PRELIMINARY SITE ASSESSMENT

BARBARA LEVY PROPERTY
RICHMOND COUNTY, NORTH CAROLINA

NCDOT WBS ELEMENT 35007.1.1
TIP U-4006

December 22, 2006

Prepared for:

Mr. Don Moore, L. G.
North Carolina Department of Transportation
Geotechnical Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Prepared by:

Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409

Trigon Project No. 075-06-007

TRIGON
ENGINEERING CONSULTANTS, INC.
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December 22, 2006

Mr. Don Moore, L.G.
North Carolina Department of Transportation
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Reference: **Preliminary Site Assessment**
WBS Element No. 35007.1.1, TIP No. U-4006
Barbara Levy Property
Guilford County, North Carolina
Trigon Project No. 075-06-007

Dear Mr. Moore:

Please find enclosed a report summarizing the sampling activities for the preliminary site assessment conducted at the referenced site. Laboratory analysis of soil and groundwater samples collected at the site detected contaminant concentrations exceeding the State action levels. This report summarizes our field activities, results, laboratory report, and conclusions.

Should questions arise or additional information be required, please contact the undersigned.

Sincerely,

TRIGON ENGINEERING CONSULTANTS, INC.

Gail G. Licayan/mes

Gail G. Licayan, P.E.
Project Manager

John M. Stewart

John M. Stewart, P.G.
Senior Registered Geologist

GGL/JMS:mes

Attachments

s:\0750\2006\projects\007 cam property greensboro\r7506007.doc

PRELIMINARY SITE ASSESSMENT

Site Name and Location:	Barbara Levy Property 305 Swing Road Greensboro, Guilford County, North Carolina
Latitude and Longitude:	36° 04' 11" N, 79° 54' 35" W
NCDOT Project No.:	WBS Element 35007.1.1 TIP U-4006
Date of Report:	December 22, 2006
Consultant:	Trigon Engineering Consultants, Inc. Post Office Box 18846 313 Gallimore Dairy Road Greensboro, North Carolina 27409 Attn: Mr. John M. Stewart Phone: 336.668.0093

Seal and Signature of Certifying Licensed Geologist

I, John M. Stewart, a Licensed Geologist for Trigon Engineering Consultants, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

John M. Stewart, P.G.
NC License No. 1046

12/22/06

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F Monitoring Well Installation and Sampling Report
G Geophysics Report
H Boring Logs
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1.0 BACKGROUND

The Barbara Levy property is located at 305 South Swing Road in Greensboro, Guilford County, North Carolina (Figures 1 and 2). The site consists of one parcel (Parcel No. 00-01-0028-0-0930-00-004) and is located on the east side of Swing Road across from its intersection with Burnt Poplar Road. The site is currently owned by CAM Properties, LLC, who purchased the property from Richard Levy in March 2005. The deed is included in Appendix A. Concrete Accessories and Access Equipment currently occupy the site. A structure with associated parking areas and loading docks is located in the western portion of the site (Appendix B: Photograph 1). The remainder of the site is generally gravel covered (Photograph 2). The eastern portion of the site is used as a storage/staging area (Photograph 3).

In October 1991, two soil borings were advanced adjacent to a 10,000-gallon gasoline underground storage tank (UST) which was located on site. A monitoring well, MW-1, was installed and sampled to evaluate downgradient groundwater quality. Laboratory analysis of the soil and groundwater samples did not detect petroleum hydrocarbons above the State action levels. In October 1995, Trigon assisted in the closure of the 10,000-gallon gasoline UST. During the tank closure, approximately 52 cubic yards of impacted soil was stockpiled and 1,674 gallons of groundwater were removed from the UST pit. Laboratory analysis of soil samples collected from the UST pit following the soil and groundwater removal did not detect petroleum hydrocarbons above the State action levels. Petroleum was detected in the stockpiled soil and was remediated off site. The UST closure report is included in Appendix C.

After reviewing the UST closure report, the North Carolina Department of Environment and Natural Resources (NCDENR) requested further investigation at the site. In December 1995, Trigon installed two monitoring wells, MW-2 and MW-3, to evaluate the extent of petroleum contamination in the groundwater. Tetrachloroethene (PCE), benzene, MTBE, and lead were detected in the groundwater samples. PCE, benzene, and MTBE were detected above their respective 2L Standards in monitoring well MW-2. Benzene, MTBE, and lead are constituents of gasoline; however, PCE is a chlorinated hydrocarbon. NCDENR issued a notice of violation (NOV) to the property owner for the contamination found in monitoring wells MW-2 and MW-3. The locations of the monitoring wells are shown on Figure 2.

In response to the NOV, Trigon completed a comprehensive site assessment (CSA) at the site. During the CSA investigation, four additional monitoring wells were installed at the site, MW-4 through MW-7.

Groundwater was determined to be flowing southeast across the site. Laboratory analysis of groundwater samples detected chloroform, PCE, MTBE, and benzene at concentrations above their respective 2L Standards. PCE was detected in monitoring well MW-4, which is upgradient of the former UST location. MTBE and benzene appeared to be localized to the vicinity of the former UST. A site visit was also conducted during the CSA to identify other possible sources of contamination since PCE is not a gasoline constituent. Several areas of concern were observed including areas of stained soil and drum storage. A copy of the CSA report is included as Appendix D.

The monitoring wells were sampled again in 1996, 1997, and 2000. Chloroform, PCE, MTBE, and benzene were detected at concentrations exceeding their respective 2L Standards. Trigon completed a Limited Phase II Groundwater Assessment report summarizing the three sampling events and indicated the site meets the low risk site criteria (Appendix E).

In 2005, the NCDENR UST Section issued a No Further Action letter for the petroleum UST incident (Incident No. 15261) at the site and a Notice of Residual Petroleum was recorded for petroleum constituents related to the former UST. As part of the No Further Action response to the UST incident, the existing monitoring wells at the site were abandoned. In order to close the non-petroleum incident (PCE), the NCDENR Aquifer Protection Section (formerly the Groundwater Section) required delineation of the horizontal and vertical extent of the soil and groundwater PCE contamination and further investigation of the source area or additional information indicating the source area is off site.

In September 2005, Trigon installed a deep monitoring well, DW-1, adjacent to former monitoring well MW-4 along the northern property boundary. PCE was detected above the state groundwater standard in the groundwater sample collected from monitoring well DW-1. Therefore, Trigon concluded the source of PCE contamination is off site. The report summarizing the monitoring well installation and sampling is included as Appendix F.

The North Carolina Department of Transportation (NCDOT) is proposing to extend Bridford Parkway from Wendover Avenue at Hornaday Road to Burnt Poplar Road at Swing Road. The site is within the right-of-way needed for the proposed Bridford Parkway. There is concern that contaminated soils could be encountered during the construction activities at this site. It is the purpose of this Preliminary Site Assessment to determine if soil at the site has been impacted by activities at this facility.

2.0 SITE ASSESSMENT

2.1 UNDERGROUND STORAGE TANK INVESTIGATION

A preliminary geophysical survey to locate possible underground storage tanks (USTs) was conducted on November 6 and 7, 2006 by GEL Geophysics, LLC (GEL) of Research Triangle Park, North Carolina. No USTs were identified by the geophysical survey. One subsurface anomaly and an area of subsurface concrete were identified in the eastern portion of the site (Figure 1 of the GEL report). The investigation also identified an unknown utility which is consistent with the sanitary sewer easement indicated on the site plan. A copy of GEL's report is included in Appendix G.

2.2 SOIL ASSESSMENT

To determine if contaminated soil may be encountered during the proposed construction activities, soil samples were collected from areas identified in Trigon's 1996 CSA report. These areas included the areas previously observed with stained soil and drum storage, the former UST location, and the area adjacent to monitoring well DW-1. A boring was also placed in an area of stained soil near where the current property owner sprays models with diesel. On November 8 and 9, 2006, nine soil borings were completed at the site (Figure 3). Soil borings SS-1 through SS-4 were collected in areas previously identified with stained soil and drum storage. These areas have been covered with gravel since the previous observations in 1996. Soil boring SS-5 was collected in a current area of stained soil (Appendix B: Photograph 4). Soil borings SS-6 and SS-7 were collected adjacent to the previous UST location. Soil borings SS-8 and SS-9 were collected adjacent to monitoring well DW-1 along the northern property boundary.

Soil samples were collected using a direct push rig to a depth of between 11 and 16 feet below ground surface (bgs). Soil borings SS-1 though SS-4 encountered probe refusal between 11 and 12 feet bgs. Soil borings SS-5, SS-6, and SS-7 were terminated at 16 feet bgs. Soil borings SS-8 and SS-9 were terminated at 12 feet bgs since groundwater was known to be at 13 feet in the adjacent monitoring well, DW-1. The boring logs are included in Appendix H.

Soil samples were collected at four-foot intervals in each of the borings. A one foot sample was also

collected from soil boring SS-5 due to the surface staining. A portion of each sample was screened for volatile organic compounds in the field using a MiniRae 2000 organic vapor analyzer (OVA). The OVA did not detect organic vapors in the soil samples with the exception of those collected from soil boring SS-5. The OVA readings are summarized in Table 1. The four foot soil sample from each boring was selected for laboratory analysis. In soil boring SS-5, the one foot sample was also selected for laboratory analysis based on the elevated OVA reading.

The soil samples collected from the site for laboratory analysis were analyzed for high and low boiling point hydrocarbons (DRO/GRO) using Method 8015 following a 3550/5030 preparation and for volatile organic compounds using Method 8260. All soil samples were placed into laboratory provided jars, labeled, and maintained on ice until delivered to a State certified laboratory for chemical analysis.

2.3 GROUNDWATER ASSESSMENT

A groundwater sample was collected from the existing monitoring well, DW-1. The water level in the monitoring well was approximately 13 feet bgs. The groundwater sample collected from monitoring well DW-1 was analyzed for volatiles and semivolatile organic compounds by EPA Methods 8260 and 8270.

3.0 RESULTS

3.1 SOIL ASSESSMENT

Petroleum hydrocarbons similar to diesel and gasoline were not detected in any of the soil samples analyzed except from soil boring SS-5. Petroleum hydrocarbons similar to diesel were detected at concentrations above the State action level of 40 ppm in soil samples SS-5-1 and SS-5-4. Petroleum hydrocarbons similar to gasoline were detected at concentrations above the State action level of 10 ppm in SS-5-1. Volatile organic compounds were detected in each of the soil samples analyzed except from soil boring SS-8. The concentrations of volatiles were below the State action levels with the exception of the estimated concentration of methylene chloride in soil sample SS-3-4. Methylene chloride and acetone which were detected in most of the borings are common laboratory contaminants. The laboratory results are summarized in Table 2 and the extent of soil contamination is shown on Figure 4. The laboratory report and associated chain-of-custody document are included in Appendix I.

3.2 GROUNDWATER ASSESSMENT

Laboratory analysis of the groundwater sample collected from DW-1 detected PCE above the 2L Standard of 0.7 parts per billion (ppb). The laboratory results are summarized in Table 3 and are shown on Figure 5. The laboratory report and associated chain-of-custody document are included in Appendix I.

4.0 CONCLUSIONS

Based on results of the laboratory analysis and field observations, Trigon has the following conclusions:

- No USTs were identified by the geophysical investigation. One subsurface anomaly and an area of subsurface concrete were identified in the eastern portion of the site.
- The groundwater elevation in monitoring well DW-1 was approximately 13 feet below ground surface.
- Total petroleum hydrocarbons similar to gasoline and diesel were detected above the State action levels in the soil samples analyzed from soil boring SS-5.
- Based on the laboratory results, petroleum impacted soil includes an area approximately 2,000 square feet to an average depth of approximately four feet. This equals approximately 350 cubic yards of petroleum impacted soil.
- PCE was detected in the groundwater sample collected from monitoring well DW-1 but was not detected in the soil samples adjacent to DW-1. Based on the laboratory results and from information collected during previous investigations, it appears the PCE source area is off site.

TABLES

TABLE 1: SOIL SAMPLE OVA RESULTS

Sample ID	Date	Depth (feet bgs)	OVA Readings
SS-1	11/08/06	4.0	0.0
	11/08/06	8.0	0.0
	11/08/06	12.0	0.0
SS-2	11/08/06	4.0	0.0
	11/08/06	8.0	0.0
	11/08/06	11.0	0.0
SS-3	11/08/06	4.0	0.0
	11/08/06	8.0	0.0
	11/08/06	11.0	0.0
SS-4	11/08/06	4.0	0.0
	11/08/06	8.0	0.0
	11/08/06	12.0	0.0
SS-5	11/09/06	1.0	67.0
	11/09/06	4.0	10.2
	11/09/06	8.0	0.0
	11/09/06	12.0	0.0
	11/09/06	16.0	0.0
SS-6	11/09/06	4.0	0.0
	11/09/06	8.0	0.0
	11/09/06	12.0	0.0
	11/09/06	16.0	0.0
SS-7	11/09/06	4.0	0.0
	11/09/06	8.0	0.0
	11/09/06	12.0	0.0
	11/09/06	16.0	0.0
SS-8	11/09/06	4.0	0.0
	11/09/06	8.0	0.0
	11/09/06	12.0	0.0
SS-9	11/09/06	4.0	0.0
	11/09/06	8.0	0.0
	11/09/06	12.0	0.0

Notes:
feet bgs = feet below ground surface
Readings reported in parts per million

TABLE 2: SOIL SAMPLE ANALYTICAL SUMMARY

Sample ID	SS-1	SS-2	SS-3	SS-4	SS-5		SS-6	SS-7	SS-8	SS-9	State Action Level
Collection Date	11/08/06	11/08/06	11/08/06	11/08/06	11/09/06		11/09/06	11/09/06	11/09/06	11/09/06	
Collection Depth (feet bgs)	4.0	4.0	4.0	4.0	1.0	4.0	4.0	4.0	4.0	4.0	
Total Petroleum Hydrocarbons by EPA Method 8015 following a 3550/5030 prep											
As Diesel (DRO)	BQL	BQL	BQL	BQL	**7,000**	**16**	BQL	9.5	BQL	8.3	10
As Gasoline (GRO)	BQL	BQL	BQL	BQL	22	BQL	BQL	BQL	BQL	BQL	40
Volatiles using EPA Method 8260											
Acetone	0.029 J[1]	0.044 J[1]	0.320 J[1]	0.016 J[1]	0.050 J[1]	0.027 J[1]	0.032 J[1]	0.078 J[1]	BQL	0.027 J[1]	2.8
n-Butylbenzene	BQL	BQL	BQL	BQL	0.0060	BQL	BQL	BQL	BQL	BQL	4.3
sec-Butylbenzene	BQL	BQL	BQL	BQL	0.0037 J	BQL	BQL	BQL	BQL	BQL	3.3
Ethylbenzene	BQL	BQL	BQL	BQL	0.0019 J	BQL	BQL	BQL	BQL	BQL	4.6
Isopropylbenzene	BQL	BQL	BQL	BQL	0.0014 J	BQL	BQL	BQL	BQL	BQL	1.7
p-Isopropyltoluene	BQL	BQL	BQL	BQL	0.0080	BQL	BQL	BQL	BQL	BQL	NE
Methylene Chloride	0.0012 J[1]	0.0012 J[1]	**0.180 J[1]**	0.0014 J[1]	BQL	BQL	0.0017 J[1]	BQL	BQL	BQL	0.02
Naphthalene	BQL	BQL	BQL	BQL	0.010	BQL	BQL	BQL	BQL	BQL	0.58
n-Propylbenzene	BQL	BQL	BQL	BQL	0.0026 J	BQL	BQL	BQL	BQL	BQL	1.7
Toluene	BQL	BQL	BQL	BQL	0.0012 J	BQL	BQL	BQL	BQL	BQL	7.3
1,2,4-Trimethylbenzene	BQL	BQL	BQL	BQL	0.016	BQL	BQL	BQL	BQL	BQL	7.5
1,3,5-Trimethylbenzene	BQL	BQL	BQL	BQL	0.0045 J	BQL	BQL	BQL	BQL	BQL	7.3
Xylenes (Total)	BQL	BQL	BQL	BQL	0.0085 J	BQL	BQL	BQL	BQL	BQL	5

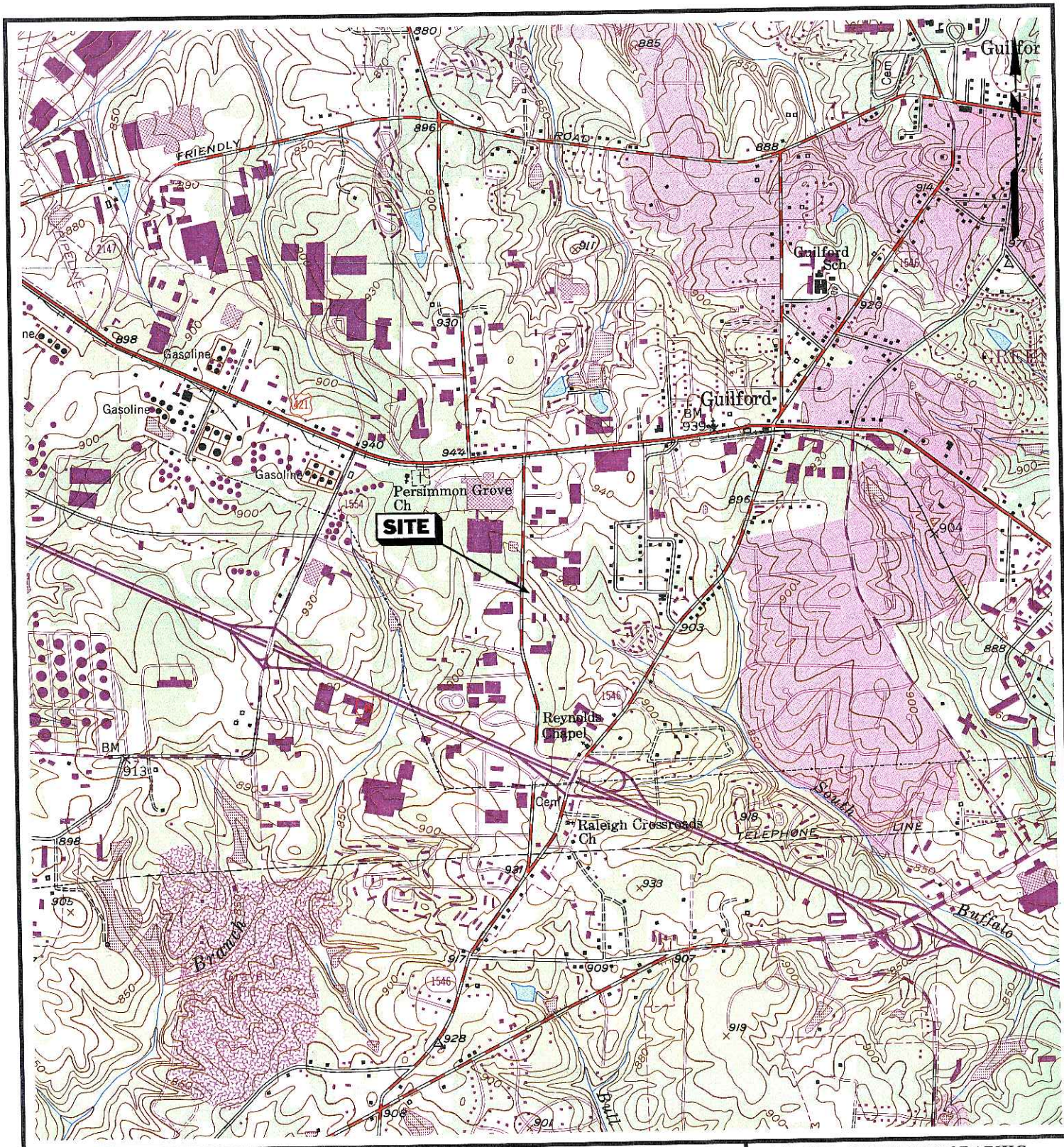
Notes:
Results presented in parts per million (ppm)
feet bgs = feet below ground surface
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
[1] Common Laboratory Contaminant
BQL = Below quantitation limits
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
NE = No standard established for this compound
Bold denotes concentration exceeds the Regulatory Comparison Criteria

TABLE 3: GROUNDWATER ANALYTICAL SUMMARY

Sample ID	DW-1	2L Standard
Collection Date	11/09/06	
Semivolatiles using EPA Method 8270		
All Compounds	BQL	---
Volatiles using EPA Method 8260		
Chloroform	0.52 J	70
Tetrachloroethene (PCE)	**6.3**	0.7
Toluene	0.25 J	1,000

Notes:
Results presented in parts per billion (ppb)
Bold denotes concentration exceeds the 2L Standard
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
BQL = Below quantitation limits

FIGURES



SCALE: 1" = 2,000'	DATE: 11/27/06	APPROVED BY:	SOURCE: USGS TOPOGRAPHIC MAP GUILFORD QUADRANGLE

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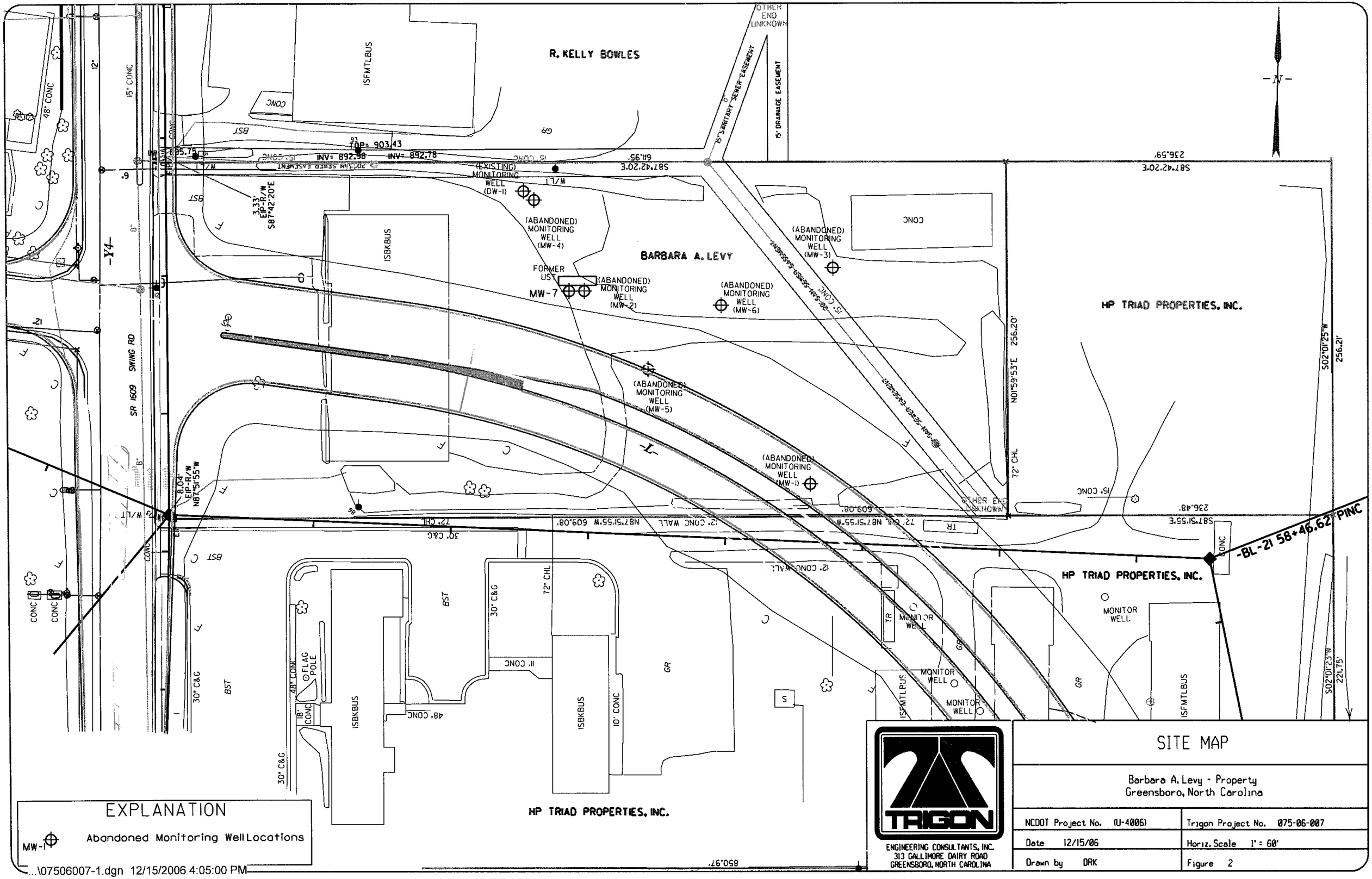
313 Gallimore Dairy Road
Greensboro, North Carolina 27409

BARBARA LEVY PROPERTY
GREENSBORO, NORTH CAROLINA
TRIGON PROJECT NO. 075-06-007

SITE LOCATION MAP

FIGURE 1



EXPLANATION

MW-1 ⊕ Abandoned Monitoring Well Locations

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GREENSBORO, NORTH CAROLINA

SITE MAP

Barbara A. Levy - Property
Greensboro, North Carolina

NCDOT Project No. (U-4006)	Trigon Project No. 075-06-007
Date 12/15/06	Horiz. Scale 1" = 60'
Drawn by DRK	Figure 2

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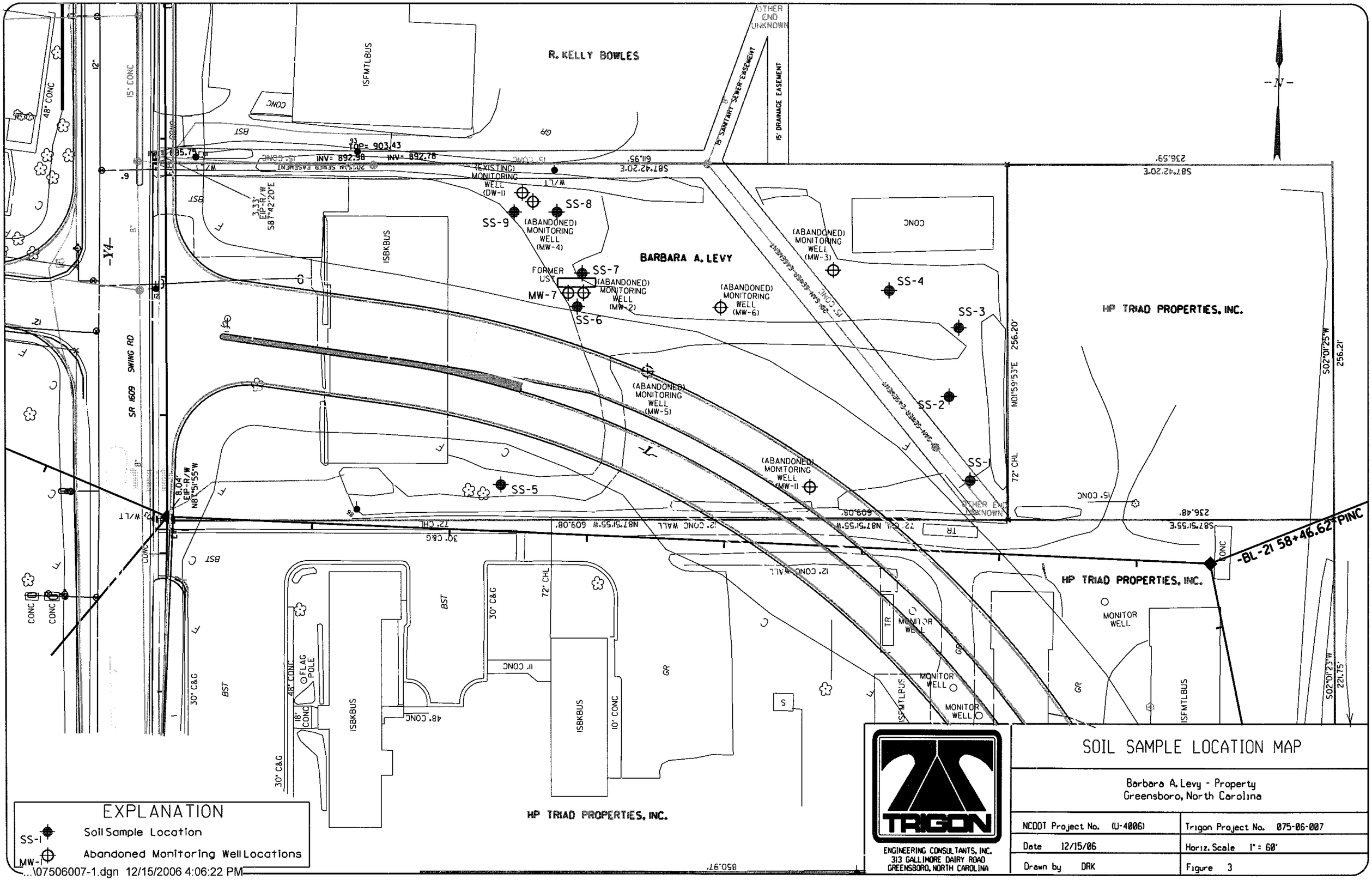
R. KELLY BOWLES
BARBARA A. LEVY
HP TRIAD PROPERTIES, INC.
HP TRIAD PROPERTIES, INC.
HP TRIAD PROPERTIES, INC.
SR 1609 SWING RD
-BL-21 58+46.62 PINC
-Y4-
-N-
SS-1
SS-2
SS-3
SS-4
SS-5
SS-6
SS-7
SS-8
SS-9
MW-7
(ABANDONED) MONITORING WELL (MW-1)
(ABANDONED) MONITORING WELL (MW-2)
(ABANDONED) MONITORING WELL (MW-3)
(ABANDONED) MONITORING WELL (MW-4)
(ABANDONED) MONITORING WELL (MW-5)
(ABANDONED) MONITORING WELL (MW-6)
(EXISTING) MONITORING WELL (DW-1)
FORMER UST
MONITOR WELL
MONITOR WELL
MONITOR WELL
FLAG POLE
ISBKBUS
ISFMTLBUS
ISFMTLBUS
ISBKBUS
ISBKBUS
ISFMTLBUS
OTHER END UNKNOWN
15' SANITARY SEWER EASEMENT
15' DRAINAGE EASEMENT
20' SAN SEWER EASEMENT
TOP= 903.43
INV= 892.98
INV= 892.78
N87°51'55"W 609.08'
S87°42'20"E 611.95'
S87°42'20"E 236.59'
N01°59'53"E 256.20'
S02°01'25"W 256.21'
S87°51'55"E 236.48'
S02°01'23"W 221.75'
850.97'
12" CONC WALL
72" CHL
30" C&G
48" CONC
15" CONC
48" CONC
18" CONC
10" CONC
11" CONC
12" CONC
CONC
BST
GR
TR
S
EXPLANATION
SS-1 Soil Sample Location
MW-1 Abandoned Monitoring Well Locations
TRIGON
ENGINEERING CONSULTANTS, INC.
313 GALLIMORE DAIRY ROAD
GREENSBORO, NORTH CAROLINA
SOIL SAMPLE LOCATION MAP
Barbara A. Levy - Property
Greensboro, North Carolina
NCDOT Project No. (U-4006)
Trigon Project No. 075-06-007
Date 12/15/06
Horiz. Scale 1" = 60'
Drawn by DRK
Figure 3
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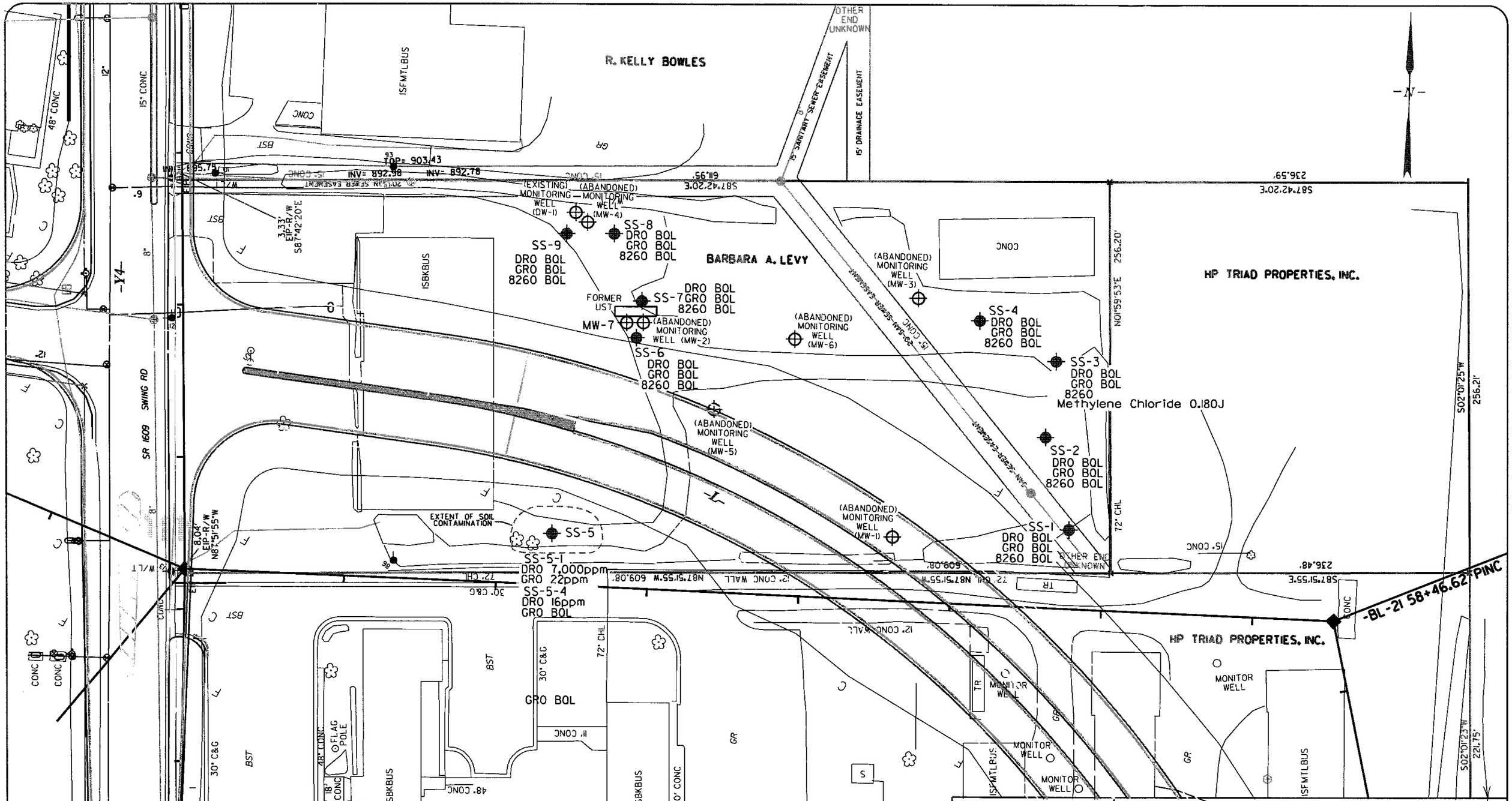

EXPLANATION

SS-1 DRO 228ppm GRO 7ppm — Soil Sample Location W/ Contaminant Concentrations

MW-1 — Monitoring Well Locations

NOTE: Acetone and Methylene Chloride detected in most samples. However these contaminant are believed to be laboratory artifacts.

The State Action Level for GRO is 10 ppm and DRO is 40 ppm

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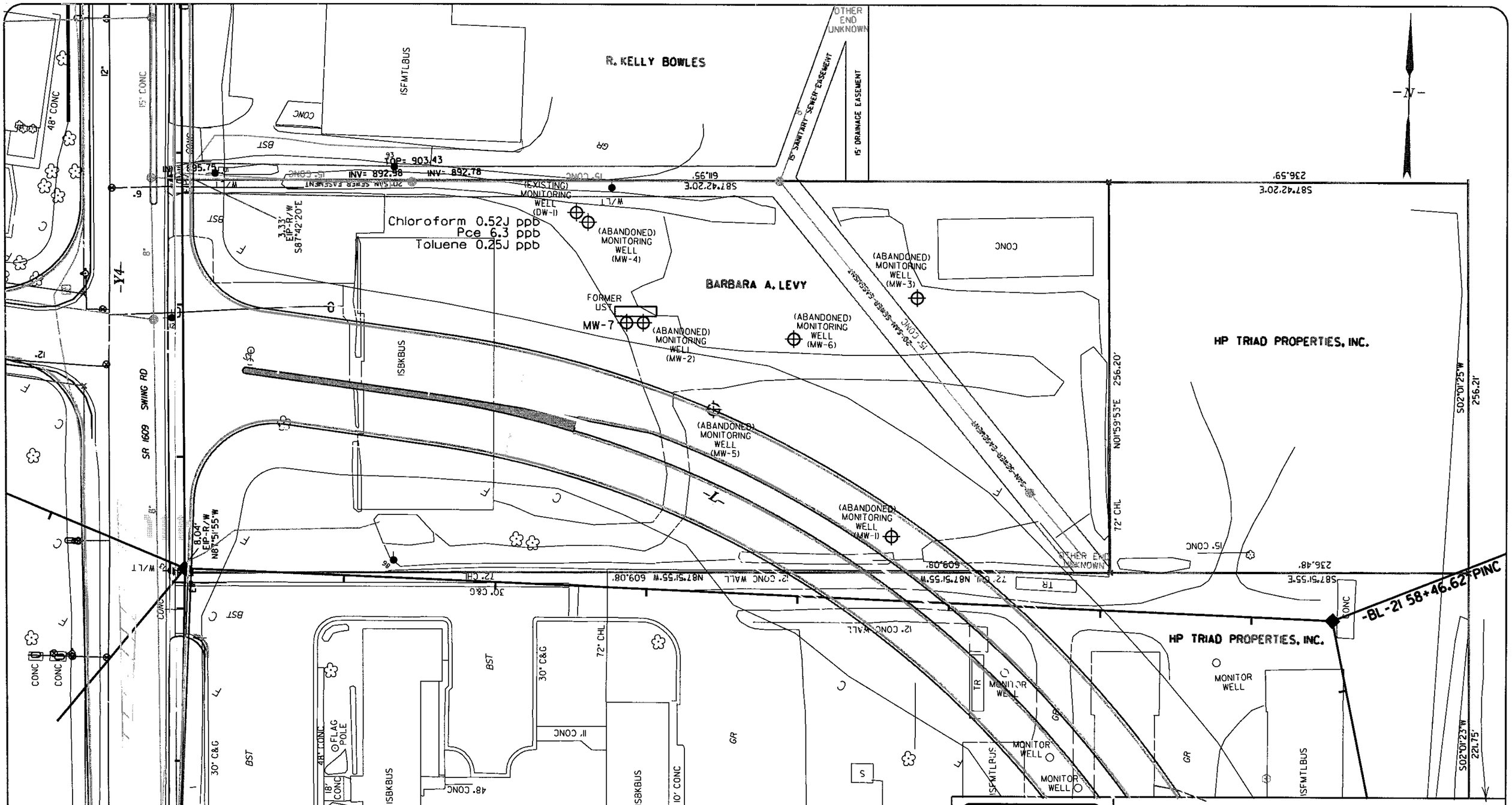
EXTENT OF SOIL CONTAMINATION MAP

Barbara A. Levy - Property
Greensboro, North Carolina

NCDOT Project No. (U-4006)	Trigon Project No. 075-06-007
Date 12/15/06	Horiz. Scale 1" = 60'
Drawn by DRK	Figure 4



EXPLANATION

MW-1 ⊕ Monitoring Well Locations W/ Contaminant Concentrations

NOTE: Contaminant concentrations below quantitation limits are not included on the figure.

