313	1.8	145	0.8	150	0.8
5	433	2.4	217	1.2	132	0.7	165	0.9
Avg.	219	1.2	241	1.4	129	0.7	152	0.9
S.D.	120	0.7	51	0.3	48	0.3	25	0.1

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586165
Sample Number:	4897
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	373	2.1	734	4.1	181	1.0	192	1.1
5	719	4.0	574	3.2	76	0.4	275	1.5
3	458	2.6	547	3.1	272	1.5	438	2.5
4	469	2.6	502	2.8	203	1.1	290	1.6
5	438	2.5	576	3.2	319	1.8	598	3.4
Avg.	491	2.8	587	3.3	210	1.2	358	2.0
S.D.	133	0.7	88	0.5	93	0.5	161	0.9

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586194
Sample Number:	4898
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	350	2.0	737	4.1	118	0.7	453	2.5
5	500	2.8	659	3.7	283	1.6	442	2.5
3	163	0.9	268	1.5	308	1.7	513	2.9
4	409	2.3	600	3.4	196	1.1	621	3.5
5	393	2.2	319	1.8	270	1.5	429	2.4
Avg.	363	2.0	517	2.9	235	1.3	492	2.8
S.D.	124	0.7	210	1.2	77	0.4	79	0.4

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel, and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586223
Sample Number:	4899
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	304	1.7	337	1.9	58	0.3	225	1.3
5	538	3.0	464	2.6	20	0.1	362	2.0
3	502	2.8	522	2.9	11	0.1	268	1.5
4	502	2.8	404	2.3	25	0.1	384	2.2
5	449	2.5	612	3.4	109	0.6	324	1.8
Avg.	459	2.6	468	2.6	45	0.3	313	1.8
S.D.	93	0.5	106	0.6	40	0.2	66	0.4

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.006
Client/Site ID:	586252
Sample Number:	4900
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	6/12/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	237	1.3	252	1.4	118	0.7	754	4.2
5	317	1.8	205	1.2	201	1.1	496	2.8
3	835	4.7	571	3.2	114	0.6	734	4.1
4	473	2.7	299	1.7	163	0.9	435	2.4
5	257	1.4	313	1.8	118	0.7	500	2.8
Avg.	424	2.4	328	1.8	143	0.8	584	3.3
S.D.	248	1.4	142	0.8	38	0.2	149	0.8

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C; laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271
Sample Number:	5017
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	33.30	1259	37.1	0.258
2	32.09	1213	35.8	0.248
3	31.13	1177	34.7	0.241
4	33.25	1257	37.1	0.257
5	35.11	1327	39.1	0.272
Avg.	32.98	1247	36.8	0.255
S.D.	1.49	56	1.7	0.012

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA
ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300
Sample Number:	5018
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	33.80	1278	37.7	0.262
2	34.85	1318	38.9	0.270
3	34.22	1294	38.2	0.265
4	36.15	1367	40.3	0.280
5	35.10	1327	39.1	0.272
Avg.	34.82	1317	38.8	0.270
S.D.	0.90	34	1.0	0.007

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328
Sample Number:	5019
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	34.24	1295	38.2	0.265
2	34.41	1301	38.4	0.266
3	36.12	1366	40.3	0.280
4	34.23	1294	38.2	0.265
5	35.31	1335	39.4	0.273
Avg.	34.86	1318	38.9	0.270
S.D.	0.83	31	0.9	0.006

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357
Sample Number:	5020
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	33.59	1270	37.5	0.260
2	32.62	1233	36.4	0.253
3	30.52	1154	34.0	0.236
4	35.46	1341	39.5	0.275
5	32.88	1243	36.7	0.255
Avg.	33.01	1248	36.8	0.256
S.D.	1.78	67	2.0	0.014

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385
Sample Number:	5021
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	35.80	1353	39.9	0.277
2	33.94	1283	37.8	0.263
3	34.42	1301	38.4	0.267
4	33.69	1274	37.6	0.261
5	34.26	1295	38.2	0.265
Avg.	34.42	1301	38.4	0.267
S.D.	0.82	31	0.9	0.006

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405
Sample Number:	5022
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	33.70	1274	37.6	0.261
2	34.45	1302	38.4	0.267
3	32.56	1231	36.3	0.252
4	32.41	1225	36.1	0.251
5	33.49	1266	37.3	0.259
Avg.	33.32	1260	37.2	0.258
S.D.	0.84	32	0.9	0.007

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406
Sample Number:	5130
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	35.77	1352	39.9	0.277
2	29.99	1134	33.4	0.232
3	32.15	1216	35.8	0.249
4	34.91	1320	38.9	0.270
5	32.82	1241	36.6	0.254
Avg.	33.13	1252	36.9	0.257
S.D.	2.29	87	2.6	0.018

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434
Sample Number:	5131
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	38.31	1448	42.7	0.297
2	37.86	1431	42.2	0.293
3	35.01	1324	39.0	0.271
4	32.23	1219	35.9	0.250
5	31.22	1180	34.8	0.242
Avg.	34.93	1320	38.9	0.270
S.D.	3.20	121	3.6	0.025

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586463
Sample Number:	5132
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	36.93	1396	41.2	0.286
2	38.58	1459	43.0	0.299
3	37.56	1420	41.9	0.291
4	33.98	1285	37.9	0.263
5	35.63	1347	39.7	0.276
Avg.	36.54	1381	40.7	0.283
S.D.	1.78	67	2.0	0.014

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586492
Sample Number:	5133
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	32.13	1215	35.8	0.249
2	31.87	1205	35.5	0.247
3	34.41	1301	38.4	0.266
4	33.59	1270	37.5	0.260
5	31.80	1202	35.5	0.246
Avg.	32.76	1239	36.5	0.254
S.D.	1.17	44	1.3	0.009

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521
Sample Number:	5134
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	31.11	1176	34.7	0.241
2	33.50	1267	37.4	0.259
3	34.99	1323	39.0	0.271
4	29.52	1116	32.9	0.229
5	31.87	1205	35.5	0.247
Avg.	32.20	1217	35.9	0.249
S.D.	2.12	80	2.4	0.016

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540
Sample Number:	5135
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	33.65	1272	37.5	0.261
2	35.92	1358	40.1	0.278
3	35.46	1341	39.5	0.275
4	36.76	1390	41.0	0.285
5	33.97	1284	37.9	0.263
Avg.	35.15	1329	39.2	0.272
S.D.	1.32	50	1.5	0.010

Notes:

Each specimen is prepared utilizing a die of 4.5 in. by 9 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN

ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271
Sample Number:	5017
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Density @ 23°C (g/cc)
1	0.945
2	0.945
3	0.944
Avg.	0.945

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN
ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300
Sample Number:	5018
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Density @ 23°C (g/cc)
1	0.945
2	0.945
3	0.945
Avg.	0.945

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN

ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328
Sample Number:	5019
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Density @ 23°C (g/cc)
1	0.945
2	0.945
3	0.944
Avg.	0.945

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN
ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357
Sample Number:	5020
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Density @ 23°C (g/cc)
1	0.944
2	0.945
3	0.945
Avg.	0.945

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BS 7-13-01

DENSITY BY GRADIENT - COLUMN

ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385
Sample Number:	5021
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Density @ 23°C (g/cc)
1	0.945
2	0.945
3	0.945
Avg	0.945

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN
ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405
Sample Number:	5022
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Density @ 23°C (g/cc)
1	0.945
2	0.945
3	0.945
Avg.	0.945

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540
Sample Number:	5135
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.951
2	0.950
3	0.950
Avg.	0.950

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521
Sample Number:	5134
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.950
2	0.950
3	0.951
Avg.	0.951

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586492
Sample Number:	5133
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.951
2	0.951
3	0.951
Avg	0.951

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586463
Sample Number:	5132
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.950
2	0.950
3	0.950
Avg.	0.950

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434
Sample Number:	5131
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.952
2	0.951
3	0.951
Avg.	0.951

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

DENSITY BY GRADIENT - COLUMN
ASTM D1505 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406
Sample Number:	5130
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Density @ 23°C (g/cc)
1	0.950
2	0.951
3	0.951
Avg.	0.951

Notes:

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271
Sample Number:	5017
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2649	264.9	6.73
2	0.2661	266.1	6.76
3	0.2555	255.5	6.49
4	0.2575	257.5	6.54
5	0.2591	259.1	6.58
6	0.2598	259.8	6.60
7	0.2634	263.4	6.69
8	0.2488	248.8	6.32
9	0.2587	258.7	6.57
10	0.2563	256.3	6.51
Avg.	0.2590	259.0	6.58
S.D.	0.0051	5.1	0.13

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300
Sample Number:	5018
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2543	254.3	6.46
2	0.2512	251.2	6.38
3	0.2594	259.4	6.59
4	0.2614	261.4	6.64
5	0.2567	256.7	6.52
6	0.2591	259.1	6.58
7	0.2744	274.4	6.97
8	0.2669	266.9	6.78
9	0.2535	253.5	6.44
10	0.2626	262.6	6.67
Avg.	0.2600	260.0	6.60
S.D.	0.0069	6.9	0.18

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328
Sample Number:	5019
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2709	270.9	6.88
2	0.2665	266.5	6.77
3	0.2634	263.4	6.69
4	0.2587	258.7	6.57
5	0.2630	263.0	6.68
6	0.2650	265.0	6.73
7	0.2571	257.1	6.53
8	0.2610	261.0	6.63
9	0.2602	260.2	6.61
10	0.2602	260.2	6.61
Avg.	0.2626	262.6	6.67
S.D.	0.0041	4.1	0.10

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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7-10-01

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357
Sample Number:	5020
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2508	250.8	6.37
2	0.2571	257.1	6.53
3	0.2535	253.5	6.44
4	0.2571	257.1	6.53
5	0.2472	247.2	6.28
6	0.2484	248.4	6.31
7	0.2591	259.1	6.58
8	0.2504	250.4	6.36
9	0.2559	255.9	6.50
10	0.2492	249.2	6.33
Avg.	0.2529	252.9	6.42
S.D.	0.0042	4.2	0.11

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BES 7-13-01

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385
Sample Number:	5021
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2594	259.4	6.59
2	0.2661	266.1	6.76
3	0.2650	265.0	6.73
4	0.2713	271.3	6.89
5	0.2697	269.7	6.85
6	0.2646	264.6	6.72
7	0.2657	265.7	6.75
8	0.2673	267.3	6.79
9	0.2654	265.4	6.74
10	0.2610	261.0	6.63
Avg.	0.2656	265.6	6.74
S.D.	0.0036	3.6	0.09

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS
ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405
Sample Number:	5022
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2642	264.2	6.71
2	0.2583	258.3	6.56
3	0.2591	259.1	6.58
4	0.2606	260.6	6.62
5	0.2610	261.0	6.63
6	0.2638	263.8	6.70
7	0.2559	255.9	6.50
8	0.2575	257.5	6.54
9	0.2535	253.5	6.44
10	0.2547	254.7	6.47
Avg.	0.2589	258.9	6.58
S.D.	0.0036	3.6	0.09

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BS 7-13-01

7-10-01

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406
Sample Number:	5130
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2550	255.0	6.48
2	0.2530	253.0	6.43
3	0.2610	261.0	6.63
4	0.2530	253.0	6.43
5	0.2655	265.5	6.74
6	0.2485	248.5	6.31
7	0.2465	246.5	6.26
8	0.2445	244.5	6.21
9	0.2610	261.0	6.63
10	0.2665	266.5	6.77
Avg.	0.2555	255.5	6.49
S.D.	0.0078	7.8	0.20

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434
Sample Number:	5131
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2390	239.0	6.07
2	0.2400	240.0	6.10
3	0.2470	247.0	6.27
4	0.2415	241.5	6.13
5	0.2565	256.5	6.52
6	0.2480	248.0	6.30
7	0.2535	253.5	6.44
8	0.2565	256.5	6.52
9	0.2585	258.5	6.57
10	0.2465	246.5	6.26
Avg.	0.2487	248.7	6.32
S.D.	0.0072	7.2	0.18

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586463
Sample Number:	5132
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2505	250.5	6.36
2	0.2500	250.0	6.35
3	0.2455	245.5	6.24
4	0.2495	249.5	6.34
5	0.2610	261.0	6.63
6	0.2595	259.5	6.59
7	0.2605	260.5	6.62
8	0.2595	259.5	6.59
9	0.2565	256.5	6.52
10	0.2565	256.5	6.52
Avg.	0.2549	254.9	6.47
S.D.	0.0055	5.5	0.14

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586492
Sample Number:	5133
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2490	249.0	6.32
2	0.2520	252.0	6.40
3	0.2475	247.5	6.29
4	0.2535	253.5	6.44
5	0.2580	258.0	6.55
6	0.2480	248.0	6.30
7	0.2535	253.5	6.44
8	0.2405	240.5	6.11
9	0.2480	248.0	6.30
10	0.2535	253.5	6.44
Avg.	0.2504	250.4	6.36
S.D.	0.0048	4.8	0.12

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521
Sample Number:	5134
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2380	238.0	6.05
2	0.2490	249.0	6.32
3	0.2485	248.5	6.31
4	0.2540	254.0	6.45
5	0.2380	238.0	6.05
6	0.2590	259.0	6.58
7	0.2425	242.5	6.16
8	0.2380	238.0	6.05
9	0.2550	255.0	6.48
10	0.2450	245.0	6.22
Avg.	0.2467	246.7	6.27
S.D.	0.0077	7.7	0.19

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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THICKNESS

ASTM D5199 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540
Sample Number:	5135
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Thickness		
	(in)	(mil)	(mm)
1	0.2520	252.0	6.40
2	0.2485	248.5	6.31
3	0.2480	248.0	6.30
4	0.2535	253.5	6.44
5	0.2675	267.5	6.79
6	0.2475	247.5	6.29
7	0.2580	258.0	6.55
8	0.2785	278.5	7.07
9	0.2545	254.5	6.46
10	0.2510	251.0	6.38
Avg.	0.2559	255.9	6.50
S.D.	0.0099	9.9	0.25

Notes:

A presser foot of 2.22 in. (56.4 mm) in diameter is used with a pressure of 0.29 psi (2 kPa).

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271
Sample Number:	5017
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Melt Index (g/10 min)
1	0.450
2	0.444
Avg.	0.447

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300
Sample Number:	5018
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Melt Index (g/10 min)
1	0.442
2	0.429
Avg.	0.435

Notes:

Temperature = 190 °C, Load = 2.16 kg

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328
Sample Number:	5019
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Melt Index (g/10 min)
1	0.425
2	0.428
Avg.	0.427

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357
Sample Number:	5020
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Melt Index (g/10 min)
1	0.438
2	0.415
Avg	0.427

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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7-13-01

MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385
Sample Number:	5021
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Melt Index (g/10 min)
1	0.451
2	0.449
Avg.	0.450

Notes:

Temperature = 190 °C, Load = 2.16 kg

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405
Sample Number:	5022
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Melt Index (g/10 min)
1	0.446
2	0.435
Avg.	0.441

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540
Sample Number:	5135
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Melt Index (g/10 min)
1	0.156
2	0.151
Avg.	0.153

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521
Sample Number:	5134
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Melt Index (g/10 min)
1	0.152
2	0.149
Avg.	0.151

Notes:

Temperature = 190 °C, Load = 2.16 kg

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586492
Sample Number:	5133
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Melt Index (g/10 min)
1	0.148
2	0.142
Avg.	0.145

Notes:

Temperature = 190 °C, Load = 2.16 kg

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586463
Sample Number:	5132
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Melt Index (g/10 min)
1	0.158
2	0.143
Avg.	0.150

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MELT FLOW INDEX

ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434
Sample Number:	5131
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Melt Index (g/10 min)
1	0.158
2	0.137
Avg.	0.148

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MELT FLOW INDEX
ASTM D1238 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406
Sample Number:	5130
Material Type:	GEONET
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Melt Index (g/10 min)
1	0.144
2	0.139
Avg.	0.142

Notes:

Temperature = 190 °C, Load = 2.16 kg.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586271/300071066
Sample Number:	5023
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.197	70
B	0.205	70
C	0.177	80
D	0.204	70
E	0.208	70
Ave.	0.198	70
S.D.	0.013	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586271/300071071
Sample Number:	5024
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.189	70
B	0.210	70
C	0.205	70
D	0.210	70
E	0.202	70
Ave.	0.203	70
S.D.	0.009	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE

ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586300/300071080
Sample Number:	5025
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.199	70
B	0.207	70
C	0.201	70
D	0.211	70
E	0.210	70
Ave.	0.206	70
S.D.	0.005	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586300/300071079
Sample Number:	5026
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.146	100
B	0.143	100
C	0.183	70
D	0.200	70
E	0.179	80
Ave.	0.170	80
S.D.	0.025	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE

ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586328/300071096
Sample Number:	5027
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.207	70
B	0.196	70
C	0.199	70
D	0.202	70
E	0.206	70
Ave.	0.202	70
S.D.	0.004	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE

ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586328/300071097
Sample Number:	5028
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.211	70
B	0.210	70
C	0.210	70
D	0.211	70
E	0.211	70
Ave.	0.211	70
S.D.	0.001	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE

ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586357/300071091
Sample Number:	5029
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.142	100
B	0.195	70
C	0.150	100
D	0.197	70
E	0.150	100
Ave.	0.167	80
S.D.	0.027	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586357/300071108
Sample Number:	5030
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.210	70
B	0.212	70
C	0.209	70
D	0.211	70
E	0.212	70
Ave.	0.211	70
S.D.	0.001	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586385/300067828
Sample Number:	5031
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.205	70
B	0.166	80
C	0.188	70
D	0.200	70
E	0.184	70
Ave.	0.189	70
S.D.	0.015	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	586385/300069024
Sample Number:	5032
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.209	70
B	0.207	70
C	0.200	70
D	0.206	70
E	0.202	70
Ave.	0.205	70
S.D.	0.003	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	5864051/300068745
Sample Number:	5033
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.148	100
B	0.149	100
C	0.149	100
D	0.149	100
E	0.149	100
Ave.	0.149	100
S.D.	0.001	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.023
Client/Site ID:	5864051/300069002
Sample Number:	5034
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/06/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.152	80
B	0.160	80
C	0.154	80
D	0.168	80
E	0.189	70
Ave.	0.165	80
S.D.	0.015	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

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APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586406/300067861
Sample Number:	5136
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.210	70
B	0.203	70
C	0.208	70
D	0.207	70
E	0.212	70
Ave.	0.208	70
S.D.	0.003	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586406/300069469
Sample Number:	5137
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.190	70
B	0.198	70
C	0.180	70
D	0.170	80
E	0.200	70
Ave.	0.188	70
S.D.	0.013	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586434/300067842
Sample Number:	5138
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.176	80
B	0.205	70
C	0.209	70
D	0.206	70
E	0.210	70
Ave.	0.201	70
S.D.	0.014	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586434/300067859
Sample Number:	5139
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.207	70
B	0.202	70
C	0.143	100
D	0.149	100
E	0.178	80
Ave.	0.176	80
S.D.	0.029	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE **ASTM D4751**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586463/300052980
Sample Number:	5140
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.198	70
B	0.209	70
C	0.197	70
D	0.208	70
E	0.199	70
Ave.	0.202	70
S.D.	0.006	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586463/300067780
Sample Number:	5141
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.158	80
B	0.206	70
C	0.163	80
D	0.203	70
E	0.210	70
Ave.	0.188	70
S.D.	0.026	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586492/300051973
Sample Number:	5142
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.190	70
B	0.202	70
C	0.194	70
D	0.208	70
E	0.185	70
Ave.	0.196	70
S.D.	0.009	N/A

Notes:

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586492/300052105
Sample Number:	5143
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.204	70
B	0.208	70
C	0.211	70
D	0.207	70
E	0.212	70
Ave.	0.208	70
S.D.	0.003	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586521/300067863
Sample Number:	5144
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.131	100
B	0.150	100
C	0.149	100
D	0.148	100
E	0.149	100
Ave.	0.145	100
S.D.	0.008	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586521/300068761
Sample Number:	5145
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.142	100
B	0.151	80
C	0.189	70
D	0.148	100
E	0.182	70
Ave.	0.162	80
S.D.	0.022	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586540/300068700
Sample Number:	5146
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.196	70
B	0.207	70
C	0.168	80
D	0.195	70
E	0.197	70
Ave.	0.192	70
S.D.	0.015	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22 ± 3 °C, Laboratory Humidity at 50 ± 15 %

APPARENT OPENING SIZE
ASTM D4751

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC3651.026
Client/Site ID:	586540/300068711
Sample Number:	5147
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	07/26/2001

Specimen Designation	Apparent Opening Size (AOS)	
	O_{95} (mm)	U.S. Standard Sieve No. (-)
A	0.148	100
B	0.170	80
C	0.196	70
D	0.204	70
E	0.191	70
Ave.	0.182	70
S.D.	0.023	N/A

Notes:

Deviations:
Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271 / 300071066
Sample Number:	5023
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.83	234	6.9	0.048
2	4.24	205	6.1	0.042
3	4.49	217	6.4	0.045
4	4.47	217	6.4	0.044
5	4.20	203	6.0	0.042
Avg.	4.45	215	6.4	0.044
S.D.	0.25	12	0.4	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271 / 300071071
Sample Number:	5024
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.62	224	6.6	0.046
2	4.16	202	5.9	0.041
3	4.26	206	6.1	0.042
4	4.43	215	6.3	0.044
5	4.47	217	6.4	0.044
Avg.	4.39	213	6.3	0.044
S.D.	0.18	9	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300 / 300071080
Sample Number:	5025
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.30	208	6.1	0.043
2	4.44	215	6.3	0.044
3	4.40	213	6.3	0.044
4	4.60	223	6.6	0.046
5	4.35	211	6.2	0.043
Avg.	4.42	214	6.3	0.044
S.D.	0.11	6	0.2	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300 / 300071079
Sample Number:	5026
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.49	217	6.4	0.045
2	4.51	218	6.4	0.045
3	4.74	230	6.8	0.047
4	4.47	217	6.4	0.044
5	4.40	213	6.3	0.044
Avg.	4.52	219	6.5	0.045
S.D.	0.13	6	0.2	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328 / 300071096
Sample Number:	5027
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.30	208	6.1	0.043
2	4.15	201	5.9	0.041
3	4.28	207	6.1	0.042
4	4.89	237	7.0	0.049
5	4.98	241	7.1	0.049
Avg.	4.52	219	6.5	0.045
S.D.	0.38	19	0.5	0.004

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328 / 300071097
Sample Number:	5028
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.30	208	6.1	0.043
2	4.33	210	6.2	0.043
3	4.60	223	6.6	0.046
4	4.20	203	6.0	0.042
5	4.38	212	6.3	0.043
Avg.	4.36	211	6.2	0.043
S.D.	0.15	7	0.2	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:

CORTLAND COUNTY LANDFILL

Project Number:

GTX-G0216

Client Project Number:

MEC 3651.023

Client/Site ID:

586357 / 300071091

Sample Number:

5029

Material Type:

NONWOVEN GEOTEXTILE

Expected/Specified Value:

Date Received:

7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.92	238	7.0	0.049
2	4.67	226	6.7	0.046
3	5.20	252	7.4	0.052
4	4.76	231	6.8	0.047
5	4.62	224	6.6	0.046
Avg.	4.83	234	6.9	0.048
S.D.	0.23	11	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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JSW
7-9-01

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357 / 300071108
Sample Number:	5030
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.08	198	5.8	0.040
2	4.26	206	6.1	0.042
3	4.43	215	6.3	0.044
4	4.14	201	5.9	0.041
5	4.30	208	6.1	0.043
Avg.	4.24	205	6.1	0.042
S.D.	0.14	7	0.2	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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7-9-01

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385 / 300067828
Sample Number:	5031
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.53	219	6.5	0.045
2	4.05	196	5.8	0.040
3	4.40	213	6.3	0.044
4	4.48	217	6.4	0.044
5	4.36	211	6.2	0.043
Avg.	4.36	211	6.2	0.043
S.D.	0.19	9	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BS 7-13-01

7-9-01

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385 / 300069024
Sample Number:	5032
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.42	214	6.3	0.044
2	4.35	211	6.2	0.043
3	4.26	206	6.1	0.042
4	4.25	206	6.1	0.042
5	4.30	208	6.1	0.043
Avg.	4.32	209	6.2	0.043
S.D.	0.07	3	0.1	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405 / 300068745
Sample Number:	5033
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.39	213	6.3	0.044
2	4.37	212	6.2	0.043
3	4.46	216	6.4	0.044
4	4.17	202	6.0	0.041
5	4.61	223	6.6	0.046
Avg	4.40	213	6.3	0.044
S.D.	0.16	8	0.2	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405 / 300069002
Sample Number:	5034
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.67	226	6.7	0.046
2	4.65	225	6.6	0.046
3	4.56	221	6.5	0.045
4	4.59	222	6.6	0.046
5	4.72	229	6.7	0.047
Avg.	4.64	225	6.6	0.046
S.D.	0.06	3	0.1	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BSX 7-13-01

JMC
7/9/01

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406 / 300067861
Sample Number:	5136
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.54	220	6.5	0.045
2	4.26	206	6.1	0.042
3	4.10	199	5.9	0.041
4	4.21	204	6.0	0.042
5	4.27	207	6.1	0.042
Avg.	4.28	207	6.1	0.042
S.D.	0.16	8	0.2	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406 / 300069469
Sample Number:	5137
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.21	204	6.0	0.042
2	4.48	217	6.4	0.044
3	4.55	220	6.5	0.045
4	4.41	214	6.3	0.044
5	4.74	230	6.8	0.047
Avg.	4.48	217	6.4	0.044
S.D.	0.19	9	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434 / 300067842
Sample Number:	5138
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/R ²)
1	4.56	221	6.5	0.045
2	4.86	235	6.9	0.048
3	4.65	225	6.6	0.046
4	5.15	249	7.4	0.051
5	4.79	232	6.8	0.048
Avg.	4.80	233	6.9	0.048
S.D.	0.23	11	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434 / 300067859
Sample Number:	5139
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	5.23	253	7.5	0.052
2	4.12	200	5.9	0.041
3	4.56	221	6.5	0.045
4	4.14	201	5.9	0.041
5	4.43	215	6.3	0.044
Avg.	4.50	218	6.4	0.045
S.D.	0.45	22	0.6	0.004

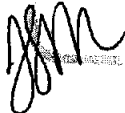
Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.



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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586463 / 300052980
Sample Number:	5140
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.20	203	6.0	0.042
2	5.23	253	7.5	0.052
3	4.61	223	6.6	0.046
4	4.39	213	6.3	0.044
5	5.03	244	7.2	0.050
Avg.	4.69	227	6.7	0.047
S.D.	0.43	21	0.6	0.004

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586463 / 300067780
Sample Number:	5141
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.74	230	6.8	0.047
2	4.62	224	6.6	0.046
3	4.16	202	5.9	0.041
4	4.51	218	6.4	0.045
5	4.12	200	5.9	0.041
Avg.	4.43	215	6.3	0.044
S.D.	0.28	13	0.4	0.003

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586492 / 300051973
Sample Number:	5142
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.51	218	6.4	0.045
2	4.59	222	6.6	0.046
3	4.23	205	6.0	0.042
4	4.57	221	6.5	0.045
5	4.53	219	6.5	0.045
Avg.	4.49	217	6.4	0.045
S.D.	0.15	7	0.2	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:

CORTLAND COUNTY LANDFILL

Project Number:

GTX-G0216

Client Project Number:

MEC 3651.026

Client/Site ID:

586492 / 300052105

Sample Number:

5143

Material Type:

NONWOVEN GEOTEXTILE

Expected/Specified Value:

Date Received:

7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.67	226	6.7	0.046
2	4.36	211	6.2	0.043
3	4.63	224	6.6	0.046
4	4.75	230	6.8	0.047
5	4.60	223	6.6	0.046
Avg.	4.60	223	6.6	0.046
S.D.	0.15	7	0.2	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521 / 300067863
Sample Number:	5144
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.55	220	6.5	0.045
2	5.17	250	7.4	0.051
3	4.66	226	6.7	0.046
4	4.65	225	6.6	0.046
5	4.86	235	6.9	0.048
Avg.	4.78	231	6.8	0.047
S.D.	0.25	12	0.4	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521 / 300068761
Sample Number:	5145
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	5.00	242	7.1	0.050
2	5.32	258	7.6	0.053
3	5.06	245	7.2	0.050
4	4.92	238	7.0	0.049
5	5.37	260	7.7	0.053
Avg.	5.13	249	7.3	0.051
S.D.	0.20	10	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name: CORTLAND COUNTY LANDFILL
Project Number: GTX-G0216
Client Project Number: MEC 3651.026
Client/Site ID: 586540 / 300068700
Sample Number: 5146
Material Type: NONWOVEN GEOTEXTILE
Expected/Specified Value:
Date Received: 7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.32	209	6.2	0.043
2	4.45	216	6.4	0.044
3	4.40	213	6.3	0.044
4	4.56	221	6.5	0.045
5	4.83	234	6.9	0.048
Avg.	4.51	219	6.4	0.045
S.D.	0.20	10	0.3	0.002

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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MASS PER UNIT AREA

ASTM D5261 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540 / 300068711
Sample Number:	5147
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Specimen Weight (g)	Mass Per Unit Area		
		(g/m ²)	(oz/yd ²)	(lb/ft ²)
1	4.43	215	6.3	0.044
2	4.57	221	6.5	0.045
3	4.43	215	6.3	0.044
4	4.55	220	6.5	0.045
5	4.54	220	6.5	0.045
Avg.	4.50	218	6.4	0.045
S.D.	0.07	3	0.1	0.001

Notes:

Each specimen is prepared utilizing a die of 4 in. by 8 in.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271 / 300071066
Sample Number:	5023
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	209.7	932.8	202.5	900.8	66.0	74.3
2	185.5	825.1	177.0	787.3	58.7	71.0
3	209.1	930.1	182.3	810.9	68.0	79.0
4	175.8	782.0	188.8	839.8	65.0	75.3
5	169.8	755.3	174.8	777.5	56.7	71.3
6	182.2	810.5	173.7	772.7	70.0	74.7
7	163.6	727.7	203.2	903.9	59.7	71.0
8	173.1	770.0	178.8	795.3	62.3	80.7
9	170.3	757.5	199.5	887.4	62.7	72.7
10	167.8	746.4	213.7	950.6	57.7	74.0
Avg.	180.7	803.7	189.4	842.6	62.7	74.4
S.D.	16.5	73.2	14.3	63.4	4.5	3.3

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BS 7-13-01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271 / 300071071
Sample Number:	5024
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	171.0	760.6	167.3	744.2	69.7	73.0
2	171.1	761.1	171.2	761.5	60.7	78.0
3	158.2	703.7	178.3	793.1	64.0	69.3
4	161.7	719.3	187.7	834.9	69.7	70.7
5	153.1	681.0	210.0	934.1	61.0	68.0
6	191.7	852.7	176.3	784.2	63.0	77.7
7	168.6	750.0	163.0	725.1	58.3	65.7
8	192.6	856.7	218.3	971.0	60.7	84.0
9	186.6	830.0	176.7	786.0	59.0	75.0
10	169.1	752.2	172.2	766.0	59.3	65.3
Avg.	172.4	766.7	182.1	810.0	62.5	72.7
S.D.	13.7	61.1	18.3	81.2	4.1	6.0

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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BES 7-13-01

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300 / 300071080
Sample Number:	5025
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	178.6	794.5	165.0	734.0	63.3	81.7
2	149.3	664.1	180.6	803.3	58.7	78.3
3	153.8	684.1	167.3	744.2	62.7	66.0
4	192.8	857.6	184.8	822.0	59.0	70.3
5	189.1	841.2	176.2	783.8	66.3	69.0
6	166.3	739.7	171.7	763.8	60.3	82.0
7	174.5	776.2	196.2	872.7	56.3	83.0
8	163.1	725.5	192.1	854.5	50.7	78.0
9	152.9	680.0	158.7	705.9	59.7	69.3
10	180.7	803.8	186.2	828.3	53.7	70.0
Avg.	170.1	756.7	177.9	791.2	59.1	74.8
S.D.	15.4	68.6	12.2	54.5	4.6	6.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300 / 300071079
Sample Number:	5026
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	187.2	832.7	185.3	824.3	66.3	70.3
2	228.7	1017.3	199.2	886.1	70.3	67.0
3	167.8	746.4	217.3	966.6	55.0	66.0
4	150.5	669.5	194.3	864.3	58.3	74.3
5	146.1	649.9	231.2	1028.4	62.3	74.0
6	171.5	762.9	178.8	795.3	67.0	72.7
7	152.7	679.2	199.7	888.3	59.7	66.7
8	182.2	810.5	183.6	816.7	63.3	63.0
9	160.0	711.7	162.6	723.3	58.7	68.0
10	170.0	756.2	202.1	899.0	61.7	68.0
Avg.	171.7	763.6	195.4	869.2	62.3	69.0
S.D.	24.1	107.1	19.5	86.9	4.6	3.7

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328 / 300071096
Sample Number:	5027
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	189.2	841.6	176.1	783.3	57.7	82.3
2	161.1	716.6	193.2	859.4	56.7	78.3
3	155.6	692.1	187.1	832.3	54.0	77.7
4	164.8	733.1	210.1	934.6	61.3	77.7
5	182.5	811.8	157.1	698.8	64.3	70.7
6	144.7	643.7	217.3	966.6	55.3	75.0
7	153.3	681.9	171.0	760.6	52.3	72.0
8	173.1	770.0	174.3	775.3	56.3	76.7
9	167.0	742.9	186.2	828.3	61.3	82.7
10	187.3	833.2	169.8	755.3	66.7	80.3
Avg.	167.9	746.7	184.2	819.5	58.6	77.3
S.D.	15.0	66.8	18.7	83.1	4.6	4.0

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328 / 300071097
Sample Number:	5028
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	171.7	763.8	197.5	878.5	66.7	76.3
2	148.1	658.8	209.5	931.9	58.7	86.7
3	168.6	750.0	197.2	877.2	65.3	74.3
4	151.3	673.0	202.5	900.9	62.3	84.0
5	165.7	737.1	188.3	837.6	68.3	78.7
6	151.0	671.7	237.0	1054.2	68.3	82.3
7	147.7	657.0	198.3	882.1	58.7	77.7
8	169.7	754.9	221.6	985.7	61.7	86.0
9	186.5	829.6	235.8	1048.9	76.0	76.3
10	174.6	776.7	203.2	903.9	67.0	70.3
Avg.	163.5	727.2	209.1	930.1	65.3	79.3
S.D.	13.3	58.9	16.8	74.9	5.2	5.3

