RUST Rust Environment & Infrastructure Inc.

A Rust International Company
15 Brendan Way
Greenville, SC 29615
P.O. Box 24000
Greenville, SC 29616

Phone 803.234.3000
Fax 803.234.3069

April 3, 1996

Ms. Sherry Knight
Ground Water Section - Well Construction Standards
North Carolina Department of Environmental Health
585 Waughton Street
Winston-Salem, North Carolina 27107

Fac/Perm/Co ID #	Date	Doc ID#
3406	7/22/2011	DIN 19511

Subject: Well Completion Records
Piezometer Installations
Waste Management - Carolinas
Kernersville, North Carolina

Dear Ms. Knight:

Enclosed are the completed Well Completion Records for the twenty-eight piezometers installed for Waste Management - Carolinas. Also enclosed is a site map for the piezometer installations.

If you have any questions regarding this project, please feel free to call me at 864/234-2306.

Sincerely,

Frank H. Farmer
Task Manager

cc: Mr. Bobby Lutfy - NC Dept. Health and Natural Resources
Ms. Kimberly Mathes - Forsyth County Division of Environmental Health
Mr. Edward L. Gibson, Waste Management - Carolinas
Project File

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

COMPLETE ALL INFORMATION REQUESTED BELOW FOR EACH WELL INSTALLED, AND RETURN FORM TO N.C. DEPARTMENT OF HUMAN RESOURCES, SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH P.O. BOX 2091, RALEIGH, N.C. 27602

NAME OF SITE:	PERMIT NO.:
Waste Management-Carolinas	N/A
ADDRESS:	OWNER (print):
9900 Freeman Road, Kernersville, NC 27284	Waste Management-Carolinas
DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from 53.9 to Surface ft. dia. _____ in.

Casing Depth: from 0 to 59.7 ft. dia. 2 in. **Bentonite Seal:** from 55.4 to 57.9 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 57.9 to 65 ft. dia. _____ in.

Screen Depth: from 59.7 to 64.7 ft. dia. 2 in. **Total Well Depth:** from 65.0 to _____ ft. dia. _____ in.

Static Water Level: 54.39 feet from top of casing **Well ID** P-1 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0.0	5	Poorly Graded Sand with Silt and Gravel
5.0	16.5	Silty Sand
16.5	20	Poorly Graded Sand With Silt
20	50	Silty Sand
50	55	Poorly Graded Sand With Silt
55	65	Silty Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 63 ft. dia. _____ in.

Casing Depth: from 0 to 86.7 ft. dia. 2 in. **Bentonite Seal:** from 64.0 to 68.0 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 68.9 to 92.0 ft. dia. _____ in.

Screen Depth: from 86.7 to 91.7 ft. dia. 2 in. **Total Well Depth:** from _____ to 92.0 ft. dia. _____ in.

Static Water Level: 54.59 feet from top of casing **Well ID** P-1D **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
		For Soil Lithology please refer to Boring P-1
71.8	92	Gneiss

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 12.10 ft. dia. _____ in.

Casing Depth: from 0 to 22.50 ft. dia. 2 in. **Bentonite Seal:** from 12.10 to 15.91 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 15.91 to 28 ft. dia. _____ in.

Screen Depth: from 22,59 to 27.5 ft. dia. 2 in. **Total Well Depth:** from 28.0 to _____ ft. dia. _____ in.

Static Water Level: 23.60 feet from top of casing **Well ID** P-2 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	10	Silty Clay With Sand
10	14	Silty Sand
14	19	Poorly Graded Sand
19	28	Quartz and Horneblende

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: Josh K Farmer

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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9900 Freeman Road, Kernersville, NC 27284	Waste Management-Carolinas
DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from N/A to ____ ft. dia. ____ in.

Casing Depth: from 0 to 65.60 ft. dia. 2 in. **Bentonite Seal:** from Surface to 5.0 ft. dia. ____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 6.0 to 71 ft. dia. ____ in.

Screen Depth: from 65.60 to 70.60 ft. dia. 2 in. **Total Well Depth:** from ____ to 71 ft. dia. ____ in.