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GROUNDWATER SMAPLE RESULTS MAP

Barbara A. Levy - Property
Greensboro, North Carolina

NCDOT Project No. (U-4006)	Trigon Project No. 075-06-007
Date 12/15/06	Horiz. Scale 1" = 60'
Drawn by DRK	Figure 5

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APPENDIX A

RECORDED - 941842
JEFF L. THIGPEN
REGISTER OF DEEDS
GUILFORD COUNTY, NC
BOOK: 6274
PAGE(S):0010 TO 0021
03/15/2005 10:42:42

03/15/2005 GUILFORD CO. NC
1 DEEDS 941842 $12.00
10 DEEDS ADDN PGS $30.00

1 PROBATE FEE $2.00

GUILFORD COUNTY 3/15/2005
NC REAL ESTATE EXTX $1260.00

GENERAL WARRANTY DEED

Address of Grantee: 509 GURLEY MILLS ROAD, PRINCETON, NC 27569
Excise Tax: $1,260.00
Prepared by: Donald G. Sparrow; Sparrow Wolf & Sparrow, PA
Tax Map No.: 1-28-930-4

P/U Marshall

THIS DEED made this 14th day of March, 2005, by and between

11/1AA

RICHARD D. LEVY, Successor Trustee of the Family Trust established in the BARBARA ANN LEVY 1998 Revocable Trust dated March 23, 1998, and RICHARD D. LEVY, Successor Trustee of the Family Trust established in the BERTRAM LEVY 1998 Revocable Trust dated March 23, 1998
hereinafter called GRANTOR,
and
CAM PROPERTIES, LLC, A NORTH CAROLINA LIMITED LIABILITY COMPANY,
hereinafter called GRANTEE.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH:

WHEREAS, a one-half interest in the subject property was conveyed by Bertram Levy and wife, Barbara A. Levy to Bertram Levy, Trustee of The Bertram Levy Revocable Trust, by Deed recorded in Book 4886, Page 363, in the Guilford County Registry; which Deed erroneously referred to the Trust Agreement being dated March 23, 1999, in lieu of March 23, 1998, and

WHEREAS, the other one-half interest in the subject property was conveyed by Barbara A. Levy and husband, Bertram Levy to Barbara A. Levy, Trustee of The Barbara A. Levy Revocable Trust, by Deed recorded in Book 4886, Page 365, in the Guilford County Registry; which Deed erroneously referred to the Trust Agreement being dated March 23, 1999, in lieu of March 23, 1998, and

WHEREAS, Bertram Levy died December 5, 1999, in Beaufort County, South Carolina, and upon his death, the one-half interest in the subject property held by The Bertram Levy 1998 Revocable Trust was distributed to fund the Marital Trust established in the trust agreement, the terms of which are incorporated herein by reference; and

WHEREAS, Barbara A. Levy died December 5, 2003, in Guilford County, North Carolina, and upon her death, the one-half interest in the subject property held by The Barbara Ann Levy 1998 Revocable was distributed to fund the Family Trust established in the trust agreement, the terms of which are incorporated herein by reference; and

WHEREAS, upon the death of Barbara A. Levy, the property held in the Marital Trust established in The Bertram Levy 1998 Revocable Trust became part of the Family Trust established in The Bertram Levy 1998 Revocable Trust;

NOW THEREFORE, the Grantor, as Successor Trustee, whose authority is outlined on **EXHIBIT B** attached hereto and incorporated herein by reference, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee, in fee simple, all that certain lot or parcel of land described on **EXHIBIT A** which is attached hereto and is incorporated herein by reference.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor herein covenants with the Grantee, that he is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that he will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions stated herein, and variances, if any, between the descriptions set out in Book 4886, Pages 363 and 365 and the attached Exhibit A.

This conveyance is subject to ad valorem taxes for the year 2005 and subsequent years; and to easements, restrictions, and rights of way of record, including, but not limited to, the following:

1) Public utility easement and right of way to Duke Power Company recorded in Book 1222, Page 130, Guilford County Registry
2) Rights of way in favor of the City of Greensboro for sewer installation and maintenance recorded in Book 2241, Page 522, and Book 2257, Page 427, Guilford County Registry
3) Right of way of Swing Road
4) Prohibition of use of groundwater from site and restriction against installation or operation of water supply well(s) on the property, and any other matters described in Notice of Residual Petroleum recorded in Book 5980, page 0319, in the Guilford County Registry

IN WITNESS WHEREOF, the Grantor has caused this Deed to be executed the day and year first above written.

Richard D. Levy, Trustee

RICHARD D. LEVY, Successor Trustee
of the Family Trust established in The Barbara Ann Levy 1998 Revocable Trust dated March 23, 1998

Richard D. Levy, Trustee

RICHARD D. LEVY, Successor Trustee
of the Family Trust established in The Bertram Levy 1998 Revocable Trust dated March 23, 1998

STATE OF NORTH CAROLINA
COUNTY OF Guilford

I, Donald G. Sparrow, a Notary Public of the County and State aforesaid, certify that **RICHARD D. LEVY, Successor Trustee of the Family Trust established in The Barbara Ann Levy 1998 Revocable Trust dated March 23, 1998** and **RICHARD D. LEVY, Successor Trustee of the Family Trust established in The Bertram Levy 1998 Revocable Trust dated March 23, 1998**, personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and notarial seal this 8 day of March, 2005.

[SEAL]

NOTARY PUBLIC GUILFORD COUNTY

Notary Public

My Commission Expires:
2/4/08

EXHIBIT A:
Property Description

Being all of that certain parcel of land located in the City of Greensboro, Friendship Township, Guilford County, North Carolina, and being more particularly described as follows:

Beginning at an existing iron pipe located on the northeast side of the right-of-way of South Swing Road, said iron pipe being the northwest corner of the HP Triad Properties, Inc. property appearing of record in Deed Book 4681, page 288, Guilford County Registry, thence running along the northeast side of the right-of-way of South Swing Road North 04 degrees, 06 minutes, 30 seconds East 256.33 feet to an existing iron pipe; thence South 85 degrees, 52 minutes, 04 seconds East 612.00 feet to an existing iron pipe; thence South 03 degrees, 45 minutes, 31 seconds West 255.72 feet to an existing iron pipe; thence North 85 degrees, 55 minutes, 30 seconds West 613.56 feet to the point and place of beginning, containing 3.601 acres, more or less, according to a plat and survey entitled "Boundary Survey for: CAM Properties, LLC," dated February 24, 2005, as drawn by R. Alan Wilson, RLS, of Wilson Surveying, Inc., Greensboro, North Carolina.

For chain of title information, see Book 4886, Page 363, and Book 4886, Page 365, Guilford County Registry.

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EXHIBIT B

Certain Terms of the Revocable Trust Agreement Created by Bertram Levy, dated March 23, 1998:

Trustee Powers

ARTICLE 10. (a) The trustee shall have full and complete power and authority as to such trust to administer the trust property without the necessity of securing the order of any court in connection with any transaction. Without intending to limit the generality of the foregoing, the trustee is authorized to retain, sell, assign, transfer, convey, exchange, lease, mortgage, pledge, contract with respect to, and in any manner dispose of, any or all of the trust property; to execute any instruments or writing incidental to the exercise of such powers; to borrow money; to exercise any voting, subscription and other rights and privileges incidental to securities; and to cause securities to be registered in the name of a nominee. The trustee is given broad discretion in the investment and reinvestment of trust funds, including (without limitation) the authority to invest in common stocks, common trust funds including common trust funds and collective funds of the trustee and/or any of its affiliates or of any other fiduciary and/or any of its affiliates, collective investment funds, real estate or any interest therein, and other classes of property which the trustee may deem to be in the best interest of the beneficiaries and in any security or evidence or indebtedness of any entity of which any bank or financial institute then serving as trustee has an interest including any affiliate or subsidiary of such trustee. The trustee is authorized to make distributions in cash or in kind or both, and to determine the values of any properties so distributed. The trustee is authorized to make allocations and distributions of assets in kind without regard to the adjusted basis of the assets so allocated or distributed and without making any equitable adjustment among the distributees therefor. The trustee is authorized to employ suitable agents and counsel, including but not limited to, any subsidiary of affiliate of the trustee and to pay their reasonable expenses and compensation.

The determination of the trustee in making such allocations and distributions of assets in kind shall be binding on all beneficiaries. The trustee shall be exonerated from any and all liability arising from the exercise of such discretion to make allocations and distributions of assets in kind, and no beneficiary shall have any claim against the trust or the trustee arising therefrom. Any trust property to be paid or distributed hereunder to or for the benefit of a minor may be paid or distributed to a custodian under the Uniform Gifts to Minors Act of the state of domicile of such minor, in the manner and form provided thereunder. The trustee is authorized to name the custodian of any trust property so paid or distributed. No person dealing with the trustee shall be under a duty to see to the application of the proceeds of any transaction, and the execution of any instrument or paper by the trustee shall be conclusive evidence to those dealing with the trustee of the trustee's power so to act. The trustee is specifically authorized to purchase securities or other properties from my estate, to advance trust funds to my estate, or to loan trust funds to my estate, with or without security therefor.

(b) If the trust should include any interest in any closely held corporations, general or limited partnerships or joint venture the trustee is authorized to

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exercise all powers with respect to any such business interest which I could exercise if present and acting. This shall include, but shall not be limited to, the following powers: (1) To continue, expand, limit, alter, reconstitute, incorporate or terminate any such business interests in any way the trustee may determine to be advisable without liability for loss arising therefrom, unless such loss results directly from the trustee's gross negligence or willful misconduct; (2) To name and to change directors, or to act as a director and receive compensation therefor; (3) To retain or sell any such business interests; and, if a sale or disposition thereof is made, (i) the terms, techniques, or manner thereof shall be wholly within the discretion of the trustee, and (ii) the trustee is specifically authorized and empowered to make such sale to any partner, officer or employee of the business or to any beneficiary hereunder; (4) To take all actions necessary to fully effectuate any agreements requiring the sale of any such business interests at my death; (5) To hire and discharge officers and employees, fix their compensation and define their duties, or to act as an officer or employee and receive compensation therefor, and similarly to employ, compensate and discharge agents, attorneys, consultants, accountants and such other representatives as the trustee may deem appropriate, including the right to employ any beneficiary in any of the foregoing capacities; (6) To invest other trust funds in such business interest, to pledge other assets of the trust as security for loans made to such business interests, and to loan funds from the trust to such business interests; (7) To take any action required to convert any corporation into a partnership or sole proprietorship; (8) To treat any such business interests as entities separate from the trust, and, in accounting to the beneficiaries, the trustee shall only be required to report the earnings and condition of such business interests in accordance with standard business practices. All liabilities arising from any business interest retained and operated by the trustee pursuant to the authorization obtained herein shall be satisfied first from the business itself and second out of the trust estate. In no event shall any liability be enforced against the trustee personally, unless such liability shall result directly from the trustee's gross negligence or willful misconduct, and if the trustee shall be held personally liable as a direct result of anything other than the trustee's gross negligence or willful misconduct, the trustee shall be entitled to indemnity first from the business and second from the trust estate.

(c) My estate may include real properties and interests in real properties which are subject to mortgage. Such properties may be received by the trustee subject to such mortgages and the mortgage indebtedness as to each property or interest may be continued and carried as a charge on such property by the trustee. The preceding sentence is not intended to authorize the allocation to or retention of mortgaged property in the Marital Trust unless the trustee is satisfied that the mortgage can be carried and discharged without depriving my spouse of the full beneficial enjoyment of the property during my spouse's lifetime. The net income of the trust shall be determined without any deduction or charge for principal payments on any such mortgages.

(d) The trustee shall exercise and perform the trust powers and duties in accordance with sound and accepted accounting procedures. In this connection the trustee may allocate or apportion receipts and disbursements between income and corpus, and may reserve out of income a reasonable amount to cover the depreciation or depletion of property subject to exhaustion, wear and tear, and obsolescence. The trustee is specifically authorized in its discretion to determine the net distributive income of the trust

before deducting depreciation or depletion, thereby transferring to the distributees a part or all of the depreciation or depletion allowance deductible for federal income tax purposes. Any earned income items or employee benefits assigned to the Family Trust shall be treated as principal.

(e) I intend that all estate inheritance taxes, including taxes on life insurance, shall be paid by my personal representative out of my estate. However, if and to the extent that any funds or properties held by the trustee hereunder shall be chargeable with any of such taxes, I direct that the same shall be paid out of the Family Trust, not out of the Marital Trust. I further direct that if the Family Trust includes any items which are not otherwise, but might become, subject to death taxes, or to higher death taxes, if payable to my estate, such items shall not be used to discharge any tax or other obligation of my estate, except to the extent that other Family Trust funds are not available therefor.

(f) As to any insurance policy the proceeds of which are payable to the trust, the trustee may institute proceedings to enforce payment, but shall not be required to engage in any litigation unless and until the trustee shall have been indemnified against any expenses and liabilities which might arise in connection therewith. The trustee is authorized to compromise and adjust claims arising out of such insurance policies, upon such terms and conditions as the trustee may deem proper.

(g) The trustee shall keep true and correct books of account showing all transactions in the trust estate, which books of account shall at all times be open to inspection by me or by any beneficiary. The trustee shall render to me, and after my death to the beneficiaries, periodic statements of receipts and disbursements and submit an annual inventory showing the assets and property in each trust. In no event shall a bond be required of the trustee.

(h) No compensation shall be paid to the trustee during my lifetime unless and until funds or property in addition to the original trust corpus are transferred to the trustee. At such time, the trustee shall be entitled to receive reasonable compensation for services rendered; any bank or financial institution serving as trustee shall be entitled to receive compensation according to its regularly adopted schedule of compensation in effect at the time such services are rendered. No special charge shall be made in connection with the distribution of principal or the termination or transfer of the trusteeship, except on the basis of the extra services required in connection with such principal distribution, termination or transfer.

(i) Any bank or other financial institution serving as trustee hereunder and/or any of its affiliates or of any other fiduciary and/or any of its affiliates is authorized to have dealings with the trust estate in any capacity notwithstanding the fact that it is designated and may be acting as trustee hereunder.

Advisors and Successor Trustees

ARTICLE 11. (a) During the administration of the trust at all times after my death, I direct that the trustee accept my spouse, if living, or, if my spouse is deceased, my adult children as advisor (hereinafter referred to individually and collectively as "advisor") in connection with the management of the trust and the trustee shall from time to time consult with

the advisor with respect to the manner of investment of the trust assets, as well as the needs of the beneficiaries. However, the trustee shall have sole and complete discretion concerning matters of trust administration, and shall be under no obligation to follow the advice of the advisor. If at any time there is more than one trust advisor, a majority shall be sufficient to cause such action to be taken.

(b) If I cease to serve as trustee for any reason, including my incapacity, I appoint my spouse to serve as successor trustee; if my spouse ceases or fails to serve as trustee for any reason, I appoint RICHARD D. LEVY to serve as successor trustee. In the event there is further vacancy as trustee for any reason, the advisor shall appoint a successor trustee hereunder which shall be a qualified bank or financial institution. The advisor shall have the right to demand and receive the resignation of any successor trustee by written notice to said successor trustee and the advisor shall thereupon designate another successor trustee which shall be a qualified bank or financial institution. A demand for resignation shall not be valid or effective unless there is a designation of another successor trustee. After receipt of an effective demand in writing for resignation, and upon the execution by the next successor trustee of a written acceptance of the trusteeship, the incumbent trustee shall deliver the trust assets to such next successor trustee. Thereafter, the incumbent successor trustee shall be discharged of all further responsibility or liability and the next successor trustee, without further act, shall be vested with all the estate, title, powers and duties granted to the predecessor. The incumbent successor trustee shall, however, execute and deliver to its successor such assignments or other instruments as may be necessary or advisable. The provisions of this paragraph (b) shall be applicable to the removal of all successor trustees.

000017

Certain Terms of the Revocable Trust Agreement Created by Barbara Ann Levy, dated March 23, 1998:

Trustee Powers

ARTICLE 10. (a) The trustee shall have full and complete power and authority as to such trust to administer the trust property without the necessity of securing the order of any court in connection with any transaction. Without intending to limit the generality of the foregoing, the trustee is authorized to retain, sell, assign, transfer, convey, exchange, lease, mortgage, pledge, contract with respect to, and in any manner dispose of, any or all of the trust property; to execute any instruments or writing incidental to the exercise of such powers; to borrow money; to exercise any voting, subscription and other rights and privileges incidental to securities; and to cause securities to be registered in the name of a nominee. The trustee is given broad discretion in the investment and reinvestment of trust funds, including (without limitation) the authority to invest in common stocks, common trust funds including common trust funds and collective funds of the trustee and/or any of its affiliates or of any other fiduciary and/or any of its affiliates, collective investment funds, real estate or any interest therein, and other classes of property which the trustee may deem to be in the best interest of the beneficiaries and in any security or evidence or indebtedness of any entity of which any bank or financial institute then serving as trustee has an interest including any affiliate or subsidiary of such trustee. The trustee

is authorized to make distributions in cash or in kind or both, and to determine the values of any properties so distributed. The trustee is authorized to make allocations and distributions of assets in kind without regard to the adjusted basis of the assets so allocated or distributed and without making any equitable adjustment among the distributees therefor. The trustee is authorized to employ suitable agents and counsel, including but not limited to, any subsidiary of affiliate of the trustee and to pay their reasonable expenses and compensation.

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(b) If the trust should include any interest in any closely held corporations, general or limited partnerships or joint venture the trustee is authorized to exercise all powers with respect to any such business interest which I could exercise if present and acting. This shall include, but shall not be limited to, the following powers: (1) To continue, expand, limit, alter, reconstitute, incorporate or terminate any such business interests in any way the trustee may determine to be advisable without liability for loss arising therefrom, unless such loss results directly from the trustee's gross negligence or willful misconduct; (2) To name and to change directors, or to act as a director and receive compensation therefor; (3) To retain or sell any such business interests; and, if a sale or disposition thereof is made, (i) the terms, techniques, or manner thereof shall be wholly within the discretion of the trustee, and (ii) the trustee is specifically authorized and empowered to make such sale to any partner, officer or employee of the business or to any beneficiary hereunder; (4) To take all actions necessary to fully effectuate any agreements requiring the sale of any such business interests at my death; (5) To hire and discharge officers and employees, fix their compensation and define their duties, or to act as an officer or employee and receive compensation therefor, and similarly to employ, compensate and discharge agents, attorneys, consultants, accountants and such other representatives as the trustee may deem appropriate, including the right to employ any beneficiary in any of the foregoing capacities; (6) To invest other trust funds in such business interest, to pledge other assets of the trust as security for loans made to such business interests, and to loan funds from the trust to such business interests; (7) To take any action required to convert any corporation into a partnership or sole proprietorship; (8) To treat any such business interests as entities separate from the trust, and, in accounting to the beneficiaries, the trustee shall only be required to report the earnings and condition of such business interests in accordance with standard business practices. All liabilities arising from any business interest retained and operated by the trustee pursuant to the

authorization obtained herein shall be satisfied first from the business itself and second out of the trust estate. In no event shall any liability be enforced against the trustee personally, unless such liability shall result directly from the trustee's gross negligence or willful misconduct, and if the trustee shall be held personally liable as a direct result of anything other than the trustee's gross negligence or willful misconduct, the trustee shall be entitled to indemnity first from the business and second from the trust estate.

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required of the trustee.

(h) No compensation shall be paid to the trustee during my lifetime unless and until funds or property in addition to the original trust corpus are transferred to the trustee. At such time, the trustee shall be entitled to receive reasonable compensation for services rendered; any bank or financial institution serving as trustee shall be entitled to receive compensation according to its regularly adopted schedule of compensation in effect at the time such services are rendered. No special charge shall be made in connection with the distribution of principal or the termination or transfer of the trusteeship, except on the basis of the extra services required in connection with such principal distribution, termination or transfer.

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120021

JEFF L. THIGPEN, REGISTER OF DEEDS
GUILFORD COUNTY
201 SOUTH EUGENE STREET
GREENSBORO, NC 27402

* *

State of North Carolina, County of Guilford

The foregoing certificate of Donald G. Sparrow

A Notary (Notaries) Public is/are certified to be correct. This instrument and this certificate are duly registered at the date and time shown herein.

JEFF L. THIGPEN, REGISTER OF DEEDS

By: _____
Deputy - Assistant Register of Deeds

* *

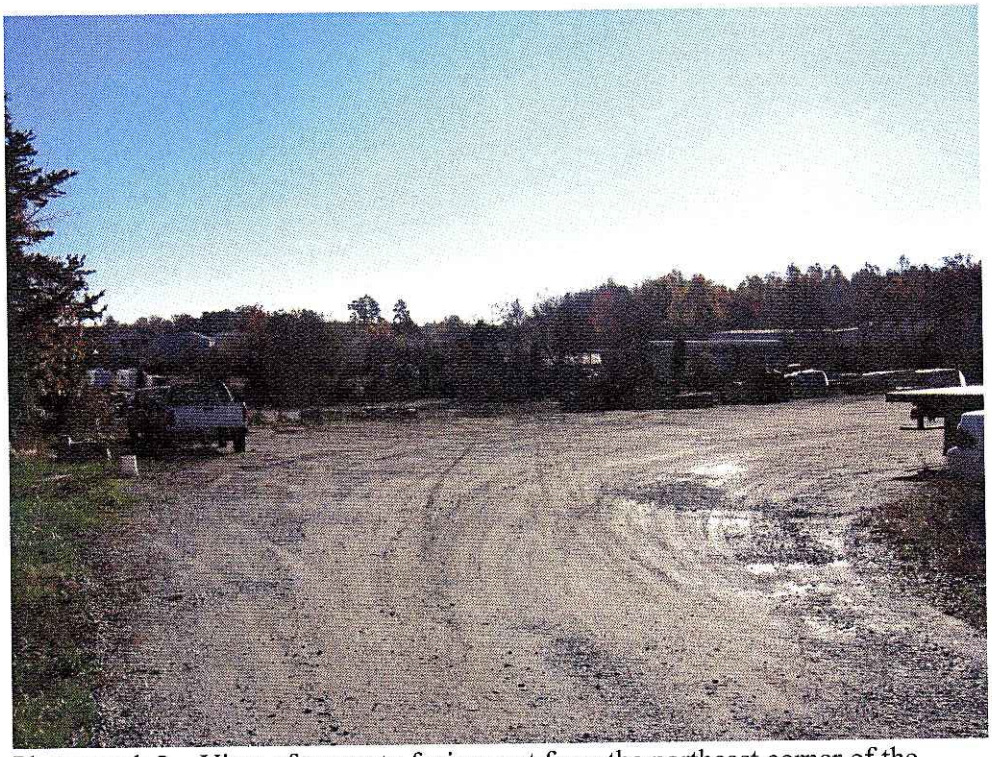
This certification sheet is a vital part of your recorded document.
Please retain with original document and submit when re-recording.

GC - 1046 (Rev. 12/08/04)

APPENDIX B

SITE PHOTOGRAPHS
BARBARA LEVY PROPERTY
TRIGON PROJECT NO. 075-06-007

Photograph 1 – View of property from entrance at Swing Road



Photograph 2 – View of property facing east from the northeast corner of the building

SITE PHOTOGRAPHS
BARBARA LEVY PROPERTY
TRIGON PROJECT NO. 075-06-007

Photograph 3 – View of eastern portion of the property

Photograph 4 – View of area with stained soil at the southeast corner of the building

APPENDIX C

Prepared For:

Community Heating and Plumbing
305 Swing Road
Greensboro, North Carolina 27409

Prepared By:

Trigon Engineering Consultants, Inc.
Post Office Box 18846
Greensboro, North Carolina 27419-8846

October 26, 1995

Underground Storage Tank Closure Report
305 Swing Road
Greensboro, North Carolina
Trigon Project No. 152-95-034

October 26, 1995

Community Heating and Plumbing, Inc.
305 Swing Road
Greensboro, NC 27409

Attention: Mr. Paul Levy

Reference: Underground Storage Tank Closure Report
305 Swing Road Facility
Greensboro, North Carolina
Trigon Project No. 152-95-034

Dear Mr. Levy:

Trigon Engineering Consultants, Inc. has completed the underground storage tank (UST) closure at the referenced site in general accordance with Trigon Proposal No. 152-95-074-P dated September 15, 1995. During the tank closure approximately 52 cubic yards of impacted soil was excavated and stockpiled on-site. An approximate three foot layer of gravel beneath the tank was found to be water saturated with a petroleum sheen observed on the surface. Approximately 1,674 gallons was pumped from the pit and disposed of. The chemical analysis of three soil samples collected from beneath the gravel did not detect any petroleum hydrocarbons in excess of 10 parts per million (ppm). This report summarizes Trigon's field activities, observations, and includes the laboratory report regarding the analysis of the closure soil samples.

BACKGROUND INFORMATION

The Community Heating and Plumbing, Inc. Swing Road facility is located at 305 Swing Road in Greensboro, North Carolina (Drawing 1). The site is currently used primarily for storage. It contains a two-story office building and attached warehouse. A 10,000 gallon gasoline underground storage tank (UST) and dispenser were located behind the office/warehouse structure. Trigon was contracted to observe the removal of the UST, dispenser, and associated piping and to collect the necessary closure samples.

Evergreen Environmental Services of Kernersville, North Carolina was contracted to remove and dispose of the UST. Prior to initiating the field activities, the required Notice of

Intent: UST Permanent Closure/Change in Service form (GW/UST-3) was filed with the Guilford County Department of Environmental Health and the local fire marshall's office was notified. A vacuum truck was used to pump residual liquids from the tank on October 6, 1995.

FIELD ACTIVITIES

The excavation equipment was mobilized to the site on October 10, 1995. The UST and dispenser were located behind the office/warehouse building (Drawing 2). The dispenser was disconnected from the product piping and removed. Soil was excavated from above and on the north side of the UST. The tank was observed to be oriented in an east-west direction with the top of the tank approximately four feet below the ground surface. Approximately three feet of product piping connected the dispenser island to the tank. At a depth of approximately 12 feet, a petroleum odor was noted in the soil and gravel that was being removed from the northwest corner of the excavation. An organic vapor analyzer (OVA) was used to field screen the material in the trackhoe bucket with a reading of 200 ppm recorded. A layer of plastic sheeting was placed on the ground and the soil stockpiled. As the excavation proceeded, additional soil that appeared to be impacted based on a petroleum odor and OVA readings of between 700 and 1,000+ ppm was removed from beneath the dispenser island and the southwest corner of the excavation.

Once the top of the tank was exposed, the product piping and submersible pump were removed from the tank. Once the entire tank was exposed, 200 pounds of dry ice was used to displace any vapors remaining in the tank. An oxygen meter was used to monitor the oxygen level in the tank until a reading of 2.1 percent was obtained. A member of the Guilford County Fire Department verified the reading and observed as the tank was removed from the excavation and examined. The tank was determined to be 26 feet 10 inches long and 8 feet in diameter with no holes observed in the tank walls. The tank was loaded on a flat bed trailer and transported to Safeway Tank Disposal. A copy of the transportation manifest and tank disposal certificate are included in Appendix A.

The 35 foot by 18 foot excavation was oriented as shown in Drawing 3. Once the tank had been removed, water was observed pooling in the gravel at the bottom of the pit. A petroleum sheen was observed forming on the surface of the water. A sump pump was used to pump water from the pit into drums. After the available drums were filled by approximately 350 gallons of water, no significant decline in the water level was observed. The trackhoe bucket was used to determine that approximately three feet of gravel remained in the bottom of the excavation.

On October 11, 1995, Evergreen mobilized their vacuum truck to the site to pump the remaining water from the excavation. Once the pit was dry, the water that had been stored in

drums was transferred to the vacuum truck. A gauge stick and conversion chart were used to calculate the volume of water in the tanker at approximately 1,674 gallons. The transportation manifest and disposal certificate for this water are included in Appendix A.

The gravel layer was excavated from the pit and stockpiled with the impacted soil. Three closure samples were collected from the residual soil at the locations shown on Drawing 3. The samples were retrieved using the trackhoe bucket and were collected at a depth of 16 feet (approximately one foot below the gravel layer). Soil samples collected for chemical analysis were placed into laboratory provided jars, labeled, and maintained on ice at approximately 4°C until delivered to an independent certified laboratory for analysis. A Chain-of-Custody document was utilized throughout the collection and transportation process. Additional soil from the sampling locations was placed into new Ziplock plastic bags and allowed to volatilize for approximately 10 minutes. The bag samples were then field screened using the OVA. OVA readings from the bag samples corresponding to laboratory samples PE-1, PE-2, and PE-3, were 28, 200, and 5.2 ppm, respectively. The volume of stockpiled impacted material was estimated at 51.85 cubic yards based on the stockpile dimensions of 20 feet by 28 feet by 7.5 feet high. One composite sample was created by using a hand auger to collect six discrete soil samples from various locations and depths in the stockpile. The retrieved soil from the six locations was mixed in a decontaminated bucket and a representative sample placed into a laboratory prepared jar, labeled and stored on ice until delivery to the laboratory. The edges of the plastic sheeting were secured to prevent rain water runoff and the stockpile was covered with an additional plastic sheet. North Carolina regulations require that the stockpiled material be properly disposed of within 45 days.

LABORATORY ANALYSIS

The soil samples were transported to Research & Analytical Laboratories of Kernersville, North Carolina where they were analyzed for low boiling point hydrocarbon content using EPA Method 5030. The laboratory report indicates that only the stockpile sample contained petroleum hydrocarbons at a concentration in excess of the method detection limit of 10 ppm. Petroleum hydrocarbon content was quantified at 67.9 ppm in the composite stockpile sample. The full laboratory report, including the Chain-of-Custody document, is included in Appendix B.

CONCLUSIONS

Trigon observed the excavation and removal from the site of one 10,000 gallon UST on October 9, 1995. A volume of impacted soil estimated to be approximately 52 cubic yards was removed from the UST excavation and stockpiled on-site. A petroleum sheen was observed on the surface of the water at the bottom of the excavation. Approximately 1,674 gallons of water was pumped from a three foot thick gravel layer at the bottom of the pit and disposed of. Three

closure samples were collected from the residual soil approximately one foot below the this gravel layer. One composite soil sample was created from the stockpiled material. Based on the results of the chemical analysis of the collected soil samples, no petroleum impact to the residual soil beneath the excavation is indicated. The detected petroleum concentration in the stockpile indicates this material will require remedial treatment.

A Site Investigation Report for Permanent Closure or Change-In-Service of UST (GW/UST-2) form was completed for this site and is enclosed in Appendix C. The white copy of this form should be submitted, along with a copy of this report, to the North Carolina Department of Environment, Health, and Natural Resources, Winston-Salem Regional Office at 585 Waughtown Street, Winston-Salem, North Carolina 27107.

CLOSURE

Trigon Engineering Consultants, Inc. appreciates the opportunity to be of service to Community Heating and Plumbing, Inc. Should you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

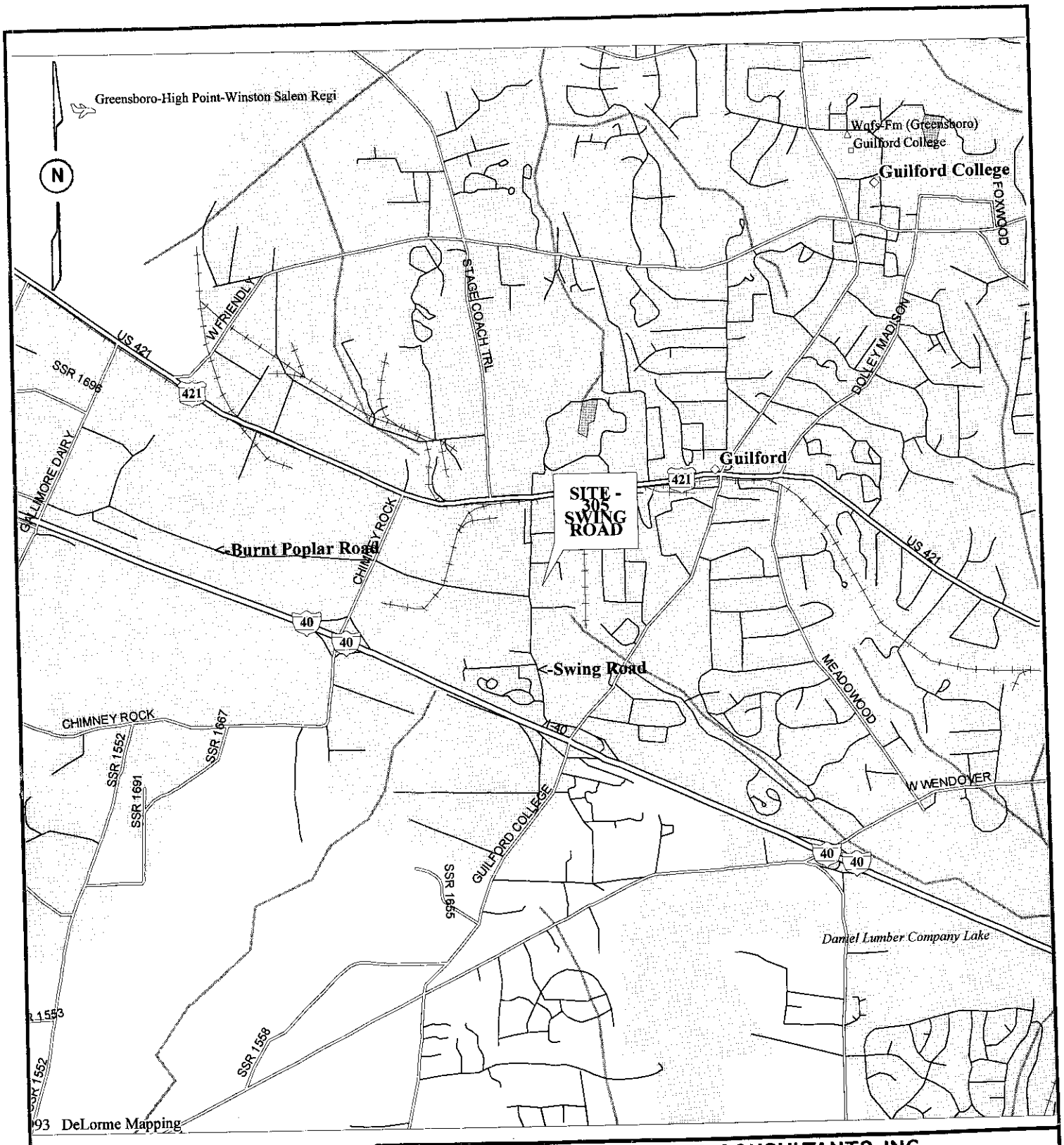
TRIGON ENGINEERING CONSULTANTS, INC.

J. Stuart Wiswall, P.G.
Project Geologist

W. Lee Henry, P.G.
Manager, Environmental Geology Department

JSW:WLH:srj

DRAWINGS



TRIGON ENGINEERING CONSULTANTS, INC

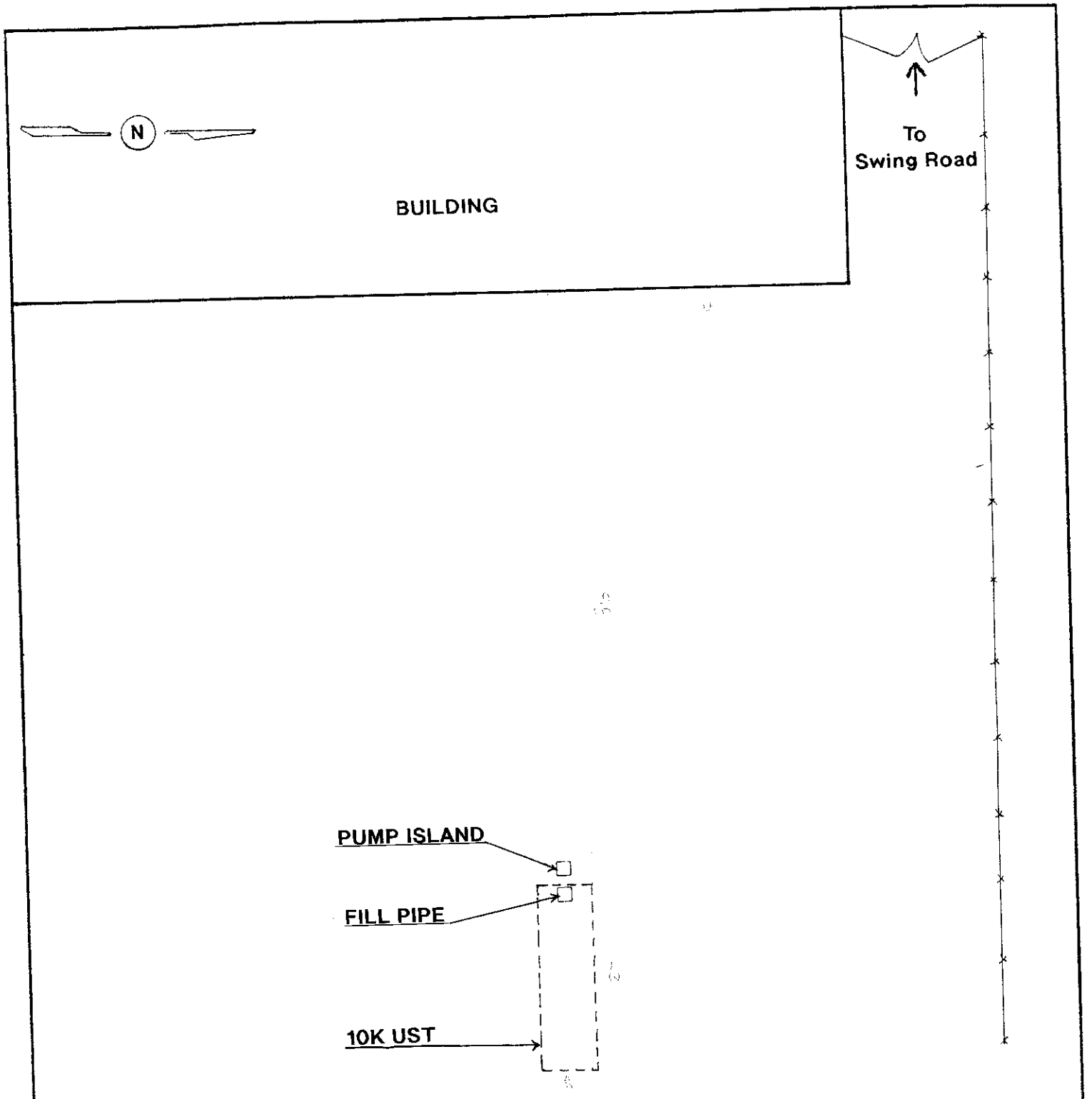
GREENSBORO,NORTH CAROLINA

SCALE: 1:31,250	APPROVED BY	DRAWN BY N/A
DATE: 10/20/95		

COMMUNITY HEATING & PLUMBING, INC.
305 SWING ROAD
GREENSBORO, NC

SITE LOCATION	DRAWING NUMBER 1

TELEDYNE POST N52908



TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

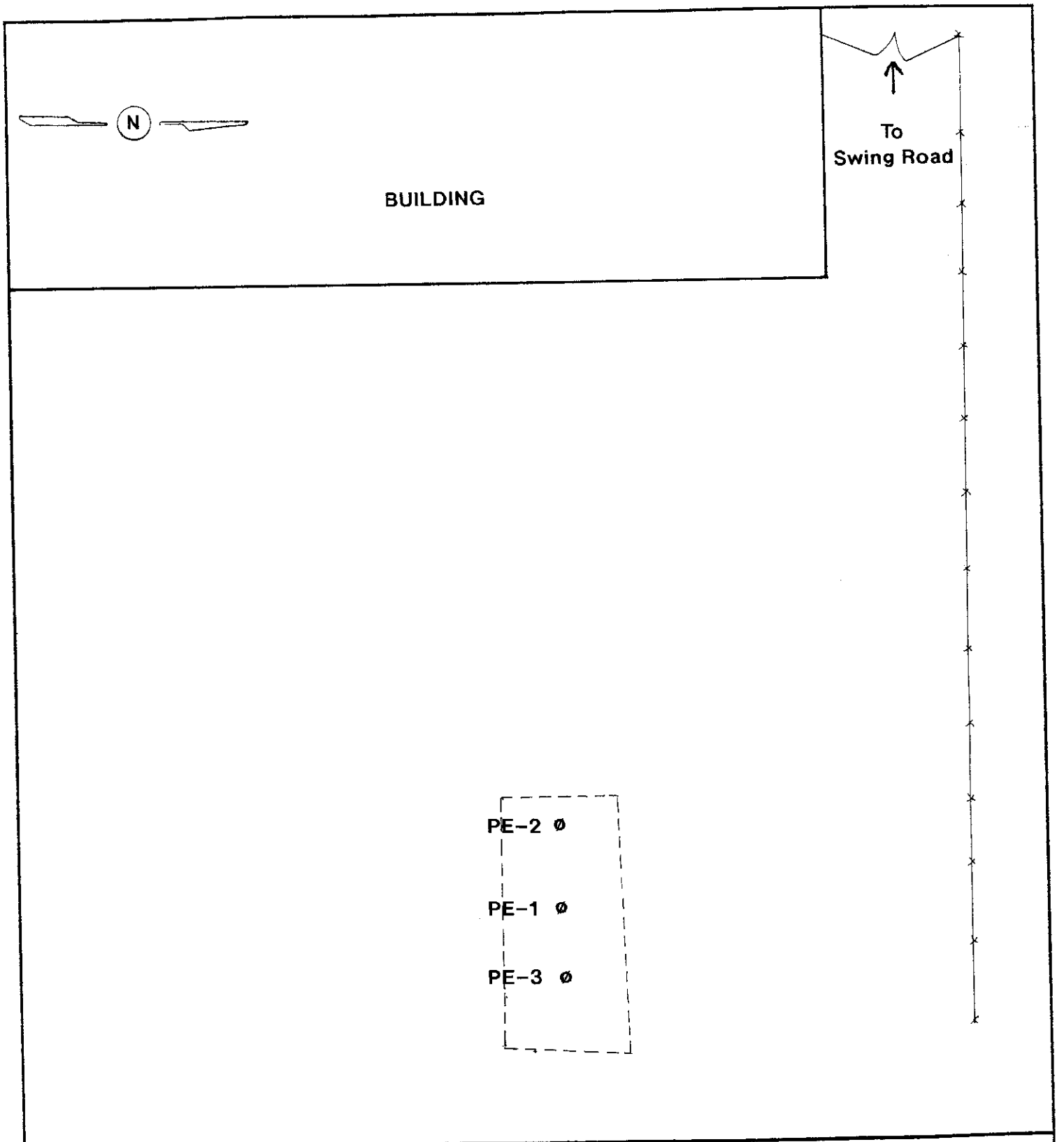
SCALE: 1" = 20'	APPROVED BY	DRAWN BY CMS
DATE: 10/24/95		

COMMUNITY HEATING & PLUMBING, INC.
305 SWING ROAD
GREENSBORO, NC

PARTIAL SITE PLAN SHOWING UST LOCATION

DRAWING NUMBER 2

TELEDYNE POST 1452908



LEGEND

ø = SAMPLE LOCATION

TRIGON ENGINEERING CONSULTANTS, INC. GREENSBORO, NORTH CAROLINA		
SCALE: 1" = 20'	APPROVED BY	DRAWN BY CMS
DATE: 10/24/95		
COMMUNITY HEATING & PLUMBING, INC. 305 SWING ROAD GREENSBORO, NC		
UST EXCAVATION AND SAMPLING LOCATIONS		DRAWING NUMBER 3

TELEDYNE POST N52908

APPENDIX A

NON-HAZARDOUS WASTE MANIFEST

HOH CORP Environmental Management

1701 Vargrave St., Winston-Salem, NC 27107 • 910-727-4644 • Fax 910-727-8840

Manifest # 002

Date: 10/11/95

Generator: Community Heating & Plumbing
305 Swing Road
Greensboro, NC 27409

Phone No: (910) 668-0093

EPA ID No: N/A

Contact: Lee Henry

Process which generated waste:

I certify that the materials described below are properly described, classified, packaged, marked and labeled, and are in proper condition to be transported in commerce under the applicable regulations of the State, the Environmental Protection Agency and the Department of Transportation. I certify that the waste described below is non–hazardous. I certify that the specific waste was delivered to the carrier named below for legal treatment, storage, or disposal at the site indicated.