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, Laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES
ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357 / 300071091
Sample Number:	5029
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	235.7	1048.4	232.0	1032.0	62.0	80.3
2	207.0	920.8	238.3	1060.0	62.0	81.7
3	179.3	797.6	194.6	865.6	56.3	72.0
4	170.3	757.5	205.6	914.6	58.3	72.7
5	188.4	838.0	211.3	939.9	62.3	83.0
6	201.6	896.8	199.1	885.6	56.7	75.3
7	197.1	876.7	227.7	1012.9	63.3	70.7
8	249.1	1108.1	221.6	985.7	67.3	73.3
9	208.0	925.2	222.1	988.0	61.0	76.7
10	229.8	1022.2	216.1	961.3	61.0	78.0
Avg.	206.6	919.1	216.8	964.6	61.0	76.4
S.D.	25.2	112.0	14.2	63.4	3.3	4.3

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C; laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357 / 300071108
Sample Number:	5030
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	161.2	717.1	197.3	877.6	59.7	75.7
2	166.2	739.3	222.5	989.7	66.3	72.7
3	175.0	778.4	225.5	1003.1	61.7	86.7
4	189.7	843.8	222.7	990.6	70.3	81.0
5	171.5	762.9	212.6	945.7	59.3	79.3
6	134.8	599.6	209.8	933.2	51.7	78.0
7	176.5	785.1	235.7	1048.4	67.0	81.0
8	179.1	796.7	201.2	895.0	62.7	77.3
9	159.2	708.2	199.2	886.1	56.7	77.0
10	198.7	883.9	231.0	1027.5	66.0	85.0
Avg.	171.2	761.5	215.8	959.7	62.1	79.4
S.D.	17.6	78.4	13.7	61.0	5.6	4.2

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES **ASTM D4632 ⁽¹⁾**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385 / 300067828
Sample Number:	5031
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	179.5	798.5	210.0	934.1	60.7	90.0
2	191.1	850.1	173.8	773.1	64.7	77.0
3	184.1	818.9	186.1	827.8	62.7	80.0
4	164.1	730.0	205.2	912.8	63.0	77.7
5	200.1	890.1	180.2	801.6	69.7	79.7
6	171.0	760.6	195.1	867.8	61.3	80.3
7	160.3	713.0	168.8	750.9	52.7	69.7
8	167.2	743.7	164.8	733.1	55.0	74.7
9	215.3	957.7	185.5	825.1	67.7	72.7
10	204.0	907.4	174.3	775.3	69.3	74.0
Avg.	183.7	817.0	184.4	820.2	62.7	77.6
S.D.	18.6	82.8	15.2	67.4	5.6	5.6

Notes:

RD Roll Direction
 XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385 / 300069024
Sample Number:	5032
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	185.2	823.8	224.1	996.8	70.3	85.7
2	181.3	806.5	205.8	915.4	69.3	86.7
3	179.1	796.7	200.0	889.6	68.7	85.3
4	174.3	775.3	236.8	1053.3	68.3	87.7
5	133.7	594.7	196.6	874.5	48.3	72.7
6	188.3	837.6	191.7	852.7	68.7	85.7
7	195.6	870.1	197.6	879.0	64.0	84.3
8	163.2	725.9	217.1	965.7	57.3	75.7
9	175.3	779.8	219.3	975.5	64.0	77.3
10	155.6	692.1	197.1	876.7	56.0	71.7
Avg.	173.2	770.3	208.6	927.9	63.5	81.3
S.D.	18.1	80.5	14.9	66.1	7.3	6.2

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405 / 300068745
Sample Number:	5033
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	155.0	689.5	210.6	936.8	59.0	86.7
2	178.0	791.8	242.8	1080.0	61.0	70.0
3	156.2	694.8	198.4	882.6	62.3	81.7
4	197.5	878.5	221.1	983.5	60.7	81.3
5	172.2	766.0	199.4	887.0	57.0	82.0
6	158.9	706.8	175.4	780.2	58.3	71.7
7	166.4	740.2	200.0	889.6	56.0	86.7
8	170.1	756.6	185.6	825.6	52.0	75.3
9	159.7	710.4	215.7	959.5	51.7	84.7
10	161.3	717.5	214.5	954.1	60.7	85.0
Avg.	167.5	745.2	206.4	917.9	57.9	80.5
S.D.	12.9	57.4	19.0	84.6	3.7	6.1

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405 / 300069002
Sample Number:	5034
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	180.4	802.5	211.8	942.1	62.7	83.7
2	185.3	824.3	183.7	817.1	55.7	78.7
3	171.3	762.0	202.5	900.8	61.7	83.7
4	179.1	796.7	186.8	830.9	53.0	88.0
5	161.4	717.9	179.3	797.6	58.7	85.0
6	165.7	737.1	225.2	1001.7	60.0	80.7
7	174.8	777.5	216.2	961.7	56.7	73.3
8	199.4	887.0	192.9	858.1	55.7	89.0
9	155.0	689.5	210.3	935.5	62.3	84.7
10	191.4	851.4	211.6	941.2	54.7	78.3
Avg.	176.4	784.6	202.0	898.7	58.1	82.5
S.D.	13.7	60.8	15.5	68.9	3.4	4.8

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406 / 300067861
Sample Number:	5136
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	195.5	869.6	205.7	915.0	75.7	81.0
2	179.7	799.3	196.7	875.0	61.7	80.0
3	169.2	752.6	208.5	927.5	72.7	82.3
4	172.6	767.8	224.7	999.5	63.3	88.3
5	143.2	637.0	199.1	885.6	59.0	73.3
6	189.7	843.8	208.3	926.6	64.3	80.3
7	171.1	761.1	209.8	933.2	66.0	73.3
8	186.2	828.3	196.0	871.9	63.7	79.3
9	146.0	649.4	208.0	925.2	57.7	74.7
10	200.0	889.6	209.5	931.9	60.7	69.7
Avg.	175.3	779.9	206.6	919.1	64.5	78.2
S.D.	19.2	85.4	8.3	37.0	5.7	5.5

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406 / 300069469
Sample Number:	5137
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	223.3	993.3	200.5	891.9	59.7	71.3
2	184.8	822.0	208.0	925.2	70.0	78.0
3	186.2	828.3	239.5	1065.3	59.3	72.7
4	184.8	822.0	206.6	919.0	70.7	73.7
5	161.1	716.6	223.3	993.3	54.7	75.0
6	215.8	959.9	206.6	919.0	70.7	82.7
7	182.8	813.1	209.3	931.0	51.0	76.3
8	204.7	910.6	209.8	933.2	71.7	76.0
9	198.8	884.3	215.3	957.7	68.7	71.3
10	202.1	899.0	210.0	934.1	61.7	74.3
Avg.	194.4	864.9	212.9	947.0	63.8	75.1
S.D.	18.2	80.8	11.1	49.4	7.5	3.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434 / 300067842
Sample Number:	5138
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	169.0	751.7	190.2	846.1	63.7	70.3
2	150.7	670.3	184.3	819.8	48.0	62.7
3	157.0	698.4	190.8	848.7	46.7	66.0
4	146.1	649.9	215.5	958.6	52.0	70.7
5	168.2	748.2	189.8	844.3	54.0	72.0
6	141.5	629.4	192.2	854.9	61.0	72.7
7	183.6	816.7	204.1	907.9	50.3	72.0
8	176.8	786.4	194.8	866.5	60.7	67.0
9	138.5	616.1	186.3	828.7	49.7	65.3
10	205.5	914.1	198.8	884.3	59.7	64.0
Avg.	163.7	728.1	194.7	866.0	54.6	68.3
S.D.	21.1	93.9	9.3	41.5	6.2	3.7

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:
Project Number:
Client Project Number:
Client/Site ID:
Sample Number:
Material Type:
Expected/Specified Value:
Date Received:

CORTLAND COUNTY LANDFILL
GTX-G0216
MEC 3651.026
586434 / 300067859
5139
NONWOVEN GEOTEXTILE
7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	186.2	828.3	215.3	957.7	67.3	72.3
2	185.1	823.4	194.0	863.0	55.0	71.7
3	195.7	870.5	198.7	883.9	59.7	70.7
4	190.2	846.1	196.1	872.3	56.7	75.7
5	152.7	679.2	195.3	868.7	55.7	66.3
6	191.0	849.6	195.8	871.0	64.0	64.0
7	180.8	804.2	189.7	843.8	58.0	73.0
8	165.3	735.3	225.3	1002.2	55.0	79.3
9	200.6	892.3	220.6	981.3	69.0	68.7
10	182.5	811.8	212.5	945.2	51.0	78.0
Avg.	183.0	814.1	204.3	908.9	59.1	72.0
S.D.	14.3	63.6	12.8	56.8	5.9	4.9

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:
Project Number:
Client Project Number:
Client/Site ID:
Sample Number:
Material Type:
Expected/Specified Value:
Date Received:

CORTLAND COUNTY LANDFILL
GTX-G0216
MEC 3651.026
586463 / 300052980
5140
NONWOVEN GEOTEXTILE
7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	188.0	836.3	211.7	941.7	65.7	65.3
2	175.8	782.0	206.1	916.8	56.7	66.7
3	143.5	638.3	202.2	899.4	58.7	65.0
4	209.3	931.0	189.8	844.3	58.0	73.3
5	144.3	641.9	173.2	770.4	54.0	64.7
6	181.1	805.6	201.7	897.2	60.0	69.7
7	168.6	750.0	179.5	798.5	51.0	70.0
8	199.7	888.3	215.8	959.9	60.3	67.3
9	169.7	754.9	196.7	875.0	53.7	65.7
10	173.8	773.1	172.3	766.4	57.3	69.0
Avg.	175.4	780.1	194.9	867.0	57.5	67.7
S.D.	21.1	93.7	15.6	69.4	4.1	2.8

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:
Project Number:
Client Project Number:
Client/Site ID:
Sample Number:
Material Type:
Expected/Specified Value:
Date Received:

CORTLAND COUNTY LANDFILL
GTX-G0216
MEC 3651.026
586463 / 300067780
5141
NONWOVEN GEOTEXTILE
7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	193.0	858.5	254.1	1130.3	61.0	81.0
2	177.6	790.0	290.1	1290.4	57.7	78.3
3	204.2	908.3	213.1	947.9	60.3	76.0
4	195.5	869.6	207.3	922.1	65.0	68.0
5	200.8	893.2	241.3	1073.4	58.7	70.3
6	197.2	877.2	201.5	896.3	64.0	76.3
7	199.3	886.5	222.0	987.5	65.3	83.0
8	173.8	773.1	237.7	1057.3	53.7	88.3
9	166.5	740.6	208.8	928.8	55.0	72.7
10	181.6	807.8	228.2	1015.1	62.3	77.3
Avg.	189.0	840.5	230.4	1024.9	60.3	77.1
S.D.	13.0	57.9	26.9	119.6	4.0	6.0

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:
Project Number:
Client Project Number:
Client/Site ID:
Sample Number:
Material Type:
Expected/Specified Value:
Date Received:

CORTLAND COUNTY LANDFILL
GTX-G0216
MEC 3651.026
586492 / 300051973
5142
NONWOVEN GEOTEXTILE
7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	181.1	805.6	224.2	997.3	68.0	74.3
2	191.1	850.1	207.6	923.5	67.3	80.7
3	169.7	754.9	239.3	1064.5	64.3	71.7
4	192.5	856.3	262.2	1166.3	83.0	74.3
5	186.6	830.0	215.3	957.7	69.3	70.7
6	191.2	850.5	228.7	1017.3	70.0	74.7
7	206.6	919.0	195.8	871.0	66.3	70.7
8	163.6	727.7	240.8	1071.1	66.3	76.7
9	212.1	943.5	227.8	1013.3	68.7	86.0
10	184.2	819.4	223.0	992.0	68.3	77.3
Avg.	187.9	835.7	226.5	1007.4	69.2	75.7
S.D.	14.8	65.7	18.5	82.4	5.1	4.8

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586492 / 300052105
Sample Number:	5143
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	178.6	794.5	200.3	891.0	70.7	73.7
2	203.1	903.4	220.6	981.3	62.7	81.0
3	180.3	802.0	234.6	1043.6	60.3	81.0
4	154.0	685.0	195.0	867.4	59.0	71.3
5	212.0	943.0	193.2	859.4	74.3	69.3
6	230.0	1023.1	234.2	1041.8	66.3	78.0
7	247.7	1101.8	210.5	936.4	56.3	78.7
8	206.5	918.6	211.8	942.1	57.3	77.7
9	214.8	955.5	218.0	969.7	66.3	81.3
10	188.8	839.8	214.5	954.1	66.7	77.3
Avg.	201.6	896.7	213.3	948.7	64.0	76.9
S.D.	27.2	120.9	14.5	64.4	5.9	4.2

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, Laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:
Project Number:
Client Project Number:
Client/Site ID:
Sample Number:
Material Type:
Expected/Specified Value:
Date Received:

CORTLAND COUNTY LANDFILL
GTX-G0216
MEC 3651.026
586521 / 300067863
5144
NONWOVEN GEOTEXTILE
7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	183.3	815.4	187.8	835.4	64.3	70.7
2	211.2	939.5	232.1	1032.4	61.3	72.0
3	178.1	792.2	208.2	926.1	74.7	66.3
4	175.8	782.0	180.1	801.1	64.3	64.3
5	200.3	891.0	205.2	912.8	58.7	69.7
6	174.2	774.9	233.5	1038.7	62.7	74.0
7	190.1	845.6	203.5	905.2	59.0	73.0
8	226.5	1007.5	209.1	930.1	54.0	74.7
9	202.1	899.0	239.1	1063.6	62.0	72.0
10	195.3	868.7	208.1	925.7	59.7	74.0
Avg.	193.7	861.6	210.7	937.1	62.1	71.1
S.D.	16.9	75.1	19.3	85.7	5.4	3.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES

ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521 / 300068761
Sample Number:	5145
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	184.2	819.4	220.1	979.1	80.3	77.7
2	192.0	854.1	236.0	1049.8	87.7	71.7
3	205.1	912.3	215.1	956.8	83.7	84.0
4	194.8	866.5	223.3	993.3	79.3	90.7
5	168.7	750.4	249.8	1111.2	81.7	92.7
6	218.6	972.4	225.0	1000.8	80.3	88.0
7	201.7	897.2	220.6	981.3	81.3	87.7
8	221.8	986.6	256.8	1142.3	84.3	92.7
9	200.2	890.5	214.0	951.9	76.3	83.7
10	218.0	969.7	246.7	1097.4	76.0	83.3
Avg.	200.5	891.9	230.7	1026.4	81.1	85.2
S.D.	16.6	74.0	15.5	68.8	3.6	6.7

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES
ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540 / 300068700
Sample Number:	5146
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	190.3	846.5	207.2	921.7	70.0	75.7
2	176.5	785.1	192.5	856.3	61.3	71.7
3	180.7	803.8	209.0	929.7	66.7	78.3
4	191.7	852.7	196.2	872.7	65.7	75.7
5	172.6	767.8	202.8	902.1	67.0	75.0
6	206.0	916.3	204.0	907.4	66.0	73.0
7	224.5	998.6	210.1	934.6	65.0	79.7
8	197.0	876.3	226.6	1008.0	70.3	83.7
9	198.5	883.0	218.3	971.0	62.3	84.0
10	212.5	945.2	184.2	819.4	66.7	73.0
Avg.	195.0	867.5	205.1	912.3	66.1	77.0
S.D.	16.3	72.6	12.3	54.7	2.8	4.4

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

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GRAB BREAKING LOAD AND ELONGATION OF GEOTEXTILES
ASTM D4632 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540 / 300068711
Sample Number:	5147
Material Type:	NONWOVEN GEOTEXTILE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen Number	Grab Breaking Load				Apparent Breaking Elongation	
	RD		XD		RD	XD
	(lb)	(N)	(lb)	(N)	(%)	(%)
1	201.3	895.4	233.4	1038.2	54.3	73.3
2	168.4	749.1	221.8	986.6	57.3	75.0
3	155.7	692.6	215.4	958.1	51.7	74.0
4	189.7	843.8	198.7	883.9	59.3	77.0
5	195.4	869.2	207.7	923.9	57.7	75.0
6	199.7	888.3	215.7	959.5	59.3	73.3
7	183.4	815.8	200.4	891.4	62.7	70.7
8	191.7	852.7	230.6	1025.8	61.7	66.7
9	192.4	855.8	216.2	961.7	59.3	76.7
10	183.7	817.1	210.0	934.1	55.7	75.3
Avg.	186.1	828.0	215.0	956.3	57.9	73.7
S.D.	14.3	63.6	11.5	51.1	3.3	3.1

Notes:

RD Roll Direction
XD Cross - Roll Direction

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271
Sample Number:	5011
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	8.90E-4	0.430
2	MD	96	2000	0.25	0.10	7.61E-4	0.368
3	MD	96	2000	0.25	0.10	7.30E-4	0.353

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
 Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

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BEG 7-13-01

HYDRAULIC TRANSMISSIVITY TEST **ASTM D4716**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300
Sample Number:	5012
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	7.80E-4	0.377
2	MD	96	2000	0.25	0.10	5.25E-4	0.254
3	MD	96	2000	0.25	0.10	6.29E-4	0.305

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C; Laboratory Humidity at 50±15 %
 Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

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7/13/01

HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328
Sample Number:	5013
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	7.85E-4	0.379
2	MD	96	2000	0.25	0.10	6.80E-4	0.329
3	MD	96	2000	0.25	0.10	1.17E-3	0.567

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

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HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357
Sample Number:	5014
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

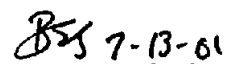
Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	8.59E-4	0.415
2	MD	96	2000	0.25	0.10	7.13E-4	0.344
3	MD	96	2000	0.25	0.10	6.98E-4	0.338

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

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HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385
Sample Number:	5015
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	1.02E-3	0.490
2	MD	96	2000	0.25	0.10	5.72E-4	0.277
3	MD	96	2000	0.25	0.10	1.48E-3	0.715

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

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HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405
Sample Number:	5016
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	8.78E-4	0.424
2	MD	96	2000	0.25	0.10	6.96E-4	0.337
3	MD	96	2000	0.25	0.10	7.53E-4	0.364

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
 Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

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HYDRAULIC TRANSMISSIVITY TEST **ASTM D4716**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406
Sample Number:	5124
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	7.31E-4	0.353
2	MD	96	2000	0.25	0.10	7.00E-4	0.338
3	MD	96	2000	0.25	0.10	4.63E-4	0.223

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction, XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
 Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

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✓ 55 8/1/01

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HYDRAULIC TRANSMISSIVITY TEST **ASTM D4716**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434
Sample Number:	5125
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	6.83E-4	0.330
2	MD	96	2000	0.25	0.10	6.41E-4	0.310
3	MD	96	2000	0.25	0.10	3.60E-4	0.173

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction, XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
 Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

JT 7-31-01

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HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586463
Sample Number:	5126
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	8.04E-4	0.389
2	MD	96	2000	0.25	0.10	3.89E-4	0.188
3	MD	96	2000	0.25	0.10	3.42E-4	0.165

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

JT 7-31-01

✓ SS 8/1/01

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HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586492
Sample Number:	5127
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	9.44E-4	0.457
2	MD	96	2000	0.25	0.10	8.81E-4	0.425
3	MD	96	2000	0.25	0.10	8.57E-4	0.413

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

JT 7-31-01

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✓ 55811/01

HYDRAULIC TRANSMISSIVITY TEST **ASTM D4716**

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521
Sample Number:	5128
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	5.58E-4	0.270
2	MD	96	2000	0.25	0.10	5.69E-4	0.274
3	MD	96	2000	0.25	0.10	6.79E-4	0.329

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
 Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

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HYDRAULIC TRANSMISSIVITY TEST

ASTM D4716

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540
Sample Number:	5129
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	

Specimen No	Flow Direction	Normal Compressive Stress		Seating Time (hr)	Hydraulic Gradient (-)	Transmissivity ⁽¹⁾ (m ² /sec)	Unit Flow Rate ⁽¹⁾ (gpm/ft)
		(kPa)	(psf)				
1	MD	96	2000	0.25	0.10	8.32E-4	0.402
2	MD	96	2000	0.25	0.10	7.72E-4	0.374
3	MD	96	2000	0.25	0.10	8.42E-4	0.406

Notes:

- (1) The values presented are average of four measurements.
- (2) MD: roll direction; XD: cross roll direction.
- (3) Test configuration (from top to bottom): top plate/geocomposite/bottom plate.

Deviations:

Test Conditions: Laboratory Temperature at 22±3 °C, Laboratory Humidity at 50±15 %
Figures for transmissivity and/or unit flow rate versus hydraulic gradient are not presented.

JT 7-31-01

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PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586271
Sample Number:	5011
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	232	1.3	509	2.9	813	4.6	1380	7.7
5	1040	5.8	1853	10.4	404	2.3	409	2.3
3	580	3.3	621	3.5	283	1.6	464	2.6
4	667	3.7	212	1.2	589	3.3	1194	6.7
5	1171	6.6	1286	7.2	241	1.4	560	3.1
Avg.	738	4.1	896	5.0	466	2.6	801	4.5
S.D.	376	2.1	663	3.7	236	1.3	451	2.5

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586300
Sample Number:	5012
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	496	2.8	371	2.1	435	2.4	239	1.3
5	955	5.4	1469	8.2	871	4.9	1640	9.2
3	895	5.0	1612	9.0	784	4.4	980	5.5
4	388	2.2	368	2.1	748	4.2	1301	7.3
5	790	4.4	988	5.5	692	3.9	938	5.3
Avg.	705	3.9	962	5.4	706	4.0	1019	5.7
S.D.	250	1.4	588	3.3	165	0.9	520	2.9

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586328
Sample Number:	5013
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	366	2.1	480	2.7	696	3.9	596	3.3
5	632	3.5	1176	6.6	1046	5.9	571	3.2
3	531	3.0	1000	5.6	739	4.1	1518	8.5
4	308	1.7	321	1.8	688	3.9	433	2.4
5	948	5.3	939	5.3	1103	6.2	670	3.8
Avg.	557	3.1	783	4.4	854	4.8	758	4.2
S.D.	254	1.4	364	2.0	203	1.1	434	2.4

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

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7-13-01

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586357
Sample Number:	5014
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	455	2.6	627	3.5	835	4.7	563	3.2
5	531	3.0	467	2.6	484	2.7	801	4.5
3	230	1.3	324	1.8	217	1.2	297	1.7
4	645	3.6	406	2.3	973	5.5	929	5.2
5	844	4.7	609	3.4	864	4.8	759	4.3
Avg.	541	3.0	487	2.7	675	3.8	670	3.8
S.D.	227	1.3	131	0.7	315	1.8	246	1.4

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel, and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

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PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586385
Sample Number:	5015
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	281	1.6	473	2.7	277	1.6	719	4.0
5	270	1.5	181	1.0	487	2.7	304	1.7
3	402	2.3	996	5.6	786	4.4	877	4.9
4	261	1.5	835	4.7	489	2.7	176	1.0
5	379	2.1	232	1.3	373	2.1	214	1.2
Avg.	319	1.8	543	3.0	482	2.7	458	2.6
S.D.	66	0.4	361	2.0	191	1.1	319	1.8

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±2 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 9 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.023
Client/Site ID:	586405
Sample Number:	5016
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/6/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	830	4.7	1203	6.7	1078	6.0	859	4.8
5	554	3.1	183	1.0	1319	7.4	993	5.6
3	188	1.1	199	1.1	295	1.7	324	1.8
4	685	3.8	1040	5.8	933	5.2	969	5.4
5	826	4.6	228	1.3	1131	6.3	866	4.9
Avg.	617	3.5	570	3.2	951	5.3	802	4.5
S.D.	266	1.5	507	2.8	392	2.2	274	1.5

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586406
Sample Number:	5124
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	596	3.3	618	3.5	853	4.8	835	4.7
5	681	3.8	665	3.7	362	2.0	500	2.8
3	355	2.0	480	2.7	208	1.2	317	1.8
4	210	1.2	261	1.5	835	4.7	667	3.7
5	866	4.9	844	4.7	339	1.9	435	2.4
Avg.	542	3.0	574	3.2	519	2.9	551	3.1
S.D.	261	1.5	218	1.2	302	1.7	203	1.1

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

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PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586434
Sample Number:	5125
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	413	2.3	462	2.6	469	2.6	500	2.8
5	263	1.5	625	3.5	259	1.5	458	2.6
3	560	3.1	761	4.3	786	4.4	632	3.5
4	337	1.9	781	4.4	404	2.3	587	3.3
5	210	1.2	603	3.4	315	1.8	806	4.5
Avg.	357	2.0	646	3.6	446	2.5	596	3.3
S.D.	137	0.8	130	0.7	206	1.2	136	0.8

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22 ± 3 °C, laboratory humidity at 50 ± 15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION
ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586463
Sample Number:	5126
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	246	1.4	344	1.9	426	2.4	346	1.9
5	1005	5.6	786	4.4	228	1.3	529	3.0
3	337	1.9	473	2.7	554	3.1	576	3.2
4	266	1.5	446	2.5	357	2.0	203	1.1
5	957	5.4	779	4.4	705	4.0	708	4.0
Avg.	562	3.1	566	3.2	454	2.5	472	2.6
S.D.	384	2.2	204	1.1	183	1.0	199	1.1

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

✓ 55 8/1/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586492
Sample Number:	5127
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	899	5.0	743	4.2	458	2.6	547	3.1
5	1179	6.6	1357	7.6	1205	6.8	1234	6.9
3	1502	8.4	1426	8.0	1752	9.8	1219	6.8
4	866	4.9	525	2.9	592	3.3	402	2.3
5	1147	6.4	1201	6.7	1230	6.9	1730	9.7
Avg.	1119	6.3	1050	5.9	1047	5.9	1026	5.7
S.D.	257	1.4	396	2.2	527	2.9	546	3.1

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586521
Sample Number:	5128
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	779	4.4	1221	6.8	1386	7.8	1685	9.4
5	741	4.2	455	2.6	1029	5.8	504	2.8
3	1355	7.6	607	3.4	844	4.7	770	4.3
4	891	5.0	1161	6.5	944	5.3	1281	7.2
5	719	4.0	504	2.8	1006	5.6	388	2.2
Avg.	897	5.0	790	4.4	1042	5.8	926	5.2
S.D.	264	1.5	371	2.1	205	1.1	546	3.1

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

✓ 55 8/1/01

PEEL STRENGTH / PLY ADHESION

ASTM D413 ⁽¹⁾

Project Name:	CORTLAND COUNTY LANDFILL
Project Number:	GTX-G0216
Client Project Number:	MEC 3651.026
Client/Site ID:	586540
Sample Number:	5129
Material Type:	GEOCOMPOSITE
Expected/Specified Value:	
Date Received:	7/26/01

Specimen No.	Bond Strength / Ply Adhesion							
	Roll Direction				Cross-Roll Direction			
	Top / Single Layer		Bottom Layer		Top / Single Layer		Bottom Layer	
	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)	(g/cm)	(lbs/in)
1	732	4.1	717	4.0	518	2.9	578	3.2
5	1161	6.5	1246	7.0	1265	7.1	1643	9.2
3	732	4.1	404	2.3	806	4.5	569	3.2
4	725	4.1	661	3.7	538	3.0	589	3.3
5	1031	5.8	1350	7.6	964	5.4	1417	7.9
Avg.	876	4.9	875	4.9	818	4.6	959	5.4
S.D.	206	1.2	405	2.3	312	1.7	527	3.0

Notes:

Initial Grip Separation: 2 in.

Test Speed: 2 in./min.

Tests are continued for a minimum of 3 in. of peel; and maximum recorded peel strength values are reported.

(1) Deviations:

Laboratory temperature at 22±3 °C, laboratory humidity at 50±15 %.

The test sample is conditioned in the above mentioned laboratory temperature and humidity conditions for a minimum of 3 hours prior to testing.

Test specimens are 2 in. in width and 8 in. in length. The grip width is 3 in.

✓ ss 8/1/01

**CORTLAND COUNTY LANDFILL
REMEDIAL ACTION LANDFILL CLOSURE**

**TOWNLINE ROAD
CORTLAND COUNTY, NEW YORK**

**APPENDIX C, D, E
WELL AND VENT INSTALLATION LOGS
INSPECTOR'S REPORTS
CONSTRUCTION PHOTOGRAPHS**

VOLUME III OF III

JUNE, 2002



**290 Elwood Davis Road
Box 3107
Syracuse, New York 13220**



recycled paper

Appendix C

Gas Well and Vent Installation Logs

AS-BUILT SUMMARY

BGV GAS VENT SERIES - CORTLAND COUNTY LANDFILL CLOSURE

NOTES: * All casing lengths are 3.5 feet, 0.5 foot stick-up above surface with 3 foot penetration depth.

** All screen lengths extend from Bottom of Casing to 8 inches above Total Vent Depth.
 Moretrench installed all BGV series gas vents, except for BGV-41, BGV-49 & BGV-122 which were installed by Marcy Excavations.

WELL ID.	DATE INSTALLED	VENT LOG INFORMATION					CASING DETAILS					SCREEN DETAILS					CONSTRUCTION NOTES		
		COVER DEPTH	GARBAGE DEPTH	TOTAL VENT DEPTH	BOREHOLE DIAMETER	DIAMETER	DEPTH	BTM	TYPE & MATERIAL	DIAMETER	DEPTH	BTM	TYPE & MATERIAL	DIAMETER	DEPTH	BTM		TYPE & MATERIAL	DEPTH
BGV-1	05/17/01	2	5.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	Installed by Marcy Excavations.
BGV-2	05/17/01	2	5.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-3	05/17/01	4	3.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-4	05/15/01	6	1.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-5	05/15/01	4	3.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-6	05/17/01	4	3.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-7	05/17/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-8	05/15/01	2.5	5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-9	05/15/01	2.5	5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-10	05/15/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-11	07/13/01	6	1.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-12	05/15/01	2.5	5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-13	05/15/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-14	05/15/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-15	05/14/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-16	05/14/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-17	05/14/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-18	05/14/01	3.5	4	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-19	05/14/01	2.5	5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-20	06/06/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-21	06/06/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-22	05/15/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-23	05/15/01	2.5	5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-24	06/06/01	5	2.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-25	05/15/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-26	06/06/01	2	5.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-27	05/17/01	4	3.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-28	05/17/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-29	05/17/01	1	6.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-30	05/16/01	2.5	5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-31	05/17/01	2.5	5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-32	07/13/01	3	4.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-33	07/13/01	2.5	5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-34	07/12/01	6	1.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-35	07/12/01	6	1.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-36	06/06/01	4	3.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-37	05/21/01	2	5.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-38	05/21/01	1	6.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-39	05/16/01	2	5.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-40	05/16/01	2	5.5	7.5	36	6	3	PVC-40	6	7	7	PVC-40	6	7	7	PVC-40	7.5	#2 Stone	
BGV-41																			
BGV-42	07/12/01	7.5																	

AS-BUILT SUMMARY

BGV GAS VENT SERIES - CORTLAND COUNTY LANDFILL CLOSURE

NOTES: * All casing lengths are 3.5 feet, 0.5 foot stick-up above surface with 3 foot penetration depth.
 ** All screen lengths extend from Bottom of Casing to 6 inches above Total Vent Depth.
 Moretrench installed all BGV series gas vents, except for BGV-41, BGV-49 & BGV-122, which were installed by Marcy Excavations.

WELL ID.	DATE INSTALLED	VENT LOG INFORMATION				VENT CONSTRUCTION DETAILS								CONSTRUCTION NOTES
		COVER DEPTH from surface (feet)	GARBAGE DEPTH below cover (feet)	TOTAL VENT DEPTH (feet)	BOREHOL DIAMETER (Inches)	CASING DETAILS			SCREEN DETAILS			GRAVEL PACKING		
						DIAMETER (Inches)	BTM* DEPTH (feet)	TYPE & MATERIAL	DIAMETER (Inches)	BTM** DEPTH (feet)	TYPE & MATERIAL	DEPTH from surface (feet)	TYPE & MATERIAL	
BGV-43	07/12/01	7	0.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	Installed by Marcy Excavations.
BGV-44	07/12/01	7	0.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-45	06/06/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-46	05/21/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-47	05/21/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-48	07/13/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-49			7.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-50	07/12/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-51	07/12/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-52	07/12/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-53	06/06/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-54	05/21/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-55	05/21/01	2.5	5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-56	05/21/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-57	05/21/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-58	05/21/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-59	05/31/01	2.5	5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-60	07/11/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-61	07/11/01	5	2.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-62	07/11/01	5	2.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-63	07/11/01	7	0.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-64	07/11/01	6	1.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-65	05/25/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-66	05/25/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-67	05/31/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-68	05/31/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-69	07/11/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-70	07/10/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-71	07/11/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-72	07/11/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-73	06/06/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-74	05/31/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-75	05/31/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-76	05/31/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-77	07/10/01	6.5	1	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-78	07/10/01	6.5	1	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-79	07/10/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-80	07/10/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-81	07/10/01	7	0.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-82	06/06/01	2.5	5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-83	05/31/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-84	07/13/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	

AS-BUILT SUMMARY

BGV GAS VENT SERIES - CORTLAND COUNTY LANDFILL CLOSURE

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WELL ID.	DATE INSTALLED	VENT LOG INFORMATION				VENT CONSTRUCTION DETAILS								CONSTRUCTION NOTES
		COVER DEPTH <small>from surface</small> (feet)	GARBAGE DEPTH <small>below cover</small> (feet)	TOTAL VENT DEPTH (feet)	BOREHOL DIAMETER (Inches)	CASING DETAILS			SCREEN DETAILS			GRAVEL PACKING		
						DIAMETER (Inches)	BTM* DEPTH (feet)	TYPE & MATERIAL	DIAMETER (Inches)	BTM** DEPTH (feet)	TYPE & MATERIAL	DEPTH <small>from surface</small> (feet)	TYPE & MATERIAL	
BGV-85	07/09/01	6	1.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	Installed by Marcy Excavations.
BGV-86	07/09/01	7.5	0	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-87	07/09/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-88	07/09/01	4.5	3	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-89	07/09/01	5	2.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-90	05/31/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-91	05/30/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-92	05/30/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-93	07/10/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-94	06/05/01	5	2.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-95	06/05/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-96	05/30/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-97	05/30/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-98	05/30/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-99	05/30/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-100	06/01/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-101	06/05/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-102	06/05/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-103	06/05/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-104	06/05/01	7	0.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-105	05/31/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-106	05/30/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-107	05/30/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-108	06/01/01	6	1.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-109	06/05/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-110	06/05/01	2.5	5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-111	05/31/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-112	06/01/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-113	06/01/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-114	06/01/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-115	06/01/01	4	3.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-116	06/01/01	6	1.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-117	05/31/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-118	06/01/01	1	6.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-119	06/01/01	2	5.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-120	06/01/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-121	06/05/01	3	4.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-122			7.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-123	06/05/01	0	7.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-124	06/05/01	0	7.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	
BGV-125	06/05/01	0	7.5	7.5	36	6	3	PVC-40	6	7	PVC-40	7.5	#2 Stone	

AS-BUILT SUMMARY

AGV GAS VENT SERIES - CORTLAND COUNTY LANDFILL CLOSURE

NOTES: * All casing lengths are 5 feet, 1 foot stick-up above surface with 4 foot penetration depth.