Static Water Level: 50.39 feet from top of casing **Well ID** P-3 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** ____ **Casing is** ____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	1	Poorly Graded Sand With Silt and Clay
1	7.5	Silty Sand
7.5	71	Gneiss

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: Jack H Farmer

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from ____ to ____ ft. dia. ____ in.

Casing Depth: from 0 to 51.48 ft. dia. 2 in. **Bentonite Seal:** from ____ to ____ ft. dia. ____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from ____ to ____ ft. dia. ____ in.

Screen Depth: from 51.48 to 56.48 ft. dia. 2 in. **Total Well Depth:** from ____ to ____ ft. dia. ____ in.

Static Water Level: 51.85 feet from top of casing **Well ID** P-4 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** ____ **Casing is** ____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	27.5	Silty Sand
27.5	56.98	Gneiss

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 **SIGNATURE:** Josh Farmer

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

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NAME OF SITE:	PERMIT NO.:
Waste Management-Carolinas	N/A
ADDRESS: 9900 Freeman Road, Kernersville, NC 27284	OWNER (print): Waste Management-Carolinas
DRILLING CONTRACTOR: Graham & Currie Diversified Drilling	**REGISTRATION NO.** 537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 45.20 ft. dia. _____ in.

Casing Depth: from 0 to 57.33 ft. dia. 2 in. **Bentonite Seal:** from 45.20 to 50.45 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 50.45 to 62.83 ft. dia. _____ in.

Screen Depth: from 57.33 to 62.33 ft. dia. 2 in. **Total Well Depth:** from 62.83 to _____ ft. dia. _____ in.

Static Water Level: 52.14 feet from top of casing **Well ID** P-5 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	2	Silty Sand
2	4	Poorly Graded Sand
4	4.5	Silty Sand
4.5	62.83	Bedrock

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 **SIGNATURE:** Jack H Jarman

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

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NAME OF SITE:	PERMIT NO.:
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ADDRESS:	OWNER (print):
9900 Freeman Road, Kernersville, NC 27284	Waste Management-Carolinas
DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. Grout Depth: from Surface to 32.30 ft. dia. ____ in.

Casing Depth: from Surface to 51.20 ft. dia. 2 in. Bentonite Seal: from 33.1 to 36.4 ft. dia. ____ in.

Screen Type: Sch 40 PVC dia. 2 in. Sand/Gravel PK: from 36.4 to 56.5 ft. dia. ____ in.

Screen Depth: from 51.20 to 56.20 ft. dia. 2 in. Total Well Depth: from 56.50 to ____ ft. dia. ____ in.

Static Water Level: 52.96 feet from top of casing Well ID P-6 Date Measured 3/14/96

Field (gpm): N/A Method of Testing: ____ Casing is ____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	5	Poorly Graded Sand With Silt and Gravel
5	46.5	Poorly Graded Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: Jack H Farmer

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in.
Casing Depth: from Surface to 46.5 ft. dia. 2 in.
Screen Type: Sch 40 PVC dia. 2 in.
Screen Depth: from 46.5 to 51.5 ft. dia. 2 in.

Grout Depth: from Surface to 31.0 ft. dia. _____ in.
Bentonite Seal: from 32.5 to 44.5 ft. dia. _____ in.
Sand/Gravel PK: from 44.5 to 51.5 ft. dia. _____ in.
Total Well Depth: from 51.5 to _____ ft. dia. _____ in.

Static Water Level: 32.10 feet from top of casing Well ID P-7 Date Measured 3/14/96

Field (gpm): N/A Method of Testing: _____ Casing is _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	11	Silty Sand
11	43	Poorly Graded Sand
43	51.5	Sand Silt

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: John H. Garner

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

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NAME OF SITE:	PERMIT NO.:
Waste Management-Carolinas	N/A
ADDRESS: 9900 Freeman Road, Kernersville, NC 27284	OWNER (print): Waste Management-Carolinas
DRILLING CONTRACTOR: Graham & Currie Diversified Drilling	**REGISTRATION NO.** 537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 49.40 ft. dia. _____ in.

Casing Depth: from Surface to 66.39 ft. dia. 2 in. **Bentonite Seal:** from 49.40 to 59.57 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 59.57 to 71.89 ft. dia. _____ in.

Screen Depth: from 66.39 to 71.39 ft. dia. 2 in. **Total Well Depth:** from 71.89 to _____ ft. dia. _____ in.