Date _____ Signature _____

Description of Waste	Circle Form	Quantity	Circle Units	Container No.	Container Type
Water & Gas	Solid		Cu. Yards/Drums/Tons		
	Liquid	1674	Gallons/Drums		
	Gas		Pounds		
	Sludge		Cu. Yards/Drums/Tons		

Transporter: Evergreen ENvironmental Services
P O Box 1926
Kernersvillle, NC 27285

Unit Numbers: #45

Phone No: (910) 996-0181

EPA ID No: NCD986230134

Vehicle License Tag Number(s) LX 8008

Container: Bac Truck

I certify that the specified waste was transferred in a registered (licensed) vehicle to the disposal treatment, storage, or disposal facility named below and was accepted.

[signature] 10 11 95
Pick-up Driver's Signature *Date*

[signature] 10 11 95
Delivering Driver's Signature *Date*

Facility: HOH Corp
1701 Vargrave St.
Winston-Salem, NC 27107

Phone No: 910-727-4644

Permit No: 34-11TP

Contact: David Bryant

Handling Method: _____

I certify that the Transporter above delivered the specified material to this facility and was accepted and properly handled in the above manner. We are authorized and qualified by the State of _____ to handle this material.

Date 10/11/95 Signature [signature]

RECEIVED OCT 2 4 1995

ORIGINAL - Destination Retain **COPY 2 - Return to Generator YELLOW** **COPY 3 -Transporter Retain PINK** **COPY 4 - Generator Retain GOLDENROD**

1701 Vargrave St., Winston-Salem, NC 27107 • 910 727-4644 Fax 910-727-8810

OCTOBER 25, 1995

COMMUNITY HEATING AND PLUMBING
305 SWING ROAD
GREENSBORO, NC 27409

RE: CERTIFICATE OF DISPOSAL

DEAR SIRS,

HOH CORPORATION RECEIVED, TREATED, AND DISPOSED OF THE FOLLOWING WASTE MATERIAL FROM COMMUNITY HEATING AND PLUMBING LOCATED IN GREENSBORO, NC.

197 GALLONS OF WATER AND GAS FOR SOLIDIFICATION
1674 GALLONS OF WATER AND GAS FOR WASTEWATER TREATMENT

THE TREATED SLUDGE WAS MANIFESTED INTO PIEDMONT LANDFILL LOCATED IN KERNERSVILLE, N.C., UNDER HOH CORPORATION'S N.C. STATE SOLIDIFICATION PERMIT # 3411-TP AND THE TREATED WASTEWATER WAS RELEASED TO THE CITY OF WINSTON SALEM'S SEWER LINE UNDER HOH CORPORATIONS'S PRE-TREATMENT PERMIT # 1998.

HOH CORPORATION APPRECIATES YOUR BUSINESS AND IF THERE ARE ANY QUESTIONS PLEASE DO NOT HESITATE TO CALL US AT **910-727-4644**.

BEST REGARDS,

DAVID A. BRYANT
PRESIDENT
HOH CORPORATION

Printed on recycled paper

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of

3. Generator's Name and Mailing Address
Comm. Plumbing & Heating
305 Swing Rd
Greensboro NC. 28284

4. Generator's Phone ( )

5. Transporter 1 Company Name: Evergreen Environmental Service
6. US EPA ID Number: NCD986230134

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Safeway Tanks
Colfax NC.
10. US EPA ID Number

A. Transporter's Phone 910-996-0181
B. Transporter's Phone
C. Facility's Phone 910-996-2249

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. (1) 10,000 gas Tank (Steel)				
b. 8' X 27'				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Tim Mabe For Comm. Plumbing & Heating	Tim Mabe	10	09	95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Tim Mabe	Tim Mabe	10	09	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Richey Blevins	Richey Blevins	10	09	95

GENERATOR

TRANSPORTER

FACILITY

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ORIGINAL – RETURN TO GENERATOR

SAFEWAY TANK DISPOSAL,Inc.

CERTIFICATE OF TANK DISPOSAL

Customer
Evergreen Environmental
P.O. Box 1926
Kernersville,N.C. 27285

Date Oct.25,1995

Transported by: Customer

TANK #	SIZE	WEIGHT	PRODUCT	RESIDUE	ORIGIN
9760	10,000	8335#	Gas.	21 gals	Community Plumping & Heating
					305 Swing Rd.
					Greensboro,N.C.

Total residue 21 gals

Tanks were disposed in accordance with API 1604, 1987 Removal and Disposal of used Underground Petroleum Storage Tanks. Residue was Disposed in accordance with U.S.EPA Regulations by licensed sub-contractor. Lead free scrap steel was recycled by

United Metal Recyclers on 10/13/95

APPENDIX B

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYST

18 October 1995

Trigon Engineering
313 Galimore Dairy Road
Greensboro, NC 27409

Attention: Stuart Wiswall

Project Number: 152-95-034
Project Name: N/A

Sample Number	Date Taken	Time (hrs)	Station Location	RAL Sample#	EPA* Method	Results (ppm)
PE-1	10/11/95	0917	Mid Tank - 16'	251965	5030	<10
PE-2	10/11/95	0921	West End - 16'	251966	5030	<10
PE-3	10/11/95	0936	East End - 16'	251967	5030	<10
Stockpile	10/11/95	1253	Stockpile Comp.	251968	5030	67.9

EPA Method 5030 = Total Petroleum Hydrocarbons As Gasoline
ppm = Parts Per Million
< = Less Than or Below Detection Limits

P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 910/996-2841

RECEIVED OCT 20 1995

RESEARCH & ANALYTICAL LABORATORIES, INC.
Analytical/Process Consultations
Phone [919] 996-2841

CHAIN OF CUSTODY RECORD

JOB NO.

PROJECT NAME: 152-95-034

SAMPLERS (SIGNATURE): J Stuart Wiswall

WATER/WASTEWATER | MISC.

SAMPLE NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	2L G (BNA, Herb./Pest.)	40ml Vials (VOA)	250ml G (TOX)	250ml P (TOC)	1L PG (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease)	1L PG (COD, N,P)	1L PG (Metals, Hardness)	Sterile PG (Coliform)				5030				REQUESTED ANALYSIS
PE-1	10/11/95	917A		/	mid tank -16'	1				251	965								/				TPH BY 5030
PE-2	10/11/95	921		/	WEST End -16'	1					966								/				
PE-3	10/11/95	936A		/	EAST End 16'	1					967								/				
Stockpile	10/11/95	1253P	/		Stockpile Composite	1					968								/				

RELINQUISHED BY	DATE/TIME	RECEIVED BY
J Stuart Wiswall	10/11/95 1330	S Smith
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: Results to Trigon Engineering office Attn: Stuart Wiswall
Please provide results ASAP

RECEIVED OCT 20 1995

APPENDIX C

(GW/UST-2) **Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.**

FOR TANKS IN **NC**

Return Completed Form To:
The appropriate DEM Regional Office according to the county of the facility's location. [SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only
I.D. Number _____
Date Received _____

INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Community Heating & Plumbing
Street Address: 305 Swing Road
County: Guilford
City: Greensboro, NC State: NC Zip Code: 27409
Area Code: 910 Telephone Number: 292-3045

II. Location of Tank(s)

Facility Name or Company: Community Heating & Plumbing
Facility ID # (if available): 0-034385
Street Address or State Road: 305 Swing Road
County: Guilford City: Greensboro Zip Code: 27409
Area Code: 910 Telephone Number: 292-3045

III. Contact Person

Mr. Paul Levy (Name) — Owner (Job Title) — 910 292-3045 (Telephone No. (Area Code))
Closure Contractor: Evergreen Environmental (Name) — P.O. Box 1926, Kernersville, NC (Address) — 910 996-0181 (Telephone No. (Area Code))
Lab: Research & Analytical (Name) — Short Street, Kernersville, NC (Address) — 910 996-2841 (Telephone No. (Area Code))

IV. U.S.T. Information / **V. Excavation Condition**

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water In Excavation Yes	Water In Excavation No	Free Product Yes	Free Product No	Notable Odor or Visible Soil Contamination Yes	Notable Odor or Visible Soil Contamination No
1	10,000	26'10"x8'	Gasoline	x		Sheen		x	

VI. Additional Information Required

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

VII. Check List

Check the activities completed.

- [X] Contact local fire marshall
- [X] Notify DEM Regional Office before abandonment.
- [X] Drain & flush piping into tank.
- [X] Remove all product and residuals from tank
- [X] Excavate down to tank.
- [X] Clean and inspect tank.
- [X] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
- [X] Cap or plug all lines except the vent and fill lines.
- [X] Purge tank of all product & flammable vapors.
- [X] Cut one or more large holes in the tanks.
- [X] Backfill the area.

Date Tank(s) Permanently closed: 10/9/95
Date of Change-in-Service: _____

ABANDONMENT IN PLACE

- [ ] Fill tank until material overflows tank opening;
- [ ] Plug or cap all openings;.
- [ ] Disconnect and cap or remove vent line
- [ ] Solid inert material used - specify: _____

REMOVAL

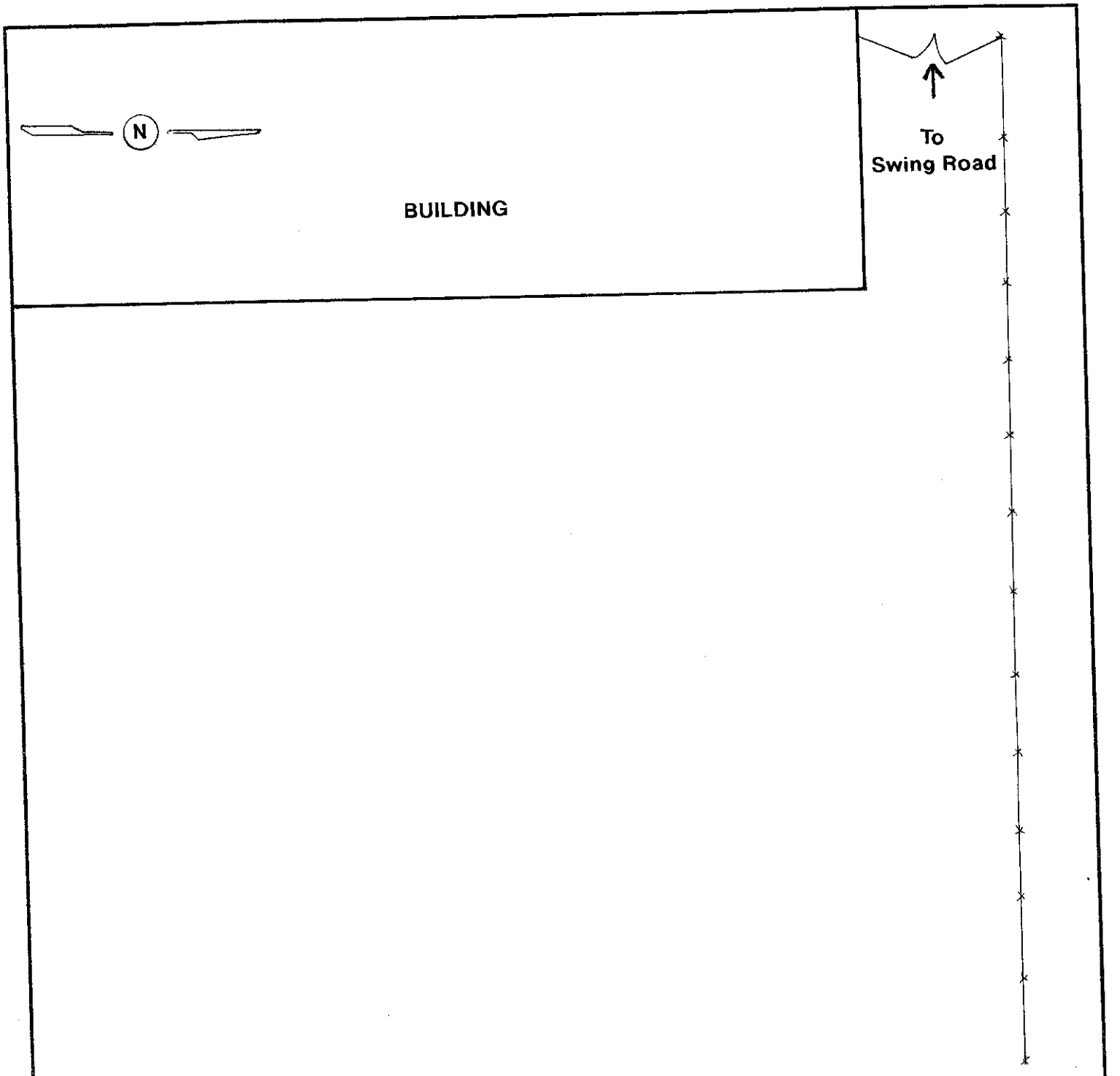
- [X] Create vent hole
- [X] Label tank
- [X] Dispose of tank in approved manner

Final tank destination: Safeway Tank Disposal

VIII. Certification (Read and Sign)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. TRIGON ENGINEERING CONSULTANTS, INC.

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
J. Stuart Wiswall, P.G., Geologist	J. Stuart Wiswall	10/26/95



TRIGON ENGINEERING CONSULTANTS, INC.

GREENSBORO, NORTH CAROLINA

SCALE: 1" = 20'	APPROVED BY	DRAWN BY
DATE: 10/24/95		

COMMUNITY HEATING & PLUMBING, INC.
305 SWING ROAD
GREENSBORO, NC

DRAWING NUMBER

TELEDYNE POST N52908

APPENDIX D

Prepared For:

Community Heating and Plumbing
305 Swing Road
Greensboro, NC 27409

Incident # 15261

Prepared By:

Trigon Engineering Consultants, Inc.
Post Office Box 18846
Greensboro, North Carolina 27419-8846

May 6, 1996

Comprehensive Site Assessment
305 Swing Road
Greensboro, North Carolina 27409
Trigon Job No. 152-95-034

May 6, 1996

Community Heating & Plumbing
305 Swing Road
Greensboro, North Carolina 27409

Attention: Mr. Paul Levy

Reference: Comprehensive Site Assessment
Community Heating and Plumbing
Greensboro, North Carolina
Trigon Job No. 152-95-034

Dear Mr. Masters:

Trigon Engineering Consultants, Inc. is pleased to present the Comprehensive Site Assessment (CSA) for the above-referenced site in general accordance with Trigon Proposal No. 152-96-013-P. The CSA is required by the North Carolina Department of Environment Health, and Natural Resources (NCDEHNR) in response to an NOV issued on February 13, 1996. The CSA determines the horizontal and vertical extent of soil and groundwater contamination; identifies and assesses risk to potential receptors; and is a preliminary evaluation of appropriate corrective actions.

Should you have any questions regarding this information, please feel free to contact the undersigned at your convenience.

Very truly yours,

TRIGON ENGINEERING CONSULTANTS, INC.

Carin L. Kromm
Project Geologist

J. Stuart Wiswall, P.G.
Project Geologist

W. Lee Henry, P.G.
Environmental Geology Department Manager

CLK:JSP:WLH:dmk
Enclosure

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EXECUTIVE SUMMARY

Trigon Engineering Consultants, Inc. (Trigon) was contracted by Community Heating and Plumbing to conduct a Comprehensive Site Assessment (CSA) at 305 Swing Road. The company has been located at this site since 1965. Activities at the site included the removal of one UST, soil borings, and the installation of monitoring wells.

A total of seven groundwater monitoring wells have been installed at the site. Six were constructed with the screened interval intersecting the water table and one Type III well was installed with the screen below the water table to evaluate the bedrock aquifer.

The volatile organic compounds (VOCs), chloroform, tetrachloroethene, and methyl tert butyl ether (MTBE), were detected in three wells at concentrations exceeding the North Carolina 2L Groundwater Standards. The volatiles that are constituents of gasoline are localized in the vicinity of the former 10,000-gallon, gasoline UST. Tetrachloroethene, a chlorinated compound commonly used as a solvent, was detected at the greatest concentration in the upgradient well. Its presence in groundwater at the site could be related to an upgradient off-site source. The presence of chloroform in the Type III well could be related to the use of municipal water during drilling activities during this investigation or may be a laboratory artifact.

1.0 SITE HISTORY AND SOURCE CHARACTERIZATION

The subject site was operated as a heating and plumbing service contractor. One building of approximately 16,200± square feet in size, consisting of a workshop and warehouse space is situated on the 3.61 acre site. The facility is located at 305 Swing Road in Greensboro, North Carolina in Guilford County (Figure 1). The property is currently owned by Mr. Bert Levy and operated by Community Heating & Plumbing of Greensboro, North Carolina. The site has existed in roughly its current state since 1965. Prior to 1965, the land was pastureland. Current and former ownership during this period is shown in Table 1.

Table 1
Site Ownership Facility
305 Swing Road

Owner	Dates	Use
Mr. Bert Levy	1965 to present	Heating and plumbing service contractor
Mr. Lloyd Gallimore	Prior to 1965	Pasture

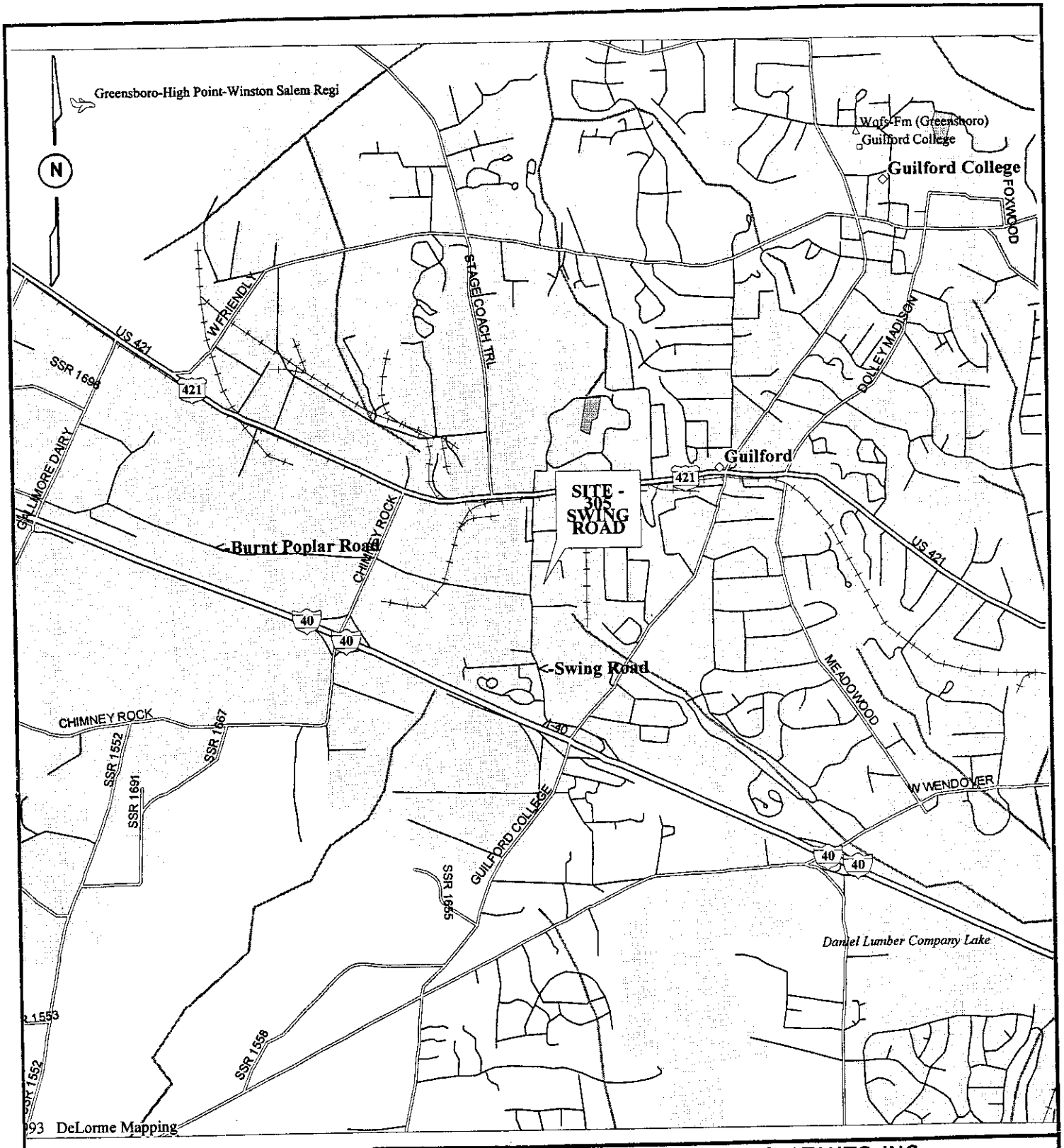
1.1 Previous Releases

According to the tenant, Mr. Paul Levy, no releases or spills have occurred onsite.

1.2 Previous Investigations

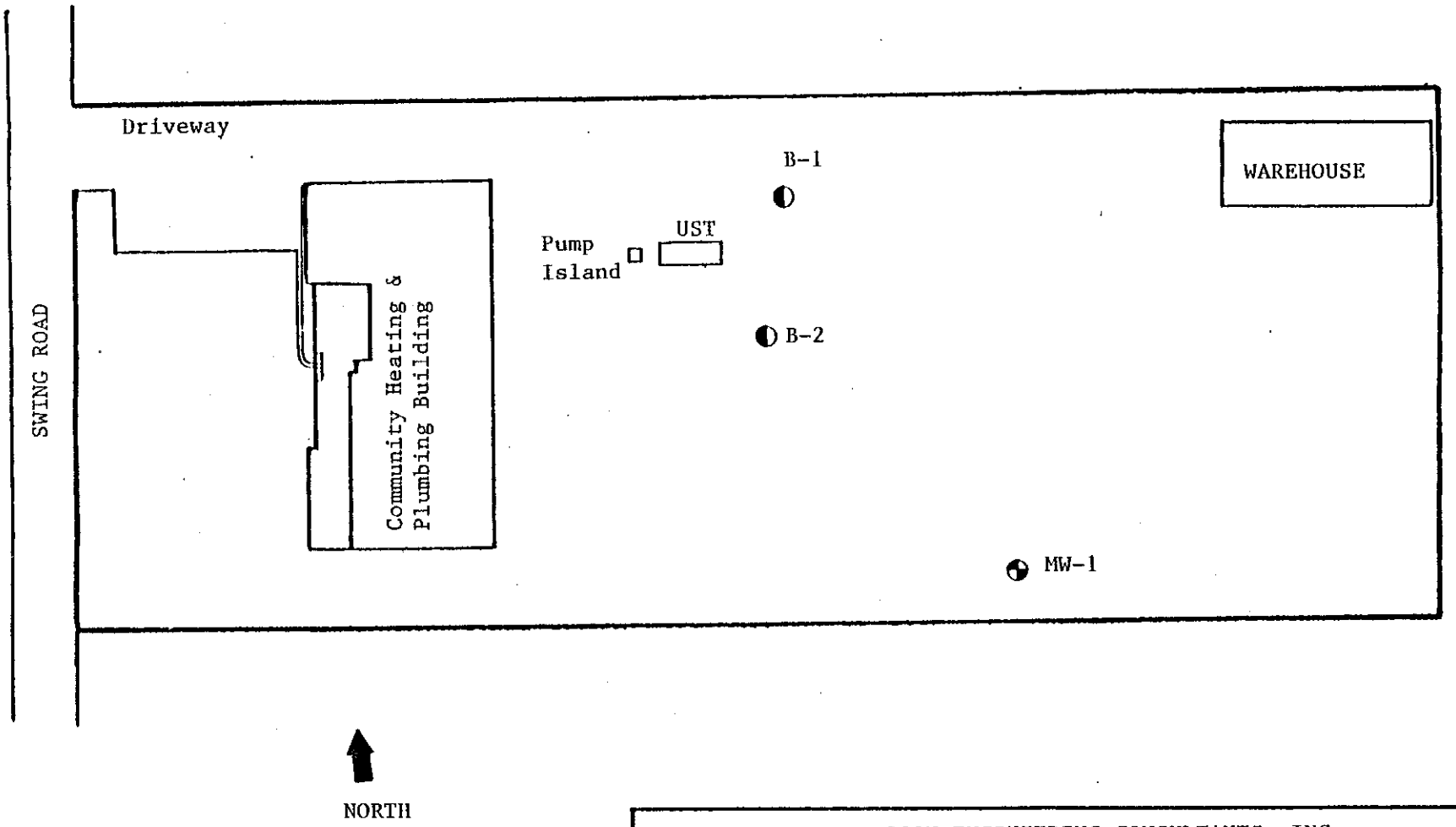
In October 1991, two soil borings were advanced adjacent to and downgradient of the 10,000 gallon gasoline UST. Three soil samples from two borings was submitted for chemical analyses because field screening with the OVA were above background levels. Soil samples were analyzed for Total Petroleum Hydrocarbons: #2 fuel oil, kerosene, and varsol (SW846-3550/GC-FID Analysis) and petroleum hydrocarbon blends with a distillation range similar to gasoline (SW846-5030/GC-FID analysis). A groundwater monitoring well, MW-1, was installed to depth of 20 feet to evaluate downgradient groundwater quality. Figure 2 illustrates the locations of soil borings and monitoring well. Groundwater samples were collected and analyzed for VOCs by EPA Method 624 and Base Neutral Acid Extractables by EPA Method 625. None of the targeted compounds were detected in groundwater. The report recommended that no further investigations were warranted.

In October 1995, Trigon Engineering Consultants, Inc., was contracted to oversee an underground storage tank (UST) closure as well as prepare an UST Closure Report for submittal to the Guilford County Department of Public Health-Environmental Health Division. Closure activities commenced on October 10, 1995 and consisted of the removal of a 10,000-gallon, gasoline UST which was registered in the North Carolina UST database. During the excavation of the UST, groundwater was observed at a depth of 12 feet accompanied by an oil sheen and a petroleum odor. A total of 52 cubic yards of soil were removed and stockpiled onsite. Approximately 1,674 gallons of water were pumped from a three foot thick gravel layer at the bottom of the excavated pit and disposed of by HOH Corp. The sludge from the tank was disposed of in Piedmont Landfill and the water was taken to HOH Corp.'s Winston-Salem



TRIGON ENGINEERING CONSULTANTS, INC GREENSBORO,NORTH CAROLINA		
SCALE: 1:31,250	APPROVED BY	DRAWN BY N/A
DATE: 10/20/95		
COMMUNITY HEATING & PLUMBING, INC. 305 SWING ROAD GREENSBORO, NC		
SITE LOCATION		DRAWING NUMBER 152-95-034-1

TELEDYNE POST N52908



LEGEND

◐ - Soil Boring

◕ - Monitoring Well

TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: N/A	APPROVED BY KR	DRAWN BY N/A
DATE: 11/01/91		

Community Heating & Plumbing Facility
305 Swing Road
Greensboro, North Carolina

Location of Soil Borings & Monitoring Well	DRAWING NUMBER 152-95-034-2

TELEDYNE POST 18AB-01

facility for treatment. Soil samples were collected for laboratory analyses in the bottom of the pit and in the stock-piled soil. Figure 3 illustrates the location of the UST excavation and soil boring samples. According to the results of the analyses, the petroleum product had not affected soil in the bottom of the pit but the stock-piled soil required disposal.

In response to the recommendations from the closure investigation, Trigon Engineering Consultants, Inc. installed two monitoring wells to characterize the nature and extent of petroleum contamination in the groundwater at the subject property. Well installation activities commenced on December 18, 1995. Monitoring well, MW-2, was installed to a depth of 25.0 feet adjacent to the former location of the 10,000 gallon UST. Monitoring well, MW-3, was installed to a depth of 15.0 feet topographically downgradient of MW-2. Split-spoon soil samples were collected at five foot intervals and field screened with an organic vapor analyzer (OVA). Groundwater samples were collected and analyzed for volatile organic compounds (VOCs) by EPA Methods 601 and 602 plus methyl tert butyl ether (MTBE), isopropyl ether (IPE), ethylene dibromide (EDB), xylenes, and lead by EPA Method 3030C. No samples were collected from previously existing MW-1, at this time.

Chemical results indicated that three of the four compounds (tetrachloroethene, benzene, MTBE, and lead) detected in MW-2 were at concentrations above the NCAC Title 15A, Subchapter 2L Standards for Class GA Groundwater (2L Standards). Lead was the only analyte detected at concentrations below the standards. All compounds, except tetrachloroethene, are constituents of gasoline. Two compounds, MTBE and lead, were detected at concentrations below the 2L Standards in groundwater samples from well MW-3.

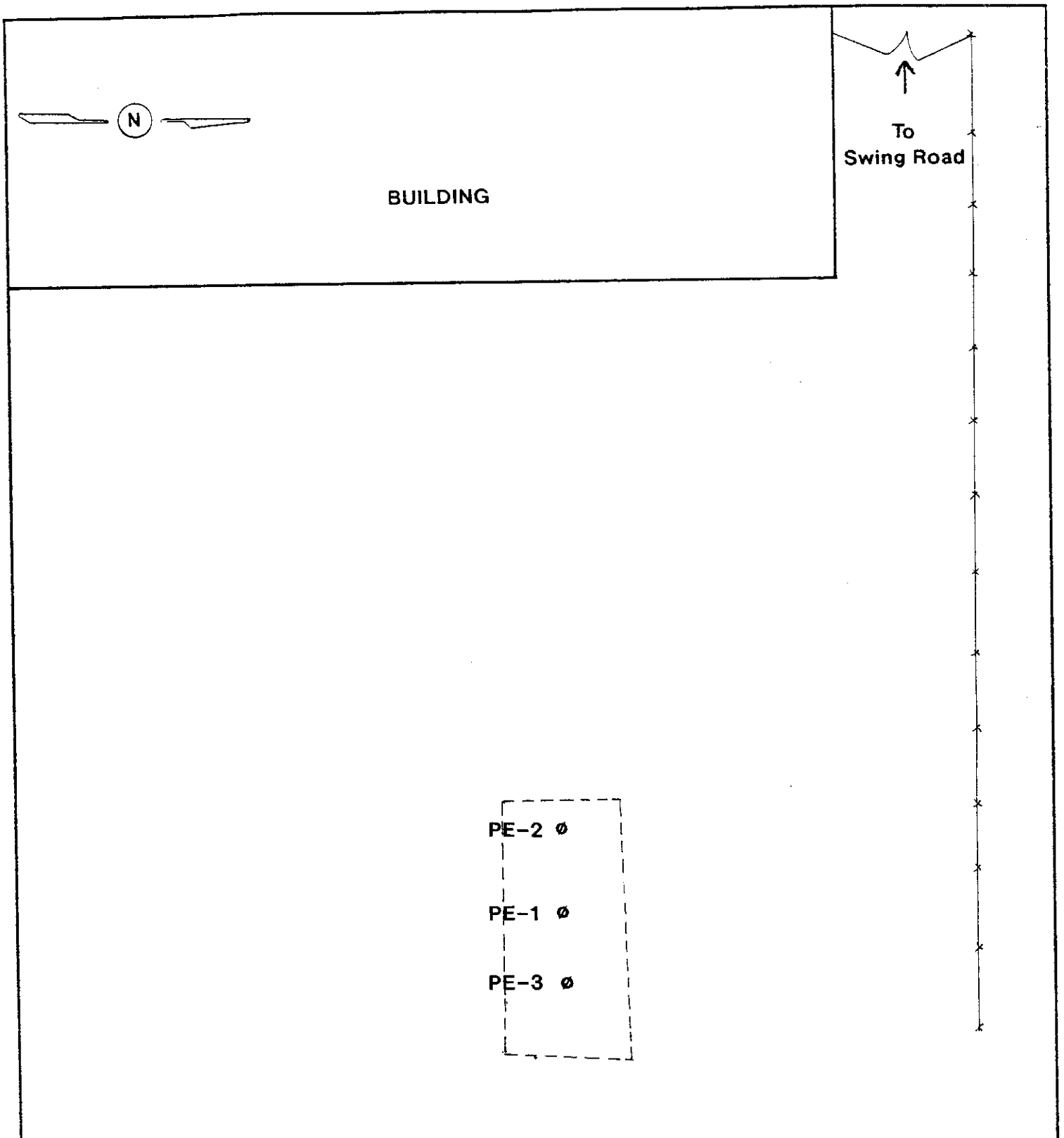
1.3 Notice of Violation

The North Carolina Department of Environment, Health and Natural Resources (NCDEHNR) issued a Notice of Violation (NOV) on February 13, 1996 in response to the analytical results of the groundwater samples collected from MW-2 and MW-3 in December, 1995. This investigation has been conducted in an effort to satisfy the requirements of the NOV.

1.4 Summary of Corrective Actions To Date

Initial remedial activities included the excavation and disposal of 52 cubic yards of soil from the excavation associated with the UST closure. Trigon Engineering Consultants, Inc,. was responsible for oversight of Evergreen Environmental Services, Inc. who performed the excavation and disposed of the soil.

During UST closure activities, liquid with a noticeable sheen and petroleum odor was observed by Trigon personnel in the bottom of the excavation. Approximately 350 gallons of water was pumped into 55-gallon drums with a sump pump, with no significant drawdown of the water level. In addition, a vacuum truck was used to pump approximately 1,675 gallons of water remaining in the excavation pit. The remaining gravel fill material was removed from the excavation.



LEGEND

ø = SAMPLE LOCATION

TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: 1" = 20'	APPROVED BY	DRAWN BY CMS
DATE: 10/24/95		

COMMUNITY HEATING & PLUMBING, INC.
305 SWING ROAD
GREENSBORO, NC

UST EXCAVATION AND SAMPLING LOCATIONS

DRAWING NUMBER
152-95-034-3

TELEDYNE POST 152908

2.0 POTENTIAL RECEPTORS AND MIGRATION PATHWAYS

2.1 Subsurface Utilities

Subsurface utility lines are reportedly located around the perimeter of the subject property. A municipal water system line is located on the northern edge of the property. The sanitary sewer conduit is located behind the building and runs east toward the southeast portion of the property to the closest easement. No other utilities are known to buried at the subject property. Before drilling operations began, the sanitary sewer conduit was located to prevent breakage. Stormwater runoff appears to be directed toward a small stream located off-site to the east of the subject property. Electricity is provided to the subject property by overhead lines.

2.2 Water Supply of Subject Property

According to the City of Greensboro Water Utilities Administration, the subject property is served by municipal water supply. No water supply wells are known to exist at the site.

2.3 Water Supply of Adjacent Properties

All adjacent properties are served by the Greensboro municipal water supply system. A topographic map of the site is presented in Figure 4. No surface water intakes for the City of Greensboro are located within 0.5 mile of the subject property. Figure 5 illustrates the property surrounding the site within a 1,500 foot radius. Adjacent property owners are presented in Table 2.

2.4 Source Characterization

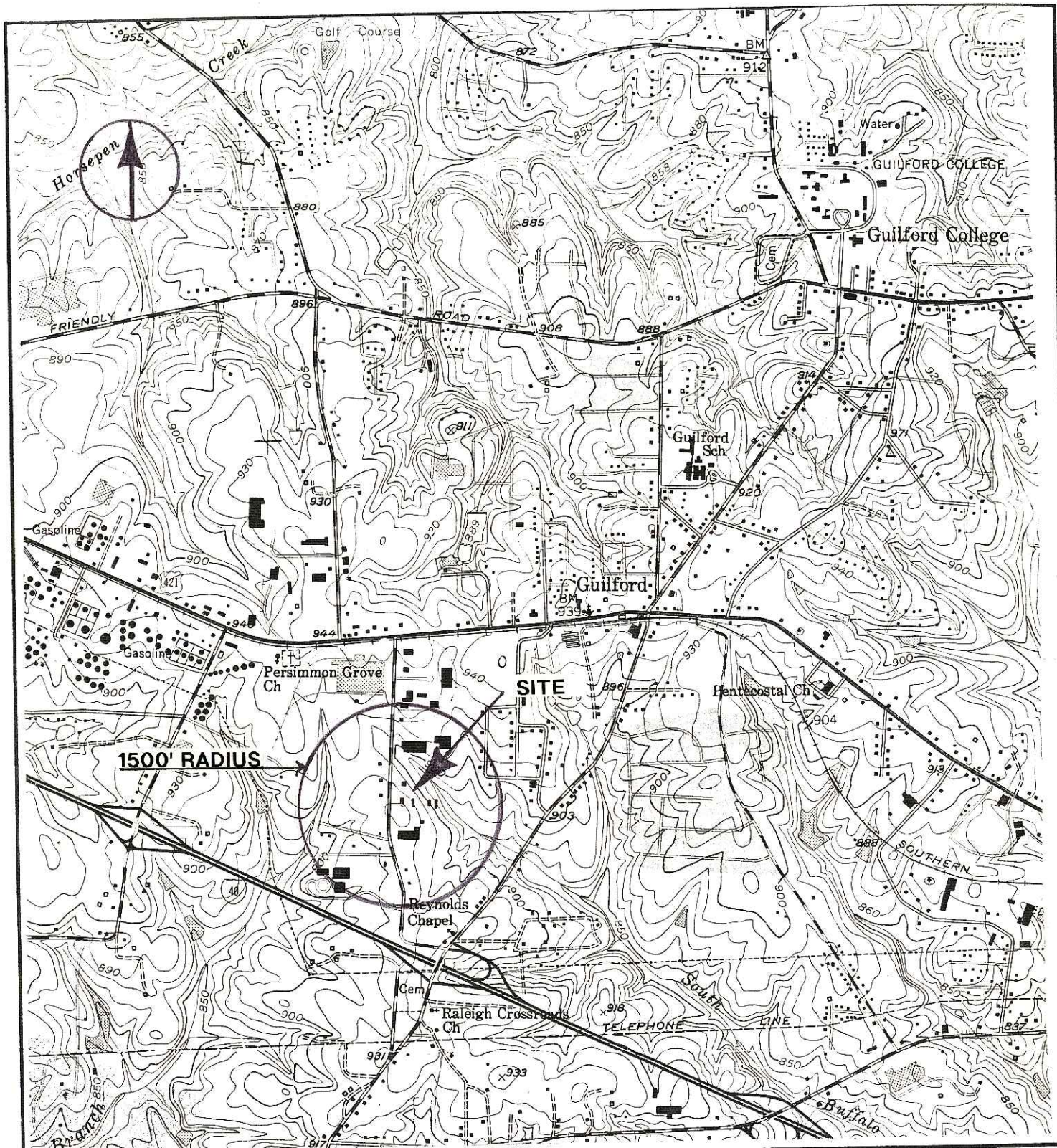
A site reconnaissance was conducted as part of the CSA investigation. Several other areas were identified as potential sources of contamination to site media. The following is a list of potential sources:

- Drum storage area and location on the southwestern portion of the site adjacent to the building, approximately twelve 55-gallon chlorodifluoromethane drums, one 55-gallon unnamed solvent drum, and one 55-gallon trichlorofluoromethane drum. It is unknown at this time whether the drums currently contain these materials.