** All screen lengths extend from Bottom of Casing to 6 inches above Total Vent Depth.

Moretrench installed all AGV series gas vents.

WELL ID.	DATE INSTALLED	VENT LOG INFORMATION				VENT CONSTRUCTION DETAILS								CONSTRUCTION NOTES
		COVER DEPTH from surface (feet)	GARBAGE DEPTH below cover (feet)	TOTAL VENT DEPTH (feet)	BOREHOL DIAMETER (Inches)	CASING DETAILS			SCREEN DETAILS			GRAVEL PACKING		
						DIAMETER (Inches)	BTM* DEPTH (feet)	TYPE & MATERIAL	DIAMETER (Inches)	BTM** DEPTH (feet)	TYPE & MATERIAL	DEPTH from surface (feet)	TYPE & MATERIAL	
AGV-1	05/14/01	7	23	30	36	12	4	PVC-80	12	29.5	PVC-80	30	#2 Stone	Hit rock @ 24' Hit rock @ 37' Btm Garbage/Hit Rock @ 20' Hit Obstruction, Abandon @ 12' Hit Rock @ 14' Hit Rock @ 57'
AGV-2	05/14/01	3	22	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-3	05/14/01	3.5	21.5	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-4	06/06/01	4	21	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-5	05/16/01	2.5	42.5	45	36	12	4	PVC-80	12	44.5	PVC-80	45	#2 Stone	
AGV-6	05/15/01	3	42	45	36	12	4	PVC-80	12	44.5	PVC-80	45	#2 Stone	
AGV-7	07/13/01	6	18	24	36	12	4	PVC-80	12	23.5	PVC-80	24	#2 Stone	
AGV-8	07/12/01	4	21	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-9	05/18/01	2	55.5	57.5	36	12	4	PVC-80	12	57	PVC-80	57.5	#2 Stone	
AGV-10	05/17/01	2	58	60	36	12	4	PVC-80	12	59.5	PVC-80	60	#2 Stone	
AGV-11	05/29/01	4	56	60	36	12	4	PVC-80	12	59.5	PVC-80	60	#2 Stone	
AGV-12	07/13/01	1	36	37	36	12	4	PVC-80	12	36.5	PVC-80	37	#2 Stone	
AGV-13	07/12/01	3	17	20	36	12	4	PVC-80	12	19.5	PVC-80	20	#2 Stone	
AGV-14	05/25/01	1	11	12	36	12	4	PVC-80	12	11.5	PVC-80	12	#2 Stone	
AGV-14A	05/25/01	1	13	14	36	12	4	PVC-80	12	13.5	PVC-80	14	#2 Stone	
AGV-15	05/18/01	2	43	45	36	12	4	PVC-80	12	44.5	PVC-80	45	#2 Stone	
AGV-16	05/25/01	4	53	57	36	12	4	PVC-80	12	56.5	PVC-80	57	#2 Stone	
AGV-17	05/29/01	3	57	60	36	12	4	PVC-80	12	59.5	PVC-80	60	#2 Stone	
AGV-18	05/16/01	3	57	60	36	12	4	PVC-80	12	59.5	PVC-80	60	#2 Stone	
AGV-19	07/12/01	12	18	30	36	12	4	PVC-80	12	29.5	PVC-80	30	#2 Stone	
AGV-20	05/21/01	2	45.5	47.5	36	12	4	PVC-80	12	47	PVC-80	47.5	#2 Stone	
AGV-21	07/12/01	3	42	45	36	12	4	PVC-80	12	44.5	PVC-80	45	#2 Stone	
AGV-22	07/11/01	10	20	30	36	12	4	PVC-80	12	29.5	PVC-80	30	#2 Stone	
AGV-23	07/11/01	6	29	35	36	12	4	PVC-80	12	34.5	PVC-80	35	#2 Stone	
AGV-24	07/11/01	12	18	30	36	12	4	PVC-80	12	29.5	PVC-80	30	#2 Stone	
AGV-25	07/10/01	6	19	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-26	05/31/01	3	27	30	36	12	4	PVC-80	12	29.5	PVC-80	30	#2 Stone	
AGV-27	07/09/01	2	38	40	36	12	4	PVC-80	12	39.5	PVC-80	40	#2 Stone	
AGV-28	07/09/01	5	25	30	36	12	4	PVC-80	12	29.5	PVC-80	30	#2 Stone	
AGV-29	05/30/01	1	29	30	36	12	4	PVC-80	12	29.5	PVC-80	30	#2 Stone	
AGV-30	07/10/01	2.5	27.5	30	36	12	4	PVC-80	12	29.5	PVC-80	30	#2 Stone	
AGV-31	07/10/01	4	21	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-32	06/05/01	3	22	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-33	05/30/01	1	24	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-34	06/01/01	6	19	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-35	06/05/01	3	22	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-36	05/30/01	1	24	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-37	06/01/01	3	22	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-38	06/01/01	3	22	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	
AGV-39	06/05/01	3	22	25	36	12	4	PVC-80	12	24.5	PVC-80	25	#2 Stone	

MORE TRENCH WELL REPORTS

DATE: 5/17/06

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV² 1 Ty

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **0.5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg. _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

DRILLER/HELPER
Kathleen A Delaney

VERIFIED CONTRACTOR

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marc V

SITE: Cortland Co. Landfill

WELL ID No. BGV# 2

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

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DRILLER/HELPER
Kathleen H. Delaney
VERIFIED CONTRACTOR

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marky

SITE: Cortland Co. Landfill

WELL ID No. BGV-3

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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Kristen O'Dell

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-4 TY

TYPE OF WELL Gas Ext.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 Ln.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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DRILLER/HELPER

DRILLER/HELPER

Kathleen W. Disney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-5 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

[] Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg. _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Frohne

DRILLER/HELPER

Kahten A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-6

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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DRILLER/HELPER

Kathleen A. Delaney
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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-7

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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DRILLER/HELPER

Kathleen Delaney

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RIG NO. 473
WELL Gas Ext.

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JOB NO. 5410
RIG NO. 473
WELL Gas Ext.

TYPE OF WELL Gas Ext.

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

Man Hours OT _____ Rig Hours OT _____

[illegible]

David Foster
DRILLER/HELPER
Rathleen Delaney
VERIFIED CONTRACTOR

Goldenrod - Driller

MORE TRENCH WELL REPORTS

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-9

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

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JOB No. 5410

RIG No. 473

RIG No. 473

TYPE OF WELL GAS EXT.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kathleen R. Delaney
VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

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JOB NO. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-11

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? [] Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Fowler

DRILLER/HELPER

DRILLER/HELPER
Kathleen A Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 5/15/01

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CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV¹² 12

TYPE OF WELL *Gas Ext.*

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Froese

DRILLER/HELPER

Kathleen Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. BGV-13 Ty

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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Kathleen Delaney
VERIFIED CONTRACTOR

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV# 14

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 15 TY

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft.

Well Finished To 7.5 Ft.

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm.

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marc V

SITE: Cortland Co. Landfill

WELL ID No. BGV-16

TYPE OF WELL *Gas Ext.*

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular Drill Hours Reg_____

Man Hours OT Rig Hours OT _____

Notes, Delays (explain):

[illegible]

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marc V

SITE: Cortland Co. Landfill

WELL ID No. BGV-17

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

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CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-18

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36⁴ In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV#19

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

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RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-20

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-21

TYPE OF WELL *Gas Ext.*

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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CONTRACTOR: Marcy

SITE: Cortland Co. Land Fill

WELL ID No. BGV-22 TY

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

[] Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

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CONTRACTOR: Marc V

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-23

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 24

TYPE OF WELL Gas Ext.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 25

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

[] Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV# 26

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 27 TY

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular_____ Drill Hours Reg_____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Hand Trucks

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-28

TYPE OF WELL Gas Ext.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 29

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg. _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-30 TY

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Frober

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-31

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kohlenstoffdioxid

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 7/13/06

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV#32

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A. Delaney

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DATE: 7/13/06

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV^W 33

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft.

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" Ln.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

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DATE: 7/12/06

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-34

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

David Forbes

DRILLER/HELPER

Kathleen A Delaney

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DATE: 7/12/01

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CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-35

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

David Forbes

DRILLER/HELPER

Kathleen M. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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DATE: 6/6/01

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CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-36

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-37

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Frohne

DRILLER/HELPER

Robert A. Delaney

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JOB NO. 5410

RIG No. 473

TYPE OF WELL GAS EXT.

WELL PERMIT NO. _____

Well Construction

Well Finished To 7.5 Ft

Top 36 In.

Well was finished:

☒ Above Grade
☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg. _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A. Delaney

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DATE: 5/16/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-39

TYPE OF WELL GAS EXT

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5' Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Karlton A. Delaney

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DATE: 5/16/01

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marc V

SITE: Cortland Co. Landfill

WELL ID No. BGV# 40

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

[] Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Parker

DRILLER/HELPER

KATHLEEN HEFFER
Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MARCY EXCAVATION CO, INC.**Well Report**

Date: 7/31/01
Type of Well: gas vent
Well I.D. No. BGV 41

Depth of Excavation: 7 1/2'
Diameter of Excavation: 4'
Casing height above land surface 1'
Means of Excavation: John Deere 50
Operator: Dave Call
Assistant(s): Jack Murray Jr

WELL LOG

DEPTH	FORMATION
0-4'	Cover
4-7.5'	Garbage

	Depth to Top	Depth to Bottom	Diameter	Type and Material
Outer Casing	.5'	3'	6"	Sched 40 PVC
Screen	3'	7'	6"	Sched 40 PVC
Gravel Pack	grade	7.5'		#2 Stone


Verified contractor

MORE TRENCH WELL REPORTS

DATE: 7/12/06

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JOB NO. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV# 42

TYPE OF WELL GAS EXT.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]

Notes, Delays (explain):

DRILLER/HELPER

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DATE: 7/12/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-43

TYPE OF WELL Gas Est

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" Ln.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours Standby Hours

Man Hours Regular Drill Hours Reg

Man Hours OT	Rig Hours OT
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100
110	110
120	120
130	130
140	140
150	150
160	160
170	170
180	180
190	190
200	200
210	210
220	220
230	230
240	240
250	250
260	260
270	270
280	280
290	290
300	300
310	310
320	320
330	330
340	340
350	350
360	360
370	370
380	380
390	390
400	400
410	410
420	420
430	430
440	440
450	450
460	460
470	470
480	480
490	490
500	500
510	510
520	520
530	530
540	540
550	550
560	560
570	570
580	580
590	590
600	600
610	610
620	620
630	630
640	640
650	650
660	660
670	670
680	680
690	690
700	700
710	710
720	720
730	730
740	740
750	750
760	760
770	770
780	780
790	790
800	800
810	810
820	820
830	830
840	840
850	850
860	860
870	870
880	880
890	890
900	900
910	910
920	920
930	930
940	940
950	950
960	960
970	970
980	980
990	990
1000	1000

Notes, Delays (explain):[illegible]

David Fisher

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

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CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 44 TY

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Truher
DRILLER/HELPER
Kathleen A. Delaney
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MORETRENCH WELL REPORTS

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-45 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 3.6" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

David Forbes

DRILLER/HELPER

Kathleen A Delaney

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 5/21/01

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV#46

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft.

Borehole diameter:

Top 36 In.

Bottom 3.6 In.

Well was finished:

☒ Above Grade

[] Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/GROUT				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]

Notes, Delays (explain):

David Forbes

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

DATE: 5/21/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410.

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-47

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Rakhteen Chaudhary

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DATE: 7/13/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-48

TYPE OF WELL Gas Ext.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective easing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Frohne

DRILLER/HELPER

Kathleen A'Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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Pink - Contractor

Goldenrod - Driller

MARCY EXCAVATION CO, INC.**Well Report**Date: 1-31-01Type of Well: ADS wellWell I.D. No. BEV 49Depth of Excavation: 7.5'Diameter of Excavation: 4'Casing height above land surface 1'Means of Excavation: JOHN DEERE 50Operator: DAVE CHILLAssistant(s) JACK MURRAY, JR.**WELL LOG**

DEPTH	FORMATION
0'-1'	cover
1'-7 1/2'	garbage

	Depth to Top	Depth to Bottom	Diameter	Type and Material
Outer Casing	.5	3'	6"	SCHED 40 PVC
Screen	3'	7'	6"	SCHED 40 PVC
Gravel Pack	grade	7.5'		# 2 stone

Kathleen A. Delaney
Verified contractor

MORE TRENCH WELL REPORTS

DATE: 7/12/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 50 Ty

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 Ln.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 1/12/01

PAGE NO. 1 OF 1

CONTRACTOR: MARCY

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 51 TY

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Trohler
DRILLER/HELPER

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 7/12/06

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-52

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fowler

DRILLER/HELPER

Lawrence A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 6/6/06

PAGE NO. 1 OF 1

JOB NO. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-53

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg. _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Frober

DRILLER/HELPER

DRILLER/HELPER
Kathleen A. Delaney

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 3/2/101

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-54

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kathleen Blaney

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy
SITE: Cortland Co. Landfill
WELL ID NO. BGV# 55 TY

DATE: 5/2/01
PAGE NO. 1 OF 1
JOB NO. 5410
RIG NO. 473
WELL Gas Ext.

Total Depth Drilled 7.5 Ft
Well Finished To 7.5 Ft

Top 36 In.
Bottom 36 In.

☒ Above Grade
☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

Man Hours OT _____ Rig Hours OT _____

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is a vertical margin line on the left side, creating a narrow left margin. The paper appears to be from a notebook or a standard ruled sheet of paper.

[illegible]

David Troker
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

Goldenrod - Driller

MORETRENCH WELL REPORTS

DATE: 5/2/10

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-56

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kathleen A Delaney

VERIFIED CONTRACTOR

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Goldenrod - Driller

MORETRENCH WELL REPORTS

DATE: 5/2/10

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-58 TY

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Parker

DRILLER/HELPER

Kathleen A. Delaney

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DATE: 5/3/10

PAGE NO. 1 OF 1

JOB No. 5410

RIG No. 473

CONTRACTOR: Marcus

SITE: Cortland Co. Landfill

WELL ID No. BGV# 59

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A Delaney

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DATE: 1/11/2011

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CONTRACTOR: *Marc V*

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-60

TYPE OF WELL *Gas Int.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fowler

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 1/11/01

PAGE NO. 1 OF 7

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-61

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forster

DRILLER/HELPER

DRILLER/HELPER
Kaitler A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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DATE: 7/11/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 62

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5' Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Foster

DRILLER/HELPER

DRILLER/HELPER
Kathleen A. Wolanetz
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 1/1/01

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-63

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? [] Yes [~~X~~] No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]

Notes, Delays (explain):

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DATE: 7/11/06

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-64

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5' Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

DRILLER/HELPER
Kathleen A. Delaney

VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 5/25/01

PAGE NO. 1 OF 1

CONTRACTOR: Marc V

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-65 TY

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A. Delaney

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224

TYPE OF WELL Gas Ext.

WELL ID No. BGV-66

WELL PERMIT NO.

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

Man Hours OT _____ Rig Hours OT _____

0-1	Cover
1-7½	Garbage

Notes, Delays (explain):**VERIFIED CONTRACTOR**

Goldenrod - Driller

MORETRENCH WELL REPORTS

DATE: 5/31/06

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-67

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Fowler

DRILLER/HELPER

Kathleen McElaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 5/3/101

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. BGV# 68

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ rpm

Method of development

Travel Hours	Standby Hours
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
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80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT Rig Hours OT

WELL LOG

[illegible]**Notes, Delays (explain):**

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MORE TRENCH WELL REPORTS

DATE: 7/11/06

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 69 TY

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

David Fowler

DRILLER/HELPER

Kathleen Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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DATE: 7/10/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 70

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

[] Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Fisher

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 7/11/06

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CONTRACTOR: Marc V

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 71

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grnd	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? [] Yes [☒] No

Static water level after drilling Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT Rig Hours OT

Notes, Delays (explain):[illegible]

Kind Forbes

DRILLER/HELPER

DRILLER/HELPER
Karsten A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 1/1/04

PAGE NO. 1 OF 2

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-72

TYPE OF WELL Gas Ext

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 6/6/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-73 TY

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Trolier
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marc V

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-74

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter.

Top 36 In.

Bottom 36 In.

Well was finished:

☒ Above Grade

☒ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface: 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Fisher

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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DATE: 5/3/10

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-75 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? [] Yes [~~X~~] No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]

Notes, Delays (explain):

David Forbes

DRILLER/HELPER

Kathleen Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID NO. BGV-76

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fowler

DRILLER/HELPER

Karnter A Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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DATE: 7/10/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 77

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36⁴ In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

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DATE: 7/10/01

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CONTRACTOR: Marc V

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 78

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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DRILLER/HELPER

Kathleen O'Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-79 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 in.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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DATE: 7/10/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV#80

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fisher

DRILLER/HELPER

Kathleen R. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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DATE: 7/10/06

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-81 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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DATE: 6/6/06

PAGE NO. 1 OF 1

JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-82 TY

TYPE OF WELL Gas Ext.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Fowler

DRILLER/HELPER

DRILLER HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-83

TYPE OF WELL *Gas Ext.*

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Karsten A. Delaney

VERIFIED CONTRACTOR

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DATE: 7/27/01

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JOB No. 5410

RIG No. 473

WELL ID No. BGV-84

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg. _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

Another Well Job Done

[illegible]

David Forbes

DRILLER/HELPER

Kathleen C. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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Goldenrod - Driller

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DATE: 7/9/06

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV#85 Ty

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A Delaney

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. BGV-~~2~~ 86

TYPE OF WELL *Gas Ext.*

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fisher

DRILLER/HELPER

Kathleen A Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-~~88~~87 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fowler

DRILLER/HELPER

Kathleen Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 88 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Torber
DRILLER/HELPER

DRILLER/HELPER

DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 89 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Daniel Forber
DRILLER/HELPER
Katalen A Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-90

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Barber
DRILLER/HELPER

DRILLER/HELPER

Kathleen R. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-91 TY

TYPE OF WELL Gas Ext.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? [] Yes [X] No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A Delaney

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-~~91~~ 92

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft.

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kathleen A Delaney

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV#93

TYPE OF WELL GAS EXT.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):****DRILLER/HELPER****VERIFIED CONTRACTOR**

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CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-94 TY

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fisher
DRILLER/HELPER
Karsten A. Eloney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 95

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

* Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

DRILLER/HELPER
Kathleen P. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-96

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fisher

DRILLER/HELPER

DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-97 TY

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen Delaney

VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 5/30/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-98

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]

Notes, Delays (explain):

David Frober

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID NO. BGV# 99

TYPE OF WELL Gas Ext.

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? [] Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

DRILLER/HELPER
Kathleen A Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marc Y

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. BGV^W 100

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 3.6" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

David Forbes

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-101

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Dan Fisher
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-102

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface • 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marc V

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-103 Ty

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg. _____

Man Hours OT	Rig Hours OT
---------------------	---------------------

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marc V

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-104

TYPE OF WELL Gas Ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? [] Yes [X] No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

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DRILLER/HELPER
Kathleen A. Delaney
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CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-105

TYPE OF WELL *Gas Ext.*

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" Ln.

Well was finished:

☒ Above Grade
☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Truher
DRILLER/HELPER

DRILLER/HELPER

Kathleen A. Delaney
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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV² 106

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 Ln.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-107

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Land Truck

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. BGV-108

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 109 TY

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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DRILLER/HELPER

Kathleen P. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-110

TYPE OF WELL *Gas Frt.*

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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Kathleen A. Delaney
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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-112

TYPE OF WELL Gas Ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft.

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft.

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Forbes

DRILLER/HELPER

Kathleen Delaney

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JOB NO. 5410
RIG NO. 473
WELL Gas Ext.

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JOB NO. 5410

RIG No. 473

WELL PERMIT NO. _____

Total Depth Drilled 7.5 Ft
Well Finished To 7.5 Ft

Top 36 In.
Bottom 36 In.

☒ Above Grade
☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Truher
DRILLER/HELPER
Kristen Delaney
VERIFIED CONTRACTOR

DATE: 6/1/06

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CONTRACTOR: Marc V

JOB NO. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-114 Ty

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5' Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

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DRILLER/HELPER
Kathleen A. Delaney
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CONTRACTOR: MARCY

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-115

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Daniel Trohler
DRILLER/HELPER
Kathleen Delaney
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DATE: 6/1/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-116

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling Ft.

Well was developed for _____ hours at _____ gpm

Method of development	_____
-----------------------	-------

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Frohne

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 117

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	pvc 40
Screen (Note slot size)	3'	7'	6"	pvc 40
Tail Piece				
Gravel Pack	Grade	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Fisher

DRILLER/HELPER

Kathleen A Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-118

TYPE OF WELL GAS EXT.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

[] Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Fowler

DRILLER/HELPER

DRILLER/HELPER
Kathleen A Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV# 119

TYPE OF WELL GAS EXT.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT . _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Truher
DRILLER/HELPER

DRILLER/HELPER

DRILLER/HELPER
Kathleen Adelaney
VERIFIED CONTRACTOR

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MORETRENCH WELL REPORTS

DATE: 6/1/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV^W120

TYPE OF WELL Gas Ext.

WELL PERMIT No.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

[] Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	1.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 0.5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Daniel F. Fisher
DRILLER/HELPER
Katherine A. Delaney
VERIFIED CONTRACTOR

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Goldenrod - Driller

MARCY EXCAVATION CO, INC.**Well Report**

Date: 6/5/01
Type of Well: gas vent
Well I.D. No. BGV 122

Depth of Excavation: 7 1/2'
Diameter of Excavation: 3-4'
Casing height above land surface 1'
Means of Excavation: Kobelco 140
Operator: Travis Ernst
Assistant(s) Scott Wolanski

WELL LOG

DEPTH	FORMATION
0' - 1' - 4'	# cover
4 - 7 1/2'	garbage

	Depth to Top	Depth to Bottom	Diameter	Type and Material
Outer Casing	.5	3'	6"	SCHED 40 PVC
Screen	3'	7'	6"	SCHED 40 PVC
Gravel Pack	grade	7.5'		#2 STONE

Kathleen A. Delaney
Verified contractor

MORE TRENCH WELL REPORTS

DATE: 6/5/06

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Land Fill

WELL ID No. BGV#123

TYPE OF WELL Gas Ext.

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5' Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface **5** Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

Daniel Trohler
DRILLER/HELPER
Kathleen O'Delaney
VERIFIED CONTRACTOR

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Pink - Contractor Goldenrod - Driller

MORETRENCH WELL REPORTS

DATE: 6/5/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. BGV-124

TYPE OF WELL *Gas Ext.*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+0.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Tucker
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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Goldenrod - Driller

MORETRENCH WELL REPORTS

DATE: 6/5/06

PAGE NO. 1 OF 5

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. BGV-125

TYPE OF WELL Gas Exp

WELL PERMIT NO.

Well Construction

Total Depth Drilled 7.5 Ft

Well Finished To 7.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	4.5	3'	6"	PVC 40
Screen (Note slot size)	3'	7'	6"	PVC 40
Tail Piece				
Gravel Pack	Gravel	7.5	#2	stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 5 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David Trubie
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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Goldenrod - Dog

MORE TRENCH WELL REPORTS

DATE: 5/11/00

PAGE NO. 1 OF 1

JOB No. 5410

RIG No. 473

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 30 Ft.

Well Finished To: 350 Ft

Borehole diameter " "

Top 36 In.

Bottom 36" In.

Well was finished

☒ Above Grade

12 Flush Mounted

1. finished above grade, casing height (stick up) above land surface 1 Ft.

Was steel protective casing installed? ☐ Yes ☒ No

Blank water level after drilling _____ Ft.

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular	Drill Hours Reg
--------------------------	------------------------

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+1'	4'	12"	PVC-80
Screen (Note slot size)	4'	29.5	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel	30	#2	Stone
Annular Seal/Grout				
Method of Grouting				

WELL LOG

[illegible]

DRILLER/HELPER

VERIFIED CONTRACTOR

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Goldenrod - Driller

MORE TRENCH WELL REPORTS

DATE: 5/14/01

PAGE NO. 1 OF 1

JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. AGV#2 TY

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25' Ft

Well Finished To 25' Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	25	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David T. Jones
DRILLER/HELPER
Kathleen Delaney
VERIFIED CONTRACTOR

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Goldenrod - Driller

MORETRENCH WELL REPORTS DATE: 5/14/01

PAGE NO. 1 OF 1

JOB No. 5410

RIG No. 473

TYPE OF WELL Gas ext

WELL PERMIT NO. _____

Well Construction

Well Finished To 25 Ft

Top 36 In.

Bottom 36 In.

 Above Grade.

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel	25	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

Was steel protective casing installed? ☐ Yes ☒ No

Well was developed for _____ hours at _____ gpm

Travel Hours _____ Standby Hours _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

WELL LOG

[illegible]

DRILLER/HELPER

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 6/6/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV#4 TY

TYPE OF WELL Gas ext

WELL PERMIT No.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	25'	# 2	STONE
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

Richard J. Jones
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 5/16/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV# 5 Ty

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 45 Ft

Well Finished To 95 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	4' $\frac{1}{2}$	12"	PVC 80
Tail Piece				
Gravel Pack	Grade		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Rand Jensen
DRILLER/HELPER
Kurtis A. Delaney
VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 5/15/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

SITE: Certland Co. Land Fill.

WELL ID No. AGV-6

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 95 Ft

Well Finished To 45 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	44 1/2	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel	45	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Forbes

DRILLER/HELPER

Kathleen Delaney

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 7/13/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcu

JOB NO. 5460

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV# 7

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 24 Ft

Well Finished To 24 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC-80
Screen (Note slot size)	4'	23 1/2'	12"	PVC-80
Tail Piece				
Gravel Pack	Grade	24'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 2' Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

Hit rock @ 24' set well there.

DRILLER/HELPER

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 7/2/01

PAGE NO. 1 OF 1

JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill

WELL ID No. AGV # 8

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24½'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	25'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]

Notes, Delays (explain):

DRILLER/HELPER

VERIFIED CONTRACTOR

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DATE: 5/18/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. AGV# 9

TYPE OF WELL *Gas ext*

WELL PERMIT No.

Well Construction

Total Depth Drilled 57.5 Ft

Well Finished To 57.5 Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	57'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	57.5	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

Hit Pile of rubble @ 57.5
Try to advance for 1/2 Hr
no recovery, set well there
as per Chrd (B&L)

WELL LOG

[illegible]

David Forbes

DRILLER/HELPER

DRILLER/HELPER
Christopher W. DeC

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 5/17/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV#10

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 60 Ft

Well Finished To 60 Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	59.5	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	60	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Rand Fisher
DRILLER/HELPER

DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 5/29/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Certland Co. Landfill

RIG No. 473

WELL ID No. AGV² 11 Ty

TYPE OF WELL Gas ext

WELL PERMIT No.

Well Construction

Total Depth Drilled 60 Ft

Well Finished To 60 Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	59 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David Torrey
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 7/13/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co Landfill

RIG No. 473

WELL ID No. AGV# (12) TY

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled Ft

Well Finished To 37' Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+1'	4'	12"	PVC 80
Screen (Note slot size)	4'	36 1/2"	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	37'	#2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1' Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

Hit rock @ 37' set well there

[illegible]

Rand Jones
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 1/12/01

PAGE NO. 1 OF 1

JOB No. 5410

RIG No. 473

CONTRACTOR: *MAGG*

SITE: Coastland Co Landfill

WELL ID No. 46V#13 Type

TYPE OF WELL *Gas ext*

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 20 Ft

Well Finished To 20 Ft

Borehole diameter: _____

Top *36* In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	19½	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	20	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 2' Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular Drill Hours Reg _____

Man Hours OT Rig Hours OT _____

Notes, Delays (explain):

Run out of garage @
20 & Hit Rock set well there
as per B+L

WELL LOG

[illegible]

DRILLER/HELPER

VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 5/25/01

PAGE NO. 1 OF 1

JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Land Fill

WELL ID No. AGV # 141

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 12 Ft


Well Finished To Abandon Ft

Borehole diameter:

Top 36 In.

Bottom 36 in.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'		12"	PVC 80
Tail Piece				
Gravel Pack	Grade		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

Hit obstruction @ 12' were exit
All teeth on bucket, Abandoned
Hole as per Chris (Marcy)

WELL LOG

[illegible]

DRILLER/HELPER

VERIFIED CONTRACTOR

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DATE: 5/25/01

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CONTRACTOR: Marcv

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV[#]14-A

TYPE OF WELL Gas ext

WELL PERMIT No.

Well Construction

Total Depth Drilled 19 Ft

Well Finished To 14' Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	13.5	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	14	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

Move Hole 5' up Hill
Hit obstruction @ \pm same
elevation again, coming up
w/ rock, Chad (B&L) assumes
Bottom of Landfill set
well there

WELL LOG

[illegible]

DRILLER/HELPER

VERIFIED CONTRACTOR

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Goldenrod - Driller

MORE TRENCH WELL REPORTS

DATE: 5/10/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB NO. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV#15 / TY

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 45 Ft

Well Finished To 45 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	44.5	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel	4.5	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

Richard J. Jones
DRILLER/HELPER
Christy W. Hall
VERIFIED CONTRACTOR

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MORE TRENCH WELL REPORTS

DATE: 5/25/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. AGV#16 Ty

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 57 Ft

Well Finished To 57' Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	56.5	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	57	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

Hit Rock @ 52' get well
there as per Chad (B+L)

WELL LOG

[illegible]**DRILLER/HELPER****VERIFIED CONTRACTOR**

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MORE TRENCH WELL REPORTS

DATE: 5/29/01

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcy

SITE: Cortland Co. Landfill.

WELL ID No. AGV# 17 TY

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 60 Ft

Well Finished To 60 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	59½'	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1' Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]

Notes, Delays (explain):

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DATE: 5/16/01

JOB No. 5410

RIG No. 473

CONTRACTOR: Marcu

SITE: Cortland Co. Landfill

WELL ID No. AGV#18

TYPE OF WELL Gas ext

WELL PERMIT NO.

Total Depth Drilled 60 Ft

Well Finished To 60 Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	5' $9\frac{1}{2}$ "	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 2 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

DRILLER/HELPER

VERIFIED CONTRACTOR

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DATE: 5/21/01

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CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. AGV# 20

TYPE OF WELL Gas ext

WELL PERMIT No.

Well Construction

Total Depth Drilled 412 Ft

Well Finished To 47 1/2 Ft

Borehole diameter.

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	47'	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1' Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

DRILLER/HELPER

VERIFIED CONTRACTOR

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DATE: 7/12/01

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcu

SITE: Cortland Co. Landfill

WELL ID No. AGV# 21 Ty

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 43 Ft

Well Finished To 45 Ft

Borehole diameter:

Top 36 Ln.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	44 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	45'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

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VERIFIED CONTRACTOR

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DATE: 7/11/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. AGV# 22

TYPE OF WELL Gas ext

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 30 Ft
Well Finished To 30 Ft

Borehole diameter:
Top 36 In.
Bottom 36 In.

Well was finished:

☒ Above Grade
☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	29½	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	30'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Randy Tonken
DRILLER/HELPER
Karsten A. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. AGV# 23 Ty

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 35 Ft

Well Finished To 35 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	37'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	35'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David T. Jensen
DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marey

JOB NO. 5410

SITE: Certland Co. Land Fill

RIG NO. 473

WELL ID No. AGV# 24

TYPE OF WELL *Gas ext*

WELL PERMIT No.

Well Construction

Total Depth Drilled 30 Ft

Well Finished To 30 Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	29½	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	30	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David T. Fisher
DRILLER/HELPER

VERIFIED CONTRACTOR

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DATE: 7/10/01

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CONTRACTOR: FRANCIS

JOB No. 5442

SITE: Certified Co. Landfill

RIG No. 473

WELL ID No. AGV# 25 Ty

TYPE OF WELL GAS EXT

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter

Top 256 In

Bottom 36 in.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	25	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft.

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

[illegible]**Notes, Delays (explain):**[illegible]

David Toulson
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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DATE: 5/3/01

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CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. AGV# 26 Ty

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 30 Ft

Well Finished To 30 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	29½'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	30'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1' Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

DRILLER/HELPER

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CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. AGV#27 Ty

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 70 Ft

Well Finished To 40 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	39½'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	40'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

Richard T. Parker
DRILLER/HELPER
Kathleen P. Delaney
VERIFIED CONTRACTOR

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DATE: 7/9/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV# 28 TY

TYPE OF WELL Gas ext

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 30 Ft

Well Finished To 30 Ft

Borehole diameter: 12

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	29 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	30'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Ronald J. Jensen
DRILLER/HELPER
Kathleen G. Delaney
VERIFIED CONTRACTOR

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CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV#29

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 30 Ft

Well Finished To 30 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	29½'	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 2 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Ronald F. Jensen
DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

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JOB NO. 5410

RIG No. 473

CONTRACTOR: Marcu

SITE: Cortland Co. Land Fill

WELL ID No. AGV[#] 30

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 30 Ft.

Well Finished To 30 Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	29½	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel	30	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

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CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Land Fill.

RIG No. 473

WELL ID No. AGV#31

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	25	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1' Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

Ronald F. Jones
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

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DATE: 6/5/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Landfill.

RIG No. 473

WELL ID No. AGV# 32 TY

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25 Ft


Well Finished To 25 Ft

Borehole diameter:

Top 36 In.