Static Water Level: 32.71 feet from top of casing **Well ID** P-7D **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
		For Soil Lithology refer to P-7 Boring Log.
35	71.89	Bedrock

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

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NAME OF SITE:	PERMIT NO.:
Waste Management-Carolinas	N/A
ADDRESS: 9900 Freeman Road, Kernersville, NC 27284	OWNER (print): Waste Management-Carolinas
DRILLING CONTRACTOR: Graham & Currie Diversified Drilling	**REGISTRATION NO.** 537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to _____ ft. dia. _____ in.

Casing Depth: from Surface to 26.1 ft. dia. 2 in. **Bentonite Seal:** from 19.3 to 22.3 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 22.3 to 31.4 ft. dia. _____ in.

Screen Depth: from 26.1 to 31.1 ft. dia. 2 in. **Total Well Depth:** from 31.4 to _____ ft. dia. _____ in.

Static Water Level: 9.75 feet from top of casing **Well ID** P-8 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	TO	FORMATION DESCRIPTION
0	5	Silt with Sand
5	10	Clay with Silt
10	15	Silt with Sand
15	25	Silt with Clay
25	31.0	Silt

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 13.6 ft. dia. _____ in.

Casing Depth: from Surface to 21.5 ft. dia. 2 in. **Bentonite Seal:** from 15.7 to 18.7 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 18.7 to 27.0 ft. dia. _____ in.

Screen Depth: from 21.5 to 26.5 ft. dia. 2 in. **Total Well Depth:** from 27.0 to _____ ft. dia. _____ in.

Static Water Level: 8.71 feet from top of casing **Well ID** P-9 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	2	Silty Sand
2	4	Poorly Graded Sand
4	9	Silty Sand
9	19	Clayey Sand
19	27	Silty Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: Jack Farmer

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from _____ to _____ ft. dia. _____ in.

Casing Depth: from Surface to 21.2 ft. dia. 2 in. **Bentonite Seal:** from _____ to _____ ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from _____ to _____ ft. dia. _____ in.

Screen Depth: from 21.2 to 26.2 ft. dia. 2 in. **Total Well Depth:** from _____ to _____ ft. dia. _____ in.

Static Water Level: 15.52 feet from top of casing **Well ID** P-10 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	10	Sandy Silt with Clay
10	20	Clayey Sand
20	25	Sandy Clay/Clayey Sand
25	26.5	Poorly Graded Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 21.5 ft. dia. _____ in.

Casing Depth: from Surface to 28.0 ft. dia. 2 in. **Bentonite Seal:** from 23.3 to 26.0 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 26.0 to 33.2 ft. dia. _____ in.

Screen Depth: from 28.0 to 3.0 ft. dia. 2 in. **Total Well Depth:** from 33.2 to _____ ft. dia. _____ in.

Static Water Level: 15.91 feet from top of casing **Well ID** P-11 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	2.5	Silty Sand
2.5	8	Clayey Sand
8	20	Poorly Graded Sand wi th Silt
20	33.2	Silty Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 **SIGNATURE:** _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 20.04 ft. dia. _____ in.

Casing Depth: from Surface to 49.31 ft. dia. 2 in. **Bentonite Seal:** from 17.50 to 20.82 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 20.82 to 54.31 ft. dia. _____ in.

Screen Depth: from 49.31 to 54.31 ft. dia. 2 in. **Total Well Depth:** from 54.31 to _____ ft. dia. _____ in.

Static Water Level: 54.91 feet from top of casing **Well ID** P-12 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
0	10	Clayey Sand
10	23.7	Silty Sand
23.7	26	Granite Gneiss
26	35	Horneblende Gneiss
25	45	Chlorite Gneiss
45	54.31	Granite Gneiss

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 13.2 ft. dia. _____ in.

Casing Depth: from 0 to 21.5 ft. dia. 2 in. **Bentonite Seal:** from 14.7 to 18.3 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 18.3 to 27 ft. dia. _____ in.

Screen Depth: from 21.5 to 26.5 ft. dia. 2 in. **Total Well Depth:** from 27 to _____ ft. dia. _____ in.