- Two areas of stained soil and stressed vegetation located on the eastern portion of the site.

- Four 55-gallon potassium hydroxide drums among several 5 gallon cutting oil buckets.

- Numerous empty, overturned 55-gallon drums randomly distributed across the site.



NO WATER SUPPLY WELLS IDENTIFIED WITHIN 1500'

TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

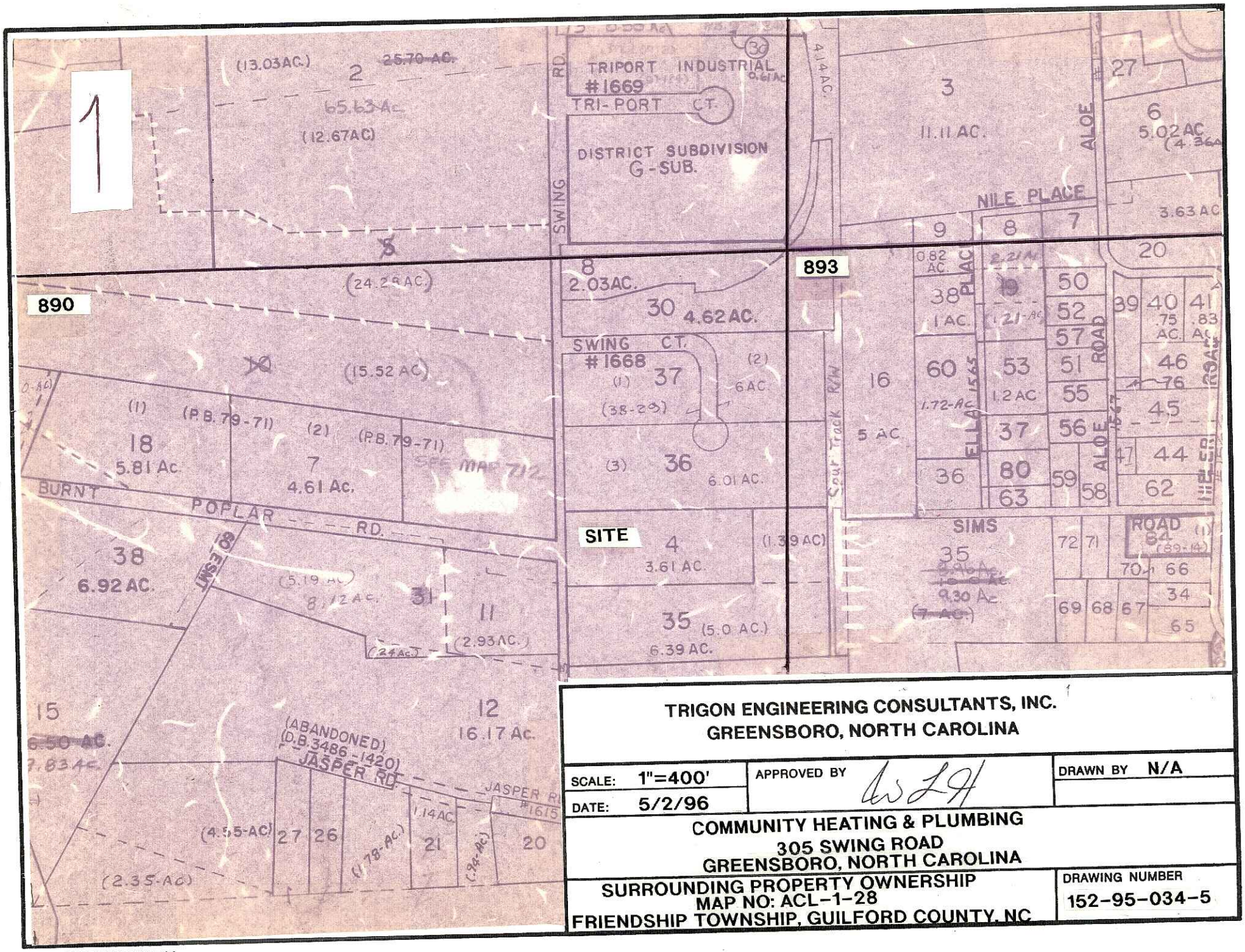
SCALE: 1"=24,000'	APPROVED BY	DRAWN BY N/A
DATE: 5/2/96		

COMMUNITY HEATING & PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA

SITE LOCATION AND SUROUNDING PROPERTIES WITHIN 1500' RADIUS

DRAWING NUMBER
152-95-034-4

TELEDYNE POST N52908



TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: 1"=400'	APPROVED BY	DRAWN BY N/A
DATE: 5/2/96		

COMMUNITY HEATING & PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA

SURROUNDING PROPERTY OWNERSHIP
MAP NO: ACL-1-28
FRIENDSHIP TOWNSHIP, GUILFORD COUNTY, NC

DRAWING NUMBER
152-95-034-5

TELEDYNE POST 18AB-01

Table 2
Adjacent Property Owners
305 Swing Road
Greensboro, North Carolina
Trigon Job No. 152-95-034

Lot Number	Owner	Address
36	Airport Warehouse Limited Partnership	P.O. Box 9515 Greensboro, NC 27429-0515
35	Fischbach Properties, Inc.	7 Hanover Square New York, NY 10004-0000
11	Ciba-Ceigy Corporation	P.O. Box 18300 Greensboro, NC 27419-8300
35 (Block 893)	Ciba-Ceigy Corporation	Same as above
16 (Block 893)	Hall Morie Smith Estate	c/o Bradley L. Jacobs P.O. Box 2888 Greensboro, NC 27402
007	Swing Road Office Park	222-6 Swing Road Greensboro, NC 27409

3.0 SOIL INVESTIGATION

According to the 1985 Geologic Map of North Carolina, local bedrock consists of metamorphosed granite. Residual soils beneath the site have presumably formed from the weathering of this parent material. Soil boring data indicates that a significant volume of fill material is present at the site.

During installation of four groundwater monitoring wells, penetrated soils consisted of red-brown sandy clayey silt to grey brown fine grained sandy silt. Split-spoon samples were collected at five-foot intervals. Each split-spoon was analyzed with a Foxboro 128, organic vapor analyzer (OVA) for volatile organics. The OVA operates by flame ionization detection (FID). The soil samples were placed in sealable plastic bags and allowed to volatilize for a minimum of ten minutes before screening.

OVA readings ranged from 0.2 ppm to greater than 1000 ppm. With the exception of boring MW-6, the interval with the highest concentrations was between 10 to 12 feet below ground surface (bgs). The greatest OVA concentration was detected in boring MW-4 located upgradient from the former location of the UST. The subject property appears to have been extensively filled. The natural land surface beneath the fill was at a depth of approximately 10 to 12 feet and appeared to consist of mainly organic material. High OVA levels can most likely be attributed to methane related to the high organic content in the soil. In boring MW-6, groundwater was encountered at a depth of 5.72 feet bgs. The greatest concentration was detected at initial groundwater (and the residual soil interface) at an interval of five and seven feet bgs. Because previous soil samples appeared to be unaffected by potentially contaminated groundwater, soil samples were not collected for analyses, nor a contaminated soil distribution figure or cross-section prepared.

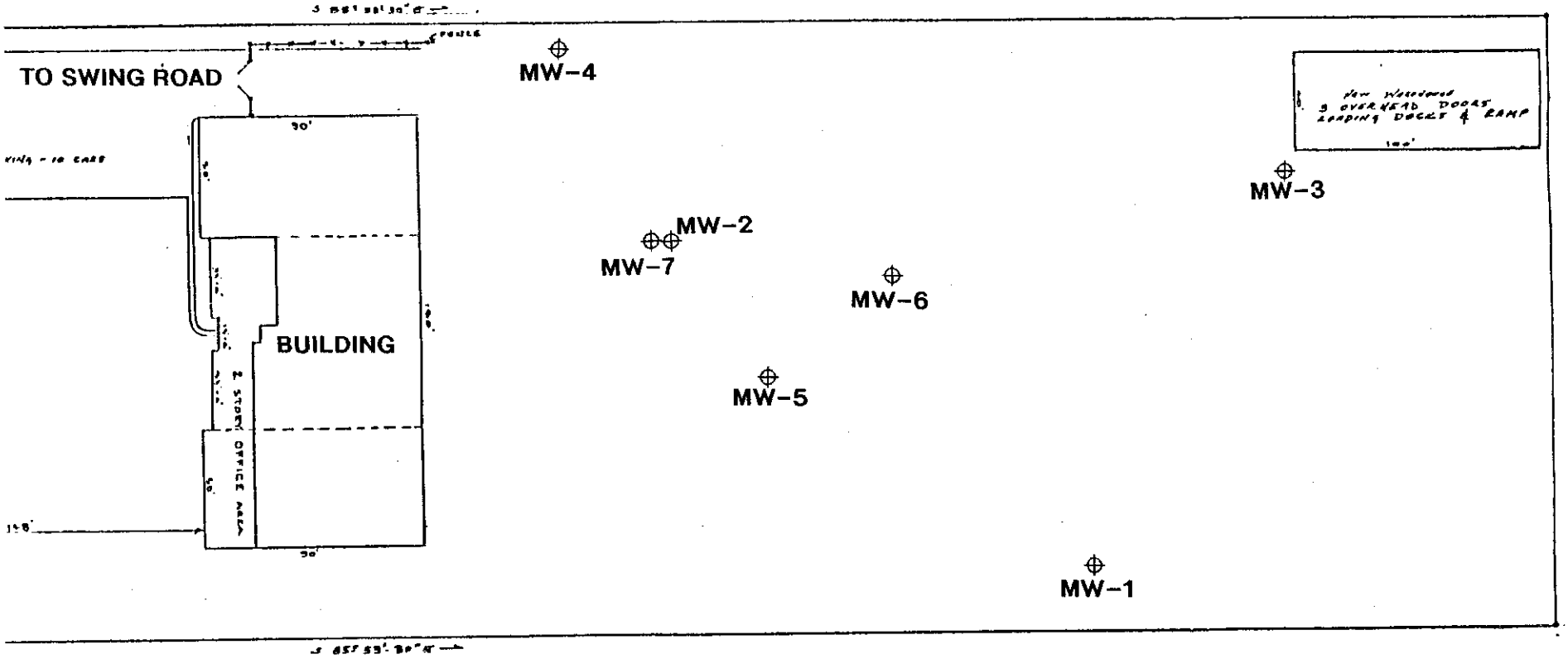
OVA readings are recorded on the soil test boring logs and are presented in Appendix A.

4.0 GROUNDWATER INVESTIGATION

4.1 General Well Installation Methodology

To date, a total of seven groundwater monitoring wells have been installed at the site (Figure 6). Six of these wells were installed with the screened interval intersecting the water table. Monitoring well MW-7 was constructed as a Type III well which is screened below the water table in the bedrock. Each well was constructed of 2-inch schedule 40 PVC materials and in accordance with NCDEHNR well construction guidelines.

Groundwater monitoring wells MW-1 through MW-7 were surveyed in order to determine the well elevations based on an arbitrary elevation of 100 feet from a benchmark at the site. Arbitrary well elevations (top of casing) are included on the soil test boring logs.



TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: 1"=67'	APPROVED BY	DRAWN BY N/A
DATE: 5/2/96		

COMMUNITY HEATING & PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA

LOCATIONS OF
GROUNDWATER MONITORING WELLS

DRAWING NUMBER
152-95-034-6

⊕=GROUNDWATER MONITORING WELL LOCATION

TELEDYNE POST 18AB-01

Prior to Trigon's subsurface investigation, the drill rig and tools were decontaminated with a high pressure hot water steam cleaner. Also, between each well location the tools were decontaminated to prevent the chance of cross-contamination. The split-spoon sampler was decontaminated in a solution of distilled water and Alconox detergent.

4.2 Well Installation and Chemical Analysis Chronology

Monitoring wells MW-1, MW-2 and MW-3 were previously installed and discussed in detail in Section 1.2, Previous Investigations.

Between February 29 and March 1, 1996 three shallow groundwater monitoring wells and one bedrock monitoring well were installed by Trigon in an effort to evaluate groundwater quality in the shallow water table aquifer and in the bedrock aquifer. Monitoring wells MW-4 and MW-5 were located upgradient and downgradient of the former UST location. Monitoring well MW-6 was located between MW-2 and MW-3 in which volatile organics were previously detected. MW-7, the Type III well, was located adjacent to MW-2 in order to evaluate the groundwater quality in the bedrock aquifer in the vicinity of the former USTs. Well construction records are included in Appendix A.

Groundwater samples were collected from all seven monitoring wells by Trigon personnel on March 11 and March 12, 1996. Groundwater samples were transported to Research & Analytical Laboratories, Inc. and analyzed for volatile organics by EPA Method 601 and 602 plus MTBE, IPE, EDB, and lead by EPA Method 3030C. However, groundwater samples from monitoring well MW-1 were analyzed for lead only because it had recently been sampled for volatiles. Table 3 presents a summary of compounds detected above the NCAC Title 15A Subchapter 2L standards for class GA groundwater (2L standards).

Field measurements taken during the recent sampling include, when applicable, pH, temperature, total depth, well volume, amount purged in gallons, sample time, color, odor if noted, free product if noted, and temperature. No odor or free product was observed during groundwater sampling.

Prior to sampling, each well was purged of at least three well volumes. Disposable polyethylene bailers were used to perform the sampling. During the sampling process, personnel wore vinyl gloves dedicated to each well. Groundwater samples were placed in laboratory prepared containers inside coolers on ice (4°C) for transport to the laboratory. Chain-of-Custody records were maintained throughout the sampling, transportation to the laboratory and chemical analysis and are presented in (Appendix B).

4.3 Site Hydrogeology

Shallow groundwater occurs in the uppermost stratigraphic unit in the soils at the site. This unit is comprised of a sandy silt to a clayey sand. Partially weathered rock was encountered in groundwater monitoring well MW-7 at 30 feet bgs. The apparent horizontal

Table 3

Summary of Groundwater Chemical Analysis

Community Heating and Plumbing
305 Swing Road
Greensboro, North Carolina 27409

Parameters	Concentrations (ug/L)[1]						
VOCs	MW-2		MW-3		MW-4	MW-7	2L Standards
Date Sampled	12/19/9~~6~~ 5	3/11/96	12/19/9~~6~~ 5	3/11/96	3/11/96	3/12/96	
Chloroform	BDL[2]	BDL	BDL	BDL	~~37.3~~ BDL	~~12.2~~ ?	0.19
Tetrachloroethene	18	15.1	BDL	BDL	~~BDL~~	20.8	0.7
MTBE	230.1	919	22	BDL	BDL	BDL	200
Benzene	4	BDL	BDL	BDL	BDL	BDL	15
Lead	6	BDL	9	BDL	BDL	BDL	15

[1]Analytical Results for MW-1, MW-5, and MW-6 indicate that all compounds were below the detection limit.
[2]BDL = Below the Detection Limit.

groundwater hydraulic gradient at the subject property is 0.012 ft/ft. The apparent groundwater flow direction is to the southeast and is presented on the potentiometric surface map (Figure 7).

Slug tests using the rising head method were performed on monitoring wells MW-1 and MW-2. The hydraulic conductivity was measured as being 0.24 feet per day and 0.68 feet per day, respectively. Slug test data is presented in Appendix C.

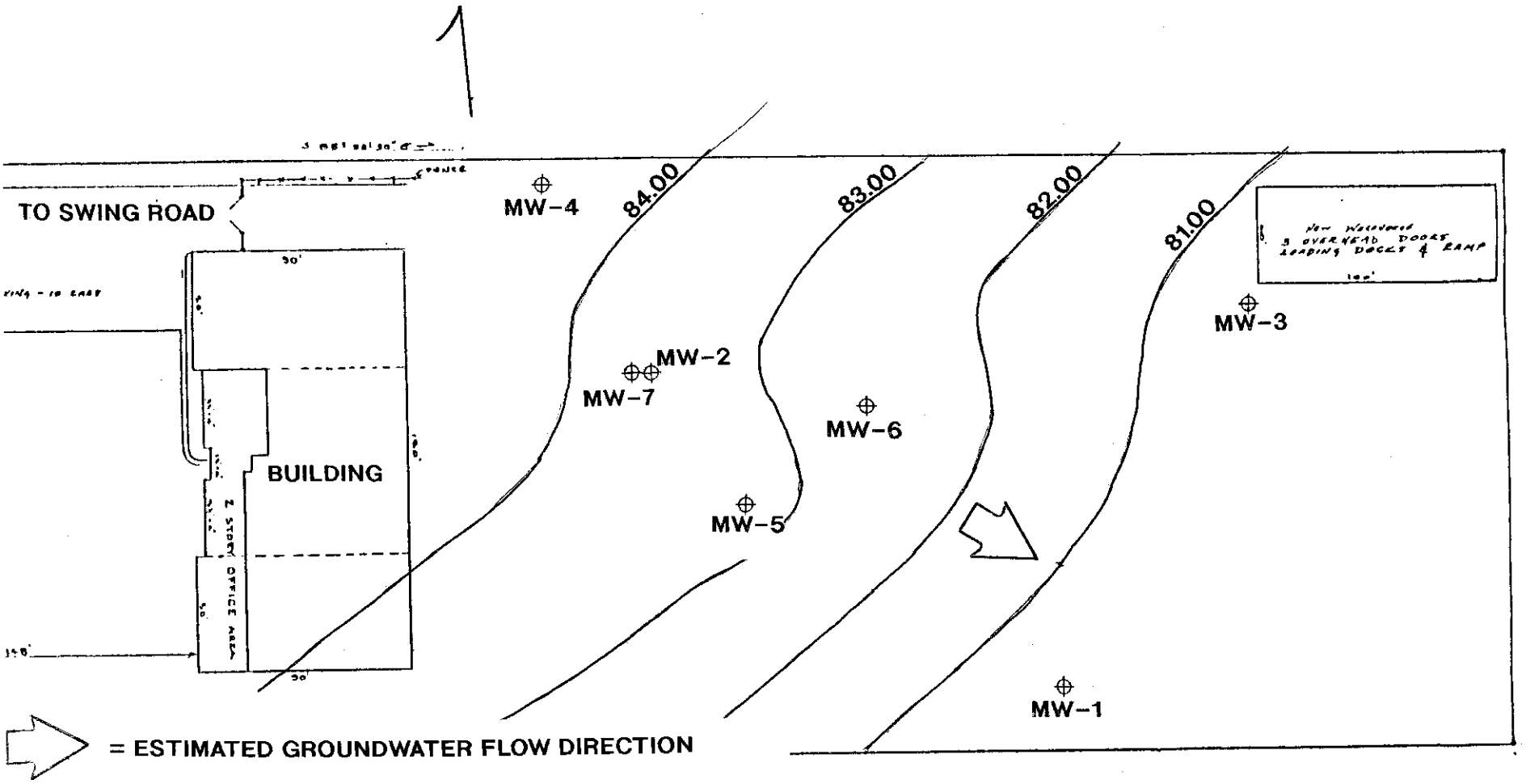
Therefore, using the hydraulic gradient and the hydraulic conductivity from MW-1 and MW-2, the horizontal groundwater flow velocity for the site can be calculated using a modified form of Darcy's Law to account for soil porosity:

V = KI/n where V = Average Linear Velocity of Groundwater (ft/day)
K = Hydraulic Conductivity (ft/day) 0.24 and 0.68
I = Average Hydraulic Gradient (ft/ft) 0.012
n = Effective Porosity 10 percent

Using this formula and the referenced values, the linear velocity of the groundwater is calculated to be 1.43×10^{-2} feet/day and 1.63×10^{-3} feet/day or 5.22 feet/year and 0.59 feet/year. This groundwater flow velocity is an average value and is not constant. Actual velocities can vary throughout the site based on variable conditions and heterogeneous soils. Consequently, the linear flow velocity presented herein should be viewed as a close approximation.

4.4 Groundwater Standard Exceedances

Four VOCs (chloroform, tetrachloroethene, MTBE and benzene) were detected at concentrations above the 2L standards. Chloroform was a single detection in MW-7, the bedrock well, at a concentration of 12.3 ug/L, exceeding the 2L standard of 0.19 ug/L. Chloroform is also a common laboratory contaminant as well as a common constituent of tap water and its presence in sample MW-7 may be related to laboratory interference and the use of tap water in drilling operations rather than to the former UST at the subject property. Tetrachloroethene was detected in three wells (MW-2, MW-4, and MW-7) at concentrations of 15.1 ug/L, 37.3 ug/L, and 20.8 ug/L, respectively, exceeding the 2L standard of 0.7. Tetrachloroethene, a chlorinated hydrocarbon used primarily as a solvent, may be migrating from an upgradient, off-site source, and does not appear to be related to the storage of gasoline in the former UST. It appears to have the greatest concentration in upgradient well MW-4. Tetrachloroethene was also detected previously in MW-2 at a concentration of 18 ug/L. The current concentration has decreased slightly. It also appears that tetrachloroethene has migrated to the bedrock aquifer. MTBE, a constituent of gasoline, was a single detection in MW-2 at a concentration of 919 ug/L, well above the 2L standard of 200 ug/L. This concentration has increased since the previous sampling event when it was detected in MW-2 at a concentration of 230.1 ug/L. However, it appears to be localized to the former location of the gasoline UST. Benzene was detected in the previous sampling event in MW-2 at a concentration exceeding the 2L standard. According to the laboratory, the second groundwater sample from MW-~~4~~ 2 was



Monitoring Well	TOC Elevation	Static Water Level (TOC)	Water Table Elevation
MW-1	89.28	8.96	80.32
MW-2	96.22	13.07	83.15
MW-3	83.50	2.06	81.44
MW-4	99.88	15.77	84.11
MW-5	93.70	10.48	83.22
MW-6	88.40	5.57	82.83

TOC = Top of Well Casing

GROUNDWATER DATA COLLECTED

⊕=GROUNDWATER MONITORING WELL LOCATION

TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: 1"=67'

APPROVED BY

DRAWN BY N/A

DATE:

COMMUNITY HEATING & PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA

WATER TABLE ELEVATIONS

DRAWING NUMBER
152-95-034-7

TELEDYNE POST 18AB-01

diluted which consequently raised the method detection limit (MDL) of benzene to 5 ug/L. It is uncertain as to whether benzene is present at concentrations below the MDL.

In summary, the detected gasoline constituents are localized in the vicinity of the former gasoline UST. Tetrachloroethene, a solvent, has been detected in an upgradient well, in the vicinity of the former UST, and has reached the bedrock, and appears to be related to an off-site source. The presence of chloroform in the bedrock well could be related to the use of tap water in drilling activities or may be a laboratory artifact.

Figures 8 and 9 present the distribution of MTBE and tetrachloroethene detected above the 2L standards in groundwater. The laboratory analysis, as provided by the laboratories is included in Appendix D. Cross-sections A-A' and B-B' (Figures 11 and 12) illustrate the estimated distribution of MTBE and tetrachloroethene in groundwater. The locations of Cross-Sections are presented in Figure 10.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

On behalf of Community Heating and Plumbing, Trigon Engineering Consultants, Inc. has completed the Comprehensive Site Assessment at 305 Swing Road in Greensboro, North Carolina. Based on the field investigation, observations, and laboratory analysis, Trigon concludes the following:

1. Soil sampling indicates that soils have not been affected by petroleum products or solvents detected in groundwater at the referenced site.

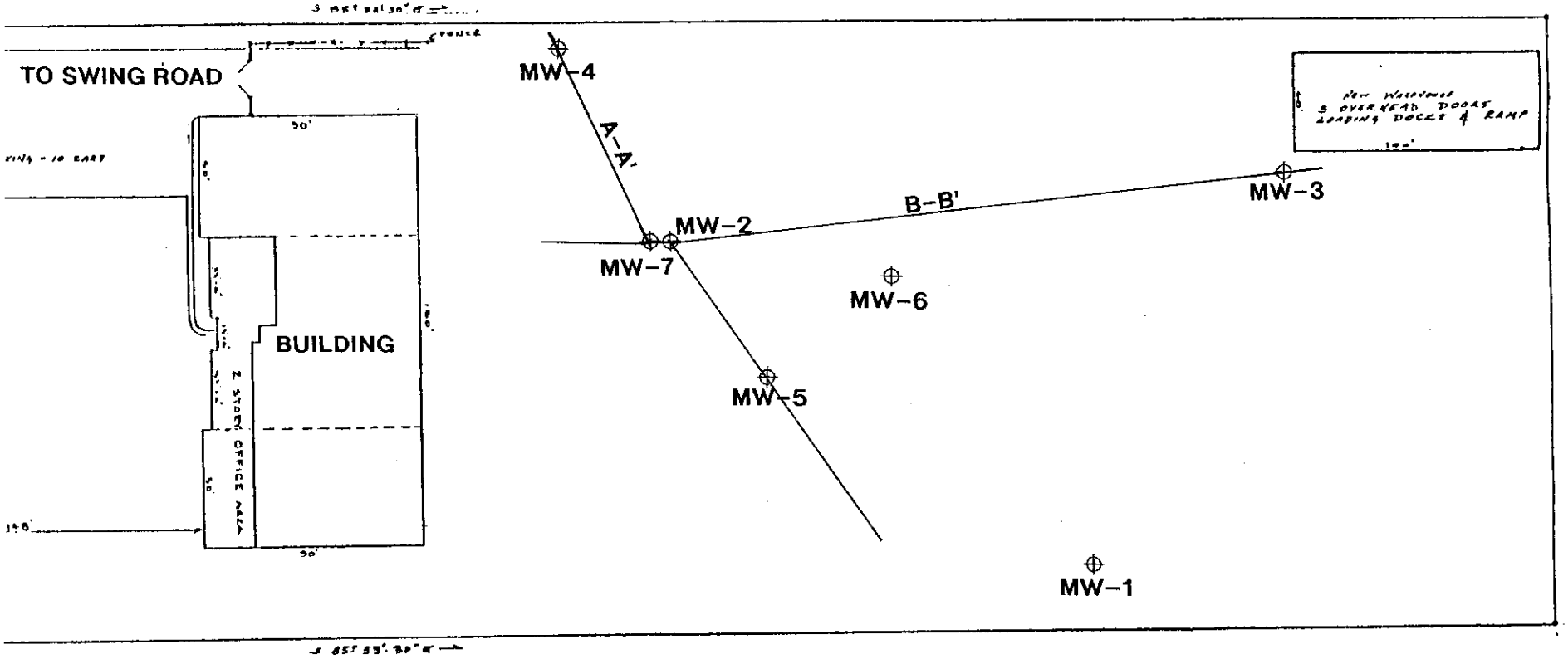
2. Groundwater samples from monitoring wells MW-2, MW-4, and MW-7, indicate the presence of volatile organics above the 2L standards. Tetrachloroethene, a solvent, appears to be migrating onsite from an upgradient, off-site source.

However, tetrachloroethene appears to have migrated to the bedrock aquifer. Chloroform was a single detection in well MW-7 and could be related to the use of municipal tap water in drilling activities at the site or to laboratory contamination. MTBE, a constituent of gasoline, appears to be localized to the vicinity of the former UST. Benzene, also a constituent of gasoline, was detected in MW-2 during one sampling event at a level exceeding the 2L standards.

5.2 Recommendations

Trigon recommends the following:

1. Although the vertical extent of tetrachloroethene contamination has not been fully defined, the source of the tetrachloroethene is believed to be upgradient, offsite,



TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: 1"=67'	APPROVED BY	DRAWN BY N/A
DATE:		

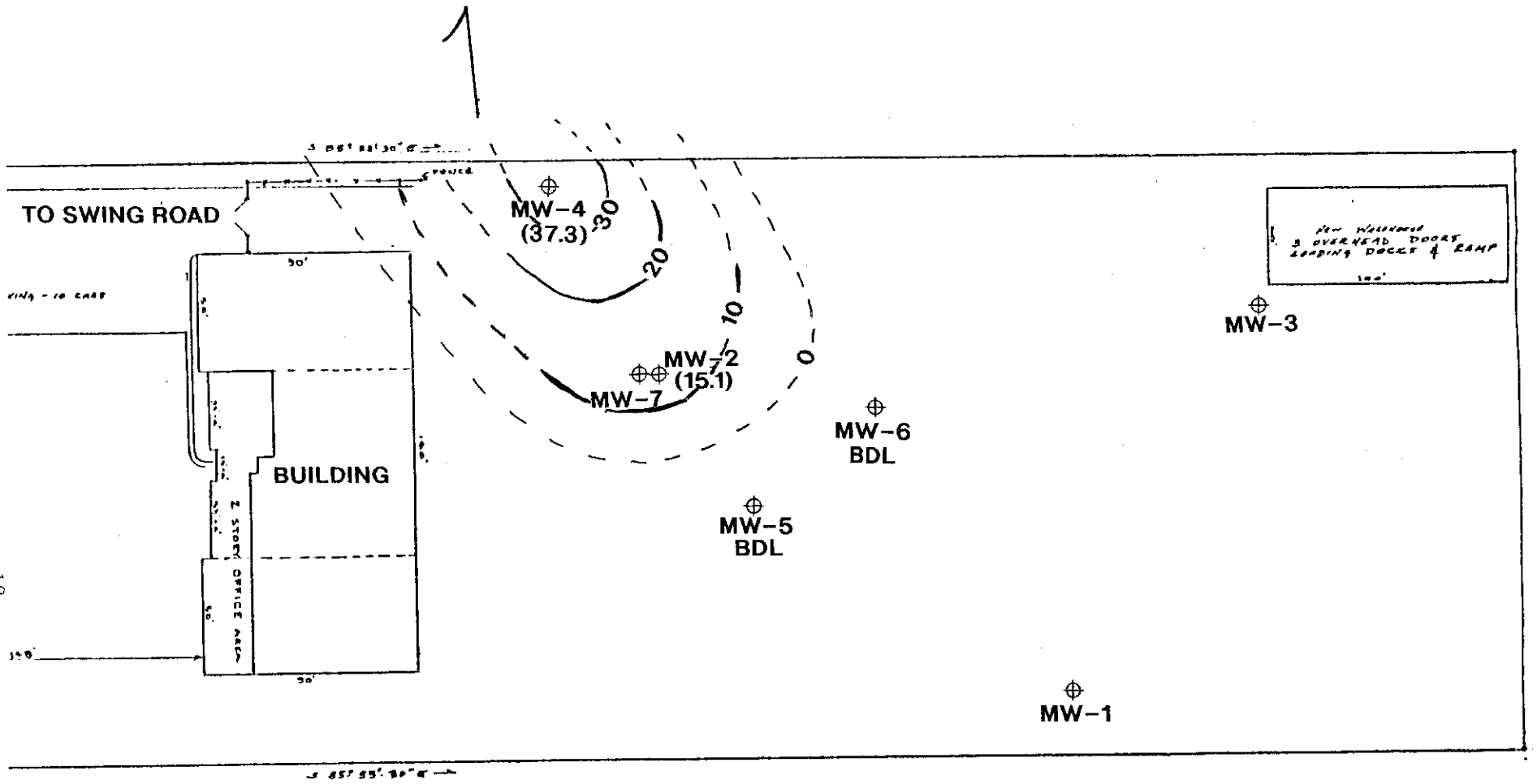
COMMUNITY HEATING & PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA

PLAN VIEW OF CROSS-SECTIONS

DRAWING NUMBER 10

⊕=GROUNDWATER MONITORING WELL LOCATION

TELEDYNE POST 18AB-01



TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: 1"=67'	APPROVED BY	DRAWN BY N/A
DATE: 5/2/96		

COMMUNITY HEATING & PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA

DISTRIBUTION OF TETRACHLOROETHENE
IN THE WATER TABLE AQUIFER

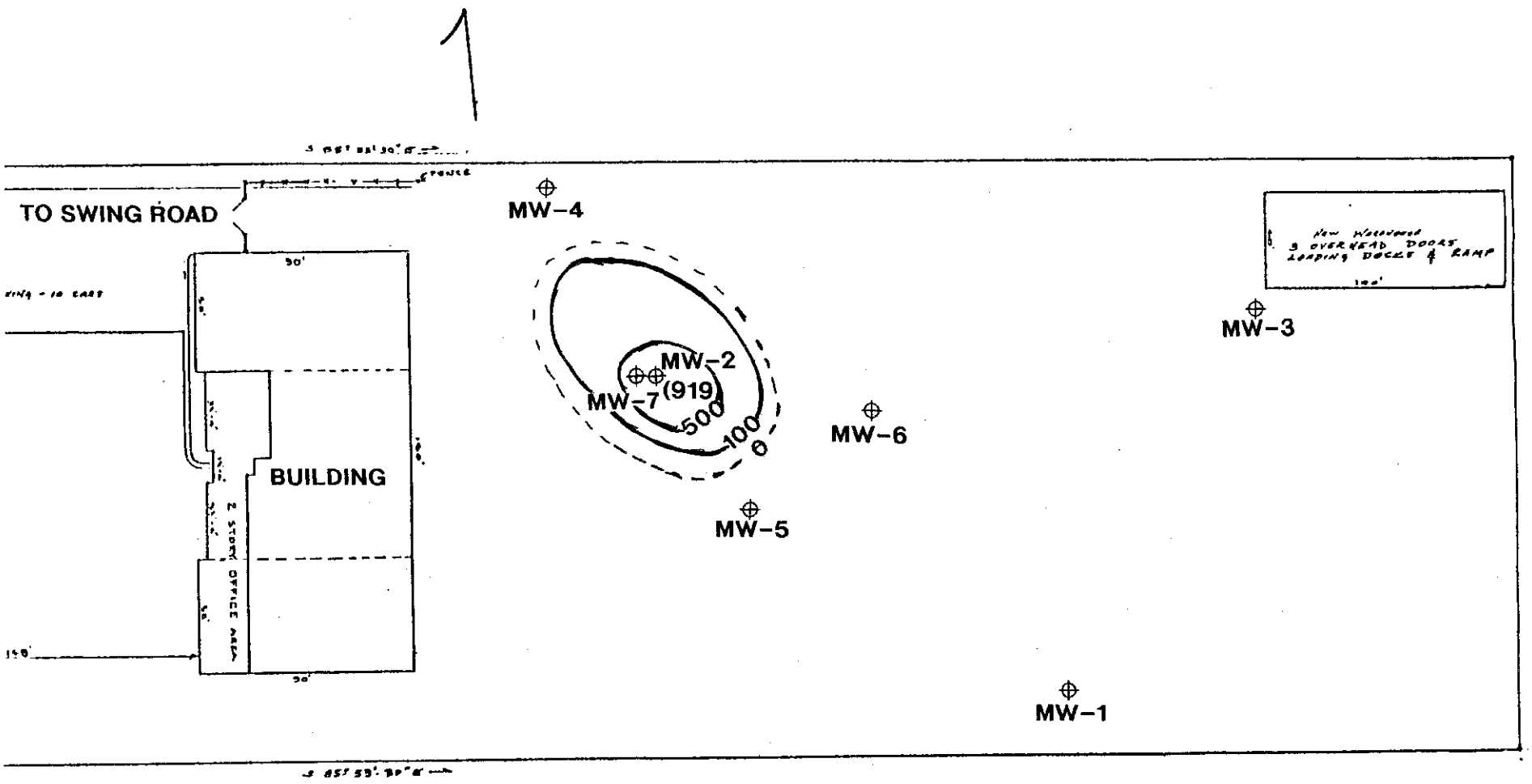
DRAWING NUMBER
152-95-034-9

\ ISOCONCENTRATION CURVE

(15.1) CONCENTRATION IN ug/L

⊕=GROUNDWATER MONITORING WELL LOCATION

TELEDYNE POST 18AB-01



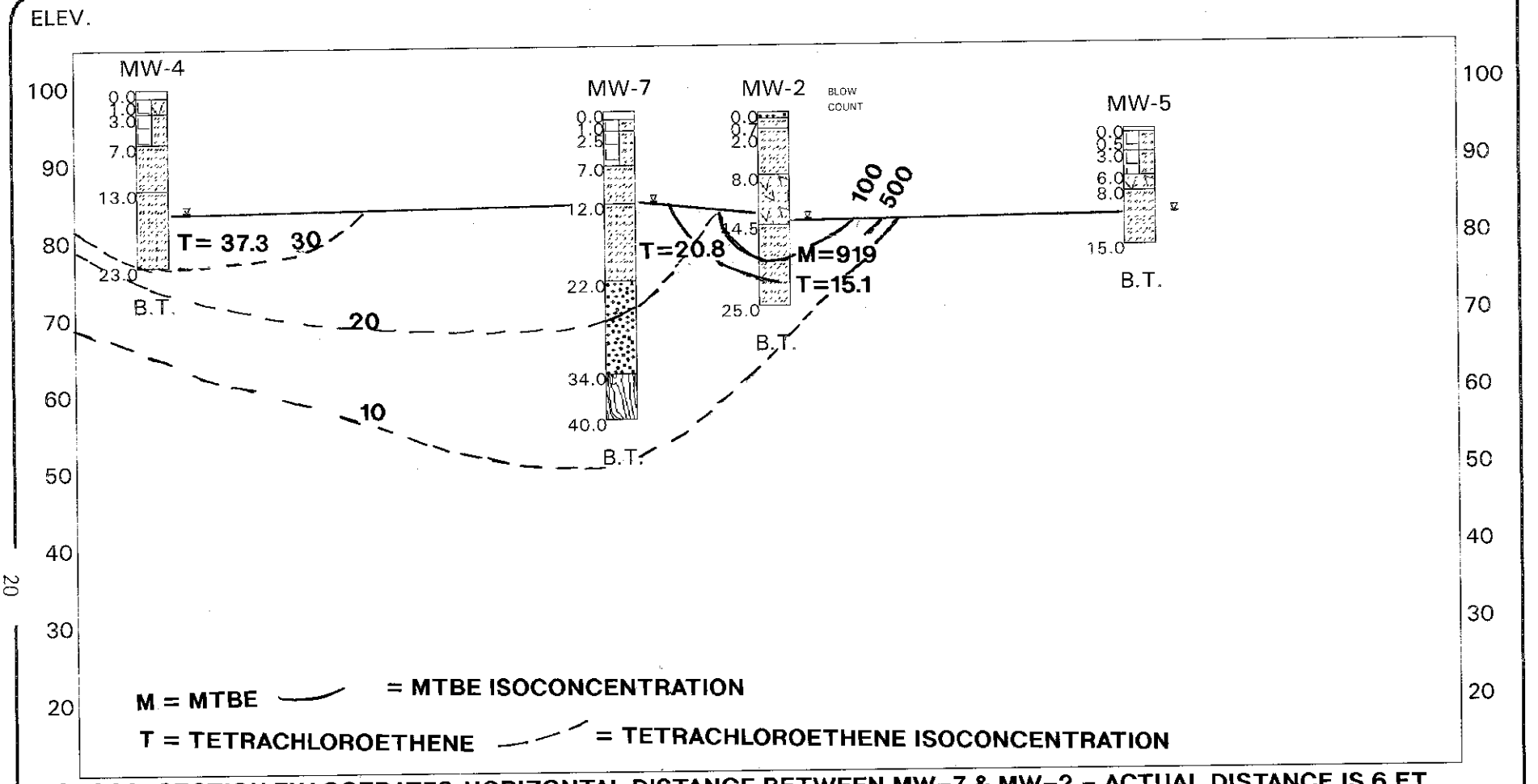
ISOCONCENTRATION CURVE

(919) CONCENTRATION IN ug/L

⊕=GROUNDWATER MONITORING WELL LOCATION

TRIGON ENGINEERING CONSULTANTS, INC. GREENSBORO, NORTH CAROLINA		
SCALE: 1"=67' DATE: 5/2/96	APPROVED BY	DRAWN BY N/A
COMMUNITY HEATING & PLUMBING 305 SWING ROAD GREENSBORO, NORTH CAROLINA		
DISTRIBUTION OF MTBE IN THE WATER TABLE AQUIFER		DRAWING NUMBER 152-95-034-8

TELEDYNE POST 18AB-01



CROSS-SECTION EXAGGERATES HORIZONTAL DISTANCE BETWEEN MW-7 & MW-2 - ACTUAL DISTANCE IS 6 FT.