Bottom 36 In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	25	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):[illegible]

David T. Fisher
DRILLER/HELPER

DRILLER/HELPER

Kathleen A. Delaney

VERIFIED CONTRACTOR

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DATE: 5/30/01

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JOB No. 5410

RIG No. 473

CONTRACTOR: Marcu

SITE: Cortland Co. Land Fill

WELL ID No. AGV#33

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24½'	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

DRILLER/HELPER

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DATE: 6/1/01

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CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV#34

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel	2.5	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]**Notes, Delays (explain):**

DRILLER/HELPER

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DATE: 6/5/01

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CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV# 35

TYPE OF WELL Gas ext

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 25 Ft.

Well Finished To 25 Ft

Borehole diameter: 4

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24½	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	25	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development _____

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

Randall Jensen
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

Copies To: White & Canary - Rockaway Pink - Contractor

Pink - Contractor Goldenrod - Driller

Goldenrod - Driller

MORE TRENCH WELL REPORTS

DATE: 5/30/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG No. 473

WELL ID No. AGV# 36

TYPE OF WELL Gas ext

WELL PERMIT NO. _____

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter: 4

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24½	12"	PVC 80
Tail Piece				
Gravel Pack	Grade		# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

Ronald Johnson
DRILLER/HELPER
Kathleen A. Delaney
VERIFIED CONTRACTOR

Copies To: White & Canary - Rockaway

Pink - Contractor

Goldenrod - Driller

MORE TRENCH WELL REPORTS

DATE: 6/1/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcu

JOB No. 5410

SITE: Cortland Co. Landfill

RIG NO. 473

WELL ID No. AGV#37 TY

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel	25	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____ Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

David J. Jones
DRILLER/HELPER

Kathleen A. Delaney
VERIFIED CONTRACTOR

Copies To: White & Canary - Rockaway

Pink - Contractor

Goldenrod - Driller

MORE TRENCH WELL REPORTS

DATE: 6/1/01

PAGE NO. 1 OF 4

CONTRACTOR: Marcy

JOB No. 5410

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV# 38

TYPE OF WELL Gas ext

WELL PERMIT No.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter: 4

Top 36 In.

Bottom 36" In.

Well was finished:

 Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24 1/2'	12"	PVC 80
Tail Piece				
Gravel Pack	Gravel	25'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

WELL LOG

[illegible]

Notes, Delays (explain):

DRILLER/HELPER

VERIFIED CONTRACTOR

Copies To: White & Canary - Rockaway

Pink - Contractor

Goldenrod - Driller

MORE TRENCH WELL REPORTS

DATE: 6/5/01

PAGE NO. 1 OF 1

CONTRACTOR: Marcy

JOB NO. 5460

SITE: Cortland Co. Land Fill

RIG No. 473

WELL ID No. AGV# 39

TYPE OF WELL Gas ext

WELL PERMIT NO.

Well Construction

Total Depth Drilled 25 Ft

Well Finished To 25 Ft

Borehole diameter:

Top 36 In.

Bottom 36" In.

Well was finished:

☒ Above Grade

☐ Flush Mounted

	Depth to top (Ft) (From land surface)	Depth to Bottom (Ft)	Diameter (In)	Type and Material
Inner Casing				
Outer Casing (Non Protective Casing)	+ 1'	4'	12"	PVC 80
Screen (Note slot size)	4'	24½	12"	PVC 80
Tail Piece				
Gravel Pack	Grade	25'	# 2	Stone
Annular Seal/Grout				
Method of Grouting				

If finished above grade, casing height (stick up) above land surface 1 Ft

Was steel protective casing installed? ☐ Yes ☒ No

Static water level after drilling _____Ft

Well was developed for _____ hours at _____ gpm

Method of development

Travel Hours _____ Standby Hours _____

Man Hours Regular _____ Drill Hours Reg _____

Man Hours OT _____ Rig Hours OT _____

Notes, Delays (explain):

[illegible]

Ronald F. J. [Signature]
DRILLER/HELPER
Kathleen A. Delaney [Signature]
VERIFIED CONTRACTOR

Copies To: White & Canary - Rockaway

Pink - Contractor

Goldenrod - Driller

Rodd C. Brinkmann

From: Cathy Weston [cathy@rocscience.com]
To: RBrinkmann@BartonandLoguidice.com
Subject: RE: Rocfall Data Tips Qn. Part Two

Our Chief Programmer, Brent Corkum informs me today that the fix for the problem that you were experiencing is now available. You can download the latest update either by visiting our website at www.rocscience.com and following the directions on the download page, or by automatic update found in your help menu of the Rocfall programme.

Cathy Weston
Rocscience Inc.
31 Balsam Avenue, Toronto
Ontario, CANADA M4E 3B5
ph: 1-416-698-8217
fax: 1-416-698-0908
email: cathy@rocscience.com
internet: www.rocscience.com

From: Rodd C. Brinkmann
Sent: November 26, 2001 11:54 AM
To: 'techsupport@rocscience.com'
Cc:
Subject: Rocfall Data Tips Qn.

Customer No: 2714A
Rocfall Software Serial No: 3HHHGG72CFHG2932G

I have just purchased a copy of Rocfall and installed it.

"Data Tips" do not appear on the screen when the cursor is held over any model entities, vertex, seeders, barriers, and data collectors. Is there any way I can turn them on?

They used to work in the Demo version I downloaded, but do not work there anymore either.

Rodd Brinkmann

Barton & Loguidice, PC
290 Elwood Davis Rd, PO Box 3107
Syracuse, New York 13220
Tel: (315) 457-5200
Fax: (315) 451-0052

Appendix D
Inspector's Reports

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	1
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	11-Apr-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	2				Overcast	NA
Operators	1				TEMPERATURE	
Laborers	2				AM	PM
Surveyors	2				48 °F	NA °F

EQUIPMENT USED							
Dresser Dozer	1						
Cat Track Loader	1						
Chipper	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy continued to clear trees located in the waste re-location area. All trees that were cleared were chipped using a portable trailer mounted chipper. The clearing operation advanced to the west with approximately 70% completed by noon. One truckload of slotted pvc well casing was delivered to the site, along with a truckload of misc. fittings for the pvc pipe. The materials were unloaded into the construction staging area located on the western side of the landfill.</p>

INSPECTOR: CHAD HUTTON DATE: 4/11/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	2
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	16-Apr-01
		DAY OF THE WEEK	
		S	T W TH F SA

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Overcast	Overcast
Operators	2					TEMPERATURE	
Laborers	2					AM	PM
Asst. Supr.	1					48 °F	55 °F

EQUIPMENT USED							
CAT D8K Dozer	1	Chipper	1				
End Dumps	2						
Hitachi Excavator	1						
Dresser Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy cleared the remaining trees in the waste relocation area. Approximately 80% of the chipping was completed, with Marcy working from east to west across the waste relocation area following the clearing operation. Marcy also installed erosion control measures along the roadway at the toe of the southern slope. This included silt fence in the roadway ditch and stone check dams near the culvert crossings. Topsoil stripping was started on the south slope, using the D8K dozer, to push the material into windrows.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

4/20/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	3
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	17-Apr-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				Overcast	Partial Sun
Asst. Supr.	1				TEMPERATURE	
Operators	4				AM	PM
					40 °F	50 °F

EQUIPMENT USED							
CAT D8K Dozer	1						
End Dumps	3						
Hitachi Excavator	1						
Dresser Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy established a haul road extending along the southern slope across the eastern roadway to what will be the eastern topsoil stockpile area. Topsoil removal was continued using two dozers to push the topsoil into windrows. An excavator was used load the topsoil into end-dumps and then it was hauled to the eastern stockpile area.</p>

INSPECTOR: <u>Chad Hutton</u> Chad Hutton, I.E.	DATE: <u>4/20/01</u>
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IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	4
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	18-Apr-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun - Windy
Asst. Supr.	1					TEMPERATURE	
Operators	5					AM	PM
Surveyors	2					35 °F	40 °F

EQUIPMENT USED							
CAT D8K Dozer	1	973 Cat Track Loader	1				
End Dumps	3						
Hitachi Excavator	1						
Dresser Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy continued to load and haul topsoil that was removed from the southern slope to the eastern stockpile area. A D8K dozer continued to work on the slope removing the existing topsoil from the waste relocation area, and surrounding areas.</p>

INSPECTOR: Chad Hutton DATE: 4/20/01
 Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	5
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	19-Apr-01
		DAY OF THE WEEK	
		S	M
		T	W
		F	SA

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	5					AM	PM
						40 °F	50 °F

EQUIPMENT USED							
CAT D8K Dozer	1						
End Dumps	3						
Hitachi Excavator	1						
Dresser Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy continued the topsoil removal and hauling operation from the waste relocation area on the existing landfill to the eastern stockpile area. Nearly all of the existing topsoil was removed from the waste relocation area by the end of the work day. The removal of topsoil will extend to the east from the waste relocation area on hte existing landfill to the toe of slope areaon the eastern side.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

4/20/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	6
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	20-Apr-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				Sun	Overcast
Asst. Supr.	1				TEMPERATURE	
Operators	5				AM	PM
					45 °F	55 °F

EQUIPMENT USED							
CAT D8K Dozer	2						
End Dumps	3						
Hitachi Excavator	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy continued the topsoil removal and hauling operation from the southern slope area, east of the waste relocation area on the existing landfill to the eastern stockpile area. Access points were established into the waste removal area, using on-site shale provided by the county. The stormwater ditch along the southern edge of the topsoil removal area was cleared to promote drainage over the weekend.</p>

INSPECTOR: Chad Hutton DATE: 4/20/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	1
PROJECT NO:	331.035
WEEK START:	16-Apr-01
WEEK END:	20-Apr-01

MONDAY 4/16/01

Clearing of waste relocation area was completed today, chipping of trees continued. Stone check-dams along with silt fence was installed along southern roadway. Topsoil removal was started on southern slope area of the existing landfill.

TUESDAY 4/17/01

Topsoil removal continued on southern slope today, along with the start of loading and hauling of the topsoil to the eastern stockpile area.

WEDNESDAY 4/18/01

Topsoil removal and hauling from the southern slope area to the eastern stockpile location continued today.

THURSDAY 4/19/01

Topsoil removal from the waste relocation area was completed today, with additional topsoil removed from other areas of the southern slope, the material was stockpiled in the eastern stockpile area. The project sign was installed along with phone service to the job trailers.

FRIDAY 4/20/01

Topsoil removal, loading, and hauling from the region to the east of the waste relocation area continued today. All topsoil was stockpiled in the eastern stockpile location. Haul roads were established into the waste removal area using on-site shale material provided by the county.

SATURDAY / SUNDAY 4/16/01

NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

4/20/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	7
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	23-Apr-01
		DAY OF THE WEEK	
		S	T W TH F SA

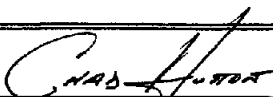
WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				Sun	Overcast
Asst. Supr.	1				TEMPERATURE	
Operators	5				AM	PM
Safety	1				45 °F	55 °F

EQUIPMENT USED							
CAT D8K Dozer	1	Water Truck	1				
End Dumps	2	Chipper	1				
Hitachi Excavator	1	Cat 973 Track Loader	1				
Dresser Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy started removal of the waste today. The excavation began at the southeastern portion of the removal area, and moved north. Air monitoring of the area began along with the excavation. The waste was relocated in the northern portion of the waste relocation area. Marcy also used a chipper on a portion of the trees that were already cleared in the removal area.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

4/24/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	8
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	24-Apr-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				Showers	Partly Cloudy
Asst. Supr.	1				TEMPERATURE	
Operators	5				AM	PM
					55 °F	50 °F

EQUIPMENT USED							
CAT D8K Dozer	2	Water Truck	1				
End Dumps	2	Michigan 150 Loader	1				
Hitachi Excavator	1						
Dresser TD15 Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation of the waste continued today. The waste was relocated in the northern portion of the relocation area. Marcy constructed a haul road along the southwestern slope of the existing landfill to allow access to the relocation area. The haul road was established with on-site shale taken from the area north of the eastern topsoil stockpile area.</p>

INSPECTOR: Chad Hutton, I.E. DATE: 4/25/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	9
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	25-Apr-01
		DAY OF THE WEEK	
		S	M
		T	TH
		F	SA

WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				Overcast	Sun
Asst. Supr.	1				TEMPERATURE	
Operators	5				AM	PM
					40 °F	65 °F

EQUIPMENT USED							
CAT D8K Dozer	2	Water Truck	1				
End Dumps	2	Michigan 150 Loader	1				
Hitachi Excavator	1	PC 300 Excavator	1				
Dresser TD15 Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation of the waste continued today. The waste was relocated in the northern portion of the relocation area. Marcy also cleaned the surface water swales to the north and east of the waste removal area. The total number of loads removed today was 111, at approximately 18 to 20 cubic yards per load.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

4/26/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <i>Remedial Action Landfill Closure</i>	REPORT NO: 10	
OWNER: <i>Cortland County</i>	PROJECT NO: 331.035	
CONTRACTOR: <i>Marcy Excavation, Inc.</i>	DATE: 26-Apr-01	
DAY OF THE WEEK		
S	M	T W T F SA

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	5					AM	PM
						50 °F	65 °F

EQUIPMENT USED							
CAT D8K Dozer	2	Water Truck	1				
End Dumps	2	Michigan 150 Loader	1				
Hitachi Excavator	1						
Dresser TD15 Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation of the waste continued today. The waste was relocated in the northern portion of the relocation area. Marcy also used the D8K dozer to remove topsoil on the southern portion of the eastern slope. The topsoil was pushed into windrows that will be loaded out to the existing topsoil stockpile in the future.</p>

INSPECTOR:

Chad Hutton
Chad Hutton, I.E.

DATE:

4/30/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	11
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	27-Apr-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

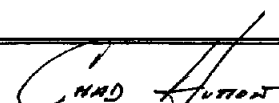
WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				Overcast	Sun
Asst. Supr.	1				TEMPERATURE	
Operators	5				AM	PM
					50 °F	65 °F

EQUIPMENT USED							
CAT D8K Dozer	2	Water Truck	1				
End Dumps	2	Volvo 150 Loader	1				
Hitachi Excavator	1	PC 300 Excavator	1				
Dresser TD15 Dozer	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation of the waste continued today. The waste was relocated in the northern portion of the relocation area. Marcy also used the PC 300 excavator to remove the small trees that were located on the southern portion of the western slope. Areas of the northern portion of the existing landfill were stripped of topsoil using the 150 loader.</p>

INSPECTOR:


 Chad Hutton, I.E.

DATE:

4/30/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	2
PROJECT NO:	331.035
WEEK START:	23-Apr-01
WEEK END:	27-Apr-01

MONDAY 4/23/01

Marcy began waste relocation along with air monitoring today. The waste removal operation started at the southeastern portion of the removal area, and the waste was relocated to the northern portion of the relocation area.

TUESDAY 4/24/01

Marcy continued the excavation and relocation of the waste today. A haul road was established along the southern slope using on-site shale provided by the county.

WEDNESDAY 4/25/01

Marcy continued the excavation and relocation of the waste today. The daily total number of loads hauled was approximately 111, which yielded approximately 2000 yd³.

THURSDAY 4/26/01

Waste excavation and relocation continued today, along with the preparation of haul roads to the southern on-site stockpile area.

FRIDAY 4/27/01

Waste excavation continued today along with relocation to the northern portion of the relocation area. Grubbing of the western portion of the existing landfill was also started today.

SATURDAY / SUNDAY 4/28/01, 4/29/01

NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

4/30/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	12
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	30-Apr-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	8					AM	PM
						65 °F	70 °F

EQUIPMENT USED							
CAT D8K Dozer	1	Water Truck	1				
End Dumps	3	Michigan 150 Loader	1				
Hitachi Excavator	1	PC 300 Excavator	1				
Dresser TD15 Dozer	1	Superpac Roller	1				

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation of the waste continued today. The waste was relocated in the northern portion of the relocation area. Marcy also used the PC 300 excavator and Cat D8K dozer to prepare the stockpile area in the southern portion of the site.</p>

INSPECTOR: Chad Hutton, I.E. DATE: 5/3/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <i>Remedial Action Landfill Closure</i>	REPORT NO: 13
OWNER: <i>Cortland County</i>	PROJECT NO: 331.035
CONTRACTOR: <i>Marcy Excavation, Inc.</i>	DATE: 01-May-01
DAY OF THE WEEK	
S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	8					AM	PM
						60 °F	80 °F

EQUIPMENT USED							
CAT D8K Dozer	1	Water Truck	1				
End Dumps	3	Michigan 150 Loader	1				
Hitachi Excavator	1	PC 300 Excavator	1				
Dresser TD15 Dozer	1	Superpac Roller	1				

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation of the waste continued today. The waste was relocated in the northern portion of the relocation area. Marcy also used the PC 300 excavator to locate the existing utility lines that extend through the city landfill area, and are required to be relocated.</p>

INSPECTOR: *CHAD HUTTON* DATE: 5/3/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	14
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	02-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	8						
Tester	1					AM	PM
						60 °F	85 °F

EQUIPMENT USED							
CAT D8K Dozer	2	Water Truck	1	Extec Screen	1		
End Dumps	3	Michigan 150 Loader	1				
Hitachi Excavator	1	PC 300 Excavator	1				
Dresser TD15 Dozer	1	Superpac Roller	1				

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation of the waste continued today from the eastern portion of the removal area. The waste was relocated in the northern portion of the relocation area. Marcy also used the D8K dozer and smooth drum roller to prepare the subgrade in the area to the east of the waste relocation area. Marcy set up the screening plant in the southern portion of the site to produce common fill from the existing on-site stockpiles. Exposure of the existing utility lines continued today in the city landfill area, with approximately 80% completed.</p>

INSPECTOR:

CHAD HUTTON
Chad Hutton, I.E.

DATE:

5/3/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	15
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	03-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		Th	F
		SA	

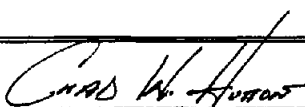
WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	9						
Surveyors	2					AM	PM
						60 °F	80 °F

EQUIPMENT USED							
CAT D8K Dozer	2	Water Truck	1	Wabco Truck	1		
End Dumps	3	Volvo 150 Loader	1				
Hitachi Excavator	1	PC 300 Excavator	1				
Extac Screen	1	Superpac Roller	1				

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
Excavation and relocation of the old city landfill waste started today. The excavation started west of the existing utilities, and the waste was relocated into the central portion of the relocation area. Screening of common fill from the existing on-site stockpiles started today, with pre-qualification samples taken. Marcy had the existing city landfill surveyed to verify existing contours, as well as establishing a portion of the landfill grid on the area east of the relocation area.

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/7/01

IN HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	16
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	04-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

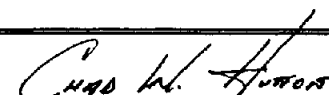
WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				Sun	Sun
Asst. Supr.	1				TEMPERATURE	
Operators	9				AM	PM
					60 °F	75 °F

EQUIPMENT USED							
CAT D8K Dozer	2	Water Truck	1	Cat D6R LGP Dozer	1		
End Dumps	3	Volvo 150 Loader	1				
Hitachi Excavator	1	PC 300 Excavtor	1				
Extac Screen	1	973 Cat Track Loader	1				

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation and relocation of the old city landfill waste continued today until noon, then relocation of the area 1 waste was continued. The waste was relocated into the central portion of the relocation area. Screening of common fill from the existing on-site stockpiles continued today. Daily production for the screening operation was estimated at approximately 1000 cy per day.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/7/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	3
PROJECT NO:	331.035
WEEK START:	30-Apr-01
WEEK END:	04-May-01

MONDAY 4/30/01

Excavation and relocation of the waste from area 1 was continued today. Marcy also prepared the on-site stockpile area for the screening operation.

TUESDAY 5/1/01

Excavation and relocation of the waste from area 1 was continued today. Marcy also located the existing utilities in the city landfill area.

WEDNESDAY 5/2/01

Excavation and relocation of the waste from area 1 was continued today. Marcy also set-up the screening plant in the southern portion of the site near the existing stockpiles. The area to the east of the relocation area on the existing landfill was also rough graded and smooth drum rolled.

THURSDAY 5/3/01

Excavation and relocation of the old city landfill (Area 2) was started today. The waste was relocated into the central portion of the relocation area. Screening of common fill was also started today, with pre-qualification samples taken.

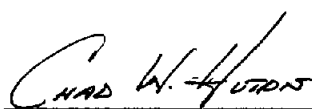
FRIDAY 5/4/01

Excavation and relocation of area 2 continued for half a day, and on area 1 for half a day. Screening of common fill also continued today. Estimations are approximately 1000 cy per day for the screening operation.

SATURDAY 5/5/01 & SUNDAY 5/6/01

Sat. - Screening operations continued today.

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/7/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	17
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	07-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				Sun	Sun
Asst. Supr.	1				TEMPERATURE	
Operators	10				AM	PM
					70 °F	70 °F

EQUIPMENT USED							
CAT D8K Dozer	2	Water Truck	1	Cat D6R LGP Dozer	1		
End Dumps	3	Volvo 150 Loader	1	TD 15 Dozer	1		
Hitachi Excavator	1	PC 300 Excavator	1				
Extac Screen	1	973 Cat Track Loader	1				

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation and relocation of the old city landfill waste continued for the majority of today along with relocation of the area 1 waste for three hours. The waste was relocated into the northern portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred on Saturday, and was continued today. Subgrade preparation on the eastern slope took place north of the relocation area.</p>

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

5/11/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: Remedial Action Landfill Closure	REPORT NO:	18
OWNER: Cortland County	PROJECT NO:	331.035
CONTRACTOR: Marcy Excavation, Inc.	DATE:	08-May-01
DAY OF THE WEEK		
S	M	T
W	TH	F
SA		

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1	Tester	1			Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	7					AM	PM
Laborers	2					50 °F	75 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Cat 973 Track Loader	1
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	3		
Cat D6R Dozer	1	Extac Screen	1	Rock Trucks	1		
TD 15 Dozer	1	Volvo Loader	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation and relocation of the old city landfill waste continued today. The waste was relocated into the eastern portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the eastern slope took place north of the relocation area, common fill was hauled to fill over debris areas. Clearing and grubbing took place on the western slope north of the relocation area. The first construction meeting was held with representatives of Barton & Loguidice, Marcy Excavation, Cortland County, and NYSDEC present.</p>

INSPECTOR: Chad H. Hutton DATE: 5/11/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	19
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	09-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Overcast, Fog	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	10					AM	PM
						55 °F	75 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Cat 973 Track Loader	1
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	3		
Cat D6R Dozer	1	Extec Screen	1	Rock Trucks	1		
TD 15 Dozer	1	Volvo Loader	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation and relocation of the old city landfill waste continued today east of the existing utilities. The waste was relocated into the eastern portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the eastern slope took place north of the relocation area, common fill was hauled to fill over debris areas. Clearing and grubbing took place on the western slope north of the relocation area.</p>

INSPECTOR: CHAD W. HUTTON DATE: 5/11/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	20
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	10-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	10					AM	PM
						70 °F	80 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Cat 973 Track Loader	1
Cat D8K Dozers	1	PC 300 Excavator	1	End Dumps	3		
Cat D6R Dozer	1	Extec Screen	1	Rock Trucks	1		
TD 15 Dozer	1	Volvo Loader	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
Excavation and relocation of the old city landfill waste continued today east of the existing utilities. The waste was relocated into the eastern portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the northern and eastern slopes continued, common fill was hauled to fill over debris areas. Clearing and grubbing took place on the western slope north of the relocation area.

INSPECTOR: CHAD W. HUTTON DATE: 5/11/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	21
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	11-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

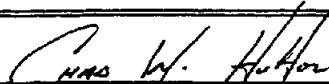
WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Operators	10					AM	PM
Surveyors	2					55 °F	80 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1		
Cat D8K Dozers	1	PC 300 Excavator	1	End Dumps	3		
Cat D6R Dozer	1	Extec Screen	1	Rock Trucks	1		
TD 15 Dozer	1	Volvo Loader	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation and relocation of the old city landfill waste continued today east of the existing utilities. The waste was relocated into the central portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the northern and western slopes continued, common fill was hauled to fill over debris areas. Clearing and grubbing took place on the western slope north of the relocation area. One truckload (12 rolls) of LLDPE was delivered to the site, along with 500 tons of type D select fill.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/11/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	4
PROJECT NO:	331.035
WEEK START:	07-May-01
WEEK END:	11-May-01

MONDAY 5/7/01
Excavation and relocation of the area 1 and area 2 waste occurred today. The waste was relocated into the northern portion of the relocation area. Screening of common fill also occurred today along with subgrade preparation of the eastern slope north of the relocation area.

TUESDAY 5/8/01
Relocation of the waste continued today into the eastern portion of the relocation area. Subgrade preparation continued on the eastern slope with clearing and grubbing on the western slope of the existing landfill. Screening of on-site common fill also continued. The first construction meeting was held.

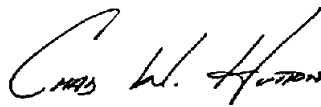
WEDNESDAY 5/9/01
Area 2 waste relocation continued today along with subgrade preparations on the eastern slope of the existing landfill. Common fill screening also continued.

THURSDAY 5/10/01
Area 2 waste relocation continued today, with subgrade preparation occurring on the eastern portion of the landfill. Common fill screening continued.

FRIDAY 5/11/01
Area 2 waste relocation continued today, with subgrade preparation advancing to the northern slope of the landfill. One truckload of LLDPE was delivered to the site, along with 500 tons of type D select fill for the gas vents. Common fill screening continued.

SATURDAY 5/12/01 & SUNDAY 5/13/01
NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/14/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	22
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	14-May-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE					WEATHER	
Marcy:		Moretrench:			AM	PM
Supr.	1	Drillers	2		Sun	Sun
Asst. Supr.	1				TEMPERATURE	
Operators	11				AM	PM
					40 °F	50 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Rock Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation and relocation of the old city landfill waste continued today east of the existing utilities. The waste was relocated into the central portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the northern and western slopes continued, common fill was hauled to fill over debris areas. Clearing and grubbing took place on the western slope north of the relocation area. One truckload (12 rolls) of LLDPE was delivered to the site. Five shallow gas vents and three deep wells were installed today.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

5/18/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	23
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	15-May-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

WORK FORCE				WEATHER	
Marcy:		Moretrench:		AM	PM
Supr.	1	Drillers	2	Sun	Sun, Windy
Asst. Supr.	1			TEMPERATURE	
Operators	13			AM	PM
				40 °F	58 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Rock Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	1	Water Truck	1	Dump Trucks	2

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation and relocation of the old city landfill waste continued today east of the existing utilities. The waste was relocated into the central portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the western slopes continued, common fill was hauled to fill over debris areas. Eleven shallow gas vents and one partial deep well were installed today.</p>

INSPECTOR: Chad W. Hutton DATE: 5/18/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	24
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	16-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Moretrench:		AM	PM
Supr.	1	Drillers	2	Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	13			AM	PM
				50 °F	68 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	1	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Rock Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	1	Water Truck	1	Dump Trucks	2

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Excavation and relocation of the old city landfill waste continued today north and east of the existing utilities. The waste was relocated into the central portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the central portion of the western slope continued, common fill was hauled to fill over debris areas. Three shallow gas vents, one partial deep well, and two complete deep wells were installed today. Topsoil stripping was also started south of the roadway on the southern slope.</p>

INSPECTOR: CHAD W. HUTTON DATE: 5/18/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	25
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	17-May-01
		DAY OF THE WEEK	
		S M T W TH F SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:				AM	PM
Supr.	1	Drillers	2			Sun	Showers
Asst. Supr.	1					TEMPERATURE	
Operators	13					AM	PM
Surveyors	2					50 °F	60 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	1	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Rock Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	Dump Trucks	2

MAINTENANCE & PROTECTION OF TRAFFIC: N.A.

DESCRIPTION OF WORK ACCOMPLISHED: Excavation and relocation of the old city landfill waste continued today north and east of the existing utilities to the northern limits. The waste was relocated into the central portion of the relocation area. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the southern portion of the western slope continued, common fill was hauled to fill over debris areas. Nine shallow gas vents and one complete deep wells were installed today. Topsoil stripping continued south of the roadway on the southern slope, as well as loading and hauling to the existing eastern stockpile.

INSPECTOR: Chad H. Hutton **DATE:** 5/18/01
 Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	26
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	18-May-01
		DAY OF THE WEEK	
		S M T W TH SA	

WORK FORCE					WEATHER	
Marcy:		Moretrench:				
Supr.	1	Drillers	2			AM PM
Asst. Supr.	1					Hvy. Fog
Operators	11					TEMPERATURE
						AM PM
						50 °F °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extac Screen	1	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Loading and hauling of topsoil from the area south of the access roadway on the southern slope was continued today. The topsoil was relocated the existing eastern stockpile. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the southern portion of the western slope continued, common fill was hauled to fill over debris areas. Two complete deep wells were installed today.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

5/18/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	<i>Remedial Action Landfill Closure</i>
OWNER:	<i>Cortland County</i>
CONTRACTOR:	<i>Marcy Excavation, Inc.</i>

SUMMARY NO:	5
PROJECT NO:	331.035
WEEK START:	14-May-01
WEEK END:	18-May-01

MONDAY 5/14/01

Excavation and relocation of the area 2 waste, screening of common fill on-site, subgrade preparation on the northern slope, clearing and grubbing on the western slope, and installation of 8 gas vents took place today.

TUESDAY 5/15/01

Excavation and relocation of the area 2 waste, screening of common fill on-site, subgrade preparation on the western slope, and installation of 11 gas vents took place today.

WEDNESDAY 5/16/01

Excavation and relocation of the area 2 waste, screening of common fill on-site, subgrade preparation on the western slope, topsoil stripping at the toe of the southern slope, and installation of 4 gas vents took place today.

THURSDAY 5/17/01

Excavation and relocation of the area 2 waste was completed to the northern limits, screening of common fill on-site, subgrade preparation on the western slope, topsoil loading and hauling to the existing stockpile from the toe of the southern slope, and installation of 9 gas vents took place today.

FRIDAY 5/18/01

Screening of common fill on-site, subgrade preparation on the western slope, topsoil loading and hauling to the existing stockpile from the toe of the southern slope, and installation of 2 gas vents took place today.

SATURDAY 5/19/01 & SUNDAY 5/20/01

NA

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

5/18/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	27
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	21-May-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER	
Marcy:		Moretrench:		AM	PM
Supr.	1	Drillers	2	Overcast	Overcast
Asst. Supr.	1			TEMPERATURE	
Operators	12			AM	PM
				55 °F	65 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Loading and hauling of topsoil from the area south of the access roadway on the southern slope was continued today. The topsoil was relocated the existing eastern stockpile. Screening of common fill from the existing on-site stockpiles occurred today. Subgrade preparation on the southern portion of the western slope continued, common fill was hauled to fill over debris areas. Seven shallow wells, and one deep well were installed today.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/29/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	28
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	22-May-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

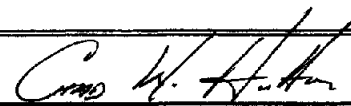
WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Hvy. Rain	
Asst. Supr.	1					TEMPERATURE	
Labor	3					AM	PM
						55 °F	°F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	0	Smooth Drum Roller	0	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	0	Kobelco 140 Excavator	0
Cat D6R Dozer	0	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Volvo Loader	0	Water Truck	0		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
Construction meeting along with a pre-installation meeting was held today. No work was done on the landfill due to the weather.

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/29/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	29
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	23-May-01
		DAY OF THE WEEK	
		S M T W TH F SA	

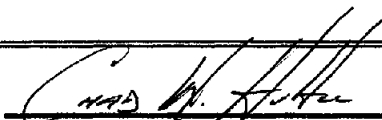
WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	0	Hvy. Rain	
Asst. Supr.	0					TEMPERATURE	
Labor	2					AM	PM
						55 °F	°F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	0	Smooth Drum Roller	0	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	0	Kobelco 140 Excavator	0
Cat D6R Dozer	0	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Volvo Loader	0	Water Truck	0		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
No work was done on the landfill today due to the weather.

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/29/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	30
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	24-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		Th	F
		SA	

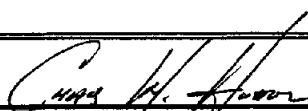
WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	0	Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Oper.	10					AM	PM
						65 °F	70 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	0
Cat D6R Dozer	1	Extec Screen	1	Dump Trucks	2	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	1	Water Truck	0		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Waste relocation from area 2 west of the sediment ponds was started, then excavation to the area 1 relocation was continued. Subgrade preparation continued to the western portion of the southern slope, common fill was hauled to fill over areas of debris. Common fill screening continued on the on-site stockpiles.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

5/29/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	31
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	25-May-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

WORKFORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	0	Sun	Sun
Asst. Supr.	1					TEMPERATURE	
Oper.	13					AM	PM
Tester	1					60 °F	70 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Waste relocation from area 2 north of the existing maintenance building along the advancing slope continued. Subgrade preparation continued to the western portion of the southern slope, common fill was hauled to fill over areas of debris. Common fill screening continued on the on-site stockpiles. Common fill backfill was started on area 2 north of the existing entrance to the building. Two shallow wells, along with two deep wells were installed.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

5/29/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	6
PROJECT NO:	331.035
WEEK START:	21-May-01
WEEK END:	25-May-01

MONDAY 5/21/01:
Topsoil relocation from the area south of the access roadway to the eastern stockpile was completed today. Screening of common fill continued from on-site stockpiles, as well as subgrade preparation on the southern portion of the western slope. Seven shallow wells and one deep well were installed today.

TUESDAY 5/22/01:
A construction meeting and pre-installation meeting was held today. Approximately 515 tons of type D select fill was hauled to the site.

WEDNESDAY 5/23/01:
No work was done on the landfill today due to the weather.

THURSDAY 5/24/01:
Waste relocation from area 2 west of the sediment ponds was started today, as well as relocation from area 1. Subgrade preparation of the western portion of the southern slope continued.

FRIDAY 5/25/01:
Waste relocation from area 2 continued today, and backfilling of the excavation was started. Subgrade preparation of the western portion of the southern slope continued, along with the screening of common fill. Two shallow wells and two deep wells were installed today.

SATURDAY 5/26/01 & SUNDAY 5/27/01:
NA

INSPECTOR:

Chad Hutton, I.E.