Static Water Level: 14.06 feet from top of casing **Well ID** P-13 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	TO	FORMATION DESCRIPTION
Surface	4	Silty Sand
4	9	Silty Clay
9	27	Silty Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

WELL COMPLETION RECORD

COMPLETE ALL INFORMATION REQUESTED BELOW FOR EACH WELL INSTALLED, AND RETURN FORM TO N.C. DEPARTMENT OF HUMAN RESOURCES, SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH P.O. BOX 2091, RALEIGH, N.C. 27602

NAME OF SITE:	PERMIT NO.:
Waste Management-Carolinas	N/A
ADDRESS:	OWNER (print):
9900 Freeman Road, Kernersville, NC 27284	Waste Management-Carolinas
DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 27.33 ft. dia. _____ in.

Casing Depth: from 0 to 33.25 ft. dia. 2 in. **Bentonite Seal:** from 28.0 to 30.75 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 30.75 to 38.5 ft. dia. _____ in.

Screen Depth: from 33.25 to 38.25 ft. dia. 2 in. **Total Well Depth:** from 38.5 to _____ ft. dia. _____ in.

Static Water Level: 7.08 feet from top of casing **Well ID** P-14 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface	2.0	Silt with Sand
2.0	7.0	clay with Silt andSand
7.0	12	Silt with Sand
12	17	Silt with Clay
17	32	Silt
32	38.5	Silty Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 5.0 ft. dia. _____ in.

Casing Depth: from 0 to 9.9 ft. dia. 2 in. **Bentonite Seal:** from 6.25 to 7.9 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 7.9 to 15.1 ft. dia. _____ in.

Screen Depth: from 9.9 to 14.9 ft. dia. 2 in. **Total Well Depth:** from 15.1 to _____ ft. dia. _____ in.

Static Water Level: 6.65 feet from top of casing **Well ID** P-14S **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface	2	Silt with Sand
2	7	Clay with Silt and Sand
7	12	Silt with Sand
12	17	Silt with Clay
17	32	Silt
32	36.5	Silty Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 9/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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NAME OF SITE: Waste Management-Carolinas	**PERMIT NO.:** N/A
ADDRESS: 9900 Freeman Road, Kernersville, NC 27284	OWNER (print): Waste Management-Carolinas
DRILLING CONTRACTOR: Graham & Currie Diversified Drilling	**REGISTRATION NO.** 537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 40.0 ft. dia. ____ in.

Casing Depth: from 0 to 46.4 ft. dia. 2 in. **Bentonite Seal:** from 41.0 to 44.2 ft. dia. ____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 44.2 to 51.7 ft. dia. ____ in.

Screen Depth: from 46.4 to 51.5 ft. dia. 2 in. **Total Well Depth:** from 51.7 to ____ ft. dia. ____ in.

Static Water Level: 4.58 feet from top of casing **Well ID** P-15 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** ____ **Casing is** ____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface	2	Sand
2	7	Clay andClay with Silt
7	12	Clay with Silt and Sand
12	17	Silt with Sand and Clay
`17	26	Sand
26	37	Silt with Sand
37	50	Silt with Clay
50	51.7	Silt with Clay and Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: [signature]

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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NAME OF SITE:	PERMIT NO.:
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ADDRESS:	OWNER (print):
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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 29 ft. dia. ____ in.

Casing Depth: from 0 to 37.2 ft. dia. 2 in. **Bentonite Seal:** from 30 to 32 ft. dia. ____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 32 to 42.5 ft. dia. ____ in.

Screen Depth: from 37.2 to 42.2 ft. dia. 2 in. **Total Well Depth:** from 42.5 to ____ ft. dia. ____ in.

Static Water Level: 30.78 feet from top of casing **Well ID** P-16 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** ____ **Casing is** ____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface	5	Clayey Sand
5	42.5	Poorly Graded Sand with Silt

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: [signature]

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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NAME OF SITE:	PERMIT NO.:
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ADDRESS:	OWNER (print):
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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 45.85 ft. dia. _____ in.

Casing Depth: from 0 to 52.3 ft. dia. 2 in. **Bentonite Seal:** from 46.76 to 48.84 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 48.84 to 57.80 ft. dia. _____ in.

Screen Depth: from 52.30 to 57.30 ft. dia. 2 in. **Total Well Depth:** from 57.80 to _____ ft. dia. _____ in.