LEGEND:

- Silty SAND
- Clayey SAND
- Sandy SILT
- Sandy CLAY/SILT
- Silty CLAY
- Weathered Rock
- *Cored Rock*
- Water Table - 24 HR.

B.T. Boring Terminated
C.T. Coring Terminated
TC.R. Tricone Refusal

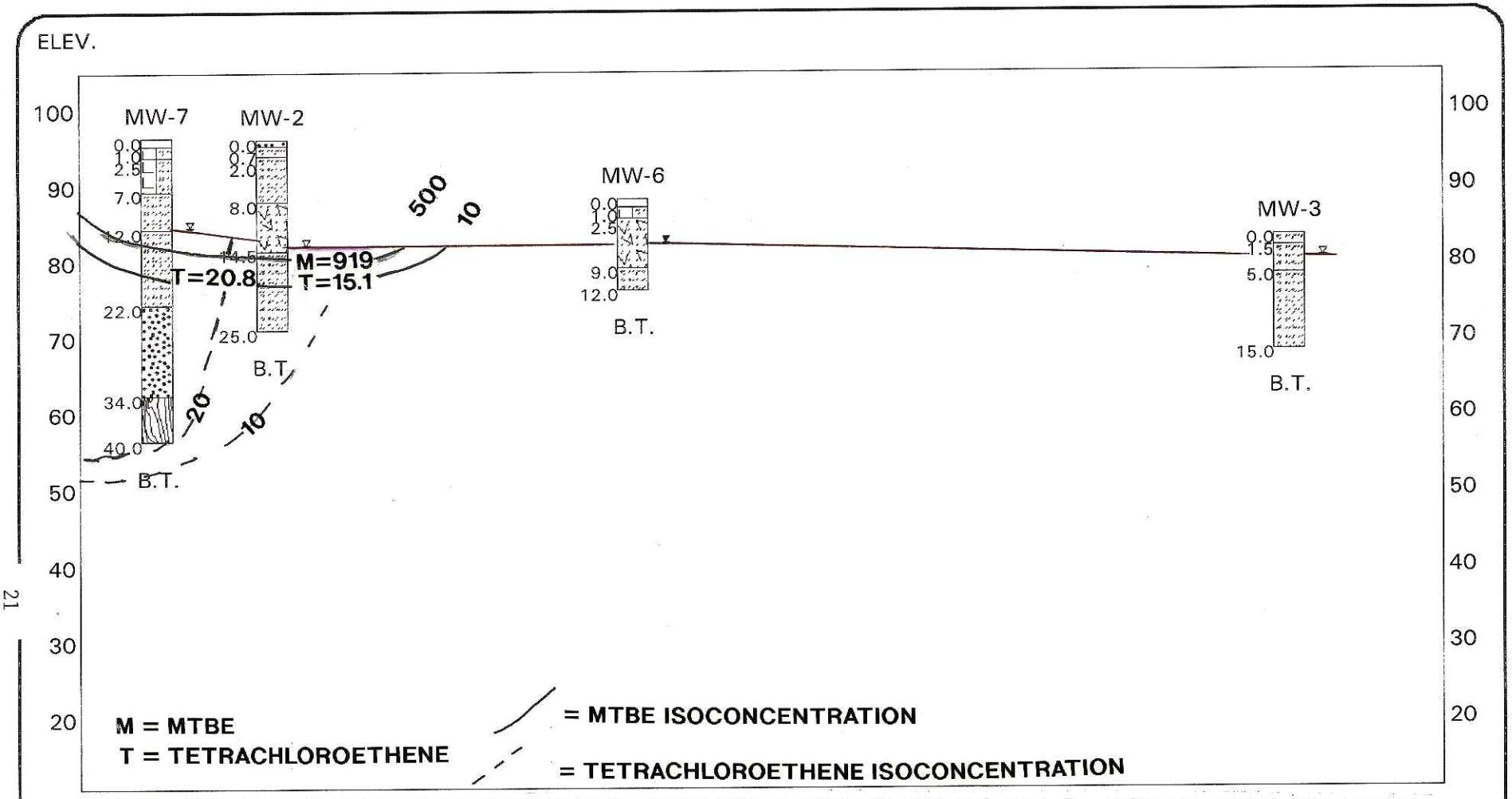
TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

DRAWN BY: DRK	APPROVED BY	VERTICAL: 1" = 20'
DATE: 05/03/96		HORIZONTAL: 1" = 30'

Community Heating and Plumbing
Greensboro, North Carolina

CROSS-SECTION A-A'
ESTIMATED EXTENT OF TETRACHLOROETHENE & MTBE IN GROUNDWATER

DRAWING NUMBER
11



CROSS-SECTION EXAGGERATES HORIZONTAL DISTANCE BETWEEN MW-7 & MW-2 – ACTUAL DISTANCE IS 6 FT.

LEGEND:

- Silty SAND
- Clayey SAND
- Sandy SILT
- Sandy CLAY/SILT
- Silty CLAY
- Weathered Rock
- *Cored Rock*
- Water Table - 24 HR.

B.T. Boring Terminated
C.T. Coring Terminated
TC.R. Tricone Refusal

TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

DRAWN BY: DRK	APPROVED BY WLH	VERTICAL: 1" = 20'
DATE: 05/03/96		HORIZONTAL: 1" = 40'

Community Heating and Plumbing
Greensboro, North Carolina

CROSS-SECTION B-B'
ESTIMATED EXTENT OF TETRACHLOROETHENE & MTBE IN GROUNDWATER

DRAWING NUMBER **12**

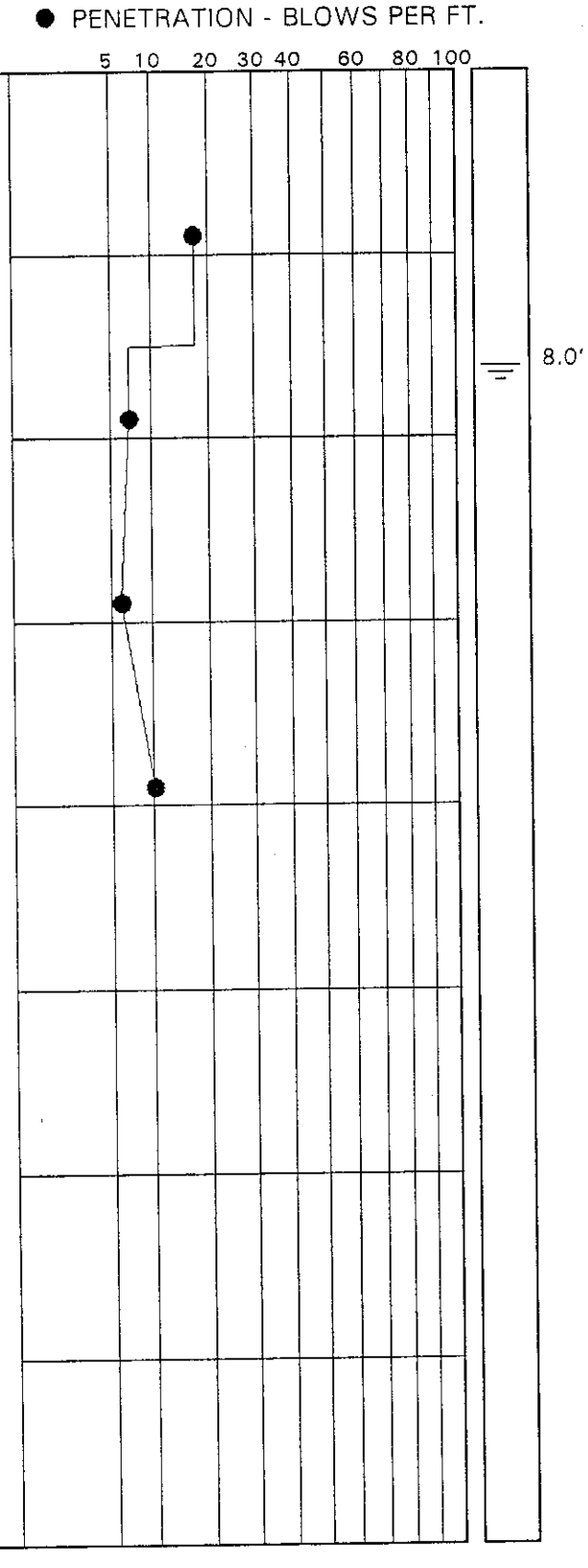
and unrelated to activities at the subject property. Therefore no further investigation is warranted by the client.

2. Because gasoline constituents were detected but localized in the vicinity of the former gasoline UST, it is recommended a Corrective Action Plan recommending natural attenuation of the groundwater be developed or that a request to allow remediation to alternate levels be submitted.

3. Proceed with the development of a Corrective Action Plan to address other potential sources of contamination at the subject property. These sources include but are not limited to the two areas of stressed vegetation and stained soil, multiple 55-gallon drums of unknown content, and multiple 55-gallon drums of liquid solvents and alkaline cleaners, 5-gallon buckets of cutting oil, multiple buckets of corrosive liquids.

APPENDIX A

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count
0.0			
0.3	Grey ABC Stone		
	Brown-Tan Course to Fine Sandy SILT - Fill		
2.5	Very Stiff Grey-Blue Course to Fine Sandy Very Clayey SILT - Fill	0.2	17
7.5	Firm to Stiff Tan-Orange Fine Sandy Slightly Clayey SILT - Residual	0	7
		0	6
		0	10
20.0	Boring Terminated		



TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE
50% ROCK CORE RECOVERY
LOSS OF DRILLING WATER
WATER TABLE-24 HR.
WATER TABLE-1 HR.
CAVE-IN DEPTH

BORING NO. MW-1
DATE DRILLED 10/18/91
JOB NO. 015-91-134
PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF ENVIRONI HEALTH AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGE...NT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611-7687
PHONE (919)733-3221

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR TRIGON ENGINEEIRNG CONSULTANTS,INC.

DRILLER REGISTRATION NUMBER 813

STATE WELL CONSTRUCTION PERMIT NUMBER: 40-0975-WM-0388

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Greensboro
305 Swing Road
(Road, Community, or Subdivision and Lot No.)

County: Guilford

2. OWNER Community Heating & Plumbing
ADDRESS P.O. Box 8509 (Street or Route No.)
Greensboro, NC 27419
City or Town State Zip Code

3. DATE DRILLED 10/18/91 USE OF WELL Monitor
4. TOTAL DEPTH 20' CUTTINGS COLLECTED [X] Yes [ ] No
5. DOES WELL REPLACE EXISTING WELL? [ ] Yes [X] No
6. STATIC WATER LEVEL: 10.5' FT. [ ] above [X] below TOP OF CASING,
TOP OF CASING IS 2.5' FT. ABOVE LAND SURFACE.
7. YIELD (gpm): N/A METHOD OF TEST N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	0'	5'	2"	SCH40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	0'	2	Cement-Neat	Tremie

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	5'	20'	2"	0.010	PVC

13. GRAVEL PACK:

	Depth From	Depth To	Size	Material
	4'	20'	C-33	Sand

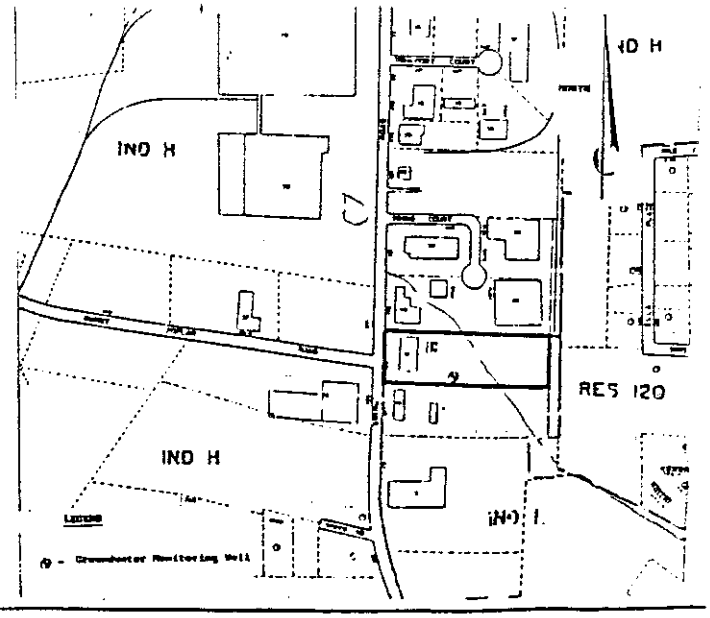
14. REMARKS: Bentonite Seal From 2' - 4'

DRILLING LOG

Depth From	Depth To	Formation Description
MW-1		
0	4"	ABC-Stone
4"	3'	Brown Coarse to Fine Sandy SILT
3'	6'	Very Stiff Grey Blue Coarse to Fine Sandy Very Clayey SILT
6'	20'	Firm to Stiff Tan Orange Brown Fine Sandy Clayey SILT

If additional space is needed use back of form.

LOCATION SKETCH



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Malcolm C. Kay 10/21/91
SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Environmental Management and copy to well owner.

GW-1 REVISED 2/90

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count
0.0	Elev. = 108.84±		
0.7	Silty Coarse to Fine SAND with Gravel		
2.0	Red, Brown, and Orange Slightly Clayey Fine Sandy SILT		
	Brown Fine Sandy SILT	6.5	
8.0	Grey Medium to Fine Sandy Clayey SILT with Organics-Alluvial	300	
14.5	Tan-Yellow Medium to Fine Sandy SILT-Residual	26	
		86	
25.0	Boring Terminated	3.5	

● PENETRATION - BLOWS PER FT.

5 10 20 30 40 60 80 100

13.70'

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE

50% ROCK CORE RECOVERY

◄ LOSS OF DRILLING WATER

WATER TABLE-24 HR.

WATER TABLE-1 HR.

CAVE-IN DEPTH

BORING NO. MW-2

DATE DRILLED 12/18/95

JOB NO. 152-95-034

PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND+ COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____

Lat. _____ Long. _____ Pc _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Aqua Drill

DRILLER REGISTRATION NUMBER 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: NA

1. WELL LOCATION: (Show sketch of the location below)

   Nearest Town: Greensboro, North Carolina

   County: Guilford

   305 Swing Road
   (Road, Community, or Subdivision and Lot No.)

   MW-2

2. OWNER Community Heating and Plumbing

   ADDRESS 305 Swing Road
   (Street or Route No.)

   Greensboro, North Carolina 27409
   City or Town State Zip Code

3. DATE DRILLED 12/18/95 USE OF WELL Monitoring

4. TOTAL DEPTH 25.0 CUTTINGS COLLECTED ☒ Yes ☐ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 13.70 FT. ☐ above TOP OF CASING, ☒ below

   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE

7. YIELD (gpm): N/A METHOD OF TEST N/A

8. WATER ZONES (depth): N/A

9. CHLORINATION: Type N/A Amount N/A

Depth From	Depth To	DRILLING LOG Formation Description
		See Boring Log MW-2

If additional space is needed, use back of form.

10. CASING:

Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
0.0	10.0	2"	Schedule 40	PVC

11. GROUT:

Depth From	Depth To	Material	Method
0.5	6.0	Portland	Hand

12. SCREEN:

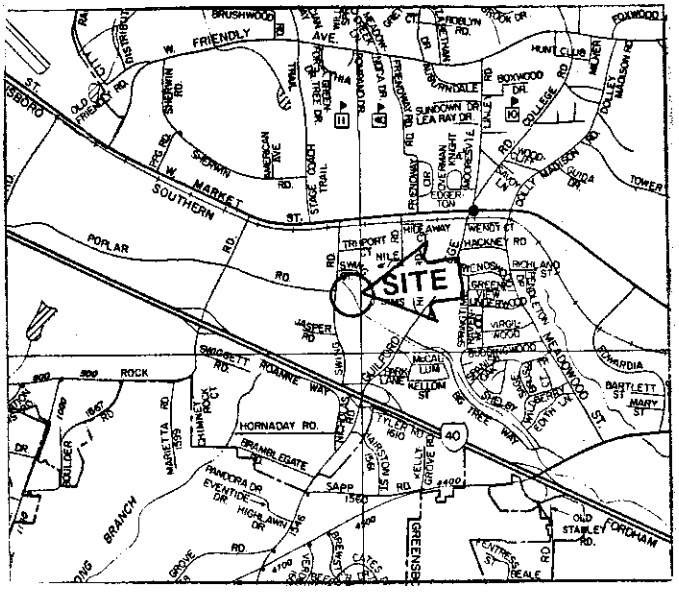
Depth From	Depth To	Diameter	Slot Size	Material
10.0	25.0	2"	in. 0.010	in. PVC
			in.	in.
			in.	in.

13. GRAVEL PACK:

Depth From	Depth To	Size	Material
8.0	25.0	Fine Filter	Sand

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)



14. REMARKS: Bentonite at 6.0' to 8.0'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

1-12-96

SIGNATURE OF CONTRACTOR OR AGENT DATE 01/11/96

Submit original to Division of Environmental Management and copy to well owner.

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
Division of Environmental Health
P.O. Box 3508, Greensboro, NC 27401

RECORD OF CONSTRUCTION OR ABANDONMENT OF A WELL

(To be submitted to Health Director and well owner within fifteen (15) days after completing construction, abandonment or repair.)

PLEASE TYPE OR PRINT MW-2

Date of construction, abandonment, or repair: December 18, 1995

Well Location: 305 Swing Road

Greensboro, North Carolina 27409

Well Owner: Community Heating and Plumbing

Total depth of well: 25.0 ft. Casing depth: 10.0 ft.

Static water level: 13.87 ft. Pumping water depth: NA ft.

Well yield: NA gpm Pump size and type: NA

Water bearing zone: NA ft. _____ ft. _____ ft.

Grout type: Portland Grout depth: 6.0 ft.

Method of placing grout: Hand

Annular space width: 4 in.

Pump installed by: NA

Nature of repair (if applicable): NA

Method of abandoning (if applicable): NA

I hereby certify that this well meets the requirements of the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells as established by the Board, effective June 1, 1989.

Contractor's Signature: _____ Date: 01/11/96

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count	PENETRATION - BLOWS PER FT. (5 10 20 30 40 60 80 100)
0.0	Elev. = 96.19±			
1.5	Brown Slightly Clayey Fine Sandy SILT with Gravel			
	Grey Slightly Clayey Coarse to Fine Sandy SILT			
5.0	Brown Slightly Clayey Coarse to Fine Sandy SILT	250		
		10		
15.0	Boring Terminated	2.5		

2.76'

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE
50% ROCK CORE RECOVERY
LOSS OF DRILLING WATER
WATER TABLE-24 HR.
WATER TABLE-1 HR.
CAVE-IN DEPTH

BORING NO. MW-3

DATE DRILLED 12/18/95

JOB NO. 152-95-034

PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND+ COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____

Lat. _____ Long. _____ Pc _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Aqua Drill

DRILLER REGISTRATION NUMBER 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: NA

1. WELL LOCATION: (Show sketch of the location below)

   Nearest Town: Greensboro, North Carolina

   305 Swing Road
   (Road, Community, or Subdivision and Lot No.)

   County: Guilford

   MW-3

2. OWNER Community Heating and Plumbing

   ADDRESS 305 Swing Road
   (Street or Route No.)

   Greensboro, North Carolina 27409
   City or Town State Zip Code

3. DATE DRILLED 12/18/95 USE OF WELL Monitoring
4. TOTAL DEPTH 15.0 CUTTINGS COLLECTED ☒ Yes ☐ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 2.82 FT. ☐ above TOP OF CASING, ☒ below

   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE
7. YIELD (gpm): N/A METHOD OF TEST N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A
10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0.0 To 5.0 Ft.	2"	Schedule 40	PVC
From ____ To ____ Ft.			
From ____ To ____ Ft.			

11. GROUT:

Depth	Material	Method
From 0.5 To 2.0 Ft.	Portland	Hand
From ____ To ____ Ft.		

12. SCREEN:

Depth	Diameter	Slot Size	Material
From 5.0 To 15.0 Ft.	2"	in. 0.010	in. PVC
From ____ To ____ Ft.		in.	in.
From ____ To ____ Ft.		in.	in.

13. GRAVEL PACK:

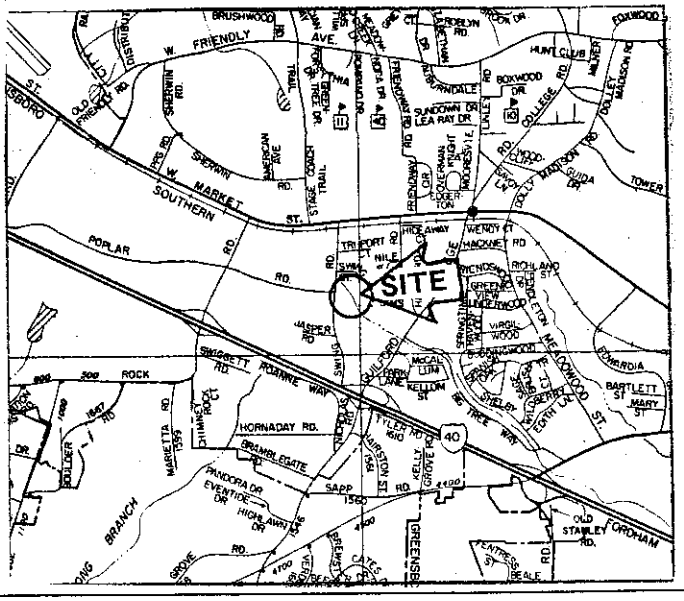
Depth	Size	Material
From 4.0 To 15.0 Ft.	Fine Filter	Sand
From ____ To ____ Ft.		

14. REMARKS: Bentonite at 2.0' to 4.0'

Depth From	Depth To	DRILLING LOG Formation Description
		See Boring Log MW-3

If additional space is needed, use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT DATE 01/11/96

Submit original to Division of Environmental Management and copy to well owner.

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
Division of Environmental Health
P.O. Box 3508, Greensboro, NC 27401

RECORD OF CONSTRUCTION OR ABANDONMENT OF A WELL

(To be submitted to Health Director and well owner within fifteen (15) days after completing construction, abandonment or repair.)

PLEASE TYPE OR PRINT

MW-3

Date of construction, abandonment, or repair: December 18, 1995

Well Location: 305 Swing Road

Greensboro, North Carolina 27409

Well Owner: Community Heating and Plumbing

Total depth of well: 1.0 ft. Casing depth: 5.0 ft.

Static water level: 2.82 ft. Pumping water depth: NA ft.

Well yield: NA gpm Pump size and type: NA

Water bearing zone: NA ft. _____ ft. _____ ft.

Grout type: Portland Grout depth: 2.0 ft.

Method of placing grout: Hand

Annular space width: 4 in.

Pump installed by: NA

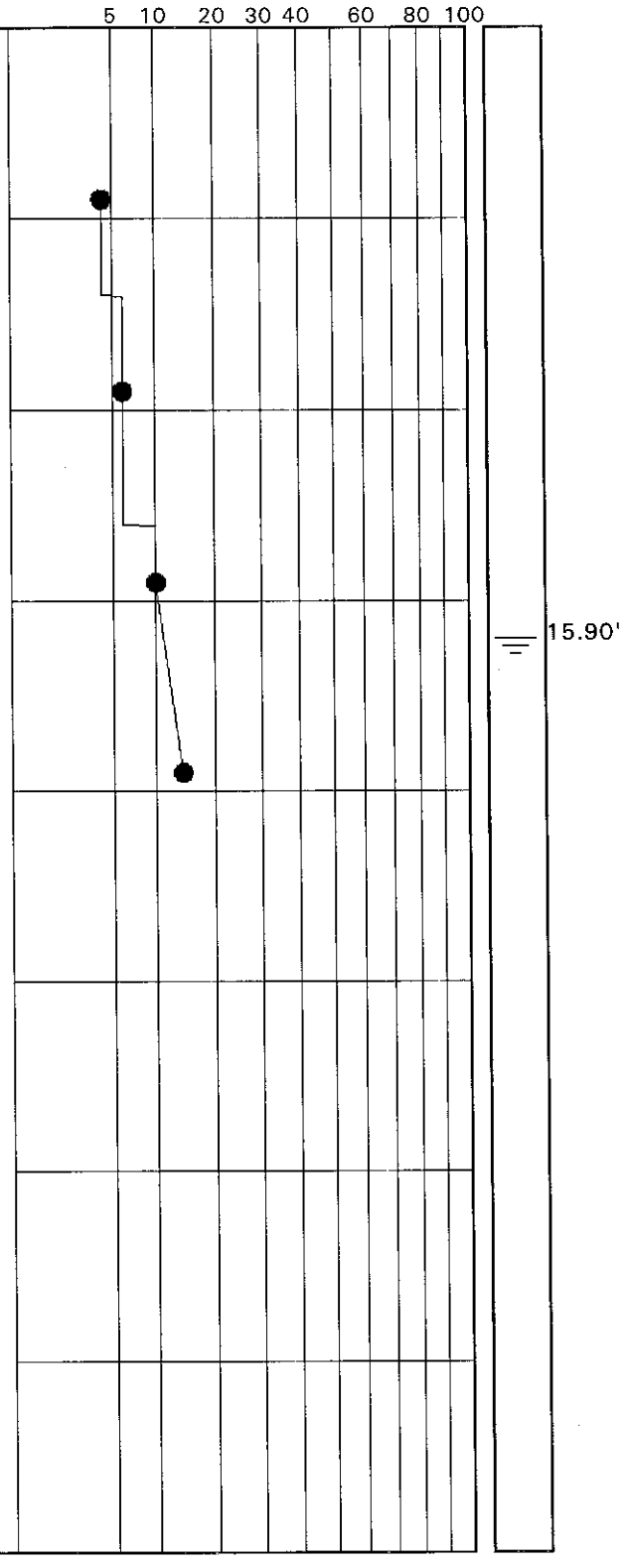
Nature of repair (if applicable): NA

Method of abandoning (if applicable): NA

I hereby certify that this well meets the requirements of the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells as established by the Board, effective June 1, 1989.

Contractor's Signature: W. Lee Hem Date: 01/11/96

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count
0.0	Elev. = ±		
1.0	Gravel		
	Soft Red-Brown Sandy Clayey SILT-Fill		
3.0	Soft Red-Grey Fine Sandy SILT-Fill	10	4
7.0	Firm Grey-Brown Slightly Clayey Fine Sandy SILT-Alluvial	1000	6
13.0	Stiff Tan, Brown, and Grey Coarse to Fine Sandy SILT-Residual	200	10
		22	14
23.0	Boring Terminated		



TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE
50% ROCK CORE RECOVERY
LOSS OF DRILLING WATER
WATER TABLE-24 HR.
WATER TABLE-1 HR.
CAVE-IN DEPTH

BORING NO. MW-4
DATE DRILLED 02/29/96
JOB NO. 152-95-034
PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND+ COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____

Lat. _____ Long. _____ Pc _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Aqua Drill

DRILLER REGISTRATION NUMBER 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: NA

1. WELL LOCATION: (Show sketch of the location below)

   Nearest Town: Greensboro, North Carolina

   County: Guilford

   305 Swing Road
   (Road, Community, or Subdivision and Lot No.)

   MW-4

2. OWNER Community Heating and Plumbing

   ADDRESS 305 Swing Road
   (Street or Route No.)

   Greensboro, North Carolina 27409
   City or Town State Zip Code

3. DATE DRILLED 02/29/96 USE OF WELL Monitoring
4. TOTAL DEPTH 23.0 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 15.90 FT. ☐ above TOP OF CASING, ☒ below

   TOP OF CASING IS 2.0 FT. ABOVE LAND SURFACE
7. YIELD (gpm): N/A METHOD OF TEST N/A
8. WATER ZONES (depth): N/A
9. CHLORINATION: Type N/A Amount N/A

Depth From	Depth To	DRILLING LOG Formation Description
0.0	1.0	Gravel
1.0	3.0	Red-Brown Sandy Clayey SILT-Fill
3.0	7.0	Red-Grey Fine Sandy SILT-Fill
7.0	13.0	Grey-Brown Slightly Clayey Fine Sandy SILT-Alluvial
13.0	23.0	Tan, Brown, and Grey Coarse to Fine Sandy SILT-Residual

If additional space is needed, use back of form.

10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0.0 To 8.0 Ft.	2"	Schedule 40	PVC
From ____ To ____ Ft.			
From ____ To ____ Ft.			

11. GROUT:

Depth	Material	Method
From 0.0 To 3.5	Portland	tremmie
From ____ To ____ Ft.		

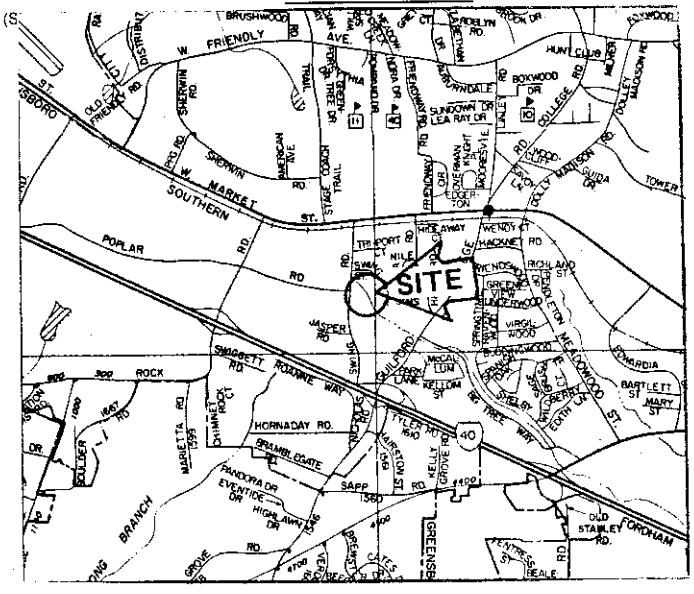
12. SCREEN:

Depth	Diameter	Slot Size	Material
From 8.0 To 23.0 Ft.	2"	in. 0.010	in. PVC
From ____ To ____ Ft.		in.	in.
From ____ To ____ Ft.		in.	in.

13. GRAVEL PACK:

Depth	Size	Material
From 5.5 To 23.0 Ft.	#3	Sand
From ____ To ____ Ft.		

LOCATION SKETCH



14. REMARKS: Bentonite seal from 3.5' to 5.5'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

J. Stuart Wescott 3/30/96

SIGNATURE OF CONTRACTOR OR AGENT DATE 03/19/96

Submit original to Division of Environmental Management and copy to well owner.

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
Division of Environmental Health
P.O. Box 3508, Greensboro, NC 27401

RECORD OF CONSTRUCTION, REPAIR OR ABANDONMENT OF A WELL

(To be submitted to Health Director and well owner within fifteen (15) days after completing construction, repair, or abandonment of well.)

PLEASE TYPE OR PRINT **MW-4**

Drilling Contractor: Aqua Drill Reg. No. 1361

Address of Well Location: 305 Swing Road, Greensboro, NC

Well Owner: Community Heating & Plumbing Inc. Well Permit Number: NA

Casing Type: Schedule 40 PVC Casing Depth: 8.0'

Water Bearing Zones: NA ft. _____ ft. _____ ft. _____ ft.

Total Depth of Well: 23.0 ft. Static Water Level: 15.90 ft.

Well Yield: NA gal/min Date Completed: February 29, 1996

Grout Type: Portland Cement Method of Placing Grout: Tremmie

Pump Installation Contractor: NA Reg. No.: _____

Pump Depth/Pumping Water Level: NA ft.

Brand of Pump Installed: NA Pump Size and Type: _____

Nature of Repair (if applicable): NA

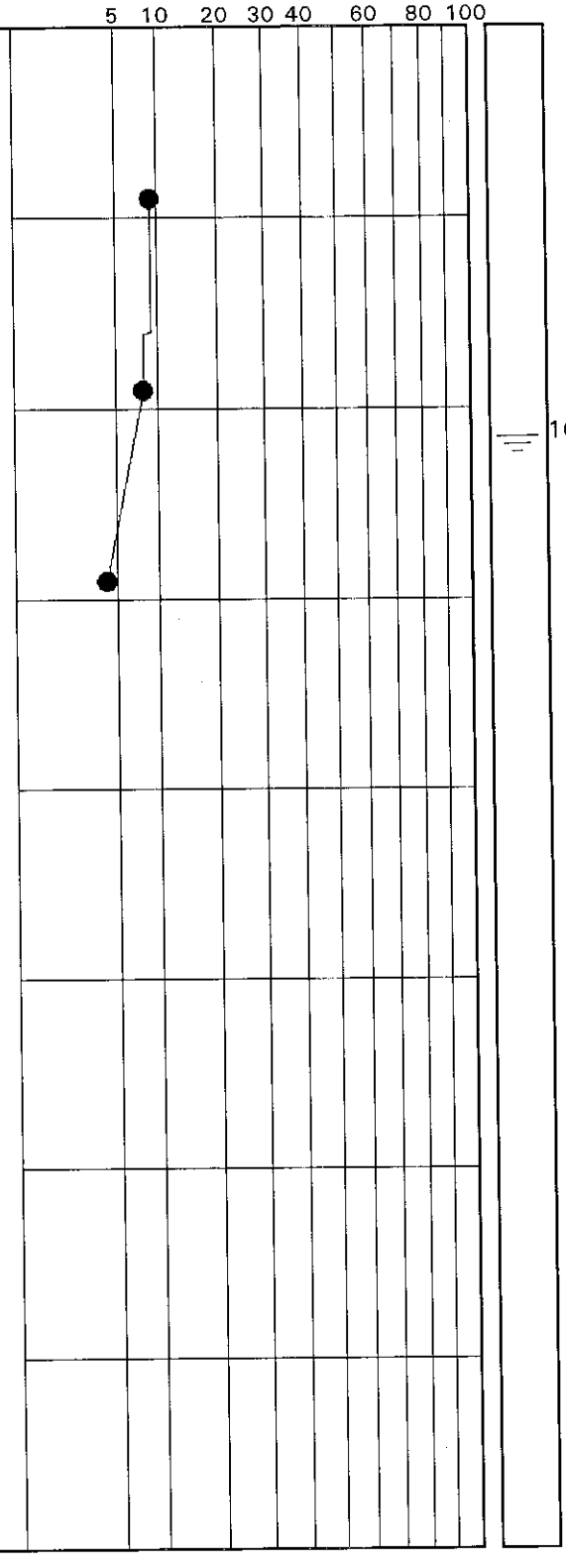
Method of Abandonment (if applicable): NA

I do hereby certify that this well was constructed, repaired, or abandoned in accordance with, and meets the requirements of, the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells in effect on this date, and that a copy of this record has been provided to the well owner.

Contractor's Signature: W. Lee Hung Date: 5-7-96

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count
0.0	Elev. = ±		
0.5	Gravel		
	Firm Red, Yellow, and Brown Slightly Clayey Medium to Fine Sandy SILT-Fill		
3.0	Firm Tan, Brown, and Grey Coarse to Fine Sandy SILT-Fill	1.2	9
6.0	Grey Fine Sandy Clayey SILT-Alluvial		
8.0	Soft to Firm Tan, Brown, and Grey Silty Coarse to Fine Sandy SILT-Residual	8.0	8
15.0	Boring Terminated	5.0	4

● PENETRATION - BLOWS PER FT.



TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE
50% ROCK CORE RECOVERY
LOSS OF DRILLING WATER
WATER TABLE-24 HR.
WATER TABLE-1 HR.
CAVE-IN DEPTH

BORING NO. MW-5
DATE DRILLED 02/29/96
JOB NO. 152-95-034
PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND+ COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____

Lat. _____ Long. _____ Pc _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Aqua Drill

DRILLER REGISTRATION NUMBER 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: NA

1. WELL LOCATION: (Show sketch of the location below)

   Nearest Town: Greensboro, North Carolina

   305 Swing Road
   (Road, Community, or Subdivision and Lot No.)

   County: Guilford

   MW-5

2. OWNER Community Heating and Plumbing

   ADDRESS 305 Swing Road
   (Street or Route No.)

   Greensboro, North Carolina 27409
   City or Town State Zip Code

3. DATE DRILLED 02/29/96 USE OF WELL Monitoring
4. TOTAL DEPTH 15.0 CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 10.67 FT. ☐ above TOP OF CASING, ☒ below

   TOP OF CASING IS 2.5 FT. ABOVE LAND SURFACE
7. YIELD (gpm): N/A METHOD OF TEST N/A
8. WATER ZONES (depth): N/A

Depth From	Depth To	DRILLING LOG Formation Description
0.0	0.5	Gravel
0.5	3.0	Red, Yellow, and Brown Slightly Clayey Medium to Fine Sandy SILT-Fill
3.0	6.0	Tan, Brown, and Grey Coarse to Fine Sandy SILT-Fill
6.0	8.0	Grey Fine Sandy Clayey SILT-Alluvial
8.0	15.0	Tan, Brown, and Grey Coarse to Fine Sandy SILT-Residual

If additional space is needed, use back of form.

9. CHLORINATION: Type N/A Amount N/A

10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0.0 To 5.0 Ft.	2"	Schedule 40	PVC
From ____ To ____ Ft.			
From ____ To ____ Ft.			

11. GROUT:

Depth	Material	Method
From 0.0 To 1.0	Portland	tremmie
From ____ To ____ Ft.		

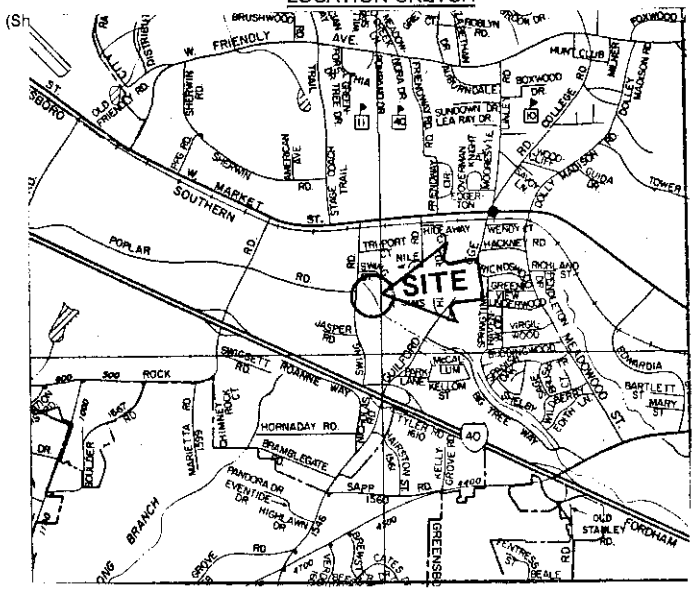
12. SCREEN:

Depth	Diameter	Slot Size	Material
From 4.0 To 14.0 Ft.	2"	in. 0.010	in. PVC
From ____ To ____ Ft.		in.	in.
From ____ To ____ Ft.		in.	in.

13. GRAVEL PACK:

Depth	Size	Material
From 3.0 To 15.0 Ft.	C-3	Sand
From ____ To ____ Ft.		

LOCATION SKETCH



14. REMARKS: Bentonite seal from 1.0' to 3.0'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

J. Grant Wiswall 3/30/96

SIGNATURE OF CONTRACTOR OR AGENT DATE 03/19/96

Submit original to Division of Environmental Management and copy to well owner.

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
Division of Environmental Health
P.O. Box 3508, Greensboro, NC 27401

RECORD OF CONSTRUCTION, REPAIR OR ABANDONMENT OF A WELL

(To be submitted to Health Director and well owner within fifteen (15) days after completing construction, repair, or abandonment of well.)

PLEASE TYPE OR PRINT **MW-5**

Drilling Contractor: Aqua Drill Reg. No. 1361

Address of Well Location: 305 Swing Road, Greensboro, NC

Well Owner: Community Heating & Plumbing Inc. Well Permit Number: NA

Casing Type: Schedule 40 PVC Casing Depth: 5.0'

Water Bearing Zones: NA ft. _____ ft. _____ ft. _____ ft.

Total Depth of Well: 15.0 ft. Static Water Level: 10.67 ft.

Well Yield: NA gal/min Date Completed: February 29, 1996

Grout Type: Portland Cement Method of Placing Grout: Tremmie

Pump Installation Contractor: NA Reg. No.: _____

Pump Depth/Pumping Water Level: NA ft.