DATE:

5/30/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	32
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	29-May-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

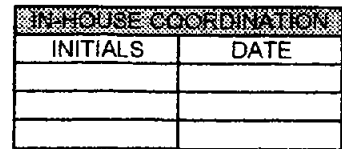
WORK FORCE				WEATHER	
Marcy:		Moretrench:		Antana Linings:	
Supr.	1	Drillers	2	Supr.	0
Asst. Supr.	1				
Oper.	12				
Tester	1				
				TEMPERATURE	
				AM	PM
				55 °F	70 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Waste relocation from area 2 north of the existing maintenance building along the advancing slope continued. Subgrade preparation continued to the western portion of the southern slope, common fill was hauled to fill over areas of debris. Common fill screening continued on the on-site stockpiles. Common fill backfill was continued on area 2 north of the existing entrance to the building. Three deep wells were installed today.</p>

INSPECTOR: Chad W. Hutton DATE: 6/4/01
Chad Hutton, I.E.



PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	33
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	30-May-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	0	Rain	Sun
Asst. Supr.	1					TEMPERATURE	
Oper.	14					AM	PM
Tester	1					50 °F	60 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extac Screen	1	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

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	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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Waste relocation from area 2 east of the sediment ponds was completed today. Area 1 waste relocation was also continued today. Subgrade preparation continued to the western portion of the southern slope, common fill was hauled to fill over areas of debris. Common fill screening continued on the on-site stockpiles. Common fill backfill was continued on area 2 north of the existing entrance to the building. Six shallow wells, along with three deep wells were installed today.

6/4/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	34
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	31-May-01
		DAY OF THE WEEK	
		S	M T W T F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	0	Overcast	Sun
Asst. Supr.	1					TEMPERATURE	
Oper.	13					AM	PM
Tester	1					50 °F	60 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Subgrade preparation continued to the western portion of the southern slope, common fill was hauled to fill over areas of debris. Common fill screening continued on the on-site stockpiles. Common fill backfill was continued on area 2 north of the existing entrance to the building. Eleven shallow wells were installed today. Two truckloads (54 rolls) of composite geonet was delivered to the site today.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

6/4/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	35
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	01-Jun-01
		DAY OF THE WEEK	
		S	M T W TH F SA

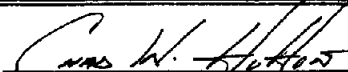
WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	0	Overcast	Lt. Rain
Asst. Supr.	1					TEMPERATURE	
Oper.	13					AM	PM
Tester	1					50 °F	60 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	1	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	CAT 12F Grader	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

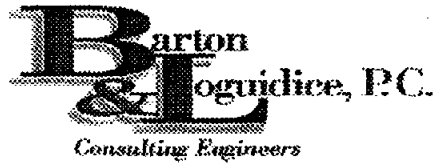
DESCRIPTION OF WORK ACCOMPLISHED
<p>Subgrade preparation continued to the western portion of the southern slope, common fill was hauled to fill over areas of debris. Common fill screening continued on the on-site stockpiles. Common fill backfill was continued on area 2 north of the existing entrance to the building. Ten shallow wells, along with three deep wells were installed today. One truckload (27 rolls) of compiste geonet was delivered to the site.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

6/4/01



INTER-OFFICE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	<i>Remedial Action Landfill Closure</i>
OWNER:	<i>Cortland County</i>
CONTRACTOR:	<i>Marcy Excavation, Inc.</i>

SUMMARY NO:	7
PROJECT NO:	331.035
WEEK START:	28-May-01
WEEK END:	01-Jun-01

MONDAY 5/28/01

NA

TUESDAY 5/29/01

Area 2 waste relocation continued along the advancing slope north of the maintenance building today, along with subgrade preparation on the western portion of the southern slope. Area 2 backfill was continued, screening of on-site common fill continued, and three deep gas vents were installed.

WEDNESDAY 5/30/01

Area 2 waste relocation east of the sediment ponds was completed today, and subgrade preparation on the western portion of the slope continued. Area 2 backfill continued along with screening of common fill. Six shallow wells and three deep wells were installed today.

THURSDAY 5/31/01

Subgrade preparation on the western portion of the southern slope continued today, along with screening of on-site common fill. Area 2 backfill was continued, and eleven shallow wells were installed. Two truckloads of composite geonet was delivered to the site.

FRIDAY 6/01/01

Subgrade preparation on the western portion of the southern slope continued today, along with screening of on-site common fill. Area 2 backfill was continued, and ten shallow wells, and three deep wells were installed. One truckload of composite geonet was delivered to the site.

SATURDAY 6/02/01 & SUNDAY 6/03/01

NA

INSPECTOR:

CHAD W. HUTTON
Chad Hutton, I.E.

DATE:

6/4/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	36
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	04-Jun-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	0	Lt. Rain	
Asst. Supr.	1			Laborers	15	TEMPERATURE	
Oper.	0					AM	PM
Mechanics	2					50 °F	°F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	0	Smooth Drum Roller	0	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	0	Kobelco 140 Excavator	0
Cat D6R Dozer	0	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Volvo Loader	0	Water Truck	0	CAT 12F Grader	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>One truckload of composite geonet was delivered to the site today. Antana Linings filled sandbags in the construction staging area. No work was done on the landfill today due to the weather.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

6/4/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	37
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	05-Jun-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	0	Overcast	Sun
Asst. Supr.	1			Laborers	0	TEMPERATURE	
Oper.	12						
Laborers	0					AM	PM
						55 °F	60 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	0	973 Track Loader	0
Cat D8K Dozers	2	PC 300 Excavator	0	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Waste relocation was continued from area 1 to the central portion of the relocation area on the existing landfill. Subgrade preparation was continued along the western portion of the southern slope, with common fill hauled to fill over areas of debris. Common fill was hauled from the on-site stockpiles to continue the backfill of area 2 north of the entrance to the existing maintenance building. Final subgrade preparation and anchor trench excavation was started on the eastern slope for geomembrane installation. Twelve shallow gas vents along with three deep wells were installed today. Construction meeting number three was held today.</p>

INSPECTOR: Chad W. Hutton DATE: 6/12/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	38
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	06-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	1	Overcast	Sun
Asst. Supr.	1			Technicians	12	TEMPERATURE	
Oper.	13					AM	PM
Surveyors	2					55 °F	70 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	2	PC 300 Excavator	0	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	1	Drill Rig	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Waste relocation was continued from area 1 to the central portion of the relocation area on the existing landfill. Subgrade preparation was continued along the western portion of the southern slope, with common fill hauled to fill over areas of debris. Common fill was hauled from the on-site stockpiles to continue the backfill of area 2 north of the entrance to the existing maintenance building. Final subgrade preparation and anchor trench excavation was continued on the eastern slope for geomembrane installation. Nine shallow gas vents along with one deep well were installed today. Geomembrane installation started on the eastern slope with the deployment, seaming and testing of panel number 1 to panel number 14. Destructive samples number 1 to 7 were also taken today.</p>

INSPECTOR: Chad W. Hutton DATE: 6/12/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	39
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	07-Jun-01
		DAY OF THE WEEK	
		S	M T W T F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	12	TEMPERATURE	
Operators	11					AM	PM
Laborers	2					50 °F	70 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	2	PC 300 Excavator	0	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	1	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Waste relocation was continued from area 1 to the central portion of the relocation area on the existing landfill. Subgrade preparation was continued along the western portion of the southern slope, with common fill hauled to fill over areas of debris. Common fill was hauled from the on-site stockpiles to continue the backfill of area 2 north of the entrance to the existing maintenance building. Final subgrade preparation and anchor trench excavation was continued on the northern slope for geomembrane installation. Geomembrane installation continued on the eastern and northern slopes with the deployment, seaming and testing of panel number 15 to panel number 57. Destructive samples number 8 to 18 were also taken today.</p>

INSPECTOR: Chad W. Hutton DATE: 6/12/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	40
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	08-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	11	TEMPERATURE	
Operators	11					AM	PM
Laborers	2					50 °F	70 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	2	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extac Screen	0	Dump Trucks	1	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Waste relocation was continued from area 1 to the central portion of the relocation area on the existing landfill. Common fill was hauled from the on-site stockpiles to continue the backfill of area 2 north of the entrance to the existing maintenance building. Final subgrade preparation and anchor trench excavation was continued on the northern and western slope for geomembrane installation. Geomembrane installation continued on the northern and western slopes with the deployment, seaming and testing of panel number 58 to panel number 84. Destructive samples number 19 to 28 were also taken today.</p>

INSPECTOR: Chad W. Hutton DATE: 6/12/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	8
PROJECT NO:	331.035
WEEK START:	04-Jun-01
WEEK END:	08-Jun-01

MONDAY 6/4/01

One truckload of composite geonet was delivered to the site today. Antana Linings was on-site to fill sandbags. No work was done on the landfill due to the weather.

TUESDAY 6/5/01

Waste relocation continued from area 1 to the central portion of the existing landfill, along with subgrade preparation on the western portion of the southern slope. Final subgrade preparation along with anchor trench excavation started on the eastern slope. Construction meeting #3 was held.

WEDNESDAY 6/6/01

Waste relocation from area 1 continued along with subgrade preparation on the southern slope. Backfill of the area 2 excavation also continued. Geomembrane installation was started on the eastern slope with panel no. 1 to 14 deployed, seamed, and tested.

THURSDAY 6/7/01

Relocation of the waste from the eastern portion of area 1 continued along with backfill of the area 2 excavation. Geomembrane installation continued to advance to the north with the deployment, seaming and testing, of panel no. 15 to 57. Portions of the eastern anchor trench were also backfilled.

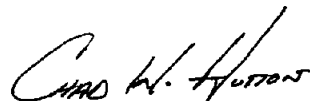
FRIDAY 6/8/01

Relocation of the waste from the eastern portion of area 1 continued along with the backfill of the area 2 excavation. Geomembrane installation continued along the northern portion of the western slope with the deployment, seaming, and testing of panel no. 58 to 84.

SATURDAY 6/09/01 & SUNDAY 6/10/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

6/12/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	41
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	11-Jun-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	0	Rain	
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	12					AM	PM
Laborers	0					55 °F	°F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	0
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	1	Drill Rig	0
TD 15 Dozer	0	Volvo Loader	2	Water Truck	0	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Area 1 relocation continued today, along with the backfill of the area 2 excavation until rain developed in the late morning. One truckload of LLDPE (12 rolls) was delivered to the site.</p>

INSPECTOR: CHAD W. HUTTON DATE: 6/13/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	42
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	12-Jun-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	0	Sun	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	1						
Laborers	2					AM	PM
						65 °F	70 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	0	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	1	End Dumps	0	Kobelco 140 Excavator	0
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Volvo Loader	2	Water Truck	0	JD 50 Excavator	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Subgrade preparation was continued today on the western slope of the landfill in preparation of geomembrane installation.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

6/13/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	43
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	13-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	12	TEMPERATURE	
Operators	10					AM	PM
Laborers	2					70 °F	80 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	1	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the area 1 waste continued today, along with the backfill of the area 2 excavation north of the entrance to the existing maintenance building. Subgrade preparation continued on the western portion of the landfill, and started on the area east of the relocation area. The anchor trench was also excavated on the area to the east of the relocation area. Geomembrane installation continued along the western slope with panels numbers 85 to 112 deployed, seamed and tested.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

6/13/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	44
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	14-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Moretrench:		Antana Linings:	
Supr.	1	Drillers	0	Supr.	1
Asst. Supr.	1			Technicians	12
Operators	10				
Laborers	2				
				TEMPERATURE	
				AM	PM
				70 °F	80 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the area 1 waste continued today, along with the backfill of the area 2 excavation north of the entrance to the existing maintenance building, and west of the sediment ponds. Subgrade preparation continued on the area east of the relocation area. Geomembrane installation started on the area east of the relocation area with panels numbers 113 to 171 deployed, seamed and tested.</p>

INSPECTOR: CHAD W. HUTTON DATE: 6/18/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	45
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	15-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

WORK FORCE				WEATHER	
Marcy:		Moretrench:		Antana Linings:	
Supr.	1	Drillers	0	Supr.	1
Asst. Supr.	1			Technicians	11
Operators	12				
Laborers	0				
				TEMPERATURE	
				AM	PM
				60 °F	75 °F

EQUIPMENT USED							
Cat D9G Dozer	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the area 1 waste continued today, along with the backfill of the area 2 excavation north of the entrance to the existing maintenance building, and west of the sediment ponds. Relocation of the area 2 waste west of the existing maintenance building started today, south of the existing excavation. Subgrade preparation continued on the western portion of the landfill prior to geomembrane installation. Geomembrane installation continued on the western slope and south of the existing deployment with panels numbers 172 to 183 deployed, seamed and tested.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

6/18/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	9
PROJECT NO:	331.035
WEEK START:	11-Jun-01
WEEK END:	15-Jun-01

MONDAY 6/11/01

Area 1 relocation continued along with area 2 backfill until morning rain halted work. One truckload of LLDPE (12 rolls) was delivered to the site.

TUESDAY 6/12/01

Subgrade preparation continued today on the western slope. Final clearing operations were finished south of the existing maintenance building.

WEDNESDAY 6/13/01

Area 1 relocation continued today, along with the backfill of the area 2 excavations. Subgrade preparation was started east of the relocation area. Geomembrane installation continued along the western slope with panel no. 85 to 112 deployed, seamed and tested.

THURSDAY 6/14/01

Area 1 relocation continued today, along with the backfill of the area 2 excavations. Subgrade preparation continued east of the relocation area. Geomembrane installation was started east of the relocation area, with panel no. 113 to 171 deployed, seamed, and tested.

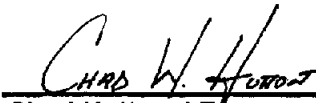
FRIDAY 6/15/01

Relocation of area 1 waste was continued today, along with the area 2 excavation. Backfilling of the area 2 continued with subgrade preparation on the western slope. Geomembrane installation continued on the western slope with panel no. 172 to 183 deployed, seamed, and tested.

SATURDAY 6/09/01 & SUNDAY 6/10/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

6/19/01

OFFICE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	46
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	18-Jun-01
		DAY OF THE WEEK	
		S	T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	11	TEMPERATURE	
Operators	12					AM	PM
Laborers	0					60 °F	70 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the area 2 waste continued today, along with the backfill of the area 2 excavation north of the entrance to the existing maintenance building, and west of the sediment ponds. Subgrade preparation continued on the western portion of the landfill prior to geomembrane installation. Geomembrane installation continued on the western slope, south of the existing deployment with panels numbers 184 to 203 deployed, seamed and tested. A haul road was also established to the western mining area adjacent to the site.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

6/25/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	47
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	19-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Moretrench:		Antana Linings:	
Supr.	1	Drillers	0	Supr.	0
Asst. Supr.	1			Technicians	0
Operators	7				
Laborers	6				
				TEMPERATURE	
				AM	PM
				70 °F	85 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	2	Kobelco 140 Excavator	0
Cat D6R Dozer	1	Extac Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1	JD 50 Excavator	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the area 2 waste continued today west of the existing maintenance building. Existing utilities entering the building were also exposed. Composite geonet deployment and seaming was started on the northern slope. Construction meeting number four was held on-site.</p>

INSPECTOR: Chad H. Hutton DATE: 6/25/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	48
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	20-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORKFORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	0	Sun	Sun
Asst. Supr.	1			Technicians	1	TEMPERATURE	
Operators	5			Surveyor	1	AM	PM
Laborers	7					70 °F	85 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	2	Kobelco 140 Excavator	0
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1	JD 50 Excavator	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the area 1 waste continued today and was relocated in the western portion of the relocation area. Existing utilities entering the building were also exposed. Composite genet deployment and seaming was continued on the northern slope. Antana linings on-site to complete northern portion of as-built survey of the panels deployed to this point, along with the portion adjacent to area 2 excavation.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

6/25/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	49
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	21-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	0	Sun /Rain	Rain
Asst. Supr.	1			Technicians	1	TEMPERATURE	
Operators	9			Surveyor	11	AM	PM
Laborers	4					60 °F	60 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1	JD 50 Excavator	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the area 2 waste continued today and was relocated in the eastern portion of the relocation area. Portions of the gas venting trench adjacent to the existing maintenance building were constructed on the northern and southern sides. Composite geonet deployment and seaming was continued on the northern slope. A haul road was started on the composite geonet along the northern slope of the landfill.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

6/25/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	50
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	22-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	0	Rain / Overcast	Wind / Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	8			Surveyor	0		
Laborers	4					AM	PM
						60 °F	60 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the Area 3 waste was continued today, along with the installation of the gas venting trench adjacent to the existing maintenance building. Common fill was hauled to extend the roadway onto the landfill along the northern slope.</p>

INSPECTOR: Chad H. Hutton DATE: 6/25/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	10
PROJECT NO:	331.035
WEEK START:	18-Jun-01
WEEK END:	22-Jun-01

MONDAY 6/18/01

Relocation of the Area 2 waste continued today, along with the backfill of the northern portions of the Area 2 excavation. Subgrade preparation advanced along the western slope east of the Area 2 excavation. Geomembrane installation continued with panel no. 184 to 203 deployed, seamed, and tested.

TUESDAY 6/19/01

Relocation of the Area 2 waste continued, along with the exposure of the existing utilities entering the maintenance building. Composite geonet installation was started on the northern slope. Construction meeting number four was held on-site.

WEDNESDAY 6/20/01

Relocation of Area 1 waste along with the installation of composite geonet on the northern slope continued today.

THURSDAY 6/21/01

Relocation of the Area 2 waste continued today, along with the construction of the gas mitigation trench adjacent to the maintenance building. Composite geonet installation continued on the northern slope, and a haul road was started over the northern slope.

FRIDAY 6/22/01

Relocation of the Area 3 waste east of the maintenance building was started today, along with the continuation of the gas mitigation trench construction adjacent to the building.

SATURDAY 6/09/01 & SUNDAY 6/10/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

6/25/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	51
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	25-Jun-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	9	TEMPERATURE	
Operators	8			Surveyor	0	AM	PM
Laborers	4					65 °F	72 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the Area 3 waste was continued today, along with the installation of the gas venting trench adjacent to the existing maintenance building. Common fill was hauled to extend the roadway onto the landfill along the northern slope. Two truckloads of LLDPE (24 rolls) was delivered to the site. Composite geonet installation continued along the western slope.</p>

INSPECTOR: Chad H. Hutton DATE: 7/2/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	52
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	26-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	9	TEMPERATURE	
Operators	6			Surveyor	0		
Laborers	5					AM	PM
						70 °F	85 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	2	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extac Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC: N.A.

DESCRIPTION OF WORK ACCOMPLISHED: Relocation of the Area 3 waste and associated grading was continued today. Subgrade preparation continued along the western slope prior to LLPDE installation. Geomembrane installation continued along the western slope with panel no. 204 to 234 deployed, seamed, and tested. Composite geonet installation was also continued along the western slope.

INSPECTOR: CHAD W. HUTTON DATE: 7/2/01
 Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	53
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	27-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	9	TEMPERATURE	
Operators	10			Surveyor	0		
Laborers	2					AM	PM
						70 °F	90 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extac Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the Area 1 waste and associated grading was continued today. Subgrade preparation continued along the western slope prior to LLPDE installation. Geomembrane installation continued along the western slope with panel no. 235 to 252 deployed, seamed, and tested. Composite geonet installation was also continued along the western slope.</p>

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

7/2/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	54
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	28-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Moretrench:		Antana Linings:	
Supr.	1	Drillers	0	Supr.	1
Asst. Supr.	1			Technicians	9
Operators	7			Surveyor	0
Laborers	5				
				TEMPERATURE	
				AM	PM
				65 °F	80 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Extec Screen	0	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED

Relocation of the Area 1 waste and associated grading was continued today. Composite geonet installation was also continued along the western slope. Installation of the gas venting trench adjacent to the existing maintenance building was also continued today.

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

7/2/01

OFF-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	55
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	29-Jun-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	9	TEMPERATURE	
Operators	8			Surveyor	0	AM	PM
Laborers	5					65 °F	80 °F

EQUIPMENT USED							
Cat D9G Dozer	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D8K Dozers	0	PC 300 Excavator	0	End Dumps	3	Kobelco 140 Excavator	1
Cat D6R Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Relocation of the Area 1 waste and associated grading was continued today. Composite geonet installation was also continued along the western slope. Installation of the gas venting trench adjacent to the existing maintenance building was also continued today. Common fill screening was also resumed today on the on-site stockpiles.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

7/2/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	11
PROJECT NO:	331.035
WEEK START:	25-Jun-01
WEEK END:	29-Jun-01

MONDAY 6/25/01

Relocation of the Area 3 waste east of the maintenance building continued today, along with preparation of subgrade on the western portion of the landfill. Composite geonet deployment continued along the western slope, advancing southward.

TUESDAY 6/26/01

Relocation of the area 3 waste was completed today, along with the continuation of subgrade preparation on the western slope. Geomembrane installation continued on the western slope with panel numbers 204 to 234 deployed, seamed, and tested.

WEDNESDAY 6/27/01

Relocation of the Area 1 waste was continued today, along with the continuation of subgrade preparation on the western slope. Geomembrane installation continued with panel numbers 235 to 252 deployed, seamed, and tested.

THURSDAY 6/28/01

Relocation of the Area 1 waste was completed today. Grading of the excavation was continued. Screening of common fill was continued today on the on-site stockpiles. Composite geonet installation was continued on the western slope.

FRIDAY 6/29/01

Screening of common fill was continued today, along with the hauling of common fill material to the northern portion of the landfill. Composite geonet installation continued on the western slope.

SATURDAY 6/30/01 & SUNDAY 7/1/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

7/3/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	59
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	06-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Overcast	Sun
Asst. Supr.	1			Technicians	9	TEMPERATURE	
Operators	9			Surveyor	0	AM	PM
Laborers	3					50 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	2	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Grading of the Area 1 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Common fill hauling and placement on the northern and western slope was continued today. Composite geonet installation continued on the western slope advancing southward. Type D backfill of the gas venting trench adjacent to the maintenance building was also continued, along with the gas vent installation. Geomembrane installation continued on the southern slope with panel no. 268 to 277 deployed, seamed, and tested.</p>

INSPECTOR: Chad W. Hutton DATE: 7/11/01
Chad Hutton, I.E.

INSPECTOR:

Chad Hutton, I.E.

Chad W. Hutton

DATE:

7/11/01

installation.

Grading of the Area 1 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Common fill hauling and placement on the northern and western slope was continued today. Composite geonet installation continued on the western slope advancing southward. Type D backfill of the gas venting trench adjacent to the maintenance building was also started, along with the gas vent

DESCRIPTION OF WORK ACCOMPLISHED

N.A.

MAINTENANCE & PROTECTION OF TRAFFIC

EQUIPMENT USED

Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	3	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

WORK FORCE

Marcy:		Moretrench:		Antana Linings:		AM	PM	WEATHER
Supr.	1	Drillers	0	Supr.	1	Overcast, Lt. Rain	Sun	
Asst. Supr.	1			Technicians	9	TEMPERATURE		
Operators	9			Surveyor	0	AM	PM	
Laborers	3					60 °F	68 °F	

CONTRACTOR:

Marcy Excavation, Inc.

OWNER:

Cortland County

PROJECT NAME:

Remedial Action Landfill Closure

REPORT NO:

58

PROJECT NO:

331.035

DATE:

05-Jul-01

DAY OF THE WEEK

S M T W T F SA

INSPECTOR'S REPORT

Consulting Engineers



Barton & Loguidice, P.C.

INITIALS	
DATE	



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	57
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	03-Jul-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Partly Cloudy	Sun
Asst. Supr.	1			Technicians	10	TEMPERATURE	
Operators	9			Surveyor	0	AM	PM
Laborers	3					60 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	2	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	3	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Grading of the Area 1 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Common fill hauling and placement on the northern and western slope was continued today. Composite geonet installation continued on the western slope advancing southward. Geomembrane installation was continued on the southern slope with panel no. 253 to 267 deployed, seamed, and tested.</p>

INSPECTOR: Chad W. Hutton DATE: 7/11/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	56
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	02-Jul-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	0	Supr.	1	Overcast	Partial Sun
Asst. Supr.	1			Technicians	10	TEMPERATURE	
Operators	8			Surveyor	0		
Laborers	5					AM 60 °F	PM 68 °F

EQUIPMENT USED							
Cat D8K Dozers	2	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC

N.A.

DESCRIPTION OF WORK ACCOMPLISHED

Grading of the Area 1 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Common fill hauling and placement on the northern slope was continued today. Backfilling of the Area 2 excavation was continued, and gas vent piping on the western slope was started. Composite geonet installation continued on the western slope advancing southward.

INSPECTOR:

CHAD W. HUTTON
Chad Hutton, I.E.

DATE:

7/11/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	<i>Remedial Action Landfill Closure</i>
OWNER:	<i>Cortland County</i>
CONTRACTOR:	<i>Marcy Excavation, Inc.</i>

SUMMARY NO:	12
PROJECT NO:	331.035
WEEK START:	02-Jul-01
WEEK END:	06-Jul-01

MONDAY 7/2/01

Grading of the Area 1 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Common fill placement was continued on the northern slope, and gas vent piping was installed on the western slope.

TUESDAY 7/3/01

Grading of the Area 1 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Composite geonet installation was continued on the western slope advancing southward, and geomembrane installation continued with panel no. 253 to 267 installed.

WEDNESDAY 7/4/01

NA

THURSDAY 7/5/01

Grading of the Area 1 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Composite geonet installation continued on the western slope, and backfill of the gas venting trench adjacent to the building was started.

FRIDAY 7/6/01

Grading of the Area 1 excavation continued today, along with the screening of common fill from the on-site stockpiles. Composite geonet installation continued on the western slope, and geomembrane installation was continued with panel no. 268 to 277 deployed, seamed, and tested.

SATURDAY 7/7/01 & SUNDAY 7/8/01

NA.

INSPECTOR:

CHAD W. HUTTON
Chad Hutton, I.E.

DATE:

7/13/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	60
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	09-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	9	TEMPERATURE	
Operators	9			Surveyor	0	AM	PM
Laborers	3					70 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	2	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	1
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Grading of the Area 1 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Common fill hauling and placement on the northern and western slope was continued today. Composite geonet installation continued on the western slope advancing southward. One deep well and five shallow vents were installed today.</p>

INSPECTOR: Chad W. Hutton DATE: 7/16/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <u>Remedial Action Landfill Closure</u>	REPORT NO.:	61
OWNER: <u>Cortland County</u>	PROJECT NO.:	331.035
CONTRACTOR: <u>Marcy Excavation, Inc.</u>	DATE:	10-Jul-01
DAY OF THE WEEK		
S	M	T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	0	Partial Sun	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	11			Surveyor	0	AM	PM
Laborers	2					65 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	1
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Grading of the western slope was continued today, along with the screening of common fill from the on-site stockpiles. Common fill hauling and placement on the western slope was continued today. Backfill of the gas venting trench adjacent to the existing maintenance building was continued today. Concrete tanks were installed east of the maintenance building. Two deep wells and six shallow vents were installed today.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

7/16/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	62
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	11-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	0	Overcast	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	8			Surveyor	0	AM	PM
Laborers	4					65 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	1
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Grading of the western slope was continued today, along with the removal of topsoil from the haul road to the mining area adjacent to the site. Common fill hauling and placement on the western slope was continued today. Backfill of the gas venting trench adjacent to the existing maintenance building was continued today. Three deep wells and eight shallow vents were installed today.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

7/16/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	63
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	12-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Moretrench:		Antana Linings:	
Supr.	1	Drillers	2	Supr.	1
Asst. Supr.	1			Technicians	9
Operators	10			Surveyor	0
Laborers	2				
				TEMPERATURE	
				AM	PM
				Overcast	Sun
				68 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	1
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Backfilling of the Area 2 excavation continued today, along with the screening of common fill from the on-site stockpiles. Backfill of the gas venting trench adjacent to the existing maintenance building was continued today. Gas vent piping also continued today. Four deep wells and eight shallow vents were installed today.</p>

INSPECTOR: Chad Hutton DATE: 7/16/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	64
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	13-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

WORK FORCE						WEATHER	
Marcy:		Moretrench:		Antana Linings:		AM	PM
Supr.	1	Drillers	2	Supr.	1	Overcast	Sun
Asst. Supr.	1			Technicians	9	TEMPERATURE	
Operators	10			Surveyor	0		
Laborers	2					AM	PM
						60 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	1
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1	JD 50 Excavator	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

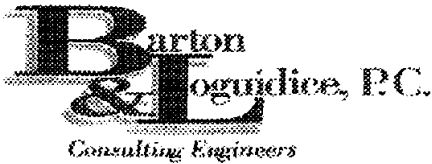
DESCRIPTION OF WORK ACCOMPLISHED
<p>Backfilling of the Area 2 excavation continued today, along with the screening of common fill from the on-site stockpiles. Gas vent piping also continued today. Two deep wells and five shallow vents were installed today. Geomebrane installation continued adjacent to the existing maintenance building with panel no. 278 to 284 deployed, seamed, and tested. Composite geonet installation continued along the western and southern slopes.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

7/16/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	<i>Remedial Action Landfill Closure</i>
OWNER:	<i>Cortland County</i>
CONTRACTOR:	<i>Marcy Excavation, Inc.</i>

SUMMARY NO:	13
PROJECT NO:	331.035
WEEK START:	09-Jul-01
WEEK END:	13-Jul-01

MONDAY 7/9/01

Screening of common fill, along with placement on the northern and western slopes continued today. Gas well drilling resumed with one deep and five shallow wells installed. Composite geonet installation continued along the western slope advancing southward.

TUESDAY 7/10/01

Screening of common fill, along with placement on the western slope continued today. Two deep wells and six shallow wells were installed. Backfill of the gas venting trench adjacent to the maintenance building continued.

WEDNESDAY 7/11/01

Screening of common fill, along with placement on the western slope continued today. Three deep wells and eight shallow vents were installed today.

THURSDAY 7/12/01

Backfill of the Area 2 excavation resumed today, along with the backfill of the gas venting trench adjacent to the maintenance building. Four deep wells, and eight shallow vents were installed today.


FRIDAY 7/13/01

Screening of common fill, along with the placement of backfill in the Area 2 excavation continued today. Geomembrane installation continued adjacent to the western side of the maintenance building with panel no. 278 to 284, deployed, seamed, and tested.

SATURDAY 7/14/01 & SUNDAY 7/15/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

7/16/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	65
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	16-Jul-01
		DAY OF THE WEEK	
		S	SA

WORK FORCE				WEATHER	
Marcy:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Sun	Partly Cloudy
Asst. Supr.	1	Technicians	9	TEMPERATURE	
Operators	11	Surveyor	0	AM	PM
Laborers	2			70 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Backfilling of the Area 2 excavation continued today, along with the screening of common fill from the on-site stockpiles. Composite geonet installation continued along the western and southern slopes.</p>

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

7/23/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	66
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	17-Jul-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

WORK FORCE				WEATHER	
Marcy:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Rain	Partly Sun
Asst. Supr.	1	Technicians	0	TEMPERATURE	
Operators	0	Surveyor	0	AM	PM
Laborers	2			60 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	0	973 Track Loader	0
Cat D6R Dozer	0	PC 300 Excavator	0	End Dumps	0	Kobelco 140 Excavator	0
Cat D5 LGP Dozer	0	Power Screen	0	Dump Trucks	0	JD 50 Excavator	0
TD 15 Dozer	0	Volvo Loader	0	Water Truck	0		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
No work was done today on the landfill due to the weather. Construction meeting number 6 was held today.

INSPECTOR: Chad H. Hutton DATE: 7/23/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	67
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	18-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Sun	Sun
Asst. Supr.	1	Technicians	0	TEMPERATURE	
Operators	10	Surveyor	0	AM	PM
Laborers	3			70 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Backfill of the area 2 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Subgrade preparation was also continued along the southern slope, advancing east from the existing geomembrane</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

7/23/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	68
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	19-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	10				
Laborers	3			AM	PM
				70 °F	85 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	0	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
<p>Backfill of the area 2 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Subgrade preparation was also continued along the southern slope, advancing east from the existing geomembrane. On-site shale replacement of the previous entrance roadway to the existing maintenance building was also started today. Composite geonet installation continued along the southern portion of the western slope and also on the western portion of the southern slope.</p>

INSPECTOR: Chad W. Hutton DATE: 7/23/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	69
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	20-Jul-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER			
Marcy:				Antana Linings:		AM	PM
Supr.	1			Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	10	TEMPERATURE	
Operators	9			Surveyor	0		
Laborers	2					70 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Backfill of the area 2 excavation was continued today, along with the screening of common fill from the on-site stockpiles. Subgrade preparation was also continued along the southern slope, advancing east from the existing geomembrane. On-site shale replacement of the previous entrance roadway to the existing maintenance building was also continued today. Composite geonet installation continued along the southern portion of the western slope and also on the western portion of the southern slope.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

7/23/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	<i>Remedial Action Landfill Closure</i>
OWNER:	<i>Cortland County</i>
CONTRACTOR:	<i>Marcy Excavation, Inc.</i>

SUMMARY NO:	14
PROJECT NO:	331.035
WEEK START:	16-Jul-01
WEEK END:	20-Jul-01

MONDAY 7/16/01

Backfill of the Area 2 excavation continued today, along with the screening of common fill from the on-site stockpiles. Composite geonet installation advanced along the western and southern slopes.

TUESDAY 7/17/01

No work was done on the landfill today due to the weather. Construction meeting number six was held on-site.

WEDNESDAY 7/18/01

Backfill of the Area 2 excavation continued today, along with the screening of common fill. Subgrade preparation advanced east of the existing geomembrane on the southern slope.

THURSDAY 7/19/01

Backfill of the Area 2 excavation continued today, along with the start of the shale roadway installation west of the existing maintenance building. Subgrade preparation continued on the southern slope, and composite geonet installation advanced onto the southern slope.

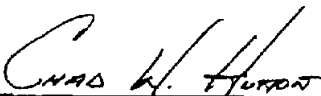
FRIDAY 7/20/01

Shale placement continued west of the existing maintenance building today, along with the screening of common fill. Composite geonet installation continued to advance east on the southern slope.