Static Water Level: 43.89 feet from top of casing **Well ID** P-17 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	TO	FORMATION DESCRIPTION
Surface	39	Silty Sand
39	54	Well Graded Sandwith Silt
54	57.8	Well Graded Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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ADDRESS:	OWNER (print):
9900 Freeman Road, Kernersville, NC 27284	Waste Management-Carolinas
DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 70.70 ft. dia. _____ in.

Casing Depth: from 0 to 76.98 ft. dia. 2 in. **Bentonite Seal:** from 70.70 to 73.42 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 73.42 to 82.48 ft. dia. _____ in.

Screen Depth: from 76.98 to 81.98 ft. dia. 2 in. **Total Well Depth:** from 82.48 to _____ ft. dia. _____ in.

Static Water Level: 8.67 feet from top of casing **Well ID** P-18 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	TO	FORMATION DESCRIPTION
Surface	4.5	Silty Sand
4.5	7.5	Silty Sand and Clay
7.5	9.5	Poorly Graded Sand
9.5	79.0	Silty Sand
79.0	82.48	Poorly Graded Sand

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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NAME OF SITE:	PERMIT NO.:
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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 74.53 ft. dia. _____ in.

Casing Depth: from 0 to 84.10 ft. dia. 2 in. **Bentonite Seal:** from 74.53 to 78.20 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 78.20 to 89.60 ft. dia. _____ in.

Screen Depth: from 84.10 to 89.60 ft. dia. 2 in. **Total Well Depth:** from 89.60 to _____ ft. dia. _____ in.

Static Water Level: 85.54 feet from top of casing **Well ID** P-19 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface	9.0	Silty Sand
9.0	34.0	Poorly Graded Sand
34.0	82	Well Graded Sand
82	89.6	Bedrock

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: _____

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 26.2 ft. dia. _____ in.

Casing Depth: from 0 to 31.4 ft. dia. 2 in. **Bentonite Seal:** from 27.2 to 30.0 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 30.0 to 37 ft. dia. _____ in.

Screen Depth: from 31.4 to 36.4 ft. dia. 2 in. **Total Well Depth:** from 37 to _____ ft. dia. _____ in.

Static Water Level: 11.49 feet from top of casing **Well ID** P-20 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface	5.0	Lean Clay
5.0	15.4	Silt with Sand
15.4	35	Silty Sand
35	37	Silty Sand with Gravel

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 **SIGNATURE:** Jack L Farmer

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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NAME OF SITE: Waste Management-Carolinas	**PERMIT NO.:** N/A
ADDRESS: 9900 Freeman Road, Kernersville, NC 27284	OWNER (print): Waste Management-Carolinas
DRILLING CONTRACTOR: Graham & Currie Diversified Drilling	**REGISTRATION NO.** 537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 23.51 ft. dia. ____ in.

Casing Depth: from 0 to 37.52 ft. dia. 2 in. **Bentonite Seal:** from 23.51 to 26.71 ft. dia. ____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 26.71 to 43.02 ft. dia. ____ in.

Screen Depth: from 37.52 to 42.52 ft. dia. 2 in. **Total Well Depth:** from 43.02 to ____ ft. dia. ____ in.

Static Water Level: 27.76 feet from top of casing **Well ID** P-21 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** ____ **Casing is** ____ **feet above land surface**

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface	4.0	Silty Sand
4.0	9.0	Sandy Silt
9.0	28.21	Poorly Graded Sand
28.21	43.02	Bedrock

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: [signature]

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 20.13 ft. dia. _____ in.

Casing Depth: from 0 to 67.27 ft. dia. 2 in. **Bentonite Seal:** from 20.13 to 24.20 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 24.20 to 72.77 ft. dia. _____ in.

Screen Depth: from 67.27 to 72.27 ft. dia. 2 in. **Total Well Depth:** from 72.77 to _____ ft. dia. _____ in.

Static Water Level: 44.75 feet from top of casing **Well ID** P-22 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface	4.0	Sandy Silt
4.0	9.0	Silty Sand
9.0	15.0	Poorly Graded Sand
15.00	72.77	Bedrock

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 **SIGNATURE:** _____

Project Number: 34957

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Division of Health Services

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Waste Management-Carolinas	N/A
ADDRESS: 9900 Freeman Road, Kernersville, NC 27284	OWNER (print): Waste Management-Carolinas
DRILLING CONTRACTOR: Graham & Currie Diversified Drilling	**REGISTRATION NO.** 537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 49.92 ft. dia. _____ in.