Brand of Pump Installed: NA Pump Size and Type: _____

Nature of Repair (if applicable): NA

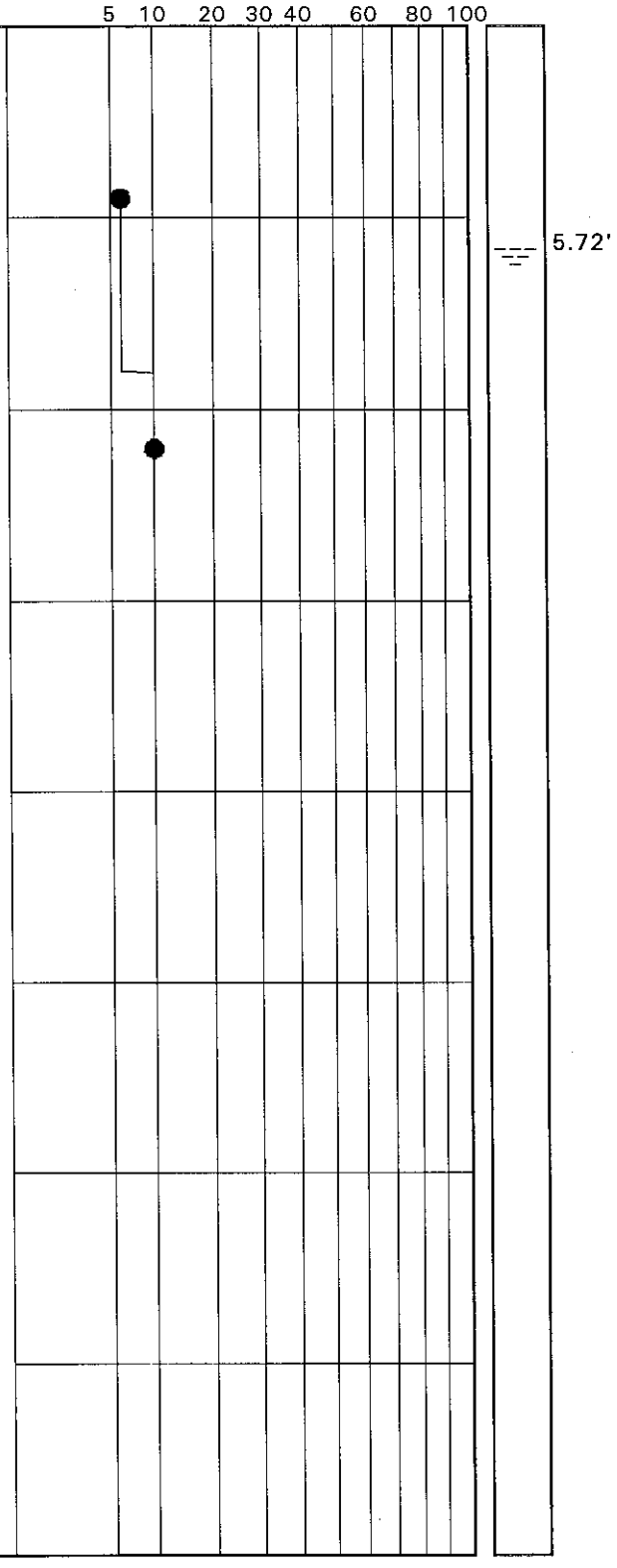
Method of Abandonment (if applicable): NA

I do hereby certify that this well was constructed, repaired, or abandoned in accordance with, and meets the requirements of, the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells in effect on this date, and that a copy of this record has been provided to the well owner.

Contractor's Signature: W. Lee Hunt Date: 5-7-96

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count
0.0	Elev. = ±		
1.0	Gravel		
2.5	Firm Brown Slightly Clayey Coarse to Fine Sandy SILT-Fill		
	Firm Blue-Grey Fine Sandy Clayey SILT-Alluvial	100	6
9.0	Stiff Tan-Brown Medium to Fine Sandy SILT-Residual		
12.0	Boring Terminated	5.2	10

● PENETRATION - BLOWS PER FT.



TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE
50% ROCK CORE RECOVERY
◄ LOSS OF DRILLING WATER
WATER TABLE-24 HR.
WATER TABLE-1 HR.
CAVE-IN DEPTH

BORING NO. MW-6
DATE DRILLED 02/29/96
JOB NO. 152-95-034
PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND+ COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____

Lat. _____ Long. _____ Pc _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Aqua Drill

DRILLER REGISTRATION NUMBER 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: NA

1. WELL LOCATION: (Show sketch of the location below)

   Nearest Town: Greensboro, North Carolina

   305 Swing Road
   (Road, Community, or Subdivision and Lot No.)

   County: Guilford

   MW-6

2. OWNER Community Heating and Plumbing

   ADDRESS 305 Swing Road
   (Street or Route No.)

   Greensboro, North Carolina 27409
   City or Town State Zip Code

3. DATE DRILLED 02/29/96 USE OF WELL Monitoring

4. TOTAL DEPTH 12.0 CUTTINGS COLLECTED ☐ Yes ☒ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 5.72 FT. ☐ above TOP OF CASING, ☒ below

   TOP OF CASING IS 3.0 FT. ABOVE LAND SURFACE

7. YIELD (gpm): N/A METHOD OF TEST N/A

8. WATER ZONES (depth): N/A

9. CHLORINATION: Type N/A Amount N/A

10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0.0 To 2.0 Ft.	2"	Schedule 40	PVC
From ____ To ____ Ft.			
From ____ To ____ Ft.			

11. GROUT:

Depth	Material	Method
From 0.0 To 0.5	Portland	tremmie
From ____ To ____ Ft.		

12. SCREEN:

Depth	Diameter	Slot Size	Material
From 2.0 To 12.0 Ft.	2"	in. 0.010	in. PVC
From ____ To ____ Ft.		in.	in.
From ____ To ____ Ft.		in.	in.

13. GRAVEL PACK:

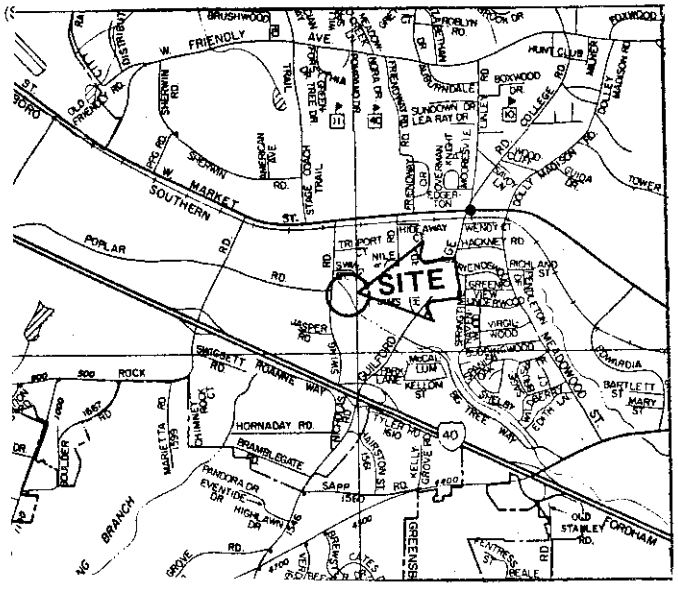
Depth	Size	Material
From 1.0 To 12.0 Ft.	C-3	Sand
From ____ To ____ Ft.		

DRILLING LOG

Depth From	Depth To	Formation Description
0.0	1.0	Gravel
1.0	2.5	Brown Slightly Clayey Coarse to Fine Sandy SILT-Fill
2.5	9.0	Blue-Grey Fine Sandy Clayey SILT-Alluvial
9.0	12.0	Tan-Brown Medium to Fine Sandy SILT-Residual

If additional space is needed, use back of form.

LOCATION SKETCH



14. REMARKS: Bentonite seal from 0.5' to 1.0'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

J. Stuart Wisnell 3/30/96

SIGNATURE OF CONTRACTOR OR AGENT DATE 03/19/96

Submit original to Division of Environmental Management and copy to well owner.

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
Division of Environmental Health
P.O. Box 3508, Greensboro, NC 27401

RECORD OF CONSTRUCTION, REPAIR OR ABANDONMENT OF A WELL

(To be submitted to Health Director and well owner within fifteen (15) days after completing construction, repair, or abandonment of well.)

PLEASE TYPE OR PRINT **MW-6**

Drilling Contractor: Aqua Drill Reg. No. 1361

Address of Well Location: 305 Swing Road, Greensboro, NC

Well Owner: Community Heating & Plumbing Inc. Well Permit Number: NA

Casing Type: Schedule 40 PVC Casing Depth: 2.0'

Water Bearing Zones: NA ft. ____ ft. ____ ft. ____ ft.

Total Depth of Well: 12.0 ft. Static Water Level: 5.72 ft.

Well Yield: NA gal/min Date Completed: February 29, 1996

Grout Type: Portland Cement Method of Placing Grout: Tremmie

Pump Installation Contractor: NA Reg. No.: ____

Pump Depth/Pumping Water Level: NA ft.

Brand of Pump Installed: NA Pump Size and Type: ____

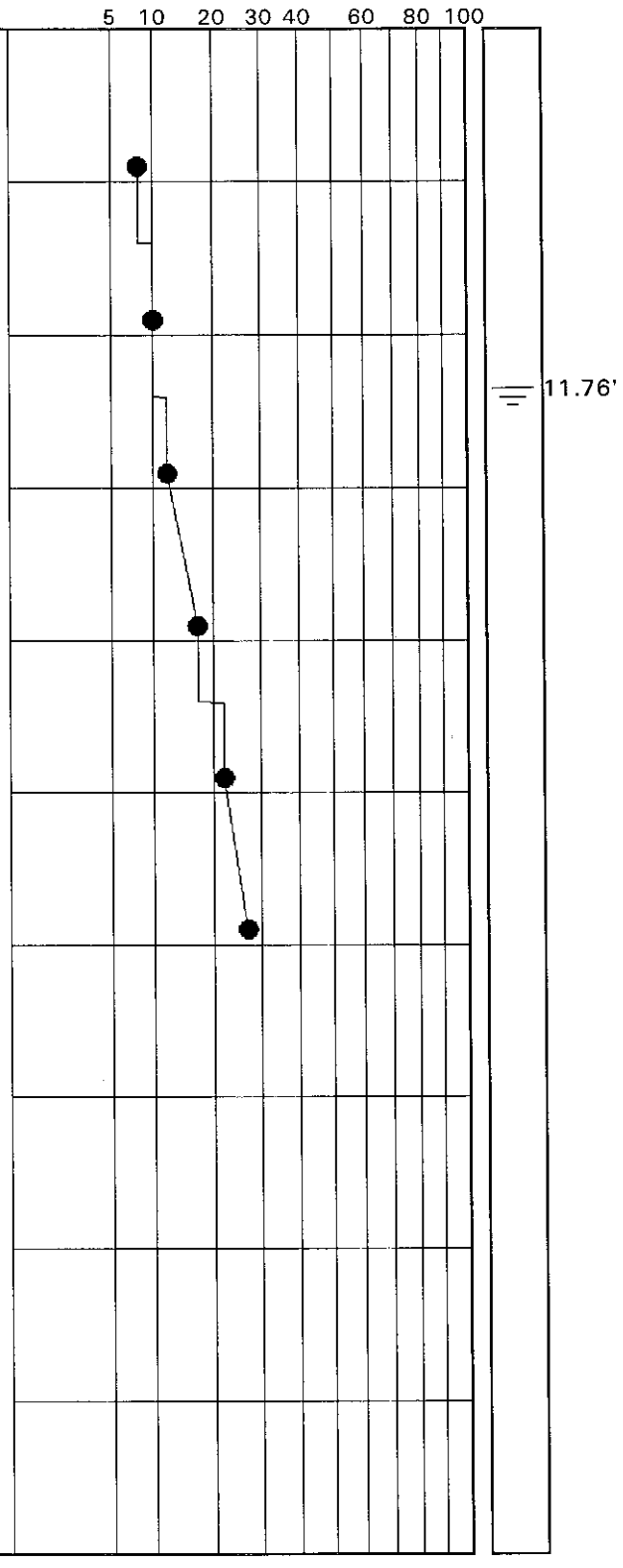
Nature of Repair (if applicable): NA

Method of Abandonment (if applicable): NA

I do hereby certify that this well was constructed, repaired, or abandoned in accordance with, and meets the requirements of, the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells in effect on this date, and that a copy of this record has been provided to the well owner.

Contractor's Signature: W. L. Henry Date: 5-7-96

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count
0.0	Elev. = ±		
1.0	Gravel		
2.5	Firm Red-Brown Clayey Sandy SILT-Fill		
	Firm Tan, Brown, and Red Slightly Clayey Sandy SILT-Fill	0.2	8
7.0	Stiff Grey-Brown Clayey Sandy SILT-Alluvial	160	10
12.0	Stiff to Very Stiff Tan, Brown, and Yellow Coarse to Fine Sandy SILT-Residual	10	12
		7.2	17
22.0	Very Firm Black and White Silty Medium to Fine SAND	2.2	22
		1.4	27
34.0	Partially Weathered Rock Samples as Black and White Silty Medium to Fine SAND		
40.0	Boring Terminated		



TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE — WATER TABLE-24 HR.

50% ROCK CORE RECOVERY — WATER TABLE-1 HR.

LOSS OF DRILLING WATER — CAVE-IN DEPTH

BORING NO. MW-7

DATE DRILLED 03/04/96

JOB NO. 152-95-034

PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND+ COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____

Lat. _____ Long. _____ Pc _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Aqua Drill

DRILLER REGISTRATION NUMBER 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: NA

1. WELL LOCATION: (Show sketch of the location below)

   Nearest Town: Greensboro, North Carolina

   County: Guilford

   305 Swing Road
   (Road, Community, or Subdivision and Lot No.)

MW-7

2. OWNER Community Heating and Plumbing

   ADDRESS 305 Swing Road
   (Street or Route No.)

   Greensboro, North Carolina 27409
   City or Town State Zip Code

3. DATE DRILLED 03/01/96 USE OF WELL Monitoring

4. TOTAL DEPTH 40.0 CUTTINGS COLLECTED ☐ Yes ☒ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 11.76 FT. ☐ above TOP OF CASING, ☒ below

   TOP OF CASING IS 0.0 FT. ABOVE LAND SURFACE

7. YIELD (gpm): N/A METHOD OF TEST N/A

8. WATER ZONES (depth): N/A

Depth From	Depth To	DRILLING LOG Formation Description
0.0	1.0	Gravel
1.0	2.5	Red-Brown Clayey Sandy SILT-Fill
2.5	7.0	Tan, Brown, and Red Slightly Clayey Sandy SILT-Fill
7.0	12.0	Grey-Brown Clayey Sandy SILT-Alluvial
12.0	22.0	Tan, Brown, and Yellow Coarse to Fine Sandy SILT-Residual
22.0	34.0	Black and White Silty Medium to Fine SAND
34.0	40.0	Partially Weathered Rock Samples as Black and White Silty Medium to Fine SAND

If additional space is needed, use back of form.

9. CHLORINATION: Type N/A Amount N/A

10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0.0 To 30.0 Ft.	4"	Schedule 40	PVC
From 0.0 To 35.0 Ft.	2"	Schedule 40	PVC
From ____ To ____ Ft.			

11. GROUT:

Depth	Material	Method
From 0.0 To 29.0	Portland	tremmie
From ____ To ____ Ft.		

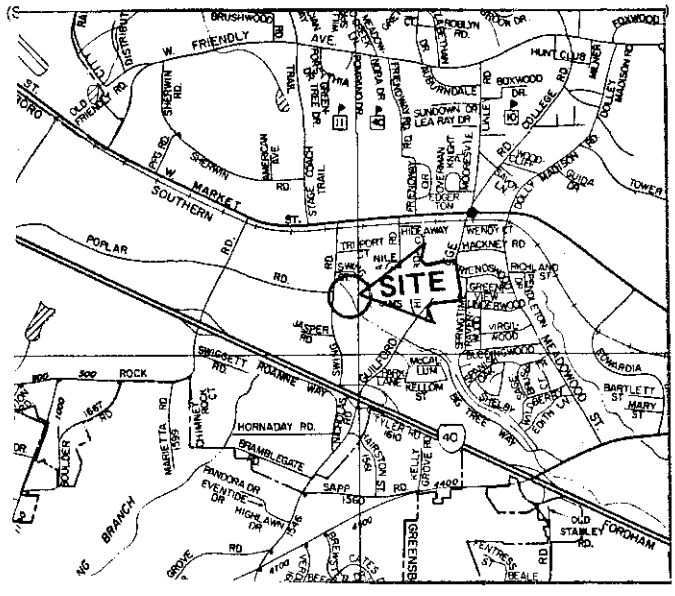
12. SCREEN:

Depth	Diameter	Slot Size	Material
From 35.0 To 40.0 Ft.	2"	in. 0.010	in. PVC
From ____ To ____ Ft.		in.	in.
From ____ To ____ Ft.		in.	in.

13. GRAVEL PACK:

Depth	Size	Material
From 32.5 To 40.0 Ft.	C-3	Sand
From ____ To ____ Ft.		

LOCATION SKETCH



14. REMARKS: Bentonite seal from 29.0' to 32.5'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Stuart Wisnell 3/30/96

SIGNATURE OF CONTRACTOR OR AGENT DATE 03/19/96

Submit original to Division of Environmental Management and copy to well owner.

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
Division of Environmental Health
P.O. Box 3508, Greensboro, NC 27401

RECORD OF CONSTRUCTION, REPAIR OR ABANDONMENT OF A WELL

(To be submitted to Health Director and well owner within fifteen (15) days after completing construction, repair, or abandonment of well.)

MW-7

PLEASE TYPE OR PRINT

Drilling Contractor: Aqua Drill Reg. No. 1361

Address of Well Location: 305 Swing Road, Greensboro, NC

Well Owner: Community Heating & Plumbing Inc. Well Permit Number: NA

Casing Type: Schedule 40 PVC Casing Depth: 35'

Water Bearing Zones: NA ft. _____ ft. _____ ft. _____ ft.

Total Depth of Well: 40.0 ft. Static Water Level: 11.76 ft.

Well Yield: NA gal/min Date Completed: March 1, 1996

Grout Type: Portland Cement Method of Placing Grout: Tremmie

Pump Installation Contractor: NA Reg. No.: _____

Pump Depth/Pumping Water Level: NA ft.

Brand of Pump Installed: NA Pump Size and Type: _____

Nature of Repair (if applicable): NA

Method of Abandonment (if applicable): NA

I do hereby certify that this well was constructed, repaired, or abandoned in accordance with, and meets the requirements of, the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells in effect on this date, and that a copy of this record has been provided to the well owner.

Contractor's Signature: W. Lee Hemy Date: 5-7-96

APPENDIX B

RESEARCH & ANALYTICAL LABORATORIES, INC.
Analytical/Process Consultations
Phone (919) 996-2841

CHAIN OF CUSTODY RECORD

601 \ 6012 TRIG. DB5

WATER/WASTEWATER | MISC.

JOB NO.

PROJECT NAME: 152-95-034

SAMPLERS (SIGNATURE): J. Stuart Wisnall

SAMPLE NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	2L G (BNA, Herb./Pest.)	2 40ml Vials (VOA)	250ml G (TOX)	250ml P (TOC)	1L P,G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease)	1L P,G (COD, N,P)	1L P,G (Metals, Hardness)	1L P,G (CYANIDE)	Sterile P,G (Coliform)	REQUESTED ANALYSIS
MW-1	2/19/96	330P		X	MW-1 263072	4											601 / 602 + MTBE, IPE, EDB & Xylene

RELINQUISHED BY	DATE/TIME	RECEIVED BY
J. Stuart Wisnall	2/19/96 400P	
RELINQUISHED BY	DATE/TIME	RECEIVED BY
		K.S

REMARKS: Results to: Trigon Engineering Greensboro
Please provide
ATTN: STUART WISNALL
Results by 2/26/96 if possible - thanks

RECEIVED FEB 28 1996

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations
Phone [910] 996-2841

CHAIN OF CUSTODY RECORD

JOB NO.

PROJECT NAME Trigon
152 - 95 - 034

SAMPLERS (SIGNATURE)
J. Stuart Wiswell

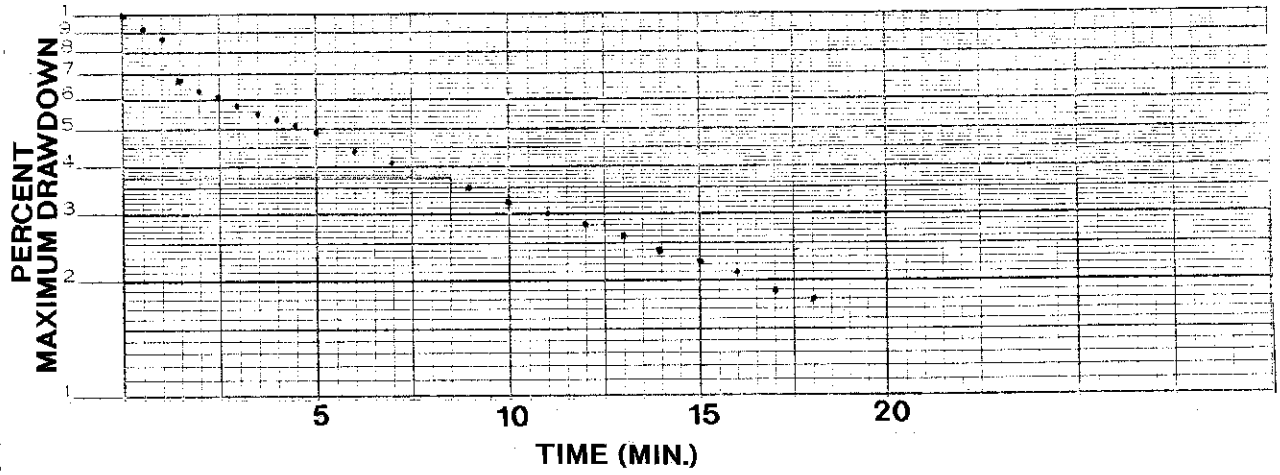
SAMPLE NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	2L G (BNA, Herb./Pest.)	2 40ml Vials (VOA)	250ml G (TOX)	250ml P (TOC)	1L P,G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease)	1L P,G (COD, N,P)	1L P,G (Metals, Hardness)	Sterile P,G (CYANIDE)	Sterile P,G (Coliform)	601/602 + xylene mixt.	1,2 DCA + EDB	8010-C lead only	REQUESTED ANALYSIS
MW-4	3/11/96	503P		1	MW-4	4	264	787									X			
~~MW-4~~	~~3/11/96~~	~~503P~~		~~1~~	~~MW-4~~	~~1~~													X	
MW-4	3/12/96	845A		1	MW-4	1				788										
MW-2	3/11/96	527P		1	MW-2	4				789							X			
MW-2	3/12/96	855 A		1	MW-2	1				790									X	
MW-7	3/12/96	911 A		1	MW-7	4			>	791							X			
MW-7	3/12/96	911 A		1	MW-7	1													X	
MW-5	3/12/96	935A		1	MW-5	4			>	792							X			
MW-5	3/12/96	935A		1	MW-5	1													X	
MW-6	3/12/96	952A		1	MW-6	4			>	793							X			1 vial has air bubble
MW-6	3/12/96	952A		1	MW-6	1													X	
MW-3	3/12/96	1015A		1	MW-3	4			>	794							X			
MW-3	3/12/96	1015A		1	MW-3	1													X	
MW-1	3/12/96	1045A		1	MW-1	1				795									X	

RELINQUISHED BY	DATE/TIME	RECEIVED BY
J. Stuart Wiswell	3/12/96 1:20P	S. Miller
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: Results to Trigon Engineering Greensboro 668-0093 Attn: Stuart Wiswell
Office

RECEIVED APR 15 1996

APPENDIX C



$$K = \frac{r^2 \ln (L/R)}{2\ L\ To}$$

Where

r = 2.54 cm (1″)
L = 212.75 cm (6.98′)
R = 12.45 cm (10″)
To = 510 sec (8.5 min.)

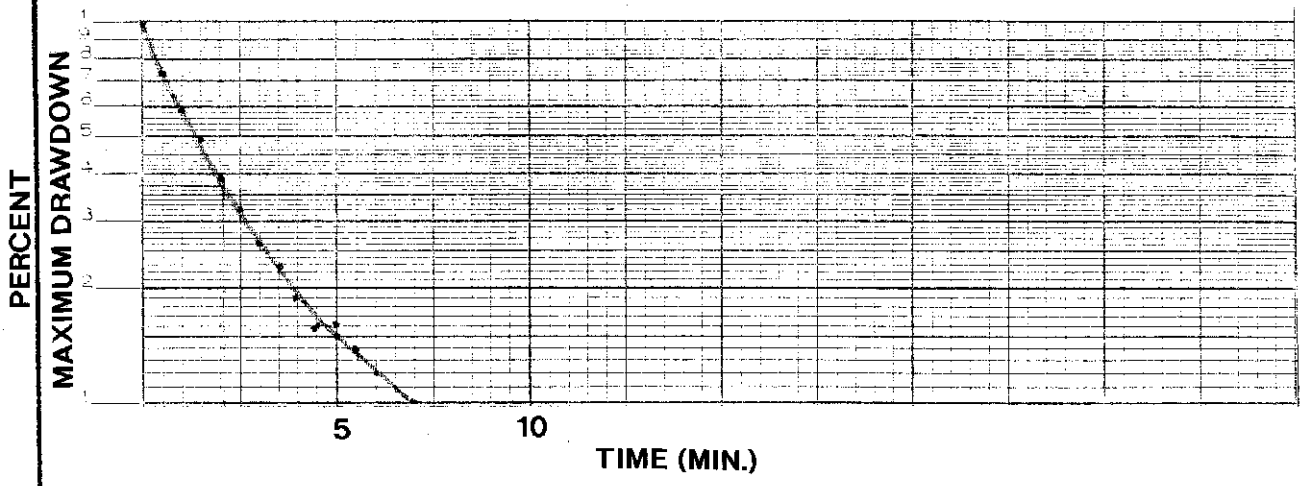
$$K = \frac{(2.54)^2 \ln (212.75/12.70)}{(2)(212.75)(510)} = \frac{(6.4516)(2.8185)}{217005}$$

$K = 8.38 \times 10^{-5}$ cm/sec

TRIGON
ENGINEERING CONSULTANTS, INC.

Community Heating & Plumbing
Rising Head Test MW-1
Trigon Job No. 152-95-034

Test Date: May 1, 1996
Performed by: J.S. Wiswall



$$K = \frac{r^2 \ln (L/R)}{2\ L\ To}$$

Where
r = 2.54 cm (1″)
L = 365.15 cm (11.98′)
R=12.7cm (5″)
To = 126 sec (2.1 min.)

$$K = \frac{(2.54)^2 \ln (365.15/12.7)}{(2)(365.15)(126)} = \frac{(6.45)(3.36)}{92017.8}$$

$K = 2.4 \times 10^{-4}$ cm/sec

TRIGON
ENGINEERING CONSULTANTS, INC.

Community Heating & Plumbing
Rising Head Test MW-2
Trigon Job No. 152-94-034

Test Date: May 1, 1996
Performed by: J.S. Wiswall

APPENDIX D

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Analytical Results for Selected Parameters and Wells (A Trigon Engineering Project # 152-95-034, 19 February 1996)

I. Volatile Organics
EPA Method 601/602

Compound	Detection Limit(mg/l)	MW-1 (mg/l)
Chloromethane	0.0010	BDL
Bromomethane	0.0010	BDL
Vinyl Chloride	0.0010	BDL
Chloroethane	0.0010	BDL
Methylene Chloride	0.0010	BDL
1,1-Dichloroethene	0.0010	BDL
1,1-Dichloroethane	0.0010	BDL
Trans-1,2-Dichloroethene	0.0010	BDL
Chloroform	0.0010	BDL
1,2-Dichloroethane	0.0010	BDL
1,1,1-Trichloroethane	0.0010	BDL
Carbon Tetrachloride	0.0010	BDL
Bromodichloromethane	0.0010	BDL
1,2-Dichloropropane	0.0010	BDL
Cis-1,3-Dichloropropene	0.0010	BDL
Trichloroethene	0.0010	BDL
Dibromochloromethane	0.0010	BDL
1,1,2-Trichloroethane	0.0010	BDL
Trans-1,3-Dichloropropene	0.0010	BDL
2-Chloroethyl vinyl ether	0.0010	BDL
Bromoform	0.0010	BDL
1,1,2,2-Tetrachloroethane	0.0010	BDL
Tetrachloroethene	0.0010	BDL
Chlorobenzene	0.0010	BDL
1,3-Dichlorobenzene	0.0010	BDL
1,2-Dichlorobenzene	0.0010	BDL
1,4-Dichlorobenzene	0.0010	BDL
Benzene	0.0010	BDL
Ethylbenzene	0.0010	BDL
Toluene	0.0010	BDL
Trichlorofluoromethane	0.0010	BDL
Dichlorodifluoromethane	0.0010	BDL
Total Xylenes	0.0010	BDL
MTBE	0.005	BDL
IPE	0.005	BDL
EDB	0.00002	BDL

Sample Number	263072
Sample Date	2/19/96
Sample Time(hrs)	1530

BDL = Below Detection Limits
mg/l = milligrams per liter = parts per million

P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 910/996-2841

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RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

3 April 1996

Trigon Engineering
313 Gallimore Dairy Road
Greensboro, NC 27409
Attention: Stuart Wiswall

Project Number: 152-95-034
Project Name: N/A

Sample Number	Date Taken	Time (hrs)	Station Location	RAL Sample#	EPA Method 3030C	Results (mg/l)
MW-4	3/12/96	0845	MW-4	264788	LEAD	<0.005
MW-2	3/12/96	0855	MW-2	264790	LEAD	<0.005
MW-7	3/12/96	0911	MW-7	264791	LEAD	<0.005
MW-5	3/12/96	0935	MW-5	264792	LEAD	<0.005
MW-6	3/12/96	0952	MW-6	264793	LEAD	<0.005
MW-3	3/12/96	1015	MW-3	264794	LEAD	<0.005
MW-1	3/12/96	1045	MW-1	264795	LEAD	<0.005

mg/l = milligrams per liter = parts per million
< = less than or below detection limits

P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 910/996-2841

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RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS
SIDNEY L. CHAMPION
NC #34
DIRECTOR
CERTIFIED ANALYSIS

Analytical Results for Selected Parameters and Wells (A Trigon Engineering Project # 152-95-034, 11-12 March 1996)

I. Volatile Organics
EPA Method 601/602

Compound	MW-4 (mg/l)	MW-2 (mg/l)	MW-7 (mg/l)	MW-5 (mg/l)	MW-6 (mg/l)	MW-3 (mg/l)
Chloromethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Bromomethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Vinyl Chloride	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Chloroethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Methylene Chloride	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,1-Dichloroethene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,1-Dichloroethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Trans-1,2-Dichloroethene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Chloroform	<0.0050	<0.0050	0.0123	<0.0010	<0.0010	<0.0010
1,2-Dichloroethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,1,1-Trichloroethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Carbon Tetrachloride	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Bromodichloromethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,2-Dichloropropane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Cis-1,3-Dichloropropene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Trichloroethene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Dibromochloromethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,1,2-Trichloroethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Trans-1,3-Dichloropropene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
2-Chloroethyl vinyl ether	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Bromoform	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,1,2,2-Tetrachloroethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Tetrachloroethene	0.0373	0.0151	0.0208	<0.0010	<0.0010	<0.0010
Chlorobenzene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,3-Dichlorobenzene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,2-Dichlorobenzene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
1,4-Dichlorobenzene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Benzene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Ethylbenzene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Toluene	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Trichlorofluoromethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Dichlorodifluoromethane	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Total Xylenes	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
MTBE	<0.0050	0.919	<0.0050	<0.0010	<0.0010	<0.0010
IPE	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
EDB	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Sample Number	264787	264789	264791	264792	264793	264794
Sample Date	3/11/96	3/11/96	3/12/96	3/12/96	3/12/96	3/12/96
Sample Time(hrs)	1703	1727	0911	0935	0952	1015

BDL = Below Detection Limits
mg/l = milligrams per liter = parts per million

P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 910/996-2841

RECEIVED APR 5 1996

Prepared For:

Community Heating and Plumbing Company
305 Swing Road
Greensboro, North Carolina 27409

Prepared By:

Trigon Engineering Consultants, Inc.
Post Office Box 18846
Greensboro, North Carolina 27419-8846

January 17, 1996

Monitoring Well Construction and Chemical Analysis
Swing Road Facility
Greensboro, North Carolina
Trigon Project No. 153-95-034

January 17, 1996

Community Heating & Plumbing Company
305 Swing Road
Greensboro, NC 27409

Attention: Mr. Paul Levy

Reference: Monitoring Well Construction and Chemical Analysis
Swing Road Facility
Greensboro, North Carolina
Trigon Project No. 152-95-034

Dear Mr. Levy:

Trigon Engineering Consultants, Inc. is pleased to provide this summary report for the installation of two groundwater monitoring wells at the referenced facility (Drawing 1). These wells were constructed in order to determine the depth to groundwater in the vicinity of the former 10,000 gallon underground storage tank (UST) that was excavated on October 10, 1995 and to assess the groundwater quality at the site. Based on the analysis of the groundwater from the two groundwater monitoring wells, chemical compounds were present in both monitoring wells which are normally associated with petroleum hydrocarbons. Also, a chlorinated compound not usually associated with motor fuels was detected in groundwater monitoring well MW-2 which was closest to the location of the former 10,000 gallon UST.

FIELD INVESTIGATION

Trigon Engineering Consultants, Inc. mobilized to the site on December 18, 1995 to construct one groundwater monitoring well. However, during the construction of the groundwater monitoring well (MW-2), Mr. Paul Levy requested that a third well (MW-3) be constructed topographically downgradient of MW-2 (Drawing 2). Prior to commencing the construction of the monitoring wells, the drill rig and tools as well as the split-spoon sampler were decontaminated with a high pressure hot water steam cleaner and Greensboro municipal water. Also, before each soil sample retrieval with the split-spoon sampler it was decontaminated in a solution of Alconox detergent and distilled water then rinsed with distilled water.

Groundwater monitoring well MW-2 was constructed adjacent to the former 10,000 gallon UST. This well was constructed to a total depth of 25.0 feet below the ground surface. Two inch PVC pipe was utilized during the well construction and 15 feet of 0.010 slotted screen with 10 feet of casing was used for the construction of the well. The screened interval is from 10.0 to 25.0 feet below the ground surface. A sand pack was placed around the screened interval to approximately eight feet below the ground surface. From 6.0 to 8.0 a bentonite sealing layer was placed to prevent overlying material from entering the screened interval, then a Portland cement mixture was placed above the bentonite material. Next a flush-mount cap was used to prevent unauthorized entry to the groundwater monitoring well.

Groundwater monitoring well MW-3 was constructed topographically downgradient of monitoring well MW-2. This well was constructed to a total depth of approximately 15.0 feet below the ground surface. Ten feet of two inch PVC screen with a slot size of 0.010 inch was used and five feet of solid casing. A sand pack was constructed from 4.0 to 15.0 feet. Next a bentonite seal was placed above the sand from 2.0 to 4.0 feet at which time a Portland cement mixture was placed around the PVC pipe from 2.0 to 0.5 foot below the ground surface. A flush-mount locking cover was used to prevent unauthorized entry into the groundwater monitoring well.

The monitoring well construction records and the soil boring logs are in Appendix A.

The soil samples from both groundwater monitoring wells were collected at five foot intervals with split-spoon samplers. Following the soil sample collection the samples were screened in the field with a Foxboro Model 128 organic vapor analyzer (OVA) which operates by flame ionization detection. The OVA readings are included on the soil boring logs in Appendix A.

Each of the two new wells were developed and purged of five well volumes prior to sampling. Static water levels were measured in each well as well as total depths and volumes were calculated from this information. A new disposable PVC bailer was used at each well. Samples were placed in laboratory prepared containers for chemical analysis by EPA Methods 601, 602 plus methyl tert butyl ether (MTBE), isopropyl ether (IPE), ethylene dibromide (EDB), and xylenes as well as lead by EPA Method 3030C. The groundwater samples were placed in laboratory prepared containers, labeled, placed in coolers with ice at approximately 4°C for transportation to Research & Analytical Laboratories (R&A), in Kernersville, North Carolina for chemical analysis. Chain of Custody records were maintained throughout the field sampling, transportation and laboratory analysis and are included in Appendix B.

HYDROGEOLOGY

The groundwater flow direction was determined for the site investigation area. Monitoring well MW-1 was constructed prior to the present investigation. Each monitoring well was located on-site and top of casing elevations were determined. A temporary benchmark was

established at the southwest corner of the concrete pad nearest to MW-3. An arbitrary elevation of 100.0'± was used for the temporary benchmark. The potentiometric map indicates groundwater flow direction to be to the southeast (Drawing 3).

CHEMICAL ANALYSIS

The chemical analysis, as reported by Research & Analytical Laboratories indicates chemical compounds normally associated with petroleum compounds and one chlorinated compound in the groundwater. Table 1 summarizes the laboratory analysis of identified compounds. The complete laboratory analysis as performed by Research & Analytical Laboratories is included in Appendix B.

CONCLUSIONS

Based on our field observations and the chemical analysis of monitoring wells MW-2 and MW-3, it is apparent that petroleum hydrocarbon constituents and one chlorinated compound are present in the wells. Chemical compounds present in MW-2 are present above the North Carolina groundwater quality standards. Groundwater is migrating generally to the southeast.

CLOSURE

Trigon Engineering Consultants, Inc. is pleased to be of continued service to Community Heating and Plumbing. Should you have questions or require additional information regarding this report, please do not hesitate to contact us.

Very truly yours,

TRIGON ENGINEERING CONSULTANTS, INC.

J. Scott Pearce
Project Geologist

W. Lee Henry, P.G.
Manager, Environmental Geology Department

JSP:WLH:srj

DRAWINGS

FACT SHEET
PROPOSED RBCA
FOR
PETROLEUM UST
15A NCAC 2L .0115

What is the purpose of the rule?

Provide procedures for risk-based assessment and corrective action at leaking petroleum underground storage tank (UST) sites that consider:

- **Protection of human health and the environment,**
- **Protection of state waters,**
- **Anticipated future uses of waters,**
- **Contaminant and site specific conditions, and**
- **Cost efficiency and best use of limited resources.**

Which sites are covered by the rule?

- **Discharges or releases from commercial or noncommercial petroleum USTs reported on or after the effective date of the rule, and**
- **Existing discharges or releases if site assessment has not been completed or if application of the rule will be more cost effective or more protective to human health or the environment.**

Who must comply with the rule?

- **Owners of USTs,**
- **Operators of USTs,**
- **Landowners seeking reimbursement from State Trust Funds for leaking USTs, and**
- **Any person responsible for assessment or cleanup of a petroleum UST discharge or release.**

How is risk classified by the Department?

High Risk

- Water supply well contaminated,
- Water supply well threatened,
- Groundwater has potential future use as water supply,
- Explosion or fire hazard present, or
- Release poses imminent danger to human health or the environment.

Intermediate Risk

- Surface water threatened,
- Deeper aquifer that is or may be used as a drinking water supply is threatened,
- Wellhead protection area affected, or
- Gross levels of contamination are present.

Low Risk

- Not classified as high or intermediate risk, or
- Based on site-specific information, the Department determines that the discharge or release poses no significant risk to human health or the environment.

What if my site meets the criteria for more than one risk category?

The highest applicable risk category will apply. As new site-specific information becomes available, the Department may lower the risk classification as appropriate.

What is required once the release or discharge is classified?

If High Risk...

- **Conduct full Comprehensive Site Assessment (CSA),**
- **Submit Corrective Action Plan (CAP) for restoring groundwater quality to the standards specified in 15A NCAC 2L.0202,**
- **Use natural attenuation to the maximum extent possible, and**
- **Cleanup the soil.**

If Intermediate Risk...

- **Conduct full CSA,**
- **Submit CAP sufficient to protect receptors or to reduce gross levels of contamination,**
- **Use natural attenuation to the maximum extent possible, and**
- **Cleanup the soil.**

If Low Risk...

- **Department will notify the responsible party that** ○*no cleanup*○, ○*no further cleanup*○ **or** ○—¹ ⅞ᵛᵀᶜᵣᴺᴸ⊛⅝ᶜᵣ ⅓⅛ᴺᴸ⊛¹—○ **is required.**

  Note: ***No notification will be issued until soil cleanup is complete.***

What are the soil cleanup goals for my site?

If High or Intermediate Risk...

Soil contamination must be cleaned up to the lowest of the following:

- **Residential or industrial/commercial cleanup level (whichever is applicable), or**
- **Soil to groundwater cleanup levels.**

If Low Risk...

Soil contamination must be cleaned up to:

- **Residential or industrial/commercial cleanup level.**

What is required after site closure?