SATURDAY 7/21/01 & SUNDAY 7/22/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

7/30/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	70
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	23-Jul-01
		DAY OF THE WEEK	
		S	1
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	9				
Laborers	2			AM	PM
				70 °F	85 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Subgrade preparation of the southern slope east of the existing geomembrane was continued today. A haul road was established to the mining area adjacent to the site. Geomembrane installation was continued along the southern slope with panel nos. 285 to 298 deployed, seamed, and tested. Composite geonet installation also continued along the eastern slope.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

7/30/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	71
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	24-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	9				
Laborers	2			AM	PM
				75 °F	95 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Subgrade preparation of the southern slope east of the existing geomembrane was continued today. A haul road was continued to the mining area adjacent to the site. The type II swale on the southern slope was started. Composite geonet installation also continued along the eastern slope.</p>

INSPECTOR: Chad W. Hutton DATE: 7/30/01
 Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	72
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	25-Jul-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	9				
Laborers	2			AM	PM
				60 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Subgrade preparation of the southern slope east of the existing geomembrane was continued today. A haul road was continued to the mining area adjacent to the site. The type II swale on the southern slope was continued. Composite geonet installation also continued along the eastern slope.</p>

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

7/30/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <i>Remedial Action Landfill Closure</i>	REPORT NO:	73
OWNER: <i>Cortland County</i>	PROJECT NO:	331.035
CONTRACTOR: <i>Marcy Excavation, Inc.</i>	DATE:	26-Jul-01
DAY OF THE WEEK		
S	M	T W TH F SA

WORK FORCE				WEATHER	
Marcy:				Antana Linings:	
Supr.	1			Supr.	0
Asst. Supr.	1			Technicians	0
Operators	0			Surveyor	0
Laborers	2				
				TEMPERATURE	
				AM	PM
				Rain	na
				60 °F	na °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	0	Smooth Drum Roller	0	973 Track Loader	0
Cat D6R Dozer	0	PC 300 Excavator	0	End Dumps	0	Kobelco 140 Excavator	0
Cat D5 LGP Dozer	0	Power Screen	0	Dump Trucks	0	JD 50 Excavator	0
TD 15 Dozer	0	Volvo Loader	0	Water Truck	0		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
No work was done today on the landfill due to the weather.

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

7/30/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	74
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	27-Jul-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

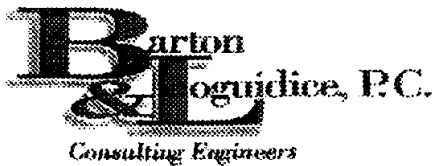
WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	10				
Laborers	3			50 °F	75 °F
		Antana Linings:			
		Supr.	1		
		Technicians	6		
		Surveyor	1		

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	0	Power Screen	2	Dump Trucks	0	JD 50 Excavator	0
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was resumed today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also started today on the on-site stockpiles. Granular fill placement over the type II geotextile continued on the western side of the existing maintenance building. Composite geonet seaming continued on the eastern portion of the landfill, along with geomembrane penetrations for gas vents on the southern and western slopes.</p>

INSPECTOR: Chad Hutton, I.E. DATE: 7/30/01



OFF-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	<i>Remedial Action Landfill Closure</i>
OWNER:	<i>Cortland County</i>
CONTRACTOR:	<i>Marcy Excavation, Inc.</i>

SUMMARY NO:	15
PROJECT NO:	331.035
WEEK START:	23-Jul-01
WEEK END:	27-Jul-01

MONDAY 7/23/01

Subgrade preparation continued along the southern slope today, and a haul road was established to the mining area adjacent to the site. Geomembrane installation continued on the southern slope advancing east with panel nos. 285 to 298 deployed, seamed and tested.

TUESDAY 7/24/01

Construction of the haul road to the mining area was continued today, along with the start of excavation for the downchute on the southern slope. Composite geonet installation continued along the eastern slope.

WEDNESDAY 7/25/01

Construction of the haul road to the mining area was continued today, along with the excavation of the downchute on the southern slope. Composite geonet installation also continued on the eastern slope.

THURSDAY 7/26/01

No work was done today on the landfill due to the weather.

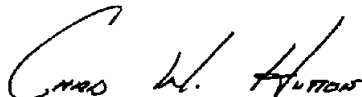
FRIDAY 7/27/01

Screening of common fill was resumed today, along with the start of topsoil screening. Composite geonet seaming continued on the eastern slope and granular fill was placed west of the existing maintenance building.

SATURDAY 7/28/01 & SUNDAY 7/29/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

7/30/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	75
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	30-Jul-01
		DAY OF THE WEEK	
		S M T W TH F SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Overcast	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	10				
Laborers	3			65 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	0	Power Screen	2	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Subgrade preparation was continued on the southern slope advancing east from the adjacent existing panels. Geomembrane installation continued with panels 285 to 298 deployed, seamed, and tested.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

8/7/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	76
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	31-Jul-01
		DAY OF THE WEEK	
		S	M
		W	TH
		F	SA

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	12				
Laborers	4			AM	PM
				70 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	JD 50 Excavator	1
TD 15 Dozer	1	Volvo Loader	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC: N.A.

DESCRIPTION OF WORK ACCOMPLISHED: Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Subgrade preparation was continued on the southern slope advancing east from the adjacent existing panels. Geomembrane installation continued with panels 299 to 339 deployed, seamed, and tested.

INSPECTOR: CHAD W. HUTTON DATE: 8/7/01
 Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	77
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	01-Aug-01
		DAY OF THE WEEK	
		S	M
		T	TH
		F	SA

WORK FORCE				WEATHER			
Marcy:				Antana Linings:			
Supr.	1			Supr.	1	AM	PM
Asst. Supr.	1			Technicians	9	Sun	Sun
Operators	12			Surveyor	0	TEMPERATURE	
Laborers	2					AM	PM
						75 °F	85 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	1	JD 50 Excavator	1
TD 15 Dozer	1	Loaders	3	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC: N.A.

DESCRIPTION OF WORK ACCOMPLISHED: Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Subgrade preparation was continued on the southern slope advancing east from the adjacent existing panels. Common fill was hauled and placed on the northern and western slopes. Geomembrane installation continued with panels 340 to 360 deployed, seamed, and tested.

INSPECTOR:

Chad Hutton, I.E.

DATE:

8/7/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	78
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	02-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:			Antana Linings:			AM	PM
Supr.	1		Supr.	1		Sun	Sun
Asst. Supr.	1		Technicians	9		TEMPERATURE	
Operators	12		Surveyor	0		AM	PM
Laborers	0					75 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	1	JD 50 Excavator	1
TD 15 Dozer	1	Loaders	3	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Subgrade preparation was continued on the southern slope advancing east from the adjacent existing panels. Common fill was hauled and placed on the northern slope. Geomembrane installation continued with panels 361 to 387 deployed, seamed, and tested.</p>

INSPECTOR:

Chad Hutton
Chad Hutton, I.E.

DATE:

8/7/01



FIELD HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	79
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	03-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Overcast	Rain
Asst. Supr.	1			TEMPERATURE	
Operators	12			AM	PM
Laborers	1			75 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	3	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	1	JD 50 Excavator	1
TD 15 Dozer	1	Loaders	3	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC:
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Subgrade preparation was continued on the southern slope advancing east from the adjacent existing panels. Common fill was hauled and placed on the northern slope. Geomembrane testing and repair work continued on the existing panels exposed on the southern slope.

INSPECTOR:

Chad Hutton
Chad Hutton, I.E.

DATE:

8/7/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	<i>Remedial Action Landfill Closure</i>
OWNER:	<i>Cortland County</i>
CONTRACTOR:	<i>Marcy Excavation, Inc.</i>

SUMMARY NO:	16
PROJECT NO:	331.035
WEEK START:	30-Jul-01
WEEK END:	03-Aug-01

MONDAY 7/30/01

Screening of common fill and topsoil continued today, along with subgrade preparation on the southern slope. Geomembrane installation continued on the southern slope with panel no. 285 to 298 deployed, seamed, and tested.

TUESDAY 7/31/01

Screening of common fill and topsoil continued today, along with subgrade preparation on the southern slope. Geomembrane installation continued on the southern slope with panel no. 299 to 339 deployed, seamed, and tested.

WEDNESDAY 8/1/01

Screening of common fill and topsoil continued today, along with subgrade preparation on the southern slope. Geomembrane installation continued on the southern slope with panel no. 340 to 360 deployed, seamed, and tested. Common fill was also placed on the northern and western slope.

THURSDAY 8/2/01

Screening of common fill and topsoil continued today, along with subgrade preparation on the southern slope. Geomembrane installation continued on the southern slope with panel no. 361 to 387 deployed, seamed, and tested. Common fill was also placed on the northern and western slope.

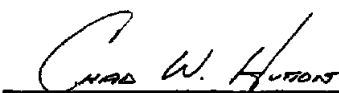
FRIDAY 8/3/01

Screening of common fill and topsoil continued today, along with subgrade preparation on the southern slope. Common fill was also placed on the northern and western slope.

SATURDAY 8/4/01 & SUNDAY 8/5/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

8/8/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	80
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	06-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	12				
Laborers	1			AM	PM
				70 °F	85 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	1		
TD 15 Dozer	1	Loaders	3	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Subgrade preparation was continued on the southern slope advancing east from the adjacent existing panels to the existing eastern panels. Common fill was hauled and placed on the northern slope, and a haul road was established along the southern portion of the western slope. Geomembrane installation continued with panel nos. 388 to 401 deployed, seamed, and tested.</p>

INSPECTOR: Chad Hutton, I.E. DATE: 8/7/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	81
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	07-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

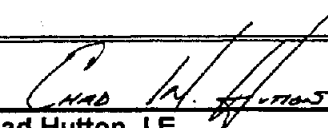
WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun, Lt. Rain
Asst. Supr.	1			TEMPERATURE	
Operators	13				
Laborers	0			80 °F	88 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	3	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Common fill was hauled and placed on the northern slope, and a haul road was continued along the southern portion of the western slope. Geomembrane repair and testing continued on the southern slope, over the portion of membrane deployed last week.</p>

INSPECTOR:


 Chad Hutton, I.E.

DATE:

8/7/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	82
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	08-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER	
Marcy:				Antana Linings:	
Supr.	1			Supr.	1
Asst. Supr.	1			Technicians	11
Operators	13			Surveyor	1
Laborers	0				
				TEMPERATURE	
				AM	PM
				80 °F	90 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	3	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Common fill was hauled and placed on the northern and eastern slopes, and a haul road was finished along the southern portion of the western slope. Composite geonet installation continued along the southern slope.

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

8/14/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	83
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	09-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	13				
Laborers	0			AM	PM
				70 °F	95 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	3	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Common fill was hauled and placed on the northern and eastern slopes.</p>

INSPECTOR: CHAD H. HUTTON DATE: 8/14/01
 Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	84
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	10-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	SA

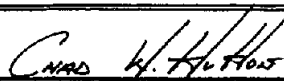
WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Overcast	Partial Sun
Asst. Supr.	1			TEMPERATURE	
Operators	13			AM	PM
Laborers	0			70 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	3	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC N.A.

DESCRIPTION OF WORK ACCOMPLISHED Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Common fill was hauled and placed on the northern and eastern slopes. Shale placement resumed at the eastern entrance to the existing maintenance uilding.

INSPECTOR:


 Chad Hutton, I.E.

DATE:

8/14/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	<i>Remedial Action Landfill Closure</i>
OWNER:	<i>Cortland County</i>
CONTRACTOR:	<i>Marcy Excavation, Inc.</i>

SUMMARY NO:	17
PROJECT NO:	331.035
WEEK START:	06-Aug-01
WEEK END:	10-Aug-01

MONDAY 8/6/01

Screening of common fill and topsoil continued today, along with the placement of common fill on the eastern slope. Geomembrane installation continued on the southern and western slopes, with panel no. 388 to 401 deployed, seamed, and tested.

TUESDAY 8/7/01

Screening of common fill and topsoil was continued today. Common fill placement was continued on the eastern slope, and a haul road was established along the southern portion of the western slope.

WEDNESDAY 8/8/01

Screening of common fill and topsoil was continued today. Common fill placement was continued to extend the haul road along the western slope, and in the central portion of the western slope. Composite geonet installation continued along the southern slope advancing east.

THURSDAY 8/10/01

Screening of common fill and topsoil continued today, along with the placement of common fill on the eastern slope.

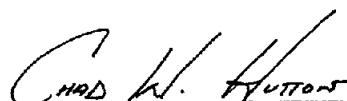
FRIDAY 8/11/01

Screening of common fill and topsoil continued today, along with the placement of common fill on the eastern slope. Shale placement was resumed on the eastern entrance of the maintenance building.

SATURDAY 8/12/01 & SUNDAY 8/13/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

8/14/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	85
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	13-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	12				
Laborers	0			AM	PM
				70 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil screening was also continued today on the on-site stockpiles. Common fill was hauled and placed on the western slope. Shale placement resumed at the western entrance to the existing maintenance building. Excavation of the gas venting trench was started on the eastern side of the building. Composite geonet installation continued on the central portion of southern slope.</p>

INSPECTOR: Chad H. Hutton DATE: 8/29/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	86
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	14-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	9				
Laborers	3			AM	PM
				75 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil stripping was continued on the southern portion of the borrow area. Common fill was hauled and placed on the western slope. Shale placement resumed at the western entrance to the existing maintenance building. Excavation of the gas venting trench was continued on the eastern side of the building. Composite geonet installation was continued on the eastern portion of the southern slope.</p>

INSPECTOR: Chad Hutton, I.E. DATE: 8/29/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	87
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	15-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	9				
Laborers	3			75 °F	80 °F
Antana Linings:					
Supr.	1				
Technicians	5				
Surveyor	0				

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil stripping was continued on the southern portion of the borrow area. Common fill was hauled and placed on the western slope. Composite geonet installation was continued on the eastern portion of the southern slope.</p>

INSPECTOR:

Chad Hutton
Chad Hutton, I.E.

DATE:

8/29/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	88
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	16-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun / Overcast
Asst. Supr.	1			TEMPERATURE	
Operators	9				
Laborers	3			75 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued today, with material from the adjacent mining area being hauled to the on-site stockpile area and processed. Topsoil stripping was continued on the southern portion of the borrow area. Common fill was hauled and placed on the southern portion of the western slope. Composite geonet installation was continued on the eastern portion of the southern slope.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

8/29/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	89
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	17-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Rain	
Asst. Supr.	1			TEMPERATURE	
Operators	0				
Laborers	0			AM	PM
				58 °F	°F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	0	Smooth Drum Roller	0	973 Track Loader	0
Cat D6R Dozer	0	PC 300 Excavator	0	End Dumps	0	Kobelco 140 Excavator	0
Cat D5 LGP Dozer	0	Power Screen	0	Dump Trucks	0		
TD 15 Dozer	0	Loaders	0	Water Truck	0		

MAINTENANCE & PROTECTION OF TRAFFIC:
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
No work was done today on the landfill due to the weather.

INSPECTOR:

Chad Hutton, I.E.

DATE:

8/29/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	18
PROJECT NO:	331.035
WEEK START:	13-Aug-01
WEEK END:	17-Aug-01

MONDAY 8/13/01

Screening of common fill and topsoil was continued today. Common fill placement continued along the southern portion of the western slope. Excavation of the gas venting trench on the eastern side of the building was started. Composite geonet installation continued along the southern slope.

TUESDAY 8/14/01

Screening of common fill and topsoil was continued today. Common fill placement continued along the southern portion of the western slope. Excavation of the gas venting trench on the eastern side of the building was continued along with composite geonet installation on the southern slope.

WEDNESDAY 8/15/01

Screening of common fill was continued today, and topsoil stripping on the southern portion of the borrow area was started. Common fill placement was continued on the southern portion of the western slope. Installation of composite geonet on the southern slope was also continued.

THURSDAY 8/16/01

Screening of common fill was continued along with topsoil stripping today. Common fill placement on the southern portion of the western slope was continued, and composite geonet installation advanced along the eastern side of the southern slope.

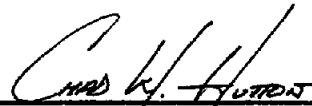
FRIDAY 8/17/01

No work was done today of the landfill due to the weather.

SATURDAY 8/18/01 & SUNDAY 8/19/01

NA.

INSPECTOR:


Chad Hutton, I.E.

DATE:

8/29/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	90
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	20-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Sun	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	13			AM	PM
Laborers	0			70 °F	70 °F
		Antana Linings:			
		Supr.	0		
		Technicians	0		
		Surveyor	0		

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC:
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
Screening of common fill from the adjacent borrow area, and topsoil stockpiles was continued today. Common fill was hauled and placed on the southern portion of the western slope. Installation of the toe drain was started on the northern portion of the landfill advancing south along the western slope.

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

8/29/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	91
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	21-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:				Antana Linings:		AM	PM
Supr.	1			Supr.	0	Sun	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	13			Surveyor	0		
Laborers	0					AM	PM
						68 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow was continued today. Common fill was hauled and placed on the southern portion of the western slope. Installation of the toe drain was continued on the northern portion of the landfill advancing south along the western slope.</p>

INSPECTOR: Chad W. Hutton DATE: 8/29/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	92
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	22-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE				WEATHER	
Marcy:				Antana Linings:	
Supr.	1			Supr.	0
Asst. Supr.	1			Technicians	0
Operators	13			Surveyor	0
Laborers	0				
				TEMPERATURE	
				AM	PM
				70 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow was continued today. Common fill was hauled and placed on the southern portion of the western slope. Installation of the toe drain was continued on the northern portion of the landfill advancing south along the western slope.</p>

INSPECTOR: CHAD H. HUTTON DATE: 8/29/01
 Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	93
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	23-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER			
Marcy:				Antana Linings:		AM	PM
Supr.	1			Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	11	TEMPERATURE	
Operators	13			Surveyor	0		
Laborers	0					70 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow was continued today. Common fill was hauled and placed on the southern portion of the western slope. Installation of composite geonet was continued on the eastern portion of the southern slope.</p>

INSPECTOR: CHAD H. HUTTON DATE: 8/29/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	94
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	24-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Sun	Sun
Asst. Supr.	1	Technicians	11	TEMPERATURE	
Operators	13	Surveyor	0	AM	PM
Laborers	0			75 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
TD 15 Dozer	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow was continued today. Common fill was hauled and placed on the southern portion of the western slope. Installation of composite geonet was continued on the eastern portion of the southern slope.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

8/29/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	19
PROJECT NO:	331.035
WEEK START:	20-Aug-01
WEEK END:	24-Aug-01

MONDAY 8/20/01
Screening of common fill and topsoil was continued today, along with the placement of common fill on the southern portion of the western slope. Toe drain installation was started on the northern region of the landfill advancing south along the western slope.

TUESDAY 8/21/01
Screening of common fill from the adjacent borrow area, and placement on the southern portion of the western slope continued today. Toe drain installation continued on the western slope.

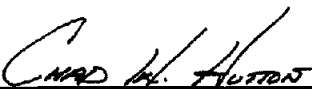
WEDNESDAY 8/22/01
Screening of common fill from the adjacent borrow area, and placement on the southern portion of the western slope continued today. Toe drain installation continued on the western slope.

THURSDAY 8/23/01
Screening of common fill from the adjacent borrow area, and placement on the southern portion of the western slope continued today. Composite geonet installation continued on the eastern portion of the southern slope.

FRIDAY 8/24/01
Screening of common fill from the adjacent borrow area, and placement on the southern portion of the western slope continued today. Composite geonet installation continued on the eastern portion of the southern slope.

SATURDAY 8/25/01 & SUNDAY 8/26/01
Common fill placement continued along the western portion of the southern slope.

INSPECTOR:


Chad Hutton, I.E.

DATE:

8/29/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	95
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	27-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:				AM	PM
Supr.	1			Overcast	Sun
Asst. Supr.	1			TEMPERATURE	
Operators	13				
Laborers	0			AM	PM
				70 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0		
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the southern portion of the western slope. Grading of the Area 3 waste relocation area was continued, east of the existing maintenance building.</p>

INSPECTOR: Chad W. Hutton DATE: 9/4/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	96
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	28-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:				Antana Linings:		AM	PM
Supr.	1			Supr.	0	Sun	Lt. Rain
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	13			Surveyor	0	AM	PM
Laborers	0					70 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0		
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the southern portion of the western slope. Grading of the Area 3 waste relocation area was continued, east of the existing maintenance building. Remaining areas of the gas venting trench adjacent to the maintenance building were completed. Construction meeting no. 9 was held on-site.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

9/4/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	97
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	29-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	1	Sun, Fog	Sun
Asst. Supr.	1	Driller	1	Technicians	10	TEMPERATURE	
Operators	13			Surveyor	0	AM	PM
Laborers	0					68 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	1
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the southern portion of the western slope. Grading of the Area 3 waste relocation area was continued, east of the existing maintenance building. Geomembrane installation and detailing was completed adjacent to the southern and eastern sides of the existing maintenance building. Composite geonet installation was also continued on the eastern portion of the southern slope, advancing east of the waste relocation area.</p>

INSPECTOR:

CHAD W. HUTTON
Chad Hutton, I.E.

DATE:

9/4/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	98
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	30-Aug-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.		Supr.		Sun	Sun
Asst. Supr.	1			Technicians		TEMPERATURE	
Operators	13			Surveyor		AM	PM
Laborers	0					70 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the southern portion of the western slope. Toe-drain installation was continued along the central portion of the western slope, finishing the western portion of the toe-drain</p>

INSPECTOR: Chad W. Hutton DATE: 9/4/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	99
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	31-Aug-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:	
Supr.	1	Supr.		Supr.	
Asst. Supr.	1			Technicians	
Operators	13			Surveyor	
Laborers	0				
				TEMPERATURE	
				AM	PM
				60 °F	°F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the southern portion of the western slope. Toe-drain installation was continued along the northern portion of the landfill. Heavy rains halted work by mid morning.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

9/4/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	20
PROJECT NO:	331.035
WEEK START:	27-Aug-01
WEEK END:	31-Aug-01

MONDAY 8/27/01
Screening of common fill was continued today, along with placement on the western portion of the southern slope. Grading of the Area 3 waste removal area was resumed.

TUESDAY 8/28/01
Screening of common fill was continued today, along with the placement of common fill on the western portion of the southern slope. Remaining areas of the gas venting trench were completed. Construction meeting number 9 was held on-site.

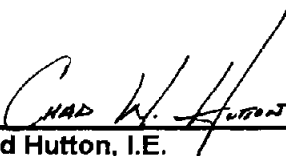
WEDNESDAY 8/29/01
Screening of common fill was continued today, along with the placement of common fill on the western portion of the southern slope. Composite geonet installation was continued on the eastern portion of the southern slope.

THURSDAY 8/30/01
Screening of common fill was continued today, along with the placement of common fill on the western portion of the southern slope. Toe-drain installation was completed on the western portion of the landfill.

FRIDAY 8/31/01
Screening of common fill was continued today, along with the placement of common fill on the western portion of the southern slope. Toe drain installation was continued on the northern portion of the landfill. Heavy rains stopped work by mid-day.

SATURDAY 9/1/01 & SUNDAY 9/2/01
NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

9/4/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	100
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	04-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

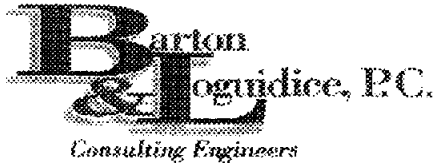
WORK FORCE				WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:	
Supr.	1	Supr.		Supr.	
Asst. Supr.	1			Technicians	
Operators	13			Surveyor	
Laborers	0				
				AM	PM
				Overcast	Sun
TEMPERATURE					
				AM	PM
				65 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the southern portion of the western slope. Area 3 subgrade preparation was continued on the Area 3 relocation area to prepare for geomembrane placement on 9/5/01. Anchor trench excavation was started on the southern side of the Area 3 relocation.</p>

INSPECTOR: CHAD W. HUTTON DATE: 9/10/01
 Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	101
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	05-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.		Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	13	TEMPERATURE	
Operators	13			Surveyor		AM	PM
Laborers	0					70 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the western portion of the southern slope. Geomembrane installation was completed with the remaining panels No. 402 to 445 deployed, seamed, and tested. Remaining areas of the anchor trench were backfilled south of the geomembrane installation area.</p>

INSPECTOR: CHAD W. HUTTON DATE: 9/10/01
 Chad Hutton, I.E.



REHOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	102
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	06-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:	
Supr.	1	Supr.		Supr.	1
Asst. Supr.	1			Technicians	13
Operators	13			Surveyor	
Laborers	0				
				TEMPERATURE	
				AM	PM
				70 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the western portion of the southern slope. Composite geonet installation was continued on the eastern portion of the existing landfill, and misc. geomembrane and composite geonet detail work was completed.</p>

INSPECTOR:

Chad Hutton, I.E.

DATE:

9/10/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	103
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	07-Sep-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.		Supr.	1	Sun	Sun
Asst. Supr.	1			Technicians	13	TEMPERATURE	
Operators	13			Surveyor		AM	PM
Laborers	0					75 °F	80 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the western portion of the southern slope. Side slope swale underdrain construction was started on the western side of southern downchute.

INSPECTOR: Chad W. Hutton DATE: 9/10/01
Chad Hutton, I.E.



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	21
PROJECT NO:	331.035
WEEK START:	03-Sep-01
WEEK END:	07-Sep-01

MONDAY 9/3/01
No work was done today due to labor day.

TUESDAY 9/4/01
Screening of common fill was continued today, along with the placement of common fill on the western portion of the southern slope. Subgrade preparation was continued east of the existing maintenance building.

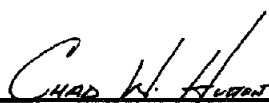
WEDNESDAY 9/5/01
Screening of common fill was continued today, along with the placement of common fill on the western portion of the southern slope. Geomembrane installation was completed with panel nos. 402 to 445 deployed, seamed, and tested.

THURSDAY 9/6/01
Screening of common fill was continued today, along with the placement of common fill on the western portion of the southern slope. Composite geonet installation was continued on the eastern portion of the southern slope.

FRIDAY 9/7/01
Screening of common fill was continued today, along with the placement of common fill on the western portion of southern slope. Side slope underdrain construction was started west of the downchute.

SATURDAY 9/8/01 & SUNDAY 9/9/01
NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

9/10/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	104
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	10-Sep-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Lt. Rain	Overcast
Ast. Supr.	1			Technicians	0	TEMPERATURE	
Operators	13			Surveyor		AM	PM
Laborers	0					68 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC:
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the central portion of the eastern slope. Type 2 geotextile was started on the area east of the maintenacen building, along with granular fill placement.</p>

INSPECTOR: CHAD W. HUTTON DATE: 9/19/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	105
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	11-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	13			Surveyor		AM	PM
Laborers	0					70 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the central portion of the eastern slope. Type 2 geotextile installation was continued on the area east of the existing maintenance building. Granular fill installation was also continued advancing from the eastern and western side converging on the area west of the concrete storage tanks.</p>

INSPECTOR: Chad W. Hutton DATE: 9/19/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	106
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	12-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	13			Surveyor		AM	PM
Laborers	0					68 °F	72 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the central portion of the eastern slope. Granular fill installation continued east of the existing maintenance building.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

9/19/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	107
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	13-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:	
Supr.	1	Supr.	0	Supr.	0
Asst. Supr.	1			Technicians	0
Operators	13			Surveyor	
Laborers	0				
				TEMPERATURE	
				AM	PM
				Sun	Overcast
				AM	PM
				68 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the central portion of the eastern slope. Underdrain installation was continued west of the downchute, on the central swale.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

9/19/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	108
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	14-Sep-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Overcast
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	13			Surveyor		AM	PM
Laborers	0					68 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	973 Track Loader	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Kobelco 140 Excavator	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Drill Rig	0
TD 15 Dozer	0	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the area east of the waste relocation area. Gas vent piping was installed on the remaining twelve inch vents within the waste relocation area.</p>

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

9/19/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	22
PROJECT NO:	331.035
WEEK START:	10-Sep-01
WEEK END:	14-Sep-01

MONDAY 9/10/01:

Screening of common fill was continued today, along with the placement on the central portion of the eastern slope. Type 2 geotextile installation was started east of the maintenance building, as well as granular fill placement.

TUESDAY 9/11/01:

Screening of common fill was continued today, along with the placement on the central portion of the eastern slope. Type 2 geotextile installation continued along with granular fill placement east of the existing maintenance building.

WEDNESDAY 9/12/01:

Screening of common fill was continued today, along with the placement on the central portion of the eastern slope. Granular fill placement was continued east of the existing maintenance building.

THURSDAY 9/13/01:

Screening of common fill was continued today, along with the placement on the southern portion of the eastern slope. Underdrain construction was resumed west of the downchute.

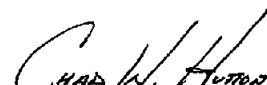
FRIDAY 9/14/01:

Screening of common fill was continued today, along with the placement on the area east of the waste relocation area. Gas venting piping was installed in the waste relocation area.

SATURDAY 9/15/01 & SUNDAY 9/16/01:

NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

9/19/01

FIELDHOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	109
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	17-Sep-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	15			Surveyor		AM	PM
Laborers	0					68 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5		
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC:
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the area east of the waste relocation area, and on the eastern slope. Topsoil screening was resumed on the eastern stockpile. Topsoil stripping was also started on the southern portion of adjacent borrow area. Underdrain construction was also continued west of the downchute.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

9/19/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	110
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	18-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

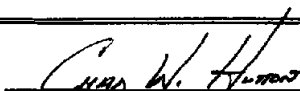
WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	15			Surveyor		AM	PM
Masons	3					72 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5		
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the area east of the waste relocation area, and on the eastern slope. Topsoil screening was continued on the eastern stockpile. Topsoil stripping was also continued on the southern portion of adjacent borrow area. Underdrain construction continued west of the downchute, and concrete entrance pads were installed on the eastern side of the existing maintenacence building.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

9/19/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	111
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	19-Sep-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	15			Surveyor		AM	PM
						65 °F	72 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5		
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the area east of the waste relocation area. Topsoil screening was continued on the eastern stockpile. Underdrain construction continued west of the downchute.</p>

INSPECTOR: Chad W. Hutton DATE: 9/19/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	112
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	20-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Overcast	Rain
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	15			Surveyor		AM	PM
						65 °F	65 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5		
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent borrow area was continued today. Common fill was hauled and placed on the area east of the waste relocation area. Topsoil screening was continued on the eastern stockpile. Underdrain construction finished west of the downchute, and toe drain construction was continued on the eastern slope.</p>

INSPECTOR: Chad W. Hutton DATE: 9/21/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <i>Remedial Action Landfill Closure</i>	REPORT NO.:	113							
OWNER: <i>Cortland County</i>	PROJECT NO.:	331.035							
CONTRACTOR: <i>Marcy Excavation, Inc.</i>	DATE:	21-Sep-01							
DAY OF THE WEEK									
<table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px 5px;">S</td> <td style="border: 1px solid black; padding: 2px 5px;">M</td> <td style="border: 1px solid black; padding: 2px 5px;">T</td> <td style="border: 1px solid black; padding: 2px 5px;">W</td> <td style="border: 1px solid black; padding: 2px 5px;">TH</td> <td style="border: 1px solid black; padding: 2px 5px;">F</td> <td style="border: 1px solid black; padding: 2px 5px;">SA</td> </tr> </table>			S	M	T	W	TH	F	SA
S	M	T	W	TH	F	SA			

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Overcast, Fog	Sun
Asst. Supr.	1			Technicians	0	TEMPERATURE	
Operators	13			Surveyor		AM	PM
Laborers	2					65 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5		
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Common fill was hauled and placed on the area east of the waste relocation area. Topsoil screening was continued on the eastern stockpile. Toe drain construction was continued on the eastern slope.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

9/21/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	23
PROJECT NO:	331.035
WEEK START:	17-Sep-01
WEEK END:	21-Sep-01

MONDAY 9/17/01

Screening of common fill along with placement on the eastern slope was continued today. Screening of topsoil was also resumed on the eastern stockpile. Underdrain construction was continued west of the downchute.

TUESDAY 9/18/01

Screening of common fill along with placement on the eastern slope was continued today. Topsoil screening was also continued. Underdrain construction was continued west of the downchute along with the completion of all remaining concrete placements.

WEDNESDAY 9/19/01

Screening of common fill and topsoil was continued today. Placement of common fill east of the waste relocation area was continued along with underdrain construction west of the downchute.

THURSDAY 9/20/01

Screening of common fill and topsoil was continued today. Placement of common fill east of the waste relocation area was continued along with underdrain construction west of the downchute.

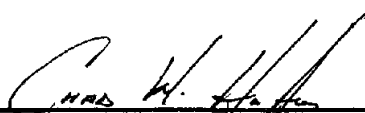
FRIDAY 9/21/01

Screening of common fill and topsoil was continued today. Placement of common fill east of the waste relocation area was continued along with toe drain construction on the eastern slope.

SATURDAY 9/22/01 & SUNDAY 9/23/01

NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/1/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	114
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	24-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

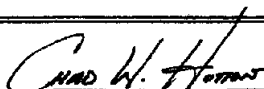
WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	0	Overcast	Hvy. Rain
Asst. Supr.	1	Electricians	2	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					58 °F	65 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Rolier	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5		
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0		
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Common fill was hauled and placed east of the existing maintenance building. Topsoil screening was continued on the eastern stockpile. Toe drain construction was continued on the eastern slope.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/3/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	115
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	25-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	0	Supr	1	Supr.	0	Overcast	Hvy. Rain
Asst. Supr.	0	Electricians	2	Technicians	0	TEMPERATURE	
Operators	0			Surveyor	0	AM	PM
Laborers	2					58 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	0	Smooth Drum Roller	0	Kobelco 140 Excavator	0
Cat D6R Dozer	0	PC 300 Excavator	0	End Dumps	0		
Cat D5 LGP Dozer	1	Power Screen	0	Dump Trucks	0		
Deere 330 Excavator	0	Loaders	1	Water Truck	0		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
<p>No work was done on the landfill capping system today due to the weather. Guy wires were installed on the poles north of the existing maintenance building.</p>

INSPECTOR: Chad H. Hutton DATE: 10/3/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	116
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	26-Sep-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	0	Overcast	Overcast
Asst. Supr.	0	Electricians	2	Technicians	0	TEMPERATURE	
Operators	1			Surveyor	0	AM	PM
Laborers	6					65 °F	68 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	0	Smooth Drum Roller	0	Kobelco 140 Excavator	1
Cat D6R Dozer	0	PC 300 Excavator	0	End Dumps	0		
Cat D5 LGP Dozer	0	Power Screen	0	Dump Trucks	0		
Deere 330 Excavator	0	Loaders	1	Water Truck	0		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Composite geonet installation continued east of the existing maintenance building, along with conduit installation on the northern side of the building.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/3/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	117
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	27-Sep-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	0	Overcast	Sun
Asst. Supr.	0	Electricians	2	Technicians	0	TEMPERATURE	
Operators	13			Surveyor	0	AM	PM
Laborers	0					68 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	0	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Topsoil placement was completed in the waste removal areas, and started on the northern slope of the existing landfill. Toe drain construction was continued on the eastern slope of the landfill.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/3/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	118
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	28-Sep-01
		DAY OF THE WEEK	
		S	M T W TH F SA

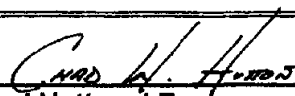
WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	0	Partial Sun	Sun
Asst. Supr.	0	Electricians	1	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					68 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	0	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Topsoil placement was continued on the northern and western slopes of the existing landfill. Toe drain construction was continued on the southwestern slope of the landfill.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/3/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	24
PROJECT NO:	331.035
WEEK START:	24-Sep-01
WEEK END:	28-Sep-01

MONDAY 9/24/01:
Common fill was placed east of the existing maintenance building, along with toe drain installation on the eastern slope. Topsoil screening was continued on the eastern stockpile.