Casing Depth: from 0 to 93.41 ft. dia. 2 in. **Bentonite Seal:** from 51.15 to 58.78 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 88 to 98.91 ft. dia. _____ in.

Screen Depth: from 93.41 to 98.41 ft. dia. 2 in. **Total Well Depth:** from 98.91 to _____ ft. dia. _____ in.

Static Water Level: 52.58 feet from top of casing **Well ID** P-23 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
Surface		
58.8	82	Rock Cuttings
82	98.91	Garnet Gneiss

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 **SIGNATURE:** _____

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Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 5.80 ft. dia. _____ in.

Casing Depth: from 0 to 11.68 ft. dia. 2 in. **Bentonite Seal:** from 5.80 to 8.64 ft. dia. _____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 8.64 to 17.18 ft. dia. _____ in.

Screen Depth: from 11.68 to 16.68 ft. dia. 2 in. **Total Well Depth:** from 17.18 to _____ ft. dia. _____ in.

Static Water Level: 10.00 feet from top of casing **Well ID** P-24 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** _____ **Casing is** _____ feet above land surface

DRILLING LOG

DEPTH FROM	TO	FORMATION DESCRIPTION
Surface	4.0	Sandy Silt
4.0	9.0	Silty Sand
9.0	11.5	Well Graded Sand
11.5	17.18	Bedrock

LOCATION SKETCH

(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 SIGNATURE: Jack Farmer

Project Number: 34957

N. C. Department of Human Resources
Division of Health Services

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DRILLING CONTRACTOR:	**REGISTRATION NO.**
Graham & Currie Diversified Drilling	537

Casing Type: Sch 40 PVC dia. 2 in. **Grout Depth:** from Surface to 2.12 ft. dia. ____ in.

Casing Depth: from 0 to 10 ft. dia. 2 in. **Bentonite Seal:** from 2.12 to 6.51 ft. dia. ____ in.

Screen Type: Sch 40 PVC dia. 2 in. **Sand/Gravel PK:** from 6.51 to 15.5 ft. dia. ____ in.

Screen Depth: from 10.0 to 15.0 ft. dia. 2 in. **Total Well Depth:** from 15.50 to ____ ft. dia. ____ in.

Static Water Level: 8.53 feet from top of casing **Well ID** P-25 **Date Measured** 3/14/96

Field (gpm): N/A **Method of Testing:** ____ **Casing is** ____ feet above land surface

DRILLING LOG

DEPTH FROM	DEPTH TO	FORMATION DESCRIPTION
SURFACE	4.0	Silty Clay
4.0	9.0	Silt
9.0	15.5	Well Graded Sand