For sites where groundwater is not restored to the standards in 15A NCAC 2L.0202 and/or soil is not remediated to the most stringent cleanup levels, the following are required:

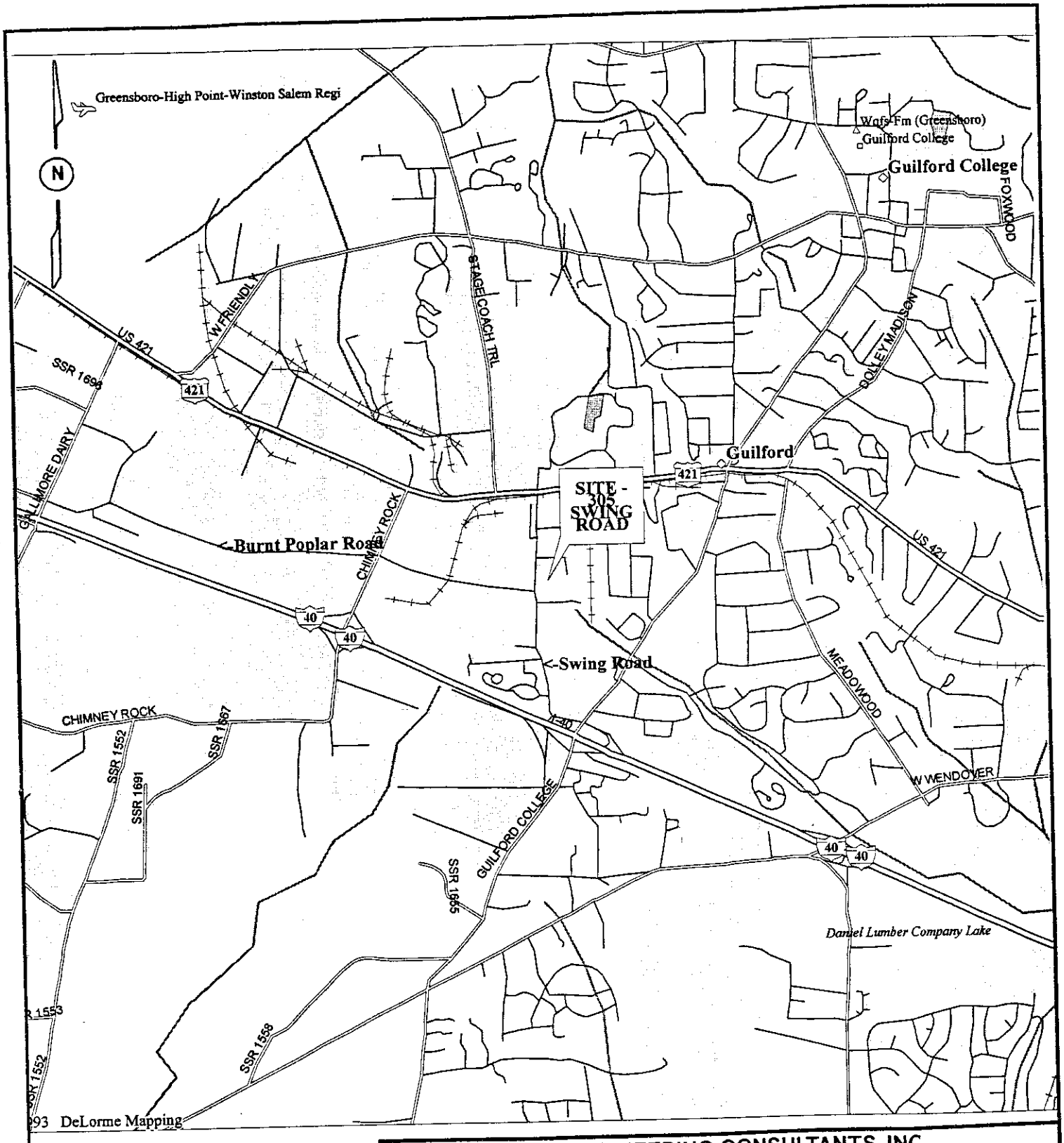
- **Responsible party has a continuing obligation to report information that could result in reclassification of the discharge or release,**
- **Responsible party must provide notification to affected or potentially affected third parties of receipt of notice of** ○*no cleanup*○, ○*no further cleanup*○ or ○*no further action*○, and
- **Each Division of Water Quality regional office will maintain a list of all releases or discharges reported on or after the effective date of the rule and a list of all sites which receive a notice of** ○*no cleanup*○, ○*no further cleanup*○ or ○*no further action*○ on or after the effective date of the rule.

Where can I obtain more information about the proposed rules?

On the Internet:
Groundwater Section webpage at the following address:

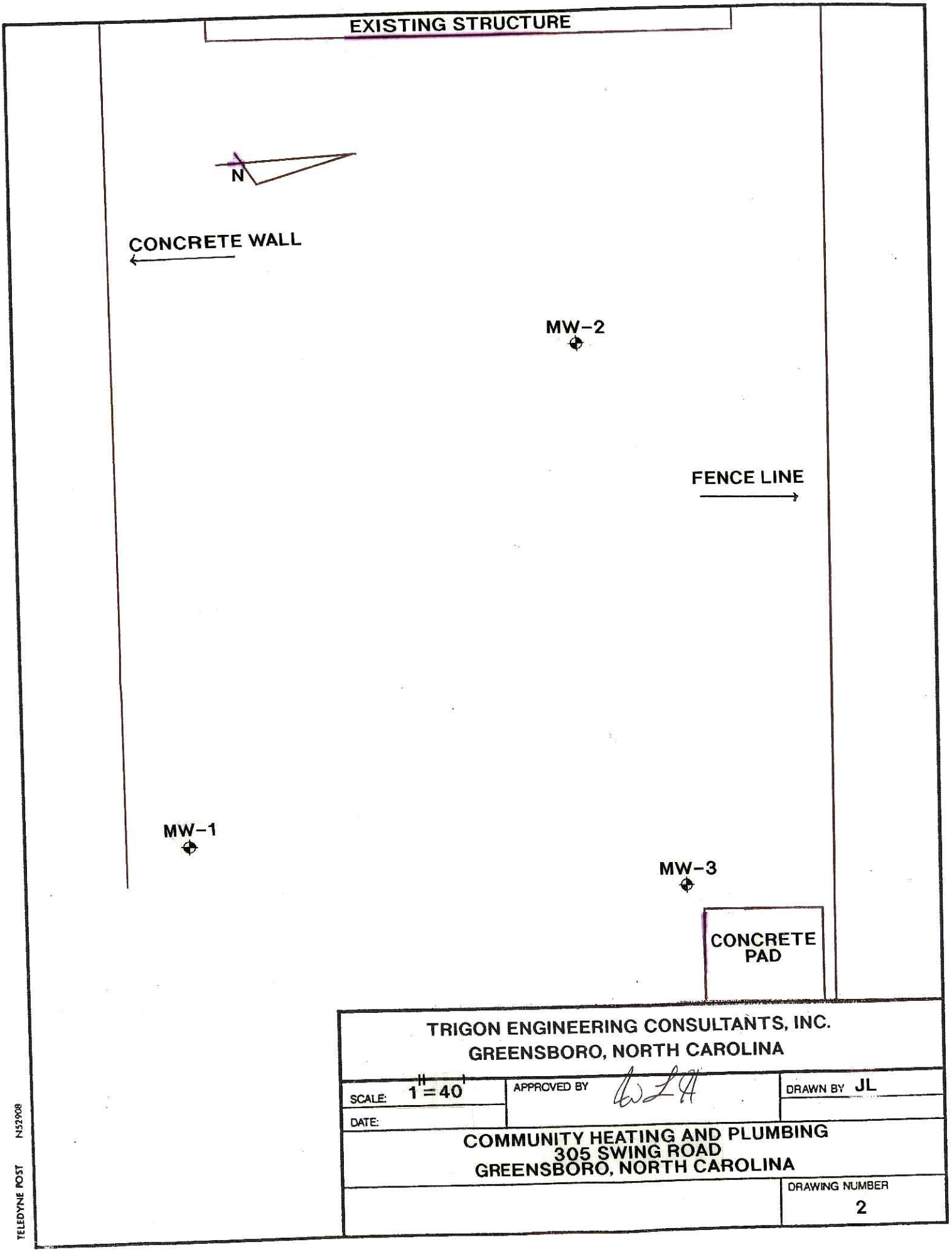
http://gw.ehnr.state.nc.us/rbca

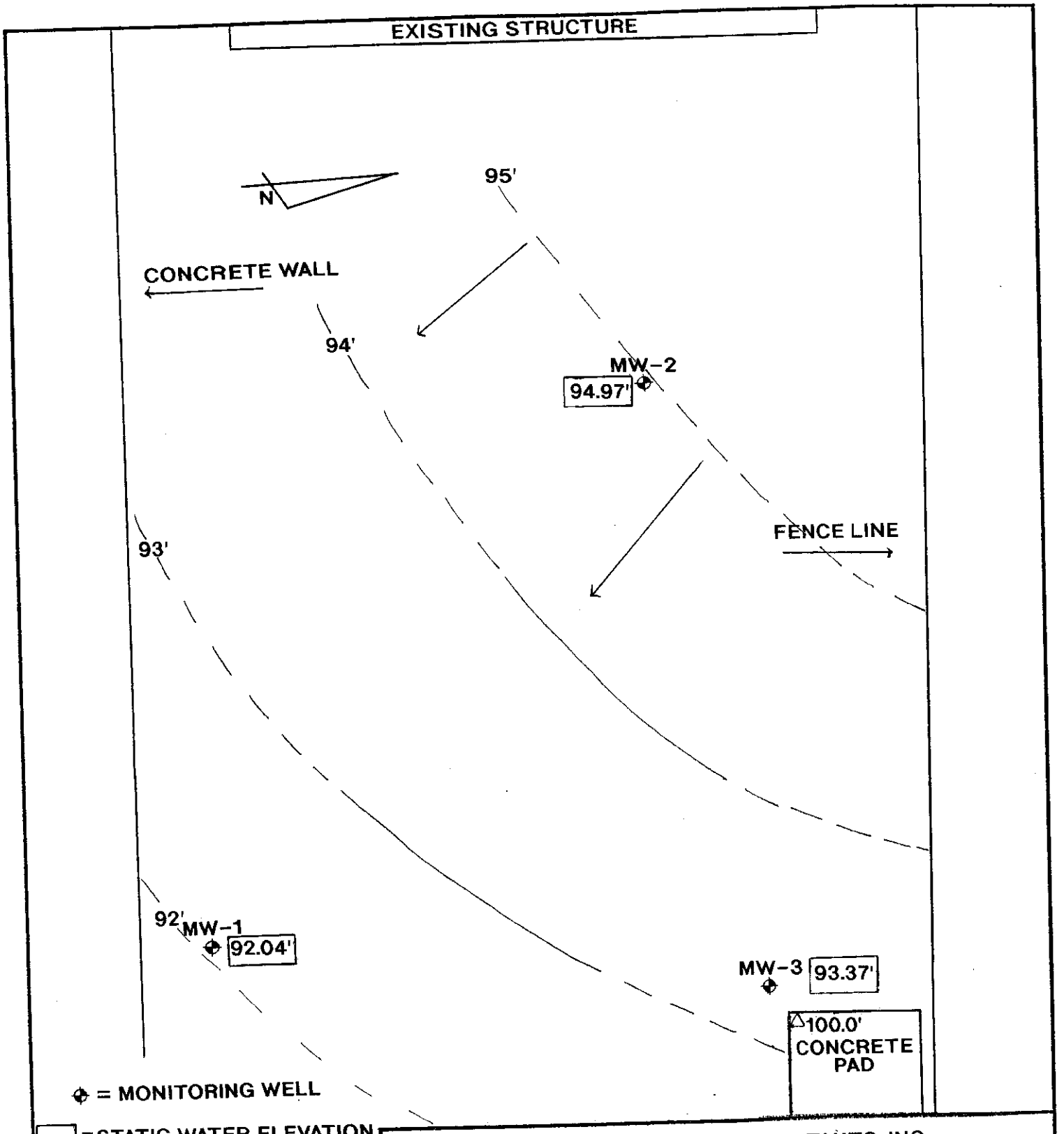
or call the Groundwater Section at (919) 733-3221 to request a copy of the Proposed UST Rules.



TRIGON ENGINEERING CONSULTANTS, INC GREENSBORO,NORTH CAROLINA		
SCALE: 1:31,250	APPROVED BY WLH	DRAWN BY N/A
DATE: 10/20/95		
COMMUNITY HEATING & PLUMBING, INC. 305 SWING ROAD GREENSBORO, NC		
SITE LOCATION		DRAWING NUMBER 1

TELEDYNE POST N52908


EXISTING STRUCTURE
N
CONCRETE WALL
MW-2
FENCE LINE
MW-1
MW-3
CONCRETE PAD
TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA
SCALE: 1" = 40'
APPROVED BY
DRAWN BY JL
DATE:
COMMUNITY HEATING AND PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA
DRAWING NUMBER
2
TELEDYNE POST N52908



◆ = MONITORING WELL

▭ = STATIC WATER ELEVATION

⟶ = GROUNDWATER FLOW DIRECTION

△ = TEMPORARY BENCH MARK

TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: 1"=40'	APPROVED BY	DRAWN BY JL
DATE: 1-10-96		

COMMUNITY HEATING AND PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA

POTENTIOMETRIC MAP	DRAWING NUMBER 3

TELEDYNE ROST N32908

TABLES

Table 1
Detected Chemical Compounds
Community Heating and Plumbing
305 Swing Road
Greensboro, North Carolina
Trigon Project No. 152-95-034

Location	Date Sampled	Analysis Method	Results $\mu g/\ell$		NCGWQS $\mu g/\ell$
MW-2	12/19/95	601, 602	*Tetrachloroethene	18	0.7
			*Benzene	4	1
			*MTBE	230.1	200
		Lead 3030C	Lead	6	15
MW-3	12/19/95	601, 602	MTBE	22	200
		Lead 3030C	Lead	9	15

$\mu g/\ell$ - Micrograms per Liter
NCGWQS = North Carolina Groundwater Quality Standard
* = North Carolina Groundwater Quality Standard Exceedance

APPENDIX A

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count
0.0	Elev. = 108.84±		
0.7	Silty Coarse to Fine SAND with Gravel		
2.0	Red, Brown, and Orange Slightly Clayey Fine Sandy SILT		
	Brown Fine Sandy SILT	6.5	
8.0	Grey Medium to Fine Sandy Clayey SILT with Organics-Alluvial	300	
14.5	Tan-Yellow Medium to Fine Sandy SILT-Residual	26	
		86	
25.0	Boring Terminated	3.5	

● PENETRATION - BLOWS PER FT.

5 10 20 30 40 60 80 100

13.70'

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE

50% ROCK CORE RECOVERY

◄ LOSS OF DRILLING WATER

WATER TABLE-24 HR.

WATER TABLE-1 HR.

CAVE-IN DEPTH

BORING NO. MW-2

DATE DRILLED 12/18/95

JOB NO. 152-95-034

PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND+ COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611, PHONE (919) 733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____

Lat. _____ Long. _____ Pc _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Aqua Drill

DRILLER REGISTRATION NUMBER 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: NA

1. WELL LOCATION: (Show sketch of the location below)

   Nearest Town: Greensboro, North Carolina

   305 Swing Road
   (Road, Community, or Subdivision and Lot No.)

   County: Guilford

   MW-2

2. OWNER Community Heating and Plumbing

   ADDRESS 305 Swing Road
   (Street or Route No.)

   Greensboro, North Carolina 27409
   City or Town State Zip Code

3. DATE DRILLED 12/18/95 USE OF WELL Monitoring

4. TOTAL DEPTH 25.0 CUTTINGS COLLECTED ☒ Yes ☐ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 13.70 FT. ☐ above TOP OF CASING, ☒ below

   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE

7. YIELD (gpm): N/A METHOD OF TEST N/A

8. WATER ZONES (depth): N/A

9. CHLORINATION: Type N/A Amount N/A

10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0.0 To 10.0 Ft.	2"	Schedule 40	PVC
From ____ To ____ Ft.			
From ____ To ____ Ft.			

11. GROUT:

Depth	Material	Method
From 0.5 To 6.0 Ft.	Portland	Hand
From ____ To ____ Ft.		

12. SCREEN:

Depth	Diameter	Slot Size	Material
From 0.0 To 25.0 Ft.	2"	in. 0.010	in. PVC
From ____ To ____ Ft.		in.	in.
From ____ To ____ Ft.		in.	in.

13. GRAVEL PACK:

Depth	Size	Material
From 8.0 To 25.0 Ft.	Fine Filter	Sand
From ____ To ____ Ft.		

DRILLING LOG

Depth From	Depth To	Formation Description
		See Boring Log MW-2

If additional space is needed, use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

See Drawing No. 1

14. REMARKS: Bentonite at 6.0' to 8.0'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

W. L. Henry 1-17-96

SIGNATURE OF CONTRACTOR OR AGENT DATE 01/11/96

Submit original to Division of Environmental Management and copy to well owner.

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
Division of Environmental Health
P.O. Box 3508, Greensboro, NC 27401

RECORD OF CONSTRUCTION OR ABANDONMENT OF A WELL

(To be submitted to Health Director and well owner within fifteen (15) days after completing construction, abandonment or repair.)

PLEASE TYPE OR PRINT MW-2

Date of construction, abandonment, or repair: December 18, 1995

Well Location: 305 Swing Road

Greensboro, North Carolina 27409

Well Owner: Community Heating and Plumbing

Total depth of well: 25.0 ft. Casing depth: 10.0 ft.

Static water level: 13.87 ft. Pumping water depth: NA ft.

Well yield: NA gpm Pump size and type: NA

Water bearing zone: NA ft. _____ ft. _____ ft.

Grout type: Portland Grout depth: 6.0 ft.

Method of placing grout: Hand

Annular space width: 4 in.

Pump installed by: NA

Nature of repair (if applicable): NA

Method of abandoning (if applicable): NA

I hereby certify that this well meets the requirements of the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells as established by the Board, effective June 1, 1989.

Contractor's Signature: [signature] Date: 01/11/96

DEPTH, FT.	DESCRIPTION	OVA Reading	Blow Count
0.0	Elev. = 96.19±		
	Brown Slightly Clayey Fine Sandy SILT with Gravel		
1.5	Grey Slightly Clayey Coarse to Fine Sandy SILT		
5.0	Brown Slightly Clayey Coarse to Fine Sandy SILT	250	
		10	
15.0	Boring Terminated	2.5	

● PENETRATION - BLOWS PER FT.

5 10 20 30 40 60 80 100

2.76'

TEST BORING RECORD

BORING AND SAMPLING MEETS ASTM D-1586

CORE DRILLING MEETS ASTM D-2113

PENETRATION IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN, I.D. SAMPLER 1 FT.

UNDISTURBED SAMPLE

|50|% ROCK CORE RECOVERY

◄ LOSS OF DRILLING WATER

WATER TABLE-24 HR.

WATER TABLE-1 HR.

CAVE-IN DEPTH

BORING NO. MW-3

DATE DRILLED 12/18/95

JOB NO. 152-95-034

PAGE 1 of 1

TRIGON

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND+ COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, N.C. 27611. PHONE (919) 733-3221

WELL CONSTRUCTION RECORD

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____

Lat. _____ Long. _____ Pc _____

Minor Basin _____

Basin Code _____

Header Ent. _____ GW-1 Ent. _____

DRILLING CONTRACTOR Aqua Drill

DRILLER REGISTRATION NUMBER 1361

STATE WELL CONSTRUCTION PERMIT NUMBER: NA

1. WELL LOCATION: (Show sketch of the location below)

   Nearest Town: Greensboro, North Carolina

   County: Guilford

   305 Swing Road
   (Road, Community, or Subdivision and Lot No.)

   MW-3

2. OWNER Community Heating and Plumbing

   ADDRESS 305 Swing Road
   (Street or Route No.)

   Greensboro, North Carolina 27409
   City or Town State Zip Code

3. DATE DRILLED 12/18/95 USE OF WELL Monitoring

4. TOTAL DEPTH 15.0 CUTTINGS COLLECTED ☒ Yes ☐ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 2.82 FT. ☐ above TOP OF CASING, ☒ below

   TOP OF CASING IS 0 FT. ABOVE LAND SURFACE

7. YIELD (gpm): N/A METHOD OF TEST N/A

8. WATER ZONES (depth): N/A

9. CHLORINATION: Type N/A Amount N/A

10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From 0.0 To 5.0 Ft.	2"	Schedule 40	PVC
From ____ To ____ Ft.			
From ____ To ____ Ft.			

11. GROUT:

Depth	Material	Method
From 0.5 To 2.0 Ft.	Portland	Hand
From ____ To ____ Ft.		

12. SCREEN:

Depth	Diameter	Slot Size	Material
From 5.0 To 15.0 Ft.	2"	in. 0.010	in. PVC
From ____ To ____ Ft.		in.	in.
From ____ To ____ Ft.		in.	in.

13. GRAVEL PACK:

Depth	Size	Material
From 4.0 To 15.0 Ft.	Fine Filter	Sand
From ____ To ____ Ft.		

DRILLING LOG

Depth From	To	Formation Description
		See Boring Log MW-3

If additional space is needed, use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

See Drawing No. 1

14. REMARKS: Bentonite at 2.0' to 4.0'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT DATE 01/11/96

Submit original to Division of Environmental Management and copy to well owner.

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
Division of Environmental Health
P.O. Box 3508, Greensboro, NC 27401

RECORD OF CONSTRUCTION OR ABANDONMENT OF A WELL

(To be submitted to Health Director and well owner within fifteen (15) days after completing construction, abandonment or repair.)

PLEASE TYPE OR PRINT MW-3

Date of construction, abandonment, or repair: December 18, 1995

Well Location: 305 Swing Road

Greensboro, North Carolina 27409

Well Owner: Community Heating and Plumbing

Total depth of well: 1.0 ft. Casing depth: 5.0 ft.

Static water level: 2.82 ft. Pumping water depth: NA ft.

Well yield: NA gpm Pump size and type: NA

Water bearing zone: NA ft. _____ ft. _____ ft.

Grout type: Portland Grout depth: 2.0 ft.

Method of placing grout: Hand

Annular space width: 4 in.

Pump installed by: NA

Nature of repair (if applicable): NA

Method of abandoning (if applicable): NA

I hereby certify that this well meets the requirements of the Guilford County Board of Health Rules and Regulations Governing the Construction, Repair, and Abandonment of Wells as established by the Board, effective June 1, 1989.

Contractor's Signature: [signature] Date: 01/11/96

APPENDIX B

RESEARCH & ANALYTICAL LABORATORIES, INC.
Analytical/Process Consultations
Phone (910) 996-2841

CHAIN OF CUSTODY RECORD

601\601TRIG.DB5

WATER/WASTEWATER | MISC.

JOB NO. 152-95-034

PROJECT NAME 152-95-034

SAMPLERS (SIGNATURE) J. Scott Pearce

SAMPLE NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	2L G (BNA, Herb./Pest.)	2 40ml Vials (VOA)	250ml G (TOX)	250ml P (TOC)	1L P,G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease)	1L P,G (COD, N,P)	1L P,G (Metals, Hardness)	1L P,G (CYANIDE)	Sterile P,G (Coliform)			601, 602, EDB, TPF	MTBE, Xylenes	LEAD 3030C	REQUESTED ANALYSIS
MW-2	12-19-95	1345		X	MW-2	5		2	5	8	5	6	0						X	X	X	
MW-3	12-19-95	1430		X	MW-3	5					5	6	1						X	X	X	
					JB						5	6	2									

RELINQUISHED BY	DATE/TIME	RECEIVED BY
J. Scott Pearce	12-19-95 3:00	S. Miller
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: 1. send results to Trigon Engineering Consultants, Inc. ATTN: Scott Pearce
2. result requested on 12-28-95

ON Ice

RECEIVED JAN 5 1996

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Analytical Results for Selected Parameters and Wells (A Trigon Engineering Project # 152-95-034, 19 December 1995)

I. Volatile Organics
EPA Method 601/602

Compound	Detection Limit(mg/l)	MW-2 (mg/l)	MW-3 (mg/l)
Chloromethane	0.0010	BDL	BDL
Bromomethane	0.0010	BDL	BDL
Vinyl Chloride	0.0010	BDL	BDL
Chloroethane	0.0010	BDL	BDL
Methylene Chloride	0.0010	BDL	BDL
1,1-Dichloroethene	0.0010	BDL	BDL
1,1-Dichloroethane	0.0010	BDL	BDL
Trans-1,2-Dichloroethene	0.0010	BDL	BDL
Chloroform	0.0010	BDL	BDL
1,2-Dichloroethane	0.0010	BDL	BDL
1,1,1-Trichloroethane	0.0010	BDL	BDL
Carbon Tetrachloride	0.0010	BDL	BDL
Bromodichloromethane	0.0010	BDL	BDL
1,2-Dichloropropane	0.0010	BDL	BDL
Cis-1,3-Dichloropropene	0.0010	BDL	BDL
Trichloroethene	0.0010	BDL	BDL
Dibromochloromethane	0.0010	BDL	BDL
1,1,2-Trichloroethane	0.0010	BDL	BDL
Trans-1,3-Dichloropropene	0.0010	BDL	BDL
2-Chloroethyl vinyl ether	0.0010	BDL	BDL
Bromoform	0.0010	BDL	BDL
1,1,2,2-Tetrachloroethane	0.0010	BDL	BDL
Tetrachloroethene	0.0010	0.0180	BDL
Chlorobenzene	0.0010	BDL	BDL
1,3-Dichlorobenzene	0.0010	BDL	BDL
1,2-Dichlorobenzene	0.0010	BDL	BDL
1,4-Dichlorobenzene	0.0010	BDL	BDL
Benzene	0.0010	0.0040	BDL
Ethylbenzene	0.0010	BDL	BDL
Toluene	0.0010	BDL	BDL
Trichlorofluoromethane	0.0010	BDL	BDL
Dichlorodifluoromethane	0.0010	BDL	BDL
Total Xylenes	0.0010	BDL	BDL
MTBE	0.005	0.2301	0.0220
IPE	0.005	BDL	BDL
EDB	0.0005	BDL	BDL

II. Inorganics
EPA Method 3030C

Parameter			
Lead	0.005	0.006	0.009
Sample Number		258560	258561
Sample Date		12/19/95	12/19/95
Sample Time(hrs)		1345	1430

BDL = Below Detection Limits
mg/l = milligrams per liter = parts per million

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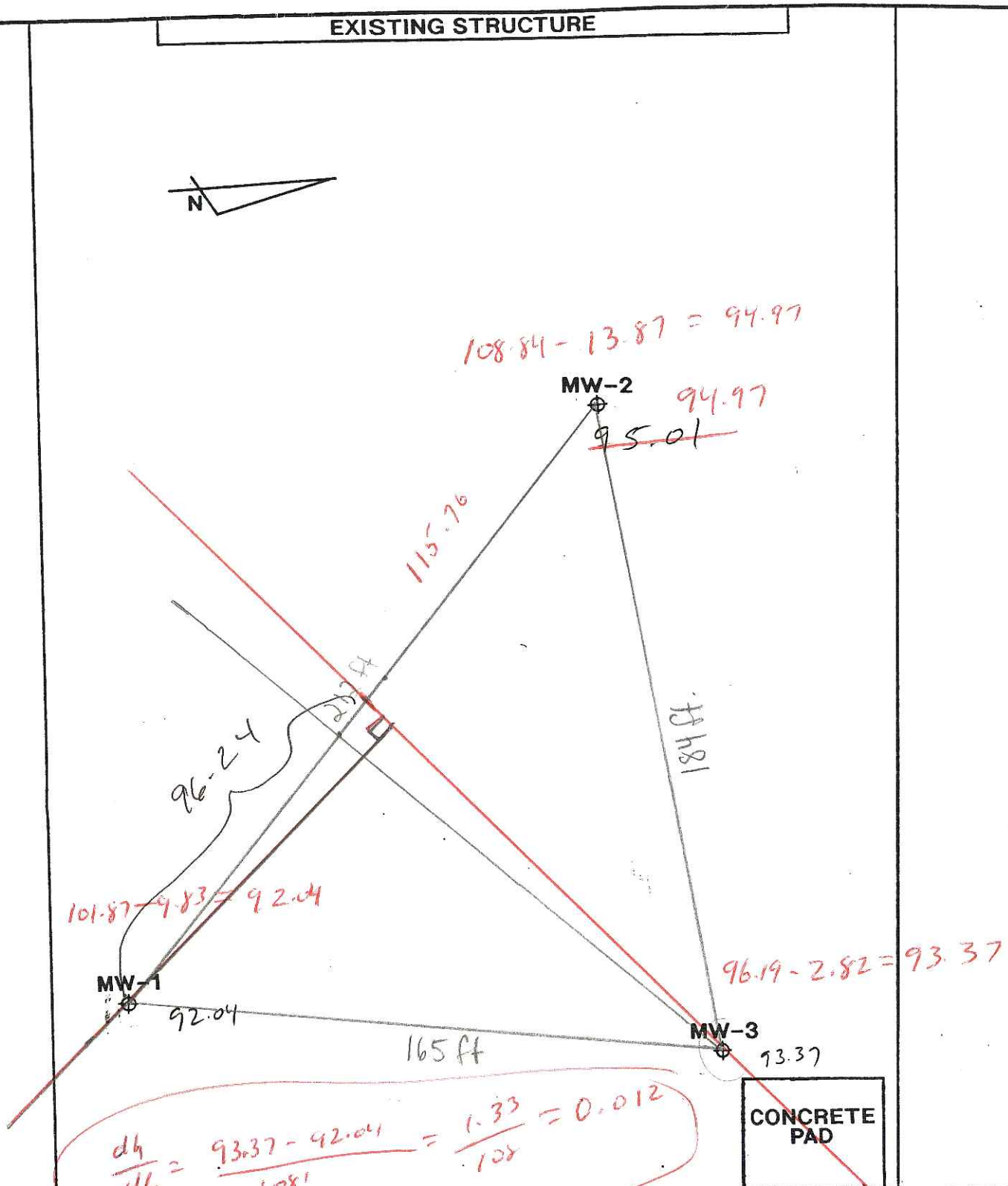


TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA

SCALE: 1"=40'	APPROVED BY	DRAWN BY J.L
DATE: 1-10-96		

COMMUNITY HEATING AND PLUMBING
305 SWING ROAD
GREENSBORO, NORTH CAROLINA

DRAWING NUMBER

TELEDYNE POST N57908

APPENDIX E

Prepared For:

Devorsetz, Stinziano, Gilberti, Heintz and Smith, P. C.
555 East Genesee Street
Syracuse, New York 13202-2159

Turner, Annex and Lloyd
717 Green Valley Road
Greensboro, North Carolina 27408-7019

Prepared By:

Trigon Engineering Consultants, Inc.
Post Office Box 18846
Greensboro, North Carolina 27419-8846

March 1, 2000

Limited Phase II Groundwater Assessment
305 Swing Road
Greensboro, North Carolina
Trigon Project No. 152-00-009

March 1, 2000

Devorsetz Stinziano Gilberti Heintz & Smith, P. C.
555 East Genesee Street
Syracuse, New York 13202-2159

Turner, Annex and Lloyd
717 Green Valley Road
Greensboro, North Carolina 27408-7019

Attention: Mr. Michael Santaro
Mr. Herbert Falk

Reference: Limited Phase II Groundwater Assessment
305 Swing Road
Greensboro, North Carolina
Trigon Project No. 152-00-009

Gentlemen:

Trigon Engineering Consultants, Inc. (Trigon) has completed the Limited Groundwater Assessment at the referenced site in general accordance with Trigon Proposal 152-00-004-P, dated January 12, 2000. The purpose of the assessment was to evaluate current groundwater conditions through the collection and chemical analysis of samples from seven existing monitoring wells. The collected samples were analyzed using methods required by North Carolina's Risked Based Corrective Action (RBCA) rules. The laboratory reported detecting the petroleum hydrocarbon constituents benzene and methyl tert butyl ether (MTBE) as well as the chlorinated solvent tetrachloroethene (perc) and chloroform at concentrations that exceed the maximum levels permitted under Title 15A of the North Carolina Administrative Code, Subchapter 2L (2L standards) for Class GA groundwater. This report summarizes our field activities, observations, and includes the complete laboratory report.

BACKGROUND

The subject site is located at 305 Swing Road in Greensboro, North Carolina (Drawing 152-00-009-1). The 3.61± acre site was formerly occupied by Community Heating and Plumbing, a plumbing and heating services contractor. In October 1995, Trigon was involved in the closure of a 10,000-gallon gasoline underground storage tank (UST) and subsequent environmental investigations at the site. The previous groundwater assessment included the installation of seven monitoring wells. Each of the seven wells, except for MW-7, was installed as an unconfined aquifer monitoring well with the screen section set across the water table. Monitoring well MW-7 was installed as a Type III well in an effort to define the vertical extent of contamination. MW-7 was constructed with four-inch surface casing set to 30 feet below ground surface (bgs) and completed with a five foot, two-inch diameter screen set between 35 and 40 feet bgs. During these investigations, an area of petroleum hydrocarbon affected groundwater was identified down gradient of the former UST location. Two subsequent resampling events conducted in 1996 and 1997 detected MTBE as the only hydrocarbon constituent consistently detected above North Carolina 2L standards. Non-petroleum related compounds that have been detected above their respective 2L standards include perc and chloroform. Perc has been detected in three of the monitoring wells, including the hydraulically upgradient well MW-4. Chloroform has been detected in the two most recent samples collected from MW-4. Because monitoring well MW-4 is located hydraulically upgradient of the former UST location and adjacent to the site's northern property boundary, it appears that the occurrence of perc and chloroform in the groundwater are unrelated to the UST and likely have an off-site source.

In January 1998, North Carolina adopted a risked-based assessment approach for addressing releases from petroleum USTs. The RBCA rules established criteria to assign a risk classification based on site specific data, and another set of maximum allowable groundwater contaminant concentrations based on the calculated risk to human health and the environment. Based on their assessment of site specific data, the North Carolina Department of Environment and Natural Resources (NCDENR) classifies the risk posed by a petroleum UST release as either low, intermediate, or high. The groundwater contaminant concentrations established by the RBCA rules are identified as Gross Contamination Levels (GCLs). Releases classified as low risk that have groundwater contaminant concentration below the GCLs may be eligible for a "No Further Action Required" status from the NCDENR.

In 1999, the North Carolina General Assembly enacted Senate Bill 1159, which requires deed restrictions for sites closed under the RBCA rules that have groundwater contaminant concentrations exceeding the 2L standards. The application of this law has not been determined with respect to the UST program. Pending implementation guidance, the NCDENR has temporarily stopped issuing "No Further Action Required" letters for low risk releases with 2L groundwater violations. Based on Trigon's previous involvement with the property at 305 Swing Road, we believe the release at this site meets the low risk criteria and that the site will be eligible

for a "No Further Action Required" status once the issues raised by Senate Bill 1159 have been resolved.

FIELD ACTIVITIES

On February 8, 2000 a Trigon geologist and environmental technician arrived at the site to purge and sample the seven groundwater monitoring wells. The well locations are identified on Drawing 152-00-009-2. The volume of water standing in the well casing was calculated and at least three well volumes of water were removed using a new disposable polyethylene bailer and new nylon bailer cord. Trigon personnel wore a new pair of disposable latex gloves during the purging and sampling of each well.

After each well was purged, the water level was allowed to return to at least 80% of the pre-purge level before sampling. Samples collected for chemical analysis were obtained using the bailer and transferred to laboratory provided jars. The jars were labeled and maintained on ice until delivered to an independent North Carolina certified laboratory. A Chain of Custody document was utilized throughout the collection and transportation process.

During previous site work, Trigon established the elevation of the top of each well casing relative to a temporary benchmark with an assumed elevation of 100.00 feet. A historical potentiometric surface map is presented as Drawing 152-00-009-3 and indicates a groundwater flow direction to the southeast.

LABORATORY ANALYSIS

The samples were transported by overnight courier to Prism Laboratories, Inc. in Charlotte, North Carolina for analysis of volatile organic compounds (VOCs) by EPA Methods 601/602 including MTBE, isopropyl ether (IPE) and ethylene dibromide (EDB), volatile petroleum hydrocarbons by the Massachusetts Department of Environmental Protection (MADEP) VPH method and lead using standard preparation method 3030C. Targeted analytes were reported above method detection limits in the samples from monitoring wells MW-2, MW-4, and MW-7. Benzene and MTBE were detected in the sample from MW-2 at concentrations that exceeded their respective 2L standards. Perc was reported at concentrations that exceed it's 2L standard in the samples from monitoring wells MW-2, MW-4, and MW-7. Chloroform was reported at a concentration that exceed it's 2L standard in the sample from MW-4. No targeted analyte was reported at a concentration that exceeds it's respective GCL.

Table 1 summarizes the analytical results from the February 8, 2000 sampling event and compares the reported concentrations to the 2L standards and GCLs. Table 2 provides a historical summary

of previous sampling events. The complete laboratory report for the February sampling event is included in Appendix A.

CONCLUSIONS

The current sampling of the on-site monitoring wells confirms the existence of the petroleum constituents benzene and MTBE, and the chlorinated solvent tetrachloroethene and chloroform, in the groundwater at concentrations that exceed the North Carolina 2L standards but are below the GCLs. Assuming the NCDENR classifies the UST release as a low risk incident, the groundwater data supports a request for a "No Further Action Required" status once the issues involving deed restrictions are resolved by North Carolina.

CLOSURE

Trigon Engineering Consultants, Inc. appreciates the opportunity to be of service to you on this project. If you have any questions regarding this report or require additional information, please contact us.

Very truly yours,

TRIGON ENGINEERING CONSULTANTS, INC.