TUESDAY 9/25/01:
No work was done today on the capping system due to the weather.

WEDNESDAY 9/26/01:
Composite geonet installation was resumed east of the maintenance building today.

THURSDAY 9/27/01:
Topsoil placement was completed in the waste removal areas today, and toe drain construction was continued on the eastern slope of the landfill.

FRIDAY 9/28/01:
Topsoil placement was continued on the northern and western slopes of the landfill, along with toe drain construction on the eastern slopes of the landfill.

SATURDAY 9/29/01 & SUNDAY 9/30/01:
NA

INSPECTOR: CHAD H. HUTTON DATE: 10/1/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	119
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	01-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

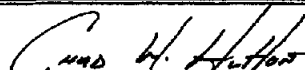
WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	1	Sun	Sun
Asst. Supr.	1	Electricians	2	Technicians	11	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					55 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued today along with the placement of common fill on the central portion of the southern slope. Topsoil screening was resumed on the western stockpile. Composite geonet installation was completed on the eastern and southern slopes, along with final LLDPE penetrations.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/8/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	120
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	02-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	1	Sun	Sun
Asst. Supr.	1	Electricians	1	Technicians	11	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					65 °F	70 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued today along with the placement of common fill on the central portion of the southern slope. Topsoil screening was continued on the western stockpile. Composite geonet seaming was completed today.</p>

INSPECTOR:

Chad W. Hutton
Chad Hutton, I.E.

DATE:

10/8/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	121
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	03-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	2	Technicians	0	TEMPERATURE	
Operators	15			Surveyor	0	AM	PM
Laborers	0					70 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued today along with the placement of common fill on the central portion of the southern slope. Topsoil screening was continued on the western stockpile. Overhead electric service was completed today.</p>

INSPECTOR: Chad Hutton, I.E. DATE: 10/8/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	122
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	04-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	1	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	1	Technicians	0	TEMPERATURE	
Operators	15			Surveyor	0	AM	PM
Laborers	0					60 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued today along with the placement of common fill on the southern portion of the eastern slope. Topsoil screening was continued on the western stockpile. Seeding was started on the northern and western slopes along with mulching on the northern slope.</p>

INSPECTOR: Chad Hutton, I.E. DATE: 10/8/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	123
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	05-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	15			Surveyor	0	AM	PM
Laborers	0					65 °F	68 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued today along with the placement of common fill on the southern portion of the eastern slope. Topsoil screening was continued on the western stockpile. Seeding was completed on the waste relocation area and mulching continued on the northern and western slopes.</p>

INSPECTOR:

Chad H. Hutton
Chad Hutton, I.E.

DATE:

10/8/01



IN HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	25
PROJECT NO:	331.035
WEEK START:	01-Oct-01
WEEK END:	05-Oct-01

MONDAY 10/1/01

Screening of common fill and topsoil was continued today. Common fill placement was continued on the central portion of the southern slope. Composite geonet installation was completed on the southern and eastern slopes.

TUESDAY 10/2/01

Screening of common fill and topsoil was continued today. Common fill placement was continued on the central portion of the southern slope.

WEDNESDAY 10/3/01

Screening of common fill and topsoil was continued today. Common fill placement was continued on the central portion of the southern slope. Overhead electrical service to the existing maintenance building was completed today.

THURSDAY 10/4/01

Screening of common fill and topsoil was continued today. Common fill placement was continued on the southern portion of the eastern slope. Seeding was started on the northern and western slopes, along with mulching on the northern slope.

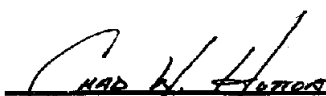
FRIDAY 10/5/01

Screening of common fill and topsoil was continued today. Common fill placement was continued on the southern portion of the eastern slope. Seeding was completed in the waste relocation areas, along with the continuation of mulching on the northern slope.

SATURDAY 10/6/01 & SUNDAY 10/7/01

NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/8/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	124
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	08-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Overcast, Lt. Snow	Partial Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	16			Surveyor	0	AM	PM
Laborers	0					30 °F	45 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>The placement of common fill was continued today on the central portion of the southern slope. Topsoil screening was continued on the western stockpile. Mulching continued on the northern and western slopes, along with the waste relocation areas.</p>

INSPECTOR: Chad H. Hutton DATE: 10/15/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	125
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	09-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Overcast	Partial Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	16			Surveyor	0	AM	PM
Laborers	0					50 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Topsoil placement was started on the area east of the waste relocation area. Topsoil screening was continued on the western stockpile. Mulching continued on the northern and western slopes, along with the waste relocation areas.</p>

INSPECTOR: Chad H. Hutton DATE: 10/15/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	126
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	10-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	16			Surveyor	0	AM	PM
Laborers	0					65 °F	68 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Topsoil placement was continued on the area east of the waste relocation area. Topsoil screening was continued on the western stockpile. Seeding was completed on the eastern slope, along with the start of mulching on the eastern slope. AGV gas well piping was installed on the northern and western slopes.</p>

INSPECTOR: Chad H. Hutton DATE: 10/15/01
Chad Hutton, I.E.

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	127
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	11-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

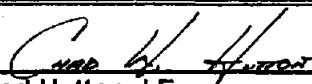
WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	16			Surveyor	0	AM	PM
Laborers	0					65 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued along with the placement on the central portion of the southern slope. Screening of topsoil was also continued from the western stockpile. Seeding of the area east of the waste relocation area was completed, and mulching was started on this area. Stormwater swale construction was started west of the downchute.</p>

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/15/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	128
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	12-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	16			Surveyor	0	AM	PM
Laborers	0					65 °F	75 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	5	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC:
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill was continued along with the placement on the central portion of the southern slope. Screening of topsoil was also continued from the western stockpile. Stormwater swale construction was continued west of the dowlchute, along with toe drain installation on the southern slope.</p>

INSPECTOR: Chad Hutton, I.E. DATE: 10/15/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	26
PROJECT NO:	331.035
WEEK START:	08-Oct-01
WEEK END:	12-Oct-01

MONDAY 10/8/01

Topsoil screening was continued today on the western stockpile. Common fill placement continued on the southern slope along with mulching on the waste removal areas.

TUESDAY 10/9/01

Topsoil screening was continued today, along with placement on the area east of the waste relocation area. Mulching continued on the northern and western slopes along with the waste removal areas.

WEDNESDAY 10/10/01

Topsoil screening was continued, along with the placement on the area east of the waste relocation area. Seeding was completed on the eastern slope, along with the start of mulching on the eastern slope. AGV gas well piping was completed on the northern and western slopes.

THURSDAY 10/11/01

Common fill and topsoil screening was continued today, along with the placement of common fill on the central portion of the southern slope. Seeding of the area east of the waste relocation area was completed, and mulching of this area was started.

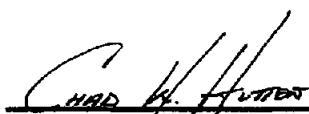
FRIDAY 10/12/01

Common fill and topsoil screening was continued today, along with the placement of common fill on the central portion of the southern slope. Stormwater swale construction was started west of the downchute.

SATURDAY 10/13/01 & SUNDAY 10/14/01

NA

INSPECTOR:


Chad Hutton, I.E.

DATE:

10/15/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	129
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	15-Oct-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					48 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued along with the placement of the screened common fill on the central portion of the southern slope. Screening of topsoil was also continued from the western stockpile. Toe Drain installation was continued along the southern perimeter of the landfill. Started adding extensions to the gas vents surrounding the maintenance building.</p>

INSPECTOR: R. Brinkmann DATE: 10/15/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	130
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	16-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun, v.windy	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					45 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued along with screening topsoil from the western stockpile. With the exception of the downchute, the liner/composite is now completely covered with common fill as barrier protection material. Screening of common fill continues for construction of Type III drainage swales and fine grading barrier material before placement of topsoil. Toe Drain installation was completed today with the exception of the three access points onto the landfill and the bottom of the downchute. Started general cleanup around eastern perimeter of landfill, removing liner/composite waste, old tyres and debris. Construction meeting 12 was held today, see meeting notes for information/issues discussed.</p>

INSPECTOR: R. Brinkmann DATE: 10/16/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	131
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	17-Oct-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	O/cast, light rain	Rain
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	12			Surveyor	0	AM	PM
Laborers	0					40 °F	40 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued along with screening topsoil from the western stockpile. Worked on fine grading and preparing western slope for placement of topsoil. Continued general cleanup and grading around eastern perimeter of landfill. Inclement weather stopped work for the day at 1400.</p>

INSPECTOR:

R. Brinkmann
Rodd Brinkmann

DATE:

10/17/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	132
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	18-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					40 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued along with screening topsoil from the western stockpile. Worked on fine grading and preparing south western corner of landfill for placement of topsoil. Constructed Type III drainage swale on south west corner of landfill and adjacent to the maintenance building. Continued general cleanup and grading of drainage routes along western perimeter of landfill. Regraded drainage swales adjacent to County employees carpark.</p>

INSPECTOR:  DATE: 10/18/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	133
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	19-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	13	SJB Services, Inc.:		Surveyor	0	AM	PM
Laborers	0	Technicians	1			46 °F	64 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of common fill from the adjacent mining area was continued along with screening topsoil from the western stockpile. Worked on fine grading and preparing south western corner of landfill for placement of topsoil. Regraded and compacted area of barrier material still requiring compaction testing on southern slope. Constructed Type III drainage swale on south west corner of landfill. Completed general cleanup and grading of drainage routes around perimeter of landfill. Cut top eastern trench for composite underdrain, branching east of down chute, around onto the western slope. Completed placing and compacting barrier protection material in down chute. Started placing topsoil on western slope in late afternoon, continuing on from previously seeded and mulched topsoil. SJB Services were onsite for compaction testing of barrier protection material.</p>

INSPECTOR: R. Brinkmann DATE: 10/19/01
Rodd Brinkmann



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	27
PROJECT NO:	331.035
WEEK START:	15-Oct-01
WEEK END:	19-Oct-01

MONDAY 10/15/01
Continued screening common fill from the adjacent mining area and topsoil from the western stockpile. Common fill placement continued on the southern slope. Continued installing the toe drain around the perimeter of the landfill, and started adding extensions to the gas vents around the maintenance building.

TUESDAY 10/16/01
Continued screening common fill and topsoil. Common fill placement and compaction continued on the southern slope. The toe drain around the perimeter of the landfill was completed except for access points. Started general cleanup around landfill perimeter. Construction Meeting 12 was held.

WEDNESDAY 10/17/01
Continued screening common fill and topsoil. Prepared final grade of barrier material on western slope for topsoil placement. Continued general cleanup around landfill perimeter. Inclement weather stopped work at 1400.

THURSDAY 10/18/01
Continued screening common fill and topsoil. Constructed Type III drainage swales on southwest slope and adjacent to maintenance building, prepared final grade of barrier material for topsoil placement. Completed general cleanup around landfill perimeter, regraded swales adjacent to County employee parking area.

FRIDAY 10/19/01
Continued screening common fill and topsoil. Constructed Type III drainage swale on southwest slope. Lined and compacted the downchute with common fill, completing the placement of barrier protection material on landfill. Started placing topsoil on western slope and cut top eastern underdrain trench.

SATURDAY 10/20/01 & SUNDAY 10/21/01
NA

INSPECTOR:  DATE: 10/19/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	134
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	22-Oct-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	O/cast	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					50 °F	65 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	1	Dump Trucks	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Water Truck	1		

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of topsoil was continued from the western stockpile, along with hauling topsoil to southwest slope of landfill. No common fill was excavated or screened today from the adjacent mining area. The top composite underdrain east of the downchute was completed and started excavating trench for middle underdrain east of downchute. Started installing bird screen netting on B-series gas vents.</p>

INSPECTOR: R. Brinkmann DATE: 10/22/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	135
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	23-Oct-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Suburban Propane:		AM	PM
Supr.	1	Supr.	1	Supr.	1	Sun, v.windy	P/cloudy, windy
Asst. Supr.	1	Electricians	1	Technicians	2	TEMPERATURE	
Operators	13	SJB Services, Inc:				AM	PM
Laborers	0	Technicians	1			45 °F	65 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	0	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	1	Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Tractor/Seeder	1	Mulching Equipment	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of topsoil was continued from the western stockpile, along with hauling topsoil to southwest slope of landfill. No common fill was excavated or screened today from the adjacent mining area. Continue excavating trench for middle underdrain east of downchute. Continued installing bird screen netting on B-series gas vents. Bagnell Electric onsite in morning to complete electrical installation to maintenance building utilities. Float alarms were installed incorrectly. SJB Services were onsite in morning and completed compaction testing of protective barrier (common fill) covering the landfill. All soils testing is now complete for the project. 9 rolls C-350 erosion control mat was delivered to site, along with a trailer load of hay. Suburban Propane were onsite in the afternoon and completed installation of two new LP gas tanks to the maintenance building. The topsoil placed on southwest slope was seeded in the afternoon. No mulching was completed due to high winds.</p>

INSPECTOR: R. Brinkmann DATE: 10/23/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	136
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	24-Oct-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	O/cast, light rain	O/cast
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					50 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	0	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	1	Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Tractor/Seeder	0	Mulching Equipment	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of topsoil was continued from the western stockpile, along with hauling topsoil to southwest slope of landfill. No common fill was excavated or screened today from the adjacent mining area. Continue excavating trench for middle underdrain east of downchute and installing bird screen netting on B-series gas vents. Installed end sections and straps on gas vents around maintenance building. Installed approximately 105 feet of C-350 erosion matting in top swale west of downchute.</p>

INSPECTOR:  DATE: 10/24/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	137
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	25-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	O/cast, rain showers	P/cloudy
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					70 °F	58 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	0	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	1	Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of topsoil was continued from the western stockpile, which was depleted in the afternoon, and the powerscreen was relocated to the eastern topsoil stockpile. Topsoil was hauled from the screened western stockpile to the southwest corner of the landfill. The spreading of topsoil on the southwest corner of the landfill was completed around to the downchute by late afternoon. No common fill was excavated or screened today from the adjacent mining area. Installation of the middle composite underdrain east of downchute was completed and excavation commenced on the lower eastern underdrain. Installation of the bird screen netting in the B-series gas vents was completed. Continued seeding and mulching topsoil on the southwest corner of the landfill in the afternoon.</p>

INSPECTOR: R. Brinkmann DATE: 10/25/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	138
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	26-Oct-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	P/cloudy	P/cloudy
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	12	SJB Services, Inc.:		Surveyor	0	AM	PM
Laborers	0	Technicians	0			42 °F	40 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening and stockpiling of topsoil was continued from the eastern stockpile. Topsoil was hauled from the screened western stockpile to the area around the maintenance building. The spreading of topsoil was completed around the maintenance building by mid morning and the end dumps were switched to hauling common fill from the adjacent mining area to the screen. Seeding the southwest corner of the landfill was completed around to drainage downchute, and mulching was continued. Started preparing final grade of barrier material on southern slope, ready for placement of topsoil. Hauled common fill to eastern drainage swales in the afternoon.</p>

INSPECTOR:

R. Brinkmann
Rodd Brinkmann

DATE:

10/26/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	28
PROJECT NO:	331.035
WEEK START:	22-Oct-01
WEEK END:	26-Oct-01

MONDAY 10/22/01

Continued screening and hauling topsoil from the western stockpile to the southwest corner of the landfill. Completed installation of top composite underdrain east of downchute, and start on middle underdrain east of downchute. Started installing bird screen netting on B-series gas vents.

TUESDAY 10/23/01

Continued screening and hauling topsoil from the western stockpile to the southwest corner of the landfill. Continued installing bird screen netting on B-series gas vents. Compaction testing of the barrier material was completed satisfactorily. Bagnell Electric completed electrical hookup of utilities to maintenance building. Suburban Propane completed installation of the LP gas tanks to the maintenance building. Topsoil on the southwestern slope was seeded.

WEDNESDAY 10/24/01

Continued screening and hauling topsoil from the western stockpile to the southwest corner of the landfill. Continued installation of middle composite underdrain east of downchute and bird screen netting on B-series gas vents. Installed approximately 100 feet of C-350 erosion mat.

THURSDAY 10/25/01

Completed topsoil screening from the western stockpile. Continued hauling screened topsoil from the western stockpile to the southwest corner of the landfill. Completed installation of middle composite underdrain east of downchute and bird screen netting on B-series gas vents. Started excavating trench for lower eastern underdrain. Continued seeding and mulching southwest corner of landfill.


FRIDAY 10/26/01

Continued screening and stockpiling topsoil from the eastern stockpile. Completed placing topsoil around the maintenance building. Screened and stockpiled common fill from the adjacent mining area. Completed seeding and continued mulching the southwest corner of the landfill. Continued the installation of the lower composite underdrain east of downchute. Prepared final grade of barrier material on southern slope.

SATURDAY 10/27/01 & SUNDAY 10/28/01

NA

INSPECTOR:


Rodd Brinkmann

DATE:

10/26/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	139
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	29-Oct-01
		DAY OF THE WEEK	
		S M T W TH F SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun, calm	Same
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					45 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Tractor/Seeder	0	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening of topsoil was continued from the eastern stockpile, along with hauling topsoil from the western stockpile at the bottom of the southern slope of landfill. Hauled and placed shale around maintenance building for roadway. Continued mulching southwest corner of landfill, and working slowly on bottom eastern underdrain. Installed the porches on the doorways around the maintenance building. Started screening common fill from the adjacent mining area, and hauling the fill to the top eastern swale on the southern slope late in the afternoon. 71 rolls of C350 erosion mat and staples was delivered to site.</p>

INSPECTOR: R. Brinkmann DATE: 10/29/01
 Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	140
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	30-Oct-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Suburban Propane:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun, light wind	P/cloudy
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14	SJB Services, Inc.:				AM	PM
Laborers	0	Technicians	0			43 °F	56 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	2	Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening and stockpiling of topsoil was continued from the eastern stockpile. Continued screening common fill from the adjacent mining area and hauling to the top and middle eastern swales. Completed both the top and middle eastern swales today. Started cleaning up and preparing the adjacent mining area for topsoil. Placed shale in drainage swale outside maintenance building. Final grade of the topsoil on the bottom southern slope was prepared for seeding. Mulching was completed on the southwest corner of the landfill. Installed remaining "T" sections on A-series gas vents.</p>

INSPECTOR:

R. Brinkmann
Rodd Brinkmann

DATE:

10/30/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	141
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	31-Oct-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	O/cast, light rain	O/cast
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					42 °F	45 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	1	Water Truck	1	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening and stockpiling of topsoil was continued from the eastern stockpile. Continued to haul and screen common fill from the adjacent mining area to the bottom swale on the southern slope. Installation of bottom eastern underdrain and construction of bottom eastern swale is approximately 70% complete. Seeded bottom southern slope on landfill. Mulched slope below maintenance building and started mulching bottom of southern slope on landfill. Started hauling and spreading topsoil to the top of the landfill. Continued dressing up and preparing the adjacent mining area for final grade and topsoil.</p>

INSPECTOR: R. Brinkmann DATE: 10/31/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	142
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	01-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun, light wind	same
Asst. Supr	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	14			Surveyor	0	AM	PM
Laborers	0					50 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	1	Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	2	Tractor/Seeder	0	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Screening and stockpiling of topsoil was continued from the eastern stockpile. Continued hauling and spreading topsoil to the landfill from both the eastern and western stockpiles. Finished topsoil on the top of landfill and down northern haul road, and started spreading topsoil on southern slope. Completed installation of bottom eastern underdrain and construction of bottom eastern swale is approximately 70% complete. Completed mulching bottom southern slope of landfill.</p>

INSPECTOR: *R. Brinkmann* DATE: 11/1/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	143
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	02-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE				WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:	
Supr.	1	Supr.	0	Supr.	0
Asst. Supr.	0	Electricians	0	Technicians	0
Operators	13			Surveyor	0
Laborers	0				
				TEMPERATURE	
				AM	PM
				63 °F	74 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	0	Kobelco 140 Excavator	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	4	Cat D7H Dozer	1
Cat D5 LGP Dozer	1	Power Screen	1	Water Truck	1	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>The screening of topsoil for the project was completed mid morning. Continued hauling and spreading topsoil on the south slope of the landfill from the eastern topsoil stockpile. Completed seeding and mulching topsoil on the top of the landfill and down north haul road. Continued seeding and mulching topsoil on the southern slope.</p>

INSPECTOR: R. Brinkmann DATE: 11/2/01
Rodd Brinkmann



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	29
PROJECT NO:	331.035
WEEK START:	29-Oct-01
WEEK END:	02-Nov-01

MONDAY 10/29/01

Continued screening the eastern topsoil stockpile and hauling topsoil from the western stockpile to the bottom southern slope of the landfill. Placed and compacted approximately 12 inches shale around maintenance building, and reinstalled the existing porches over the doorways. Screened common fill from the adjacent mining area and hauled to the southern slope from construction of the Type III drainage swales in the afternoon.

TUESDAY 10/30/01

Continued screening topsoil from the eastern stockpile. Continued screening and hauling common fill from the adjacent mining area to the southern slope for construction of swales. Started dressing up adjacent mining area for final grade and reclamation. Completed mulching the southwest corner of the landfill. Installed remaining "T" sections on A-series gas vents.

WEDNESDAY 10/31/01

Continued screening topsoil from the eastern stockpile. Continued screening and hauling common fill from the adjacent mining area to the swales on the southern slope. Both the lower eastern underdrain and swale are approximately 70% complete. Hauled topsoil to the top of the landfill. Completed mulching the slope below the maintenance building.

THURSDAY 11/01/01

Continued screening topsoil from the eastern stockpile, and hauling topsoil from both the western and eastern stockpiles to the landfill. Completed topsoil on top of the landfill and down northern haul road, continued spreading topsoil on the southern slope. Completed installation of lower eastern underdrain. Hauled topsoil to the top of the landfill. Completed mulching the lower southern slope of the landfill.

FRIDAY 11/02/01

Completed the screening and stockpiling of topsoil for the contract. Continued hauling and spreading topsoil from the eastern landfill around the southern. Completed seeding topsoil on top of the landfill and down north access road, continued seeding and mulching the southern slope.

SATURDAY 11/03/01 & SUNDAY 11/04/01

NA

INSPECTOR:


Rodd Brinkmann

DATE:

11/2/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	144
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	05-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

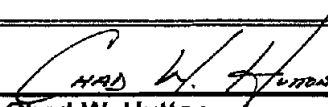
WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Overcast	Sun
Asst. Supr.	0	Electricians	0	Technicians	0	TEMPERATURE	
Operators	12			Surveyor	0	AM	PM
Laborers	0					40 °F	50 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	0	Kobelco 140 Excavator	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	3	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	0	Mulching Equipment	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Toe drain installation was completed at the western access point. TRM placement was continued in the western side-slope swales, along with the start of rip-rap placement west of the existing maintenance building. Shale was hauled and placed east of the existing maintenance building</p>

INSPECTOR:


 Chad W. Hutton

DATE:

11/9/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	145
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	06-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Overcast	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	12			Surveyor	0	AM	PM
Laborers	0					40 °F	50 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	3	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	0	Mulching Equipment	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>TRM placement was continued in the eastern swales, along with the rip-rap placement. The existing underground telephone was exposed and prepared for the overhead placement. The placement of two thirty-six inch culverts was started south of the area 1 removal area.</p>

INSPECTOR:

Chad W. Hutton
Chad W. Hutton

DATE:

11/9/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	146
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	07-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	12			Surveyor	0	AM	PM
Laborers	0					45 °F	50 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	3	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Topsoil placement was resumed on the central portion of the southern slope, along with the seeding and mulching. Rip-rap placement continued along the western side of the landfill, and shale backfill was placed near the culverts installed on 11/06/01.</p>

INSPECTOR: CHAD W. HUTTON DATE: 11/9/01
Chad W. Hutton

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	147
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	08-Nov-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	12			Surveyor	0	AM	PM
Laborers	0					40 °F	50 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	3	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Topsoil placement was continued on the central portion of the southern slope, along with the seeding and mulching. Rip-rap placement was started in the northern portion of the downchute</p>

INSPECTOR: Chad W. Hutton DATE: 11/9/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <i>Remedial Action Landfill Closure</i>	REPORT NO:	148							
OWNER: <i>Cortland County</i>	PROJECT NO:	331.035							
CONTRACTOR: <i>Marcy Excavation, Inc.</i>	DATE:	09-Nov-01							
DAY OF THE WEEK									
<table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px 5px;">S</td> <td style="border: 1px solid black; padding: 2px 5px;">M</td> <td style="border: 1px solid black; padding: 2px 5px;">T</td> <td style="border: 1px solid black; padding: 2px 5px;">W</td> <td style="border: 1px solid black; padding: 2px 5px;">TH</td> <td style="border: 1px solid black; padding: 2px 5px;">F</td> <td style="border: 1px solid black; padding: 2px 5px;">SA</td> </tr> </table>			S	M	T	W	TH	F	SA
S	M	T	W	TH	F	SA			

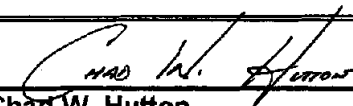
WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Lt. Snow	Lt. Snow
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	12			Surveyor	0	AM	PM
Laborers	0					40 °F	38 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	1
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	3	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Topsoil placement was continued on the central portion of the southern slope, along with the seeding and mulching. Rip-rap placement was continued in the downchute.</p>

INSPECTOR:


Chad W. Hutton

DATE:

11/9/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	30
PROJECT NO:	331.035
WEEK START:	05-Nov-01
WEEK END:	09-Nov-01

MONDAY 11/05/01

Completed toe drain at the western access point to the landfill. Cut/cleaned drainage channels on west side of landfill and lined with rip-rap. Placed and compacted shale to the east of the maintenance building. Started TRM installation in drainage swales on southwest corner of landfill.

TUESDAY 11/06/01

Continued installation of TRM on southwest corner of landfill and placement of rip-rap in drainage channels. Positioned the two 36-inch culverts and prepared area for fill south of area 1 removal site. Exposed underground telephone cable and prepared for overhead installation.

WEDNESDAY 11/07/01

Resumed placing topsoil on central portion of southern slope, along with seeding and mulching. Continued rip-rap placement in open drainage channels along the western side of the landfill. Placed and compacted shale backfill over 36-inch culverts south of removal area 1.

THURSDAY 11/08/01

Topsoil placement was continued on central portion of the southern slope, along with seeding and mulching. Rip-rap placement was started on the top end of the downchute.

FRIDAY 11/09/01

Topsoil placement was continued on central portion of the southern slope, along with seeding and mulching. Rip-rap placement was continued in the downchute.

SATURDAY 11/10/01 & SUNDAY 11/11/01

NA

INSPECTOR:

R. Brinkmann
Rodd Brinkmann

DATE:

11/9/01



IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	149
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	12-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Overcast, snow	P/cloudy
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	9			Surveyor	0	AM	PM
Laborers	0					32 °F	42 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	0
Cat D6R Dozer	0	PC 300 Excavator	0	End Dumps	3	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Continue cleaning out and placing riprap in downchute on southern slope. Shape swales, tying into downchute and spreading topsoil on southern slope. Continue mulching central portion of southern slope. Extend 24-inch culvert near maintenance building and backfill with shale. Backfill across two 36-inch culverts and start construction of roadway to leachate collection area south of removal area 1.</p>

INSPECTOR: R. Brinkmann DATE: 11/12/01
 Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	150
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	13-Nov-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Fine, sunny	same
Asst. Supr.	1	Electricians	0	Technicians	1	TEMPERATURE	
Operators	12			Surveyor	0	AM	PM
Survey	2					40 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	0
Cat D6R Dozer	0	PC 300 Excavator	0	End Dumps	2	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
<p>Complete cleaning out and placing riprap in downchute on southern slope. Continue cleaning out drainage channels and placing riprap along western side of landfill. Complete shaping Type III swales, tying into downchute, spreading topsoil and seeding on southern slope. Continue mulching central portion of southern slope. Continue placing TRM measures in Type III swales. Complete construction of roadway to leachate collection area south of removal area 1. Survey onsite recording information required to produce final as-built information. Antana onsite for final time to repair liner damage.</p>

INSPECTOR: R. Brinkmann DATE: 11/13/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	151
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	14-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	P/Cloudy	same
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	11			Surveyor	0	AM	PM
Survey	2					48 °F	62 °F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	0
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	2	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Complete cleaning out drainage channels and placing riprap along western side of landfill. Continue mulching central portion of southern slope. Start placing riprap in drainage swale below maintenance building. Continue dressing up adjacent mining area, preparing for topsoil. Survey onsite recording information required to produce final as-built information.</p>

INSPECTOR: R. Brinkmann DATE: 11/14/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	152
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	15-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	O/cast, fine	same
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	11			Surveyor	0	AM	PM
Survey	2					48 °F	65 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	1	Kobelco 140 Excavator	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Cat D7H Dozer	1
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	1	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Complete cleaning out drainage channel and placing riprap in drainage channel below maintenance building. Complete mulching central portion of southern slope. Start installing toe drain in last two remaining locations. Placed and compacted 12 inches of shale on roadway extending to the east of the maintenance building. Continue dressing up and spreading topsoil on the adjacent mining area. Cleaned up and prepared eastern stockpile area for topsoil. Survey onsite recording information required to produce final as-built information.</p>

INSPECTOR: R. Brinkmann DATE: 11/15/01
Rodd Brinkmann

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	153
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	16-Nov-01
		DAY OF THE WEEK	
		S	M T W TH F SA

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	O/cast, fine	P/cloudy
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	10			Surveyor	0	AM	PM
Survey	0					58 °F	67 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	1	Smooth Drum Roller	0	Kobelco 140 Excavator	0
Cat D6R Dozer	1	PC 300 Excavator	1	End Dumps	2	Cat D7H Dozer	0
Cat D5 LGP Dozer	1			Water Truck	0	Cat D3 LGP Dozer	1
Deere 330 Excavator	1	Loaders	1	Tractor/Seeder	0	Mulching Equipment	1

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
<p>Complete installation of toe drain and close off southern access to landfill by cutting open drain that extends directly east of maintenance building to settlement ponds and lining with riprap. Continue mulching and seeding various areas surrounding the southwest corner of the landfill. Spread rye seed on various areas on the landfill by hand. Continue dressing up and spreading topsoil on the adjacent mining area.</p>

INSPECTOR:


Rodd Brinkmann

DATE:

11/16/01



IN-HOUSE COORDINATION	
INITIALS	DATE

WEEKLY SUMMARY REPORT

PROJECT NAME:	Remedial Action Landfill Closure
OWNER:	Cortland County
CONTRACTOR:	Marcy Excavation, Inc.

SUMMARY NO:	31
PROJECT NO:	331.035
WEEK START:	12-Nov-01
WEEK END:	16-Nov-01

MONDAY 11/12/01

Continued cleaning out and placing riprap in southern downchute. Continue shaping Type III swales and tie into downchute, spreading topsoil on central portion of southern slope. Extend 24-inch culvert near maintenance building and backfill with shale. Start backfilling across two 36-inch culverts and forming roadway to leachate collection area south of removal area 1.

TUESDAY 11/13/01

Complete cleaning out and placing riprap in downchute on southern slope. Continue cleaning out and placing riprap in drainage channels along western side of landfill. Complete shaping Type III swales, tying into downchute and seeding the southern slope. Complete construction of roadway to leachate area south of removal area 1. Continue mulching the southern slope and installing TRM in the Type III swales.

WEDNESDAY 11/14/01

Complete placing riprap in drainage channels on western side of landfill, start placing riprap in drainage area south of maintenance building. Continue dressing up adjacent mining area with topsoil, and mulching southern slope of landfill.

THURSDAY 11/15/01

Complete cleaning out and placing riprap in drainage area south of maintenance building, and mulching southern slope of landfill. Compacted and extra 12 inches of shale, extending roadway east of maintenance building. Continue dressing up and spreading topsoil on adjacent mining area. Cleaned up and prepared eastern stockpile area for topsoil. Start installing composite toe drain in remaining areas.

FRIDAY 11/16/01

Continue mulching and seeding various areas on the southwest corner of the landfill. Complete installation of toe drain and cut drainage channel to settlement pond east of maintenance building, lining with riprap. Continue dressing up and spreading topsoil on adjacent mining area.

SATURDAY 11/17/01 & SUNDAY 11/18/01

NA

INSPECTOR:

R. Brinkmann
Rodd Brinkmann

DATE:

11/16/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	154
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	19-Nov-01
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	0	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	4			Surveyor	0	AM	PM
Survey	0					50 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	0	Smooth Drum Roller	0	Kobelco 140 Excavator	0
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	2	Cat D7H Dozer	1
Cat D5 LGP Dozer	0			Water Truck	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	0	Tractor/Seeder	0	Mulching Equipment	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
Reclamation of the borrow areas continued today, along with topsoil placement in the adjacent borrow area to the site.