LOCATION SKETCH

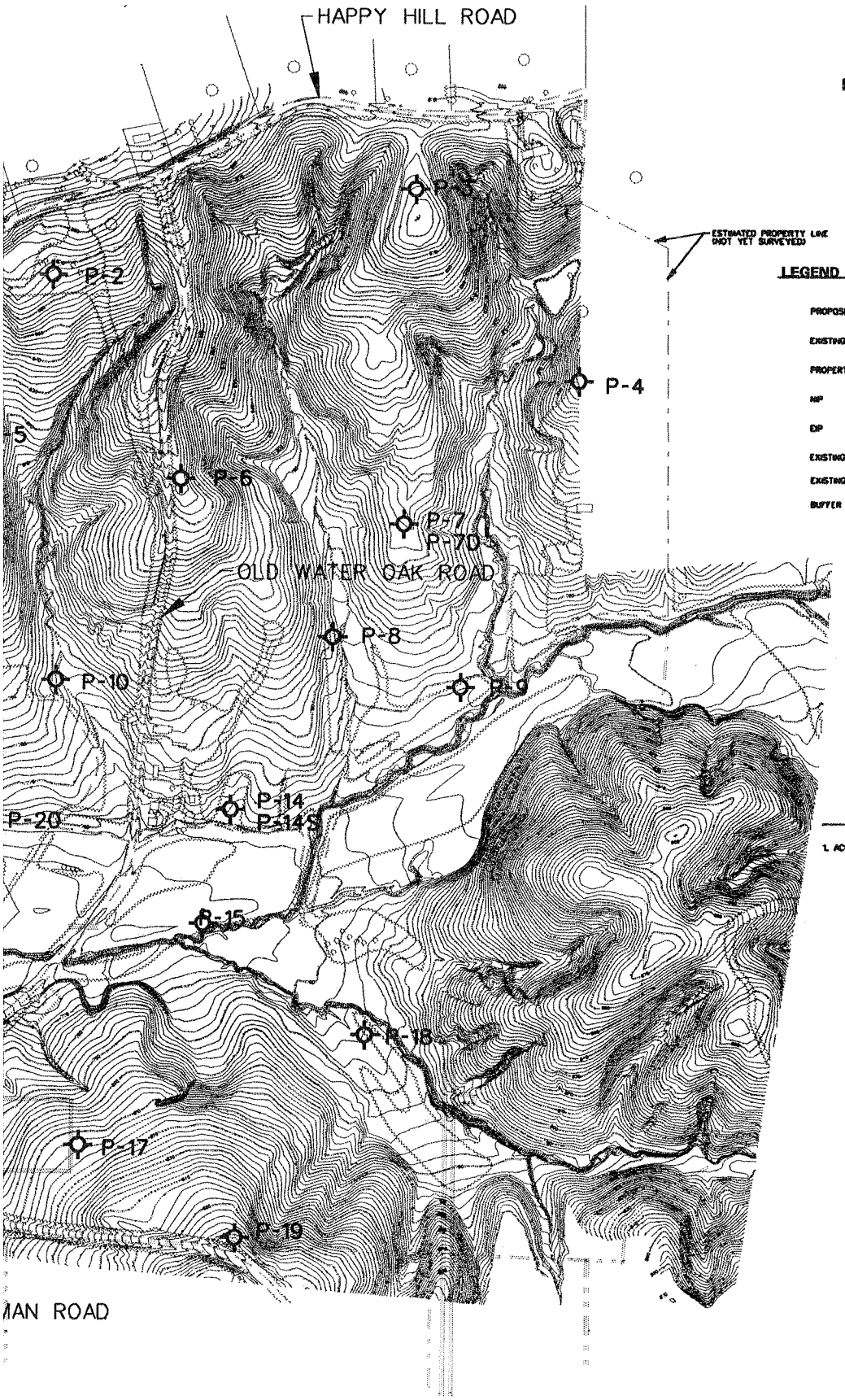
(show distance to numbered roads, or other map reference points)

See Attached.

REMARKS:

DATE: 4/3/96 **SIGNATURE:** Jack H Farmer

Project Number: 34957



NORTH

ESTIMATED PROPERTY LINE (NOT YET SURVEYED)

LEGEND

PROPOSED CONTOUR	
EXISTING CONTOUR	
PROPERTY LINE	
NIP	NEW IRON PIPE SET
EIP	EXISTING IRON PIPE SET
EXISTING TREE LINE	
EXISTING STREAM	
BUFFER AREA	

NOTES

1. ACCORDING TO N.C.D.O.T. ALL ROADS SHOWN HAVE A 60' RIGHT-OF-WAY

SITE INFO/DATA

TAX MAP: ACL-2-68
ADDRESS:
ZONING: AG
DEED: 1236
TOTAL SITE PROPERTY ACREAGE: 251.8 ACRES
EXISTING SITE USE: WOODED, PARTIAL AG

200 0 200 400 600
SCALE: 1" = 200'