Christopher W. Hay, E. I.
Environmental Geologist

J. Stuart Wiswall, P. G.
Senior Project Geologist

CWH:JSW:pkb

Enclosures

TABLES

Table 1
Groundwater Analytical Summary
305 Swing Road
Greensboro, North Carolina
Trigon Project No. 152-00-009

Parameter	Analytical Results							Comparison Criteria	
Sample ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	2L Groundwater Quality Standard	GCLs
Collection Date	02/08/00	02/08/00	02/08/00	02/08/00	02/08/00	02/08/00	02/08/00		
Volatile Organic Compounds by EPA Methods 601/602 (µg/l):									
Benzene	BDL	**7.2**	BDL	BDL	BDL	BDL	BDL	1.0	5,000
Chloroform	BDL	BDL	BDL	**1.6**	BDL	BDL	BDL	0.19	190
MTBE	BDL	**510**	BDL	BDL	BDL	BDL	BDL	200	200,000
Tetrachloroethene	BDL	**14**	BDL	**42**	BDL	BDL	**22**	0.7	29,000
Volatile Petroleum Hydrocarbons by MADEP VPH Method (µg/l):									
C_5-C_8 Aliphatics	BDL	BDL	BDL	BDL	BDL	BDL	BDL	420	NE
C_9-C_{10} Aromatics	BDL	BDL	BDL	BDL	BDL	BDL	BDL	210	NE
C_9-C_{12} Aliphatics	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,200	NE
Lead by EPA Method 3030C									
Lead	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15.0	15,000

Notes:

VOC analysis included methyl tert butyl ether (MTBE), isopropyl ether (IPE), and ethylene dibromide (EDB)

µg/l - micrograms per liter, analogous to parts per billion

BOLD - Concentration exceeds the 2L Groundwater Quality Standards

GCL - Gross Contaminant Level - NCDENR Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater, Volume II (January 2, 1998)

2L Groundwater Quality Standard - Title 15A, North Carolina Administrative Code, Subchapter 2L Standards for Class GA groundwater

NE - Not Established

BDL - Below Detection Limits

Table 2 Historical Groundwater Analytical Summary 305 Swing Road Greensboro, North Carolina Trigon Project No. 152-00-009					
Parameter		Analytical Results (µg/l)			
Location	Sample Date	Benzene	Chloroform	MTBE	Tetrachloroethene
2L Groundwater Quality Standard (µg/l)		1.0	0.19	200	0.7
MW-1	2/19/1996	BDL	BDL	BDL	BDL
	10/15/1997	BDL	BDL	BDL	BDL
	2/8/2000	BDL	BDL	BDL	BDL
MW-2	12/19/1995	**4**	BDL	**230.1**	**18**
	3/11/1996	BDL	BDL	**919**	**15.1**
	10/15/1997	BDL	BDL	**2,660**	BDL
	2/8/2000	**7.2**	BDL	**510**	**14**
MW-3	12/19/1995	BDL	BDL	22	BDL
	3/11/1996	BDL	BDL	BDL	BDL
	10/15/1997	BDL	BDL	BDL	BDL
	2/8/2000	BDL	BDL	BDL	BDL
MW-4	3/11/1996	BDL	BDL	BDL	**37.3**
	10/15/1997	BDL	**1.2**	BDL	**38.2**
	2/8/2000	BDL	**1.6**	BDL	**42**
MW-5	3/11/1996	BDL	BDL	BDL	BDL
	10/15/1997	BDL	BDL	BDL	BDL
	2/8/2000	BDL	BDL	BDL	BDL
MW-6	3/11/1996	BDL	BDL	BDL	BDL
	10/15/1997	BDL	BDL	BDL	BDL
	2/8/2000	BDL	BDL	BDL	BDL
MW-7	3/11/1996	BDL	**12.3**	BDL	**20.8**
	10/15/1997	BDL	BDL	5.5	**32.7**
	2/8/2000	BDL	BDL	BDL	**22**

Notes:

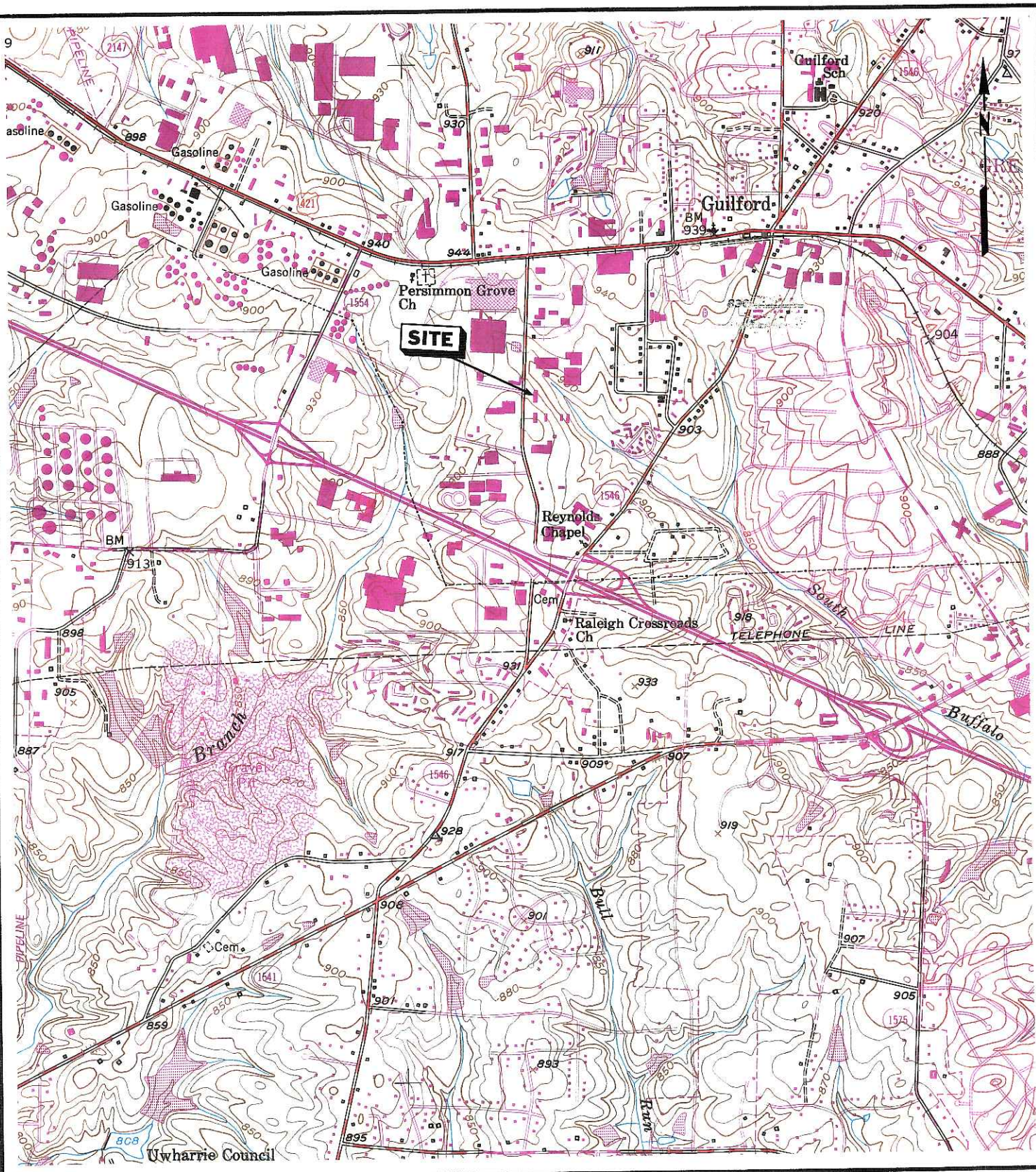
µg/l - micrograms per liter, analogous to parts per billion

BOLD - Concentration exceeds the 2L Groundwater Quality Standards

2L Groundwater Quality Standard - Title 15A, North Carolina Administrative Code, Subchapter 2L Standards for Class GA groundwater

BDL - Below Detection Limits

DRAWINGS



SCALE: 1" = 2000'	DATE: 2/13/00	APPROVED BY: DSW	DRAWN BY: USGS

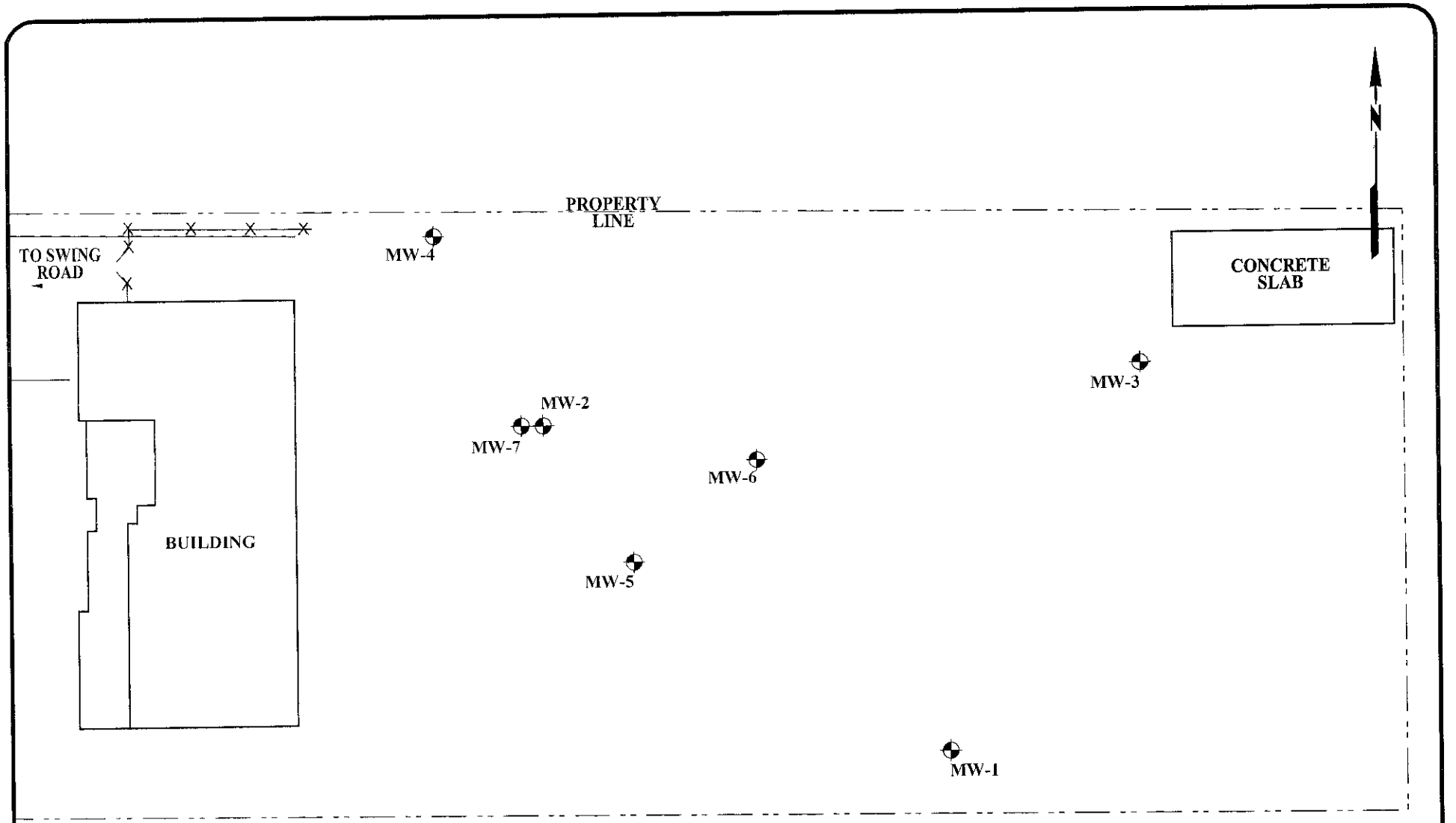
Site Location
305 Swing Road
Greensboro, North Carolina

1951 (Photorevised 1994) USGS Topographic Map
Guilford Quadrangle, NC

DRAWING NUMBER: 152-00-009-1

TRIGON

Trigon Engineering Consultants, Inc.
Greensboro, North Carolina

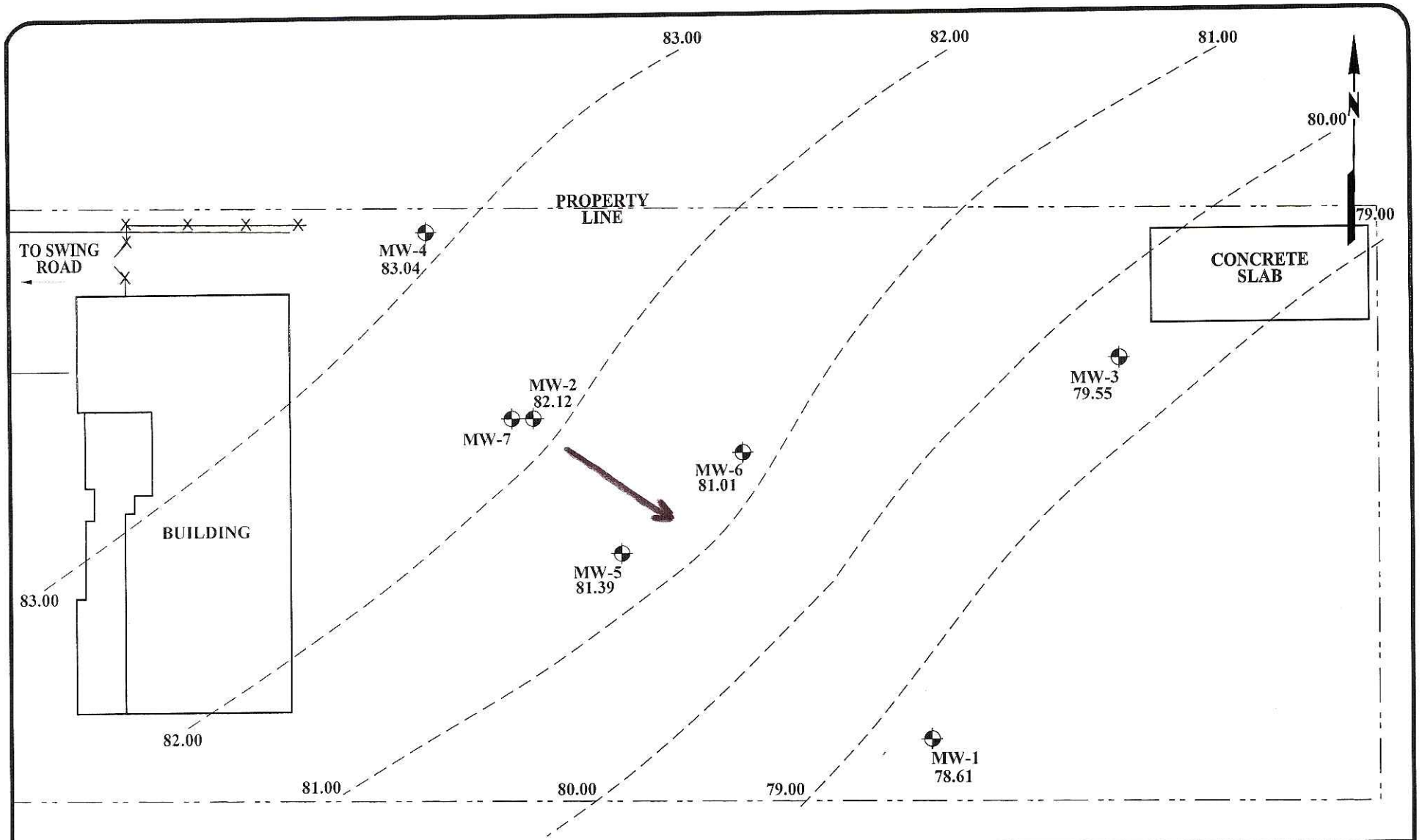


TRIGON
ENGINEERING CONSULTANTS, INC.

MONITORING WELL LOCATION MAP

305 SWING ROAD
GREENSBORO, NORTH CAROLINA

Date 2/13/2000	Scale 1" = 60'
Drawn by DRK	Drawing No. 152-00-009-2



LEGEND

GROUNDWATER FLOW DIRECTION

WATER LEVEL DATA COLLECTED 10/15/97

TRIGON

ENGINEERING CONSULTANTS, INC.

POTENTIOMETRIC SURFACE MAP

305 SWING ROAD
GREENSBORO, NORTH CAROLINA

Date 2/13/2000	Scale 1" = 60'
Drawn by DRK	Drawing No. 152-00-009-3

APPENDIX A

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-6**
Prism Sample ID: **AB57928**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 16:00
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
METALS DIGESTION/3030C	Completed			3030C	2/10/00 16:00	GRR
LEAD, TOTAL IN GROUNDWATER	Less than	mg/L	0.015	6010	2/14/00 17:09	MSP
BROMODICHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
BROMOFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
BROMOMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
CARBON TETRACHLORIDE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
CHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
CHLOROETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
CHLOROFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
CHLOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
DIBROMOCHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
1,2-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
1,3-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
1,4-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
DICHLORODIFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
1,1-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
1,2-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
1,1-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
1,2-DICHLOROPROPANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
CIS-1,3-DICHLOROPROPENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
EDB	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
METHYLENE CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
TETRACHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
1,1,1-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
1,1,2-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
TRICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
TRICHLOROFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

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Lab Report

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-6**
Prism Sample ID: **AB57928**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 16:00
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
BENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
ETHYLBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
IPE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
MTBE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:58	DR2
TOLUENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2
TOTAL XYLENES	Not detected	ug/L	3	EPA 601/602	2/17/00 14:58	DR2
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:58	DR2

C5-C8 Aliphatics	Not detected	ug/L	150	MADEP VPH	2/16/00 19:25	MP
C9-C12 Aliphatics	Not detected	ug/L	100	MADEP VPH	2/16/00 19:25	MP
C9-C10 Aromatics	Not detected	ug/L	50	MADEP VPH	2/16/00 19:25	MP
Surrogate % Recovery - PID	100	%	(70-130)	MADEP VPH	2/16/00 19:25	MP
Surrogate % Recovery - FID	115	%	(70-130)	MADEP VPH	2/16/00 19:25	MP
Dilution Factor	1	ug/L		MADEP VPH	2/16/00 19:25	MP

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-5**
Prism Sample ID: **AB57929**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 16:18
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
METALS DIGESTION/3030C	Completed			3030C	2/10/00 16:00	GRR
LEAD, TOTAL IN GROUNDWATER	Less than	mg/L	0.015	6010	2/14/00 17:04	MSP
BROMODICHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
BROMOFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
BROMOMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
CARBON TETRACHLORIDE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
CHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
CHLOROETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
CHLOROFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
CHLOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
DIBROMOCHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
1,2-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
1,3-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
1,4-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
DICHLORODIFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
1,1-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
1,2-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
1,1-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
1,2-DICHLOROPROPANE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
CIS-1,3-DICHLOROPROPENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
EDB	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
METHYLENE CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
TETRACHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
1,1,1-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
1,1,2-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
TRICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
TRICHLOROFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2

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Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-5**
Prism Sample ID: **AB57929**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 16:18
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
BENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
ETHYLBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
IPE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
MTBE	Not detected	ug/L	5	EPA 601/602	2/17/00 12:12	DR2
TOLUENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2
TOTAL XYLENES	Not detected	ug/L	3	EPA 601/602	2/17/00 12:12	DR2
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 12:12	DR2

C5-C8 Aliphatics	Not detected	ug/L	150	MADEP VPH	2/16/00 20:19	MP
C9-C12 Aliphatics	Not detected	ug/L	100	MADEP VPH	2/16/00 20:19	MP
C9-C10 Aromatics	Not detected	ug/L	50	MADEP VPH	2/16/00 20:19	MP
Surrogate % Recovery - PID	93	%	(70-130)	MADEP VPH	2/16/00 20:19	MP
Surrogate % Recovery - FID	107	%	(70-130)	MADEP VPH	2/16/00 20:19	MP
Dilution Factor	1	ug/L		MADEP VPH	2/16/00 20:19	MP

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

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Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-1**
Prism Sample ID: **AB57930**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 16:33
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
METALS DIGESTION/3030C	Completed			3030C	2/10/00 16:00	GRR
LEAD, TOTAL IN GROUNDWATER	Less than	mg/L	0.015	6010	2/14/00 16:33	MSP
BROMODICHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
BROMOFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
BROMOMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
CARBON TETRACHLORIDE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
CHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
CHLOROETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
CHLOROFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
CHLOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
DIBROMOCHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
1,2-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
1,3-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
1,4-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
DICHLORODIFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
1,1-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
1,2-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
1,1-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
1,2-DICHLOROPROPANE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
CIS-1,3-DICHLOROPROPENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
EDB	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
METHYLENE CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
TETRACHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
1,1,1-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
1,1,2-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
TRICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
TRICHLOROFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2

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Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-1**
Prism Sample ID: **AB57930**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 16:33
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
BENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
ETHYLBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
IPE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
MTBE	Not detected	ug/L	5	EPA 601/602	2/17/00 13:06	DR2
TOLUENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2
TOTAL XYLENES	Not detected	ug/L	3	EPA 601/602	2/17/00 13:06	DR2
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 13:06	DR2

C5-C8 Aliphatics	Not detected	ug/L	150	MADEP VPH	2/16/00 21:12	MP
C9-C12 Aliphatics	Not detected	ug/L	100	MADEP VPH	2/16/00 21:12	MP
C9-C10 Aromatics	Not detected	ug/L	50	MADEP VPH	2/16/00 21:12	MP
Surrogate % Recovery - PID	96	%	(70-130)	MADEP VPH	2/16/00 21:12	MP
Surrogate % Recovery - FID	109	%	(70-130)	MADEP VPH	2/16/00 21:12	MP
Dilution Factor	1	ug/L		MADEP VPH	2/16/00 21:12	MP

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

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Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-3**
Prism Sample ID: **AB57931**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 16:45
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
METALS DIGESTION/3030C	Completed			3030C	2/10/00 16:00	GRR
LEAD, TOTAL IN GROUNDWATER	Less than	mg/L	0.015	6010	2/14/00 16:54	MSP
BROMODICHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
BROMOFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
BROMOMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
CARBON TETRACHLORIDE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
CHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
CHLOROETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
CHLOROFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
CHLOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
DIBROMOCHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
1,2-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
1,3-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
1,4-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
DICHLORODIFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
1,1-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
1,2-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
1,1-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
1,2-DICHLOROPROPANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
CIS-1,3-DICHLOROPROPENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
EDB	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
METHYLENE CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
TETRACHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
1,1,1-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
1,1,2-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
TRICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
TRICHLOROFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2

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Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-3**
Prism Sample ID: **AB57931**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 16:45
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
BENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
ETHYLBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
IPE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
MTBE	Not detected	ug/L	5	EPA 601/602	2/17/00 14:01	DR2
TOLUENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2
TOTAL XYLENES	Not detected	ug/L	3	EPA 601/602	2/17/00 14:01	DR2
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 14:01	DR2

C5-C8 Aliphatics	Not detected	ug/L	150	MADEP VPH	2/16/00 22:05	MP
C9-C12 Aliphatics	Not detected	ug/L	100	MADEP VPH	2/16/00 22:05	MP
C9-C10 Aromatics	Not detected	ug/L	50	MADEP VPH	2/16/00 22:05	MP
Surrogate % Recovery - PID	89	%	(70-130)	MADEP VPH	2/16/00 22:05	MP
Surrogate % Recovery - FID	95	%	(70-130)	MADEP VPH	2/16/00 22:05	MP
Dilution Factor	1	ug/L		MADEP VPH	2/16/00 22:05	MP

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

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Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-7**
Prism Sample ID: **AB57932**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 17:00
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
METALS DIGESTION/3030C	Completed			3030C	2/10/00 16:00	GRR
LEAD, TOTAL IN GROUNDWATER	Less than	mg/L	0.015	6010	2/14/00 17:14	MSP
BROMODICHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
BROMOFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
BROMOMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
CARBON TETRACHLORIDE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
CHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
CHLOROETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
CHLOROFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
CHLOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
DIBROMOCHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
1,2-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
1,3-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
1,4-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
DICHLORODIFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
1,1-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
1,2-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
1,1-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
1,2-DICHLOROPROPANE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
CIS-1,3-DICHLOROPROPENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
EDB	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
METHYLENE CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
TETRACHLOROETHENE	22	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
1,1,1-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
1,1,2-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
TRICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
TRICHLOROFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2

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Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-7**
Prism Sample ID: **AB57932**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 17:00
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
BENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
ETHYLBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
IPE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
MTBE	Not detected	ug/L	5	EPA 601/602	2/17/00 17:43	DR2
TOLUENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2
TOTAL XYLENES	Not detected	ug/L	3	EPA 601/602	2/17/00 17:43	DR2
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 17:43	DR2

C5-C8 Aliphatics	Not detected	ug/L	150	MADEP VPH	2/16/00 22:59	MP
C9-C12 Aliphatics	Not detected	ug/L	100	MADEP VPH	2/16/00 22:59	MP
C9-C10 Aromatics	Not detected	ug/L	50	MADEP VPH	2/16/00 22:59	MP
Surrogate % Recovery - PID	73	%	(70-130)	MADEP VPH	2/16/00 22:59	MP
Surrogate % Recovery - FID	85	%	(70-130)	MADEP VPH	2/16/00 22:59	MP
Dilution Factor	1	ug/L		MADEP VPH	2/16/00 22:59	MP

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

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Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-2**
Prism Sample ID: **AB57933**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 17:10
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
METALS DIGESTION/3030C	Completed			3030C	2/10/00 16:00	GRR
LEAD, TOTAL IN GROUNDWATER	Less than	mg/L	0.015	6010	2/14/00 16:50	MSP
BROMODICHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
BROMOFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
BROMOMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
CARBON TETRACHLORIDE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
CHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
CHLOROETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
CHLOROFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
CHLOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
DIBROMOCHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
1,2-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
1,3-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
1,4-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
DICHLORODIFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
1,1-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
1,2-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
1,1-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
1,2-DICHLOROPROPANE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
CIS-1,3-DICHLOROPROPENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
EDB	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
METHYLENE CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
TETRACHLOROETHENE	14	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
1,1,1-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
1,1,2-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
TRICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
TRICHLOROFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-2**
Prism Sample ID: **AB57933**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 17:10
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
BENZENE	7.2	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
ETHYLBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
IPE	Not detected	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
MTBE	510	ug/L	5	EPA 601/602	2/17/00 16:48	DR2
TOLUENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2
TOTAL XYLENES	Not detected	ug/L	3	EPA 601/602	2/17/00 16:48	DR2
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 16:48	DR2

C5-C8 Aliphatics	Not detected	ug/L	150	MADEP VPH	2/16/00 23:53	MP
C9-C12 Aliphatics	Not detected	ug/L	100	MADEP VPH	2/16/00 23:53	MP
C9-C10 Aromatics	Not detected	ug/L	50	MADEP VPH	2/16/00 23:53	MP
Surrogate % Recovery - PID	85	%	(70-130)	MADEP VPH	2/16/00 23:53	MP
Surrogate % Recovery - FID	79	%	(70-130)	MADEP VPH	2/16/00 23:53	MP
Dilution Factor	1	ug/L		MADEP VPH	2/16/00 23:53	MP

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-4**
Prism Sample ID: **AB57934**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 17:23
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
METALS DIGESTION/3030C	Completed			3030C	2/10/00 16:00	GRR
LEAD, TOTAL IN GROUNDWATER	Less than	mg/L	0.015	6010	2/14/00 16:59	MSP
BROMODICHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
BROMOFORM	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
BROMOMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
CARBON TETRACHLORIDE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
CHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
CHLOROETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
CHLOROFORM	1.6	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
CHLOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
DIBROMOCHLOROMETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
1,2-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
1,3-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
1,4-DICHLOROBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
DICHLORODIFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
1,1-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
1,2-DICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
1,1-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
1,2-DICHLOROPROPANE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
CIS-1,3-DICHLOROPROPENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
EDB	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
METHYLENE CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
TETRACHLOROETHENE	42	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
1,1,1-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
1,1,2-TRICHLOROETHANE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
TRICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
TRICHLOROFLUOROMETHANE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2

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Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **MW-4**
Prism Sample ID: **AB57934**
Login Group: AO218F8
Sample Collection Date/Time: 2/8/00 17:23
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL CHLORIDE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
BENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
ETHYLBENZENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
IPE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
MTBE	Not detected	ug/L	5	EPA 601/602	2/17/00 15:53	DR2
TOLUENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2
TOTAL XYLENES	Not detected	ug/L	3	EPA 601/602	2/17/00 15:53	DR2
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	1	EPA 601/602	2/17/00 15:53	DR2

C5-C8 Aliphatics	Not detected	ug/L	150	MADEP VPH	2/17/00 00:47	MP
C9-C12 Aliphatics	Not detected	ug/L	100	MADEP VPH	2/17/00 00:47	MP
C9-C10 Aromatics	Not detected	ug/L	50	MADEP VPH	2/17/00 00:47	MP
Surrogate % Recovery - PID	73	%	(70-130)	MADEP VPH	2/17/00 00:47	MP
Surrogate % Recovery - FID	71	%	(70-130)	MADEP VPH	2/17/00 00:47	MP
Dilution Factor	1	ug/L		MADEP VPH	2/17/00 00:47	MP

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

2/18/00

Mr. Stuart Wiswall
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Customer Project ID: **305 Swing Road**
Customer Sample ID: **TRIP BLANK**
Prism Sample ID: **AB58080**
Login Group: AO218F8
Sample Collection Date/Time: 2/9/00
Lab Submittal Date/Time: 2/9/00 17:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory

TEST PARAMETER	TEST RESULT	UNITS	MDL	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
C5-C8 Aliphatics	Not detected	ug/L	150	MADEP VPH	2/17/00 01:41	MP
C9-C12 Aliphatics	Not detected	ug/L	100	MADEP VPH	2/17/00 01:41	MP
C9-C10 Aromatics	Not detected	ug/L	50	MADEP VPH	2/17/00 01:41	MP
Surrogate % Recovery - PID	94	%	(70-130)	MADEP VPH	2/17/00 01:41	MP
Surrogate % Recovery - FID	105	%	(70-130)	MADEP VPH	2/17/00 01:41	MP
Dilution Factor	1	ug/L		MADEP VPH	2/17/00 01:41	MP

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

CHAIN OF CUSTODY RECORD

PAGE ____ OF ____ QUOTE # LMC 1/25/00 Trigon-G

449 Springbrook Road ▲ Charlotte, NC 28217
P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Fax: 704/525-0409

PRESS DOWN FIRMLY - 3 COPIES

LAB USE ONLY	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 3	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

Client: Trigon Engineering
Physical Address: 313 Gallimore Dairy Rd P.O. Box 18846 Greensboro NC 27409
Phone: 336 668 0093 Fax: 336 668 3868
P.O.#/Billing Reference: 152-00-009
Project Name: 305 Swing Road

REPORT TO: Name: Stuart Wiswall
Address: Trigon - Greensboro
BILL TO: Name: Same
Address:
Requested Due Date: 2/18/00

(SEE REVERSE SIDE FOR RUSH TURNAROUND FEES)

State Certification Requested NC ✓ SC ____ Other ____ NA ____
Water Chlorinated Yes ____ No ____ NA ____
Sample Iced Upon Collection Yes ____ No ____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED ~~601~~ 602+	MTBE IPE	EDB	MADEP VPH		PB 3030C	REMARKS	SUB LAB CERT. ID NO.	PRISM LAB ID NO.
MW-6	2/8/00	1600	W		7		HCl HNO3	X	X	X	X		X			57928
MW-5	2/8/00	1618	W		7		"	X	X	X	X		X			57929
MW-1	2/8/00	1633	W		7		"	X	X	X	X		X			57930
MW-3	2/8/00	1645	W		7		"	X	X	X	X		X			57931
MW-7	2/8/00	1700	W		7		"	X	X	X	X		X			57932
MW-2	2/8/00	1710	W		7		"	X	X	X	X		X	hot		57933
MW-4	2/8/00	1723	W		7		"	X	X	X	X		X			57934

Sampler's Signature: J Stuart Wiswall Sampled By (Print Name): J Stuart Wiswall Affiliation: Trigon Engineering Consultants

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
J Stuart Wiswall	C.V.O. Matthews	2/9/00	1515
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature) C.V.O. Matthews	Received For Prism Laboratories By: Kathryn Wing	Date 2/9/00	1730
Method of Shipment		Log-In Group No. 672917	

Additional Comments: MW-2 is hot

NPDES NC ____ SC ____ OTHER ____ UST: NC ____ SC ____ OTHER ____ GROUNDWATER: NC ____ SC ____ OTHER ____ DRINKING WATER: NC ____ SC ____ OTHER ____ SOLID WASTE: NC ____ SC ____ OTHER ____ OTHER: NC ____ SC ____ OTHER ____

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

FINAL REPORT COPY

APPENDIX F

Monitoring Well Installation and Sampling
305 Swing Road
Greensboro, North Carolina
Trigon Project No. 042-05-153

TRIGON
ENGINEERING CONSULTANTS, INC.
Since 1983
www.trigoneng.com
P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Road • Greensboro, NC 27409 • p 336.668.0093 • f 336.668.3868

October 10, 2005

Mr. Richard Levy
H.B.D., Inc.
P.O. Box 20307
Greensboro, North Carolina 27420

Reference: **Monitoring Well Installation and Sampling**
305 Swing Road
Greensboro, North Carolina
Trigon Project No. 042-05-153

Dear Mr. Levy:

Please find attached the report regarding the installation and sampling of a groundwater monitoring well at the referenced site. The chemical analysis of the water sample collected during field activities identified contamination above the state action levels. The laboratory report and chain of custody are attached in the following report along with our conclusions and recommendations.

Trigon appreciates the opportunity to be of service to you. Should you have questions or require additional information regarding this project, please do not hesitate to contact the undersigned.

Sincerely,

TRIGON ENGINEERING CONSULTANTS, INC.

J. Andrew Nunnery
Environmental Scientist

John M. Stewart, P.G.
Senior Registered Geologist

JAN/JMS:mes

h:\0420\projects\2005\153\r4205153.doc

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1.1 SITE HISTORY 1
1.2 PURPOSE 1
2.0 SITE GEOLOGY AND HYDROGEOLOGY 1
3.0 SITE INVESTIGATION 2
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3.2 GROUNDWATER SAMPLING 2
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5.0 CONCLUSIONS 3

TABLES

1 Groundwater Sample Analytical Summary

FIGURES

1 Site Location
2 Site Map

APPENDICES

A Monitoring Well Permit
B Monitoring Well Construction Record
C Groundwater Sampling Field Data Sheet
D Laboratory Report

1.0 GENERAL INFORMATION

1.1 SITE HISTORY

The subject site is located at 305 Swing Road in Greensboro, North Carolina (Figure 1). In October 1995, Trigon was involved in the closure of a 10,000-gallon gasoline underground storage tank (UST) and subsequent environmental investigations at the site. A groundwater assessment included the installation of seven groundwater monitoring wells and periodic sampling.

In 2005 the NCDENR UST Section issued a No Further Action letter for the petroleum incident at the site and a Notice of Residual Petroleum was recorded for petroleum constituents related to the former UST. During the investigation of the UST, tetrachloroethylene (Perc) was detected in three of the monitoring wells (MW-2, MW-4, and MW-7) (Figure 2). The groundwater assessment determined that the groundwater was flowing southeast across the site.

1.2 PURPOSE

After the UST incident was resolved, the existing monitoring wells at the site were abandoned. In order to close this incident, the North Carolina Department of Environment and Natural Resources (NCDENR) Aquifer Protection Section (formerly the Groundwater Section) required the identification of the source (Perc) area and delineation of the horizontal and vertical extent of the soil and groundwater contamination or additional information indicating the source area of the Perc is off-site. It is therefore the purpose of this report to present the results of the installation and sampling of a well installed near the upgradient property boundary.

2.0 SITE GEOLOGY AND HYDROGEOLOGY

According to the 1985 Geologic Map of North Carolina, the site is located in the Carolina Slate Belt of the Piedmont Physiographic Province. The surficial geology consists of residual soils that have formed from the physical and chemical weathering of the underlying bedrock. The regional bedrock generally consists of metamorphosed gabbro, diorite, and granitic rock. The 1951 (Revised 1994) USGS Guilford

Quadrangle Topographic Map indicates the site has an average elevation of 850 feet above mean sea level.

Residual soil consisted of moist light brown to tan coarse to fine sandy silt to the terminal depth of the boring.

3.0 SITE INVESTIGATION

3.1 MONITORING WELL INSTALLATION

On September 15, 2005, Trigon personnel mobilized to the site to install deep monitoring well DW-1 adjacent to the northern property boundary in the vicinity of the former location of groundwater monitoring well MW-4 (Figure 2). Prior to installing the well, a permit was obtained from the Guilford County Department of Public Health. A copy of the permit is included in Appendix A.

The boring was drilled using 4-inch inside diameter hollow-stem augers. The borehole was advanced to a total depth of 38.5 feet below ground surface. Monitoring well DW-1 was constructed with a 5 foot section of 2-inch diameter PVC screen installed at the bedrock surface and 33.5 feet of riser. A washed sand pack was placed in the borehole annulus from the total depth of the boring to 2 feet above the top of the screen. Bentonite pellets were placed above the sand and hydrated. The remaining well annulus was filled with portland cement. The wellhead was secured with an expandable cap and padlock and a flush mount well cover. Copies of the boring log and monitoring well construction record are included in Appendix B.

3.2 GROUNDWATER SAMPLING

Prior to retrieving a groundwater sample, the monitoring well was developed using a disposable polyethylene bailer and new nylon rope. Well development consisted of calculating the volume of water in the well casing and removing a minimum of five to ten well volumes. A static water level of 17.98 feet below ground surface was measured from the top of the well casing in the monitoring well. Following development, a groundwater sample was collected using the bailer. A groundwater sampling

field data sheet is included in Appendix C. The sample was placed in laboratory-prepared containers, labeled, and maintained on ice until delivered to Research and Analytical Laboratories, Inc. in Kernersville, North Carolina. A chain-of-custody document was utilized throughout the collection and transportation process and is included in the laboratory report in Appendix D. The sample was analyzed for chlorinated hydrocarbons by EPA method 6230D.

4.0 GROUNDWATER SAMPLE RESULTS

Tetrachloroethene (PCE) was detected in the groundwater sample collected from DW-1 at a concentration of 5.6 micrograms per liter (µg/l), exceeding the state groundwater standard of 0.7 µg/l. 1,1-Dichloroethane was detected at a concentration above the laboratory reporting limit but below the state groundwater standard. The laboratory report and associated chain-of-custody document are included in Appendix D.

5.0 CONCLUSIONS

Based on historical information and information presented in this report it is reasonable to conclude that the source of PCE contamination in the groundwater at monitoring well DW-1 is off-site. Trigon therefore, recommends that the North Carolina Department of Environment and Natural Resources issue a No Further Action letter to H.B.D, Inc. since they are not the responsible party. A copy of this report should be submitted to Ms. Sharon Cihak of the Guilford County Department of Environmental Health at 1203 Maple Street in Greensboro, North Carolina 27405.

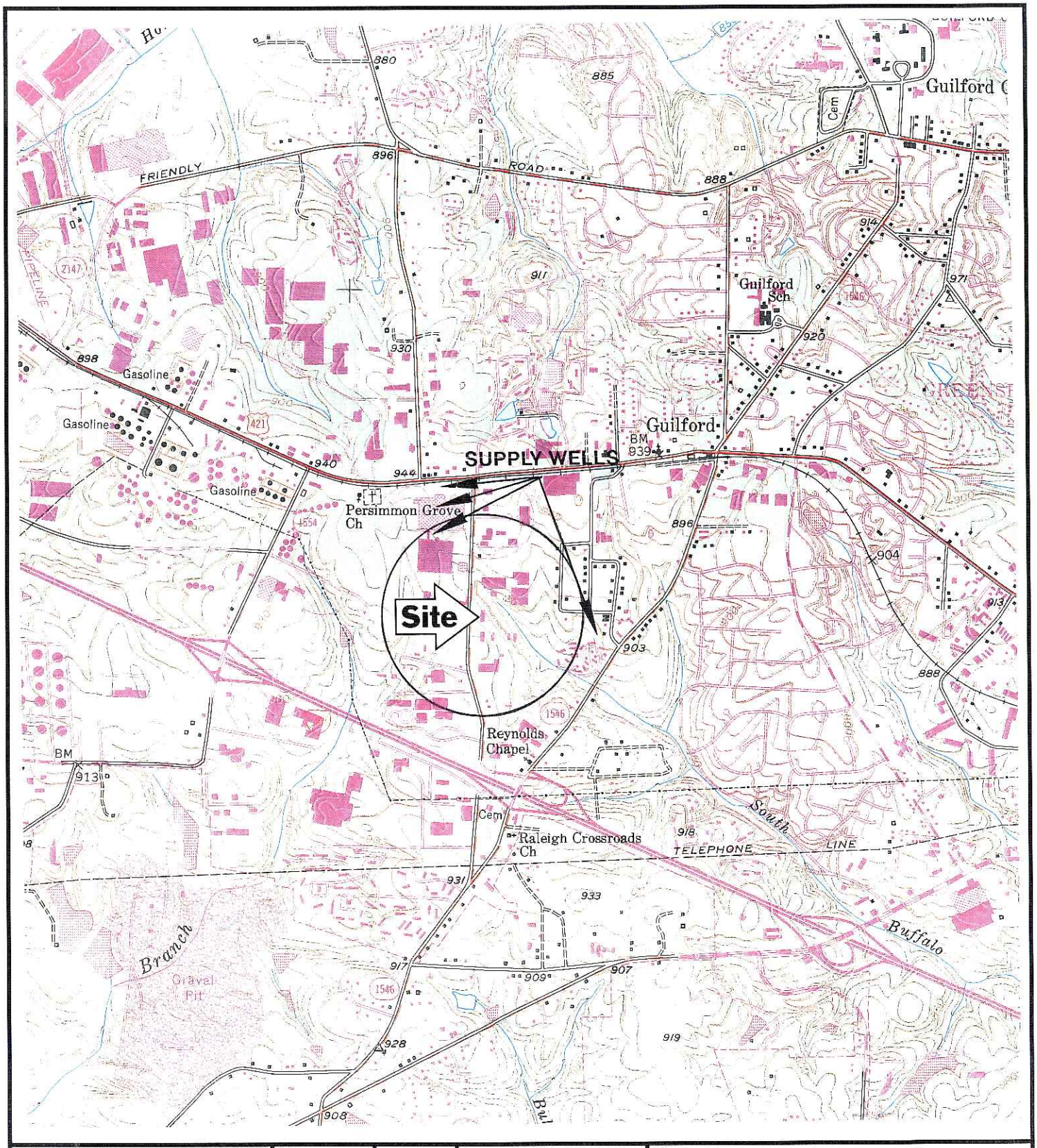
TABLES

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL SUMMARY

Parameter	Analytical Results	Comparison Criteria
Sample Identification	DW-1	2L
Collection Date	9/15/2005	
Volatile Organic Compounds by EPA Method 6230D (µg/L)		
1,1-Dichloroethane	3.7	700
Tetrachloroethene	**5.6**	0.7

Notes:
Results shown in micrograms per liter (analogous to parts per billion)
2L = Subchapter 2L Quality Standards for Class GA groundwater

FIGURES



SCALE:	DATE:	APPROVED BY:	SOURCE: 1951 (Photorevised 1994) USGS
1" = 2,000'	08/22/05	CWH	Topographic Map Guilford Quadrangle, NC