INSPECTOR:


Chad W. Hutton

DATE:

11/19/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO.:	155
OWNER:	Cortland County	PROJECT NO.:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	20-Nov-01
		DAY OF THE WEEK	
		S	M T W TH F SA

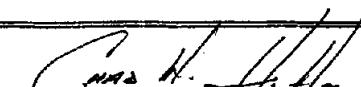
WORK FORCE						WEATHER	
Marcy:		Bagnell Electric:		Antana Linings:		AM	PM
Supr.	1	Supr.	0	Supr.	0	Sun	Sun
Asst. Supr.	1	Electricians	0	Technicians	0	TEMPERATURE	
Operators	4			Surveyor	0	AM	PM
Survey	0					50 °F	60 °F

EQUIPMENT USED							
Cat D8K Dozers	1	Hitachi 330 Excavator	0	Smooth Drum Roller	0	Kobelco 140 Excavator	0
Cat D6R Dozer	1	PC 300 Excavator	0	End Dumps	2	Cat D7H Dozer	1
Cat D5 LGP Dozer	0			Water Truck	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	1	Loaders	0	Tractor/Seeder	0	Mulching Equipment	0

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Reclamation of the borrow areas continued today, along with topsoil placement in the adjacent borrow area to the site.</p>

INSPECTOR:


 Chad W. Hutton

DATE:

11/20/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <i>Remedial Action Landfill Closure</i>	REPORT NO:	156
OWNER: <i>Cortland County</i>	PROJECT NO:	331.035
CONTRACTOR: <i>Marcy Excavation, Inc.</i>	DATE:	06-Dec-01
DAY OF THE WEEK:		
S	M	T
W	TH	F
SA		

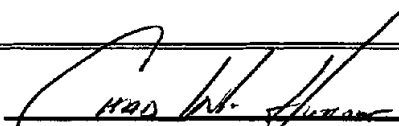
WORKFORCE						WEATHER	
Marcy:						AM	PM
Supr.	2					Overcast	
Asst. Supr.	0						
Operators	0					AM	PM
Survey	0					50 °F	°F

EQUIPMENT USED							
Cat D8K Dozers	0	Hitachi 330 Excavator	0	Smooth Drum Roller	0	Kobelco 140 Excavator	0
Cat D6R Dozer	0	PC 300 Excavator	0	End Dumps	0	Cat D7H Dozer	0
Cat D5 LGP Dozer	0			Water Truck	0	Cat D3 LGP Dozer	0
Deere 330 Excavator	0	Loaders	0	Tractor/Seeder	0	Mulching Equipment	0

MAINTENANCE & PROTECTION OF TRAFFIC:
N.A.

DESCRIPTION OF WORK ACCOMPLISHED:
<p>The substantial completion site inspection was completed today. The punch list items were identified, and are being sent to Marcy Excavation Inc.. Major items identified were vegetation establishment, toe drain work, and holding tank floats. Following this inspection Marcy Excavation can provide finalized material warranties.</p>

INSPECTOR:


Chad W. Hutton

DATE:

12/6/01

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	157
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	17-Apr-02
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	0						
Operators	1					AM	PM
Labor	2					70 °F	85 °F

EQUIPMENT USED							
CAT 307 Excavator	1						
Komatsu PC 300	0						
Cat D5 LGP Dozer	0						
Mack O.T.R. Dump	0						

MAINTENANCE & PROTECTION OF TRAFFIC: N.A.

DESCRIPTION OF WORK ACCOMPLISHED: An additional visual inspection of the composite geonet seams was completed today. NYSDEC was on-site for the inspection, and all seams inspected were found acceptable. Two areas on the southern slope were excavated and a total of approximately 200 lf of seam was inspected along with two end seams. Following the work on the seams, Marcy worked a the remaining punch list work. Removal of the Type 1 geotextile from the toe drain was started south of the existing maintenance building.

INSPECTOR: Chad W. Hutton DATE: 4/17/02

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	158
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	18-Apr-02
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORKFORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					Sun	Sun
Asst. Supr.	0						
Operators	1					AM	PM
Labor	2					70 °F	85 °F

EQUIPMENT USED							
CAT 307 Excavator	1						
Komatsu PC 300	0						
Cat D5 LGP Dozer	0						
Mack O.T.R. Dump	0						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>An additional visual inspection of the composite geonet seams was completed today. NYSDEC was on-site for the inspection, and all seams inspected were found acceptable. Two areas on the southern slope were excavated and a total of approximately 200 l/f of seam was inspected along with two end seams. Following the work on the seams, Marcy worked a the remaining punch list work. Removal of the Type 1 geotextile from the toe drain was started south of the existing maintenance building.</p>

INSPECTOR: Chad W. Hutton DATE: 4/18/02

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	159
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	19-Apr-02
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORK FORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					—	sun
Asst. Supr.	0						
Operators	1					AM	PM
Labor	2					— °F	75 °F

EQUIPMENT USED							
CAT 307 Excavator	1						
Komatsu PC 300	1						
Cat D5 LGP Dozer	1						
Mack O.T.R. Dump	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>300 l/f of rip-rap was placed in the swale at the toe of the western slope. Additional topsoil was placed along the berm at the toe of the western slope of the landfill. Geotextile covering the toe drain along the western slope was removed.</p>

INSPECTOR: Chad W. Hutton DATE: 4/19/02

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <i>Remedial Action Landfill Closure</i>	REPORT NO: 160	
OWNER: <i>Cortland County</i>	PROJECT NO: 331.035	
CONTRACTOR: <i>Marcy Excavation, Inc.</i>	DATE: 22-Apr-02	
DAY OF THE WEEK		
S M T W TH F SA		

WORKFORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					--	It rain
Asst. Supr.	0						
Operators	1					AM	PM
Labor	0					-- °F	50 °F

EQUIPMENT USED							
CAT 307 Excavator	1						
Komatsu PC 300	1						
Cat D5 LGP Dozer	1						
Mack O.T.R. Dump	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy was hauling and placing topsoil west of the berm at the toe of the western slope. Topsoil was being hauled from topsoil stockpile remaining from fall 2001 construction.</p>

INSPECTOR:

Chad W. Hutton
Chad W. Hutton

DATE:

4/22/02

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME: <i>Remedial Action Landfill Closure</i>	REPORT NO: 161
OWNER: <i>Cortland County</i>	PROJECT NO: 331.035
CONTRACTOR: <i>Marcy Excavation, Inc.</i>	DATE: 23-Apr-02
DAY OF THE WEEK	
S M T W TH F SA	

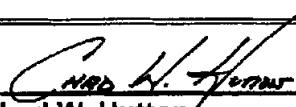
WORKFORCE					WEATHER	
Marcy:					AM	PM
Supr.	1				---	overcast
Asst. Supr.	0					
Operators	1				AM	PM
Labor	0				--- °F	50 °F

EQUIPMENT USED							
CAT 307 Excavator	1						
Komatsu PC 300	1						
Cat D5 LGP Dozer	1						
Mack O.T.R. Dump	1						

MAINTENANCE & PROTECTION OF TRAFFIC N.A.

DESCRIPTION OF WORK ACCOMPLISHED Marcy was hauling and placing topsoil west of the berm at the toe of the western slope. Topsoil was being hauled from topsoil stockpile remaining from fall 2001 construction.

INSPECTOR:


 Chad W. Hutton

DATE:

4/23/02

IN-HOUSE COORDINATION	
INITIALS	DATE

INSPECTOR'S REPORT

PROJECT NAME:	Remedial Action Landfill Closure	REPORT NO:	162
OWNER:	Cortland County	PROJECT NO:	331.035
CONTRACTOR:	Marcy Excavation, Inc.	DATE:	23-Apr-02
		DAY OF THE WEEK	
		S	M
		T	W
		TH	F
		SA	

WORKFORCE						WEATHER	
Marcy:						AM	PM
Supr.	1					---	sun
Asst. Supr.	0						
Operators	1					AM	PM
Labor	2					-- °F	60 °F

EQUIPMENT USED							
CAT 307 Excavator	1						
Komatsu PC 300	1						
Cat D5 LGP Dozer	1						
Mack O.T.R. Dump	1						

MAINTENANCE & PROTECTION OF TRAFFIC
N.A.

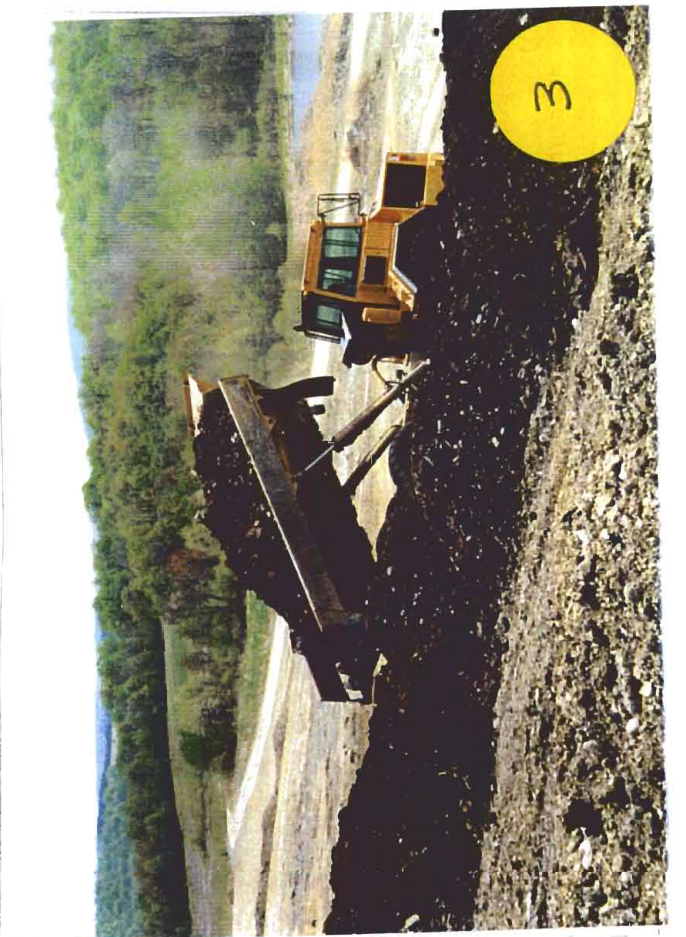
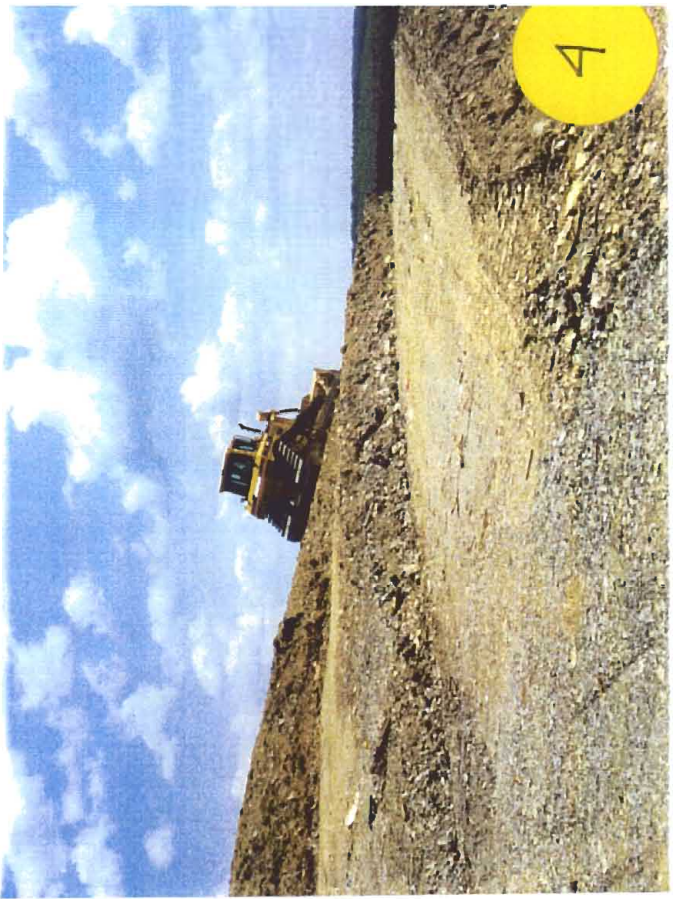
DESCRIPTION OF WORK ACCOMPLISHED
<p>Marcy was hauling and placing topsoil west of the berm at the toe of the western slope. Topsoil was being hauled from topsoil stockpile remaining from fall 2001 construction. Mulching was started on the topsoil following the completion of the seeding.</p>

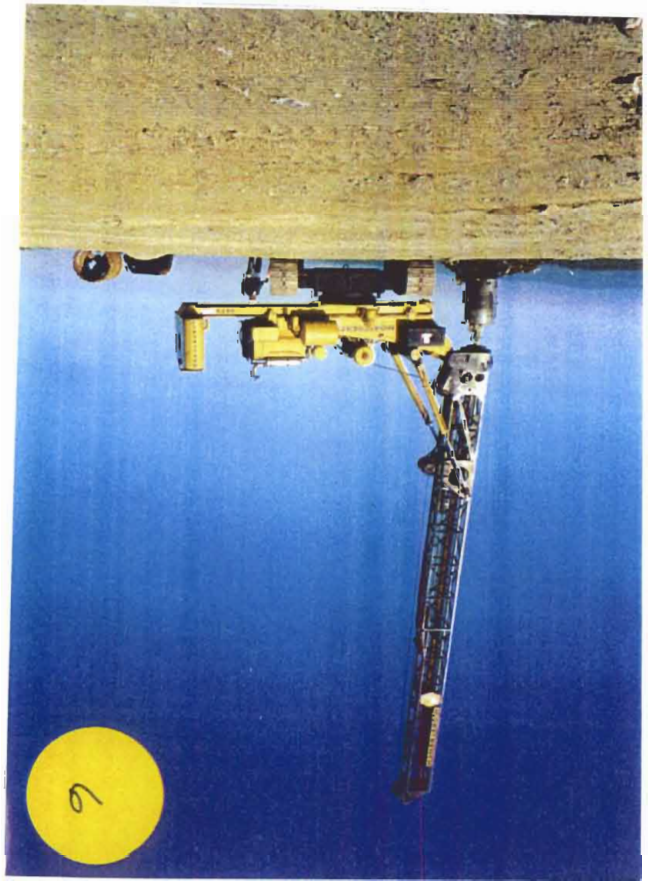
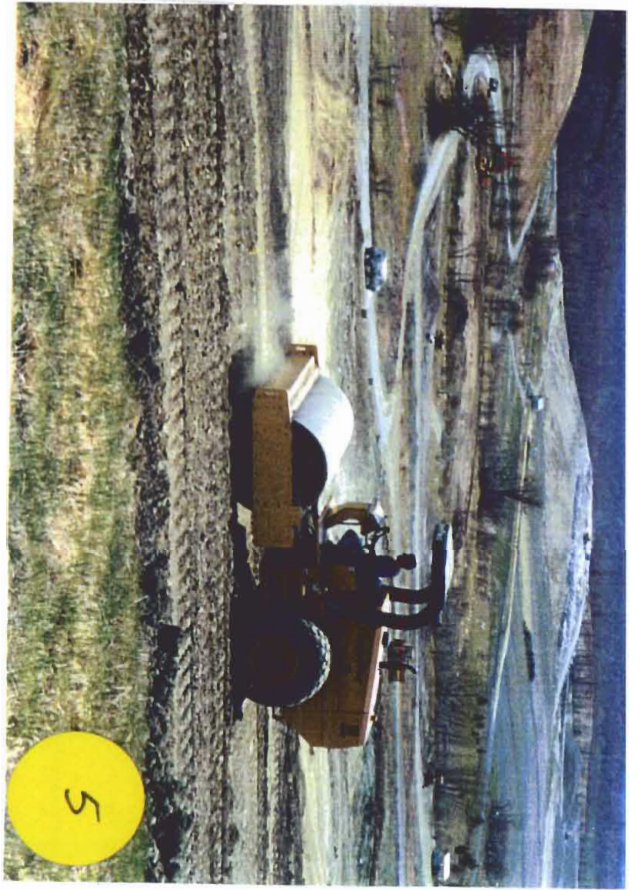
INSPECTOR: Chad W. Hutton DATE: 4/23/02

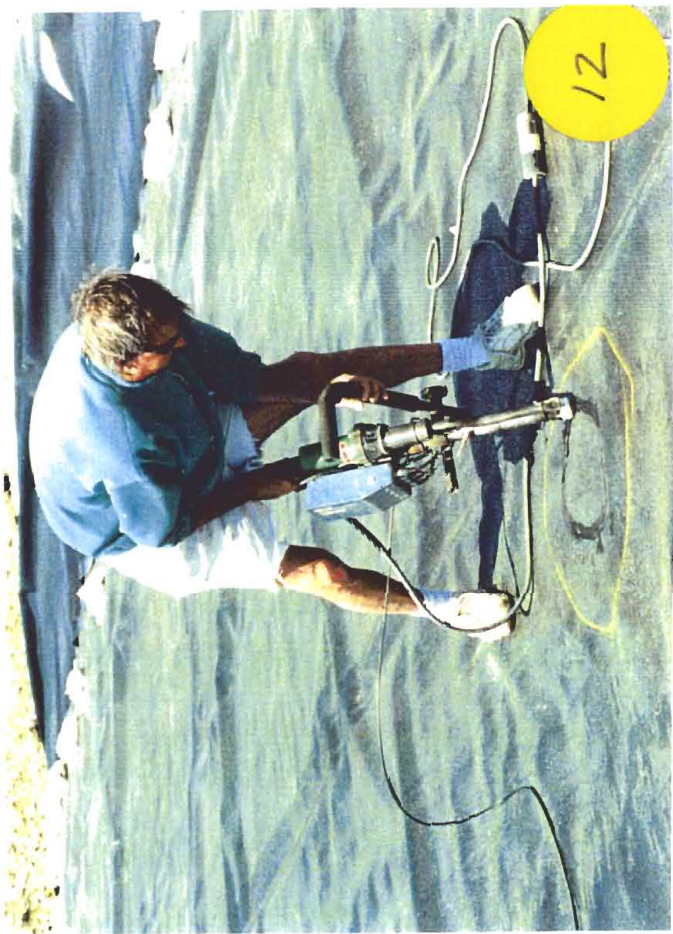
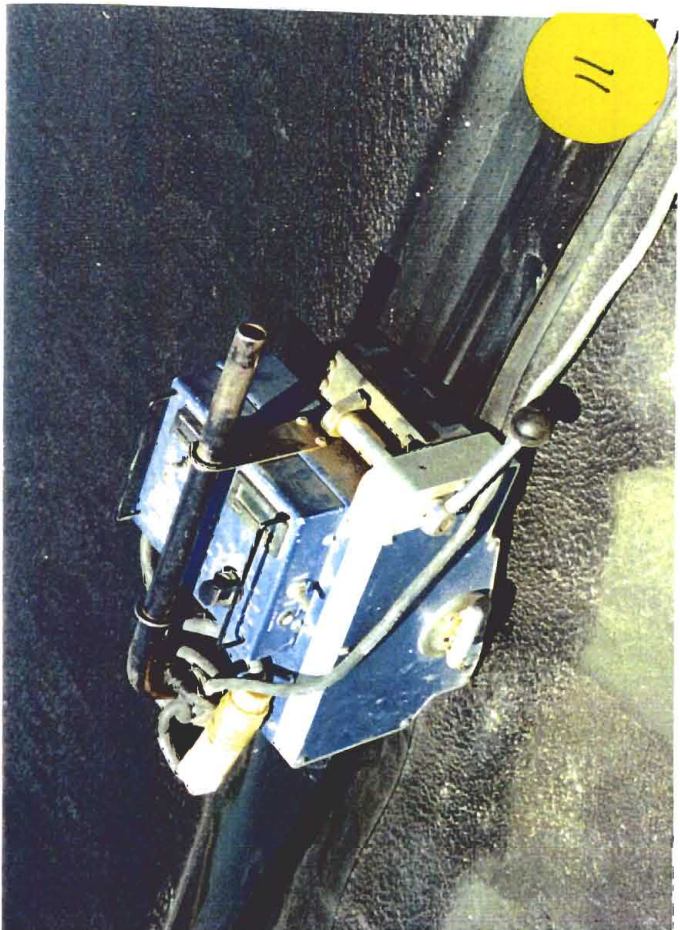
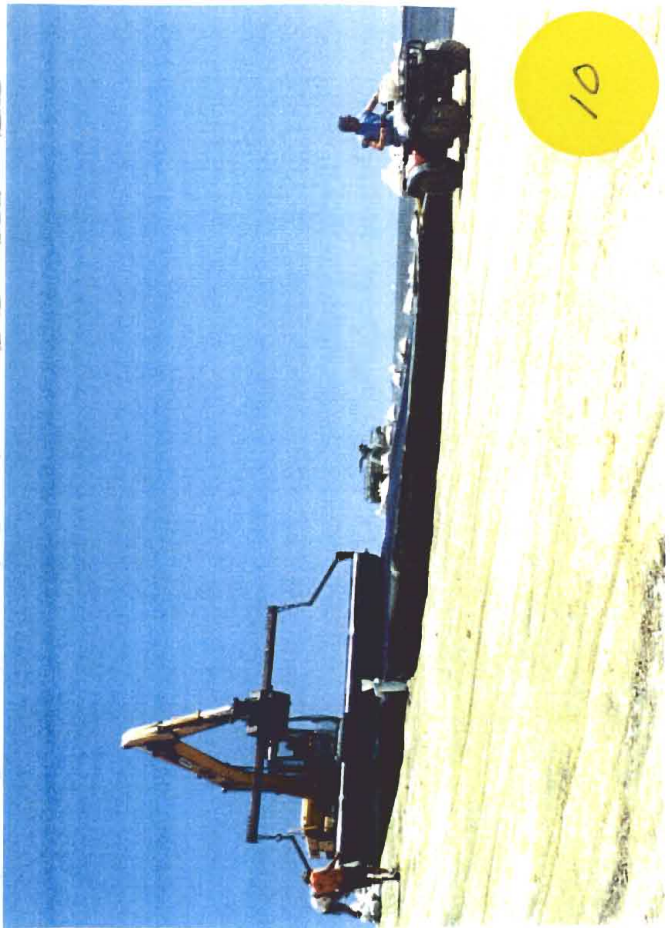
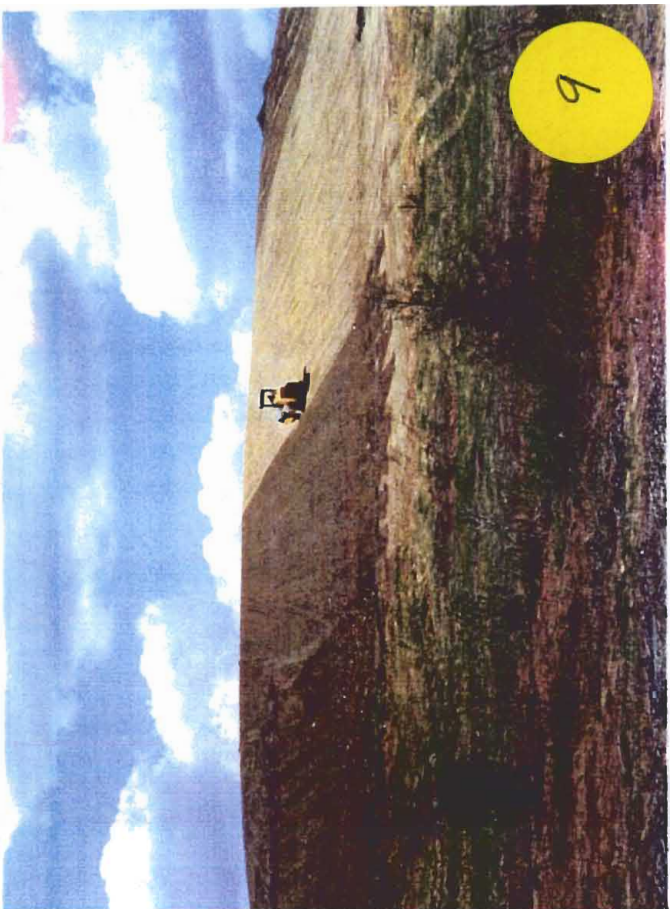
Appendix E
Construction Photographs

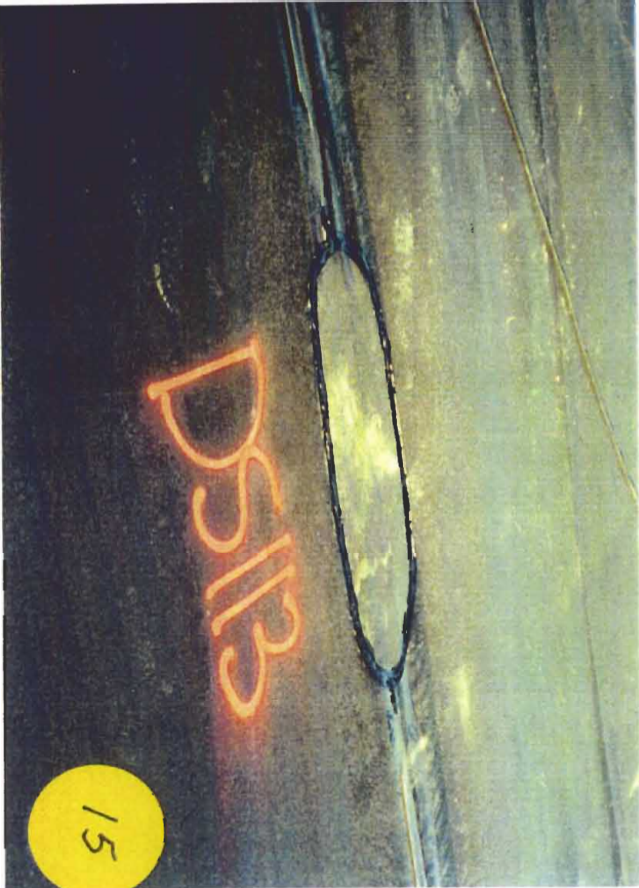
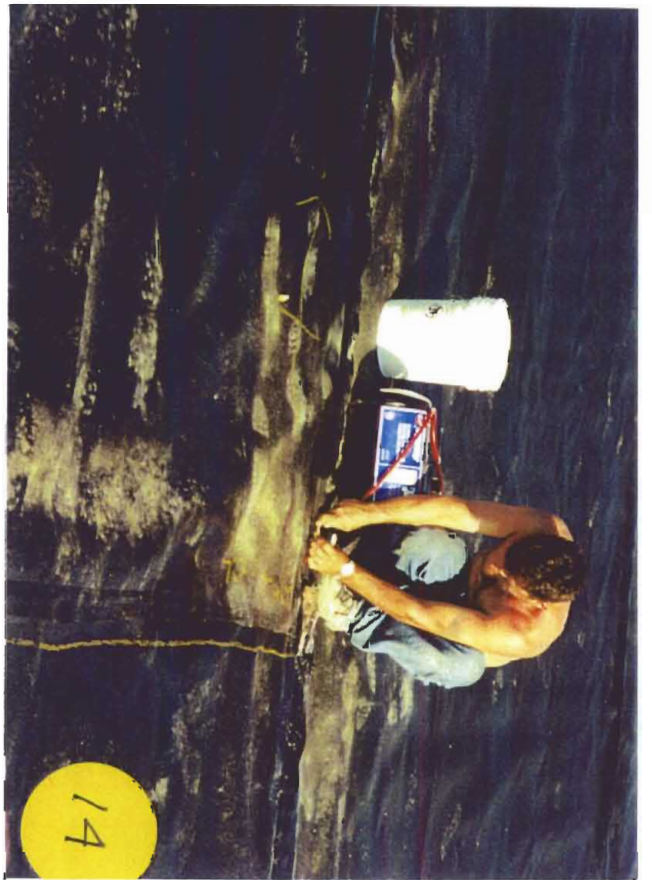
Photograph Log

1. Topsoil Removal
2. Waste Excavation
3. Waste Relocation
4. Waste Placement
5. Waste Compaction
6. Gas Well Drilling
7. Gas Vent Installation
8. Anchor Trench Excavation
9. Subgrade Compaction
10. Panel Deployment
11. Wedge Welding
12. Extrusion Welding A Patch
13. Gas Migration Trench Lining
14. Air-Pressure Testing A Seam
15. Repaired Destructive Sample
16. Banding A Gas Vent
17. Screening Common Fill Material
18. Hauling Common Fill
19. Grading Common Fill
20. Compacting Barrier Protection Material
21. Installing Gas Well Tee
22. Constructing Lateral Drainage Underdrain
23. Compacting Surface Water Swale
24. Installing Toe of Slope Drain
25. Perimeter Swale Re-Alignment
26. Excavating For Utility Pole
27. Installing Rip-Rap in Downchute
28. Placing Topsoil
29. Seeding
30. Mulching
31. Access Roadway Removal
32. Completed Perimeter Stormwater Swale

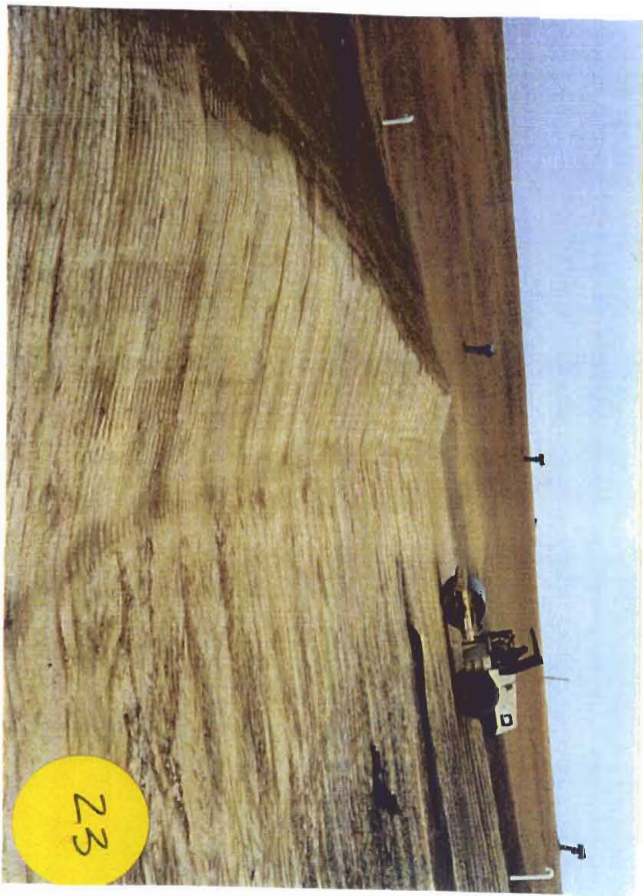


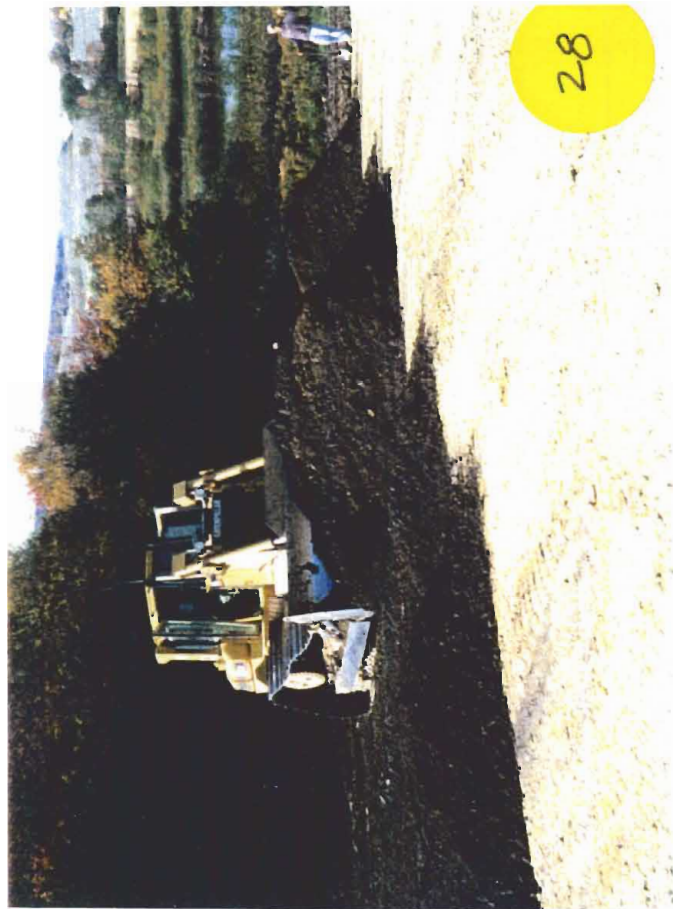
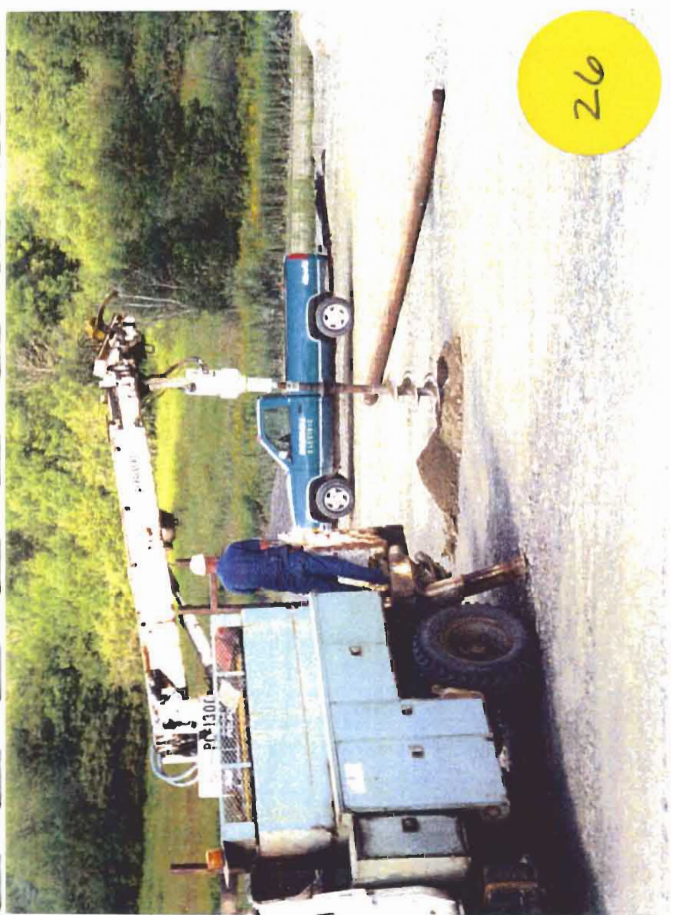














29



30



31



32