PROPERTY OWNERS

FLORRIE S. RUSSELL
922 CARL RUSSELL AVE.
WINSTON-SALEM, NC 27101
(919) 722-3459

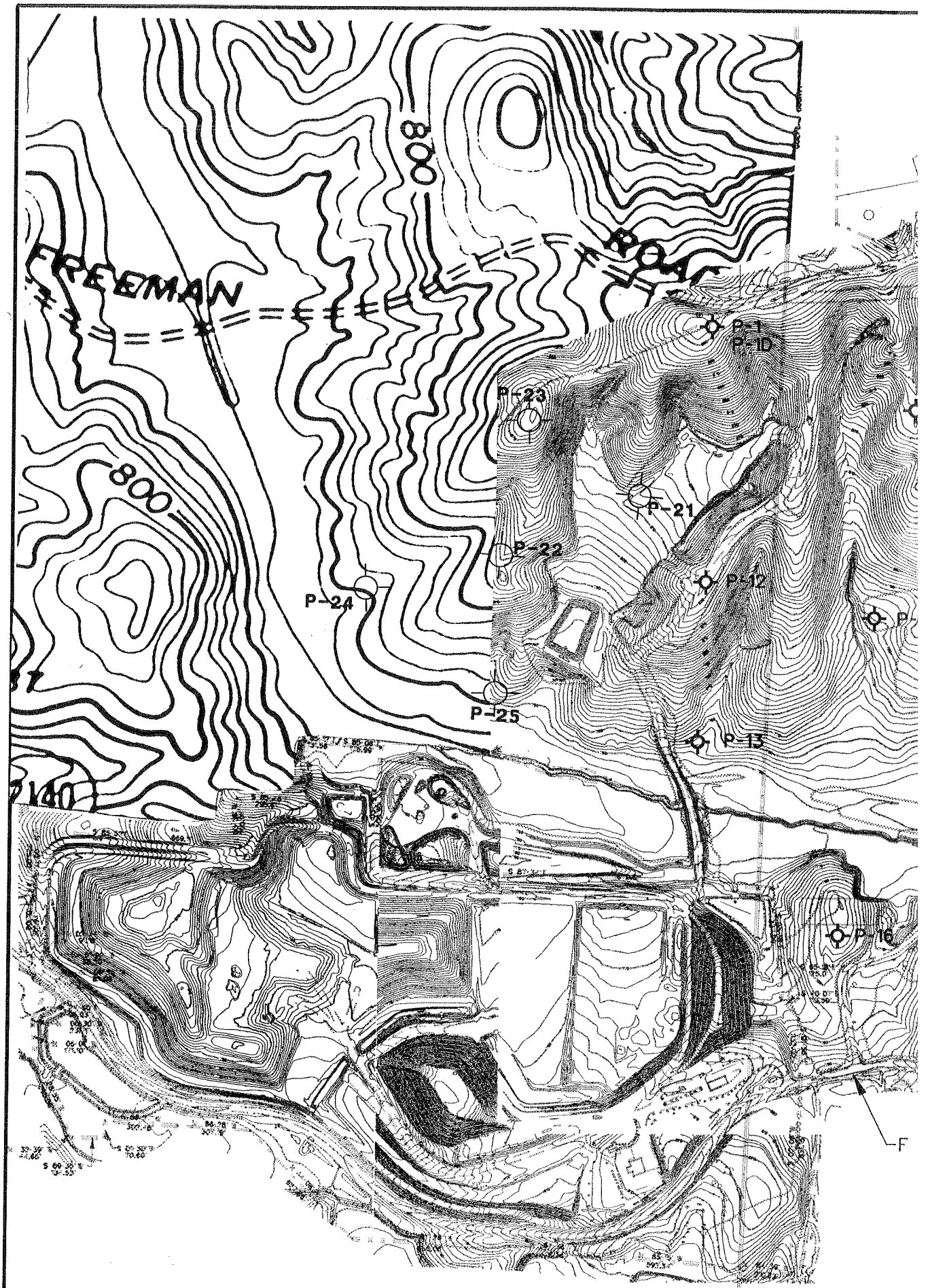
REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO 33024	SITE LOCATION: PIEDMONT LANDFILL EXPANSION CONCEPTUAL DESIGN, OAK RIDGE TOWNSHIP GUILFORD COUNTY, NORTH CAROLINA
DATE APRIL 1995	
DES BY	APPROXIMATE PIEZOMETER LOCATIONS
DRN BY	
CHK BY	
APP BY	

Developer: Waste Management of Carolinas, Inc

SHEET OF
DRAWING NO

PREPARED BY: RUST ENVIRONMENT & INFRASTRUCTURE


FREEMAN
800
800
P-1
P-1D
P-23
P-21
P-22
P-12
P-24
P-25
P-13
P-16
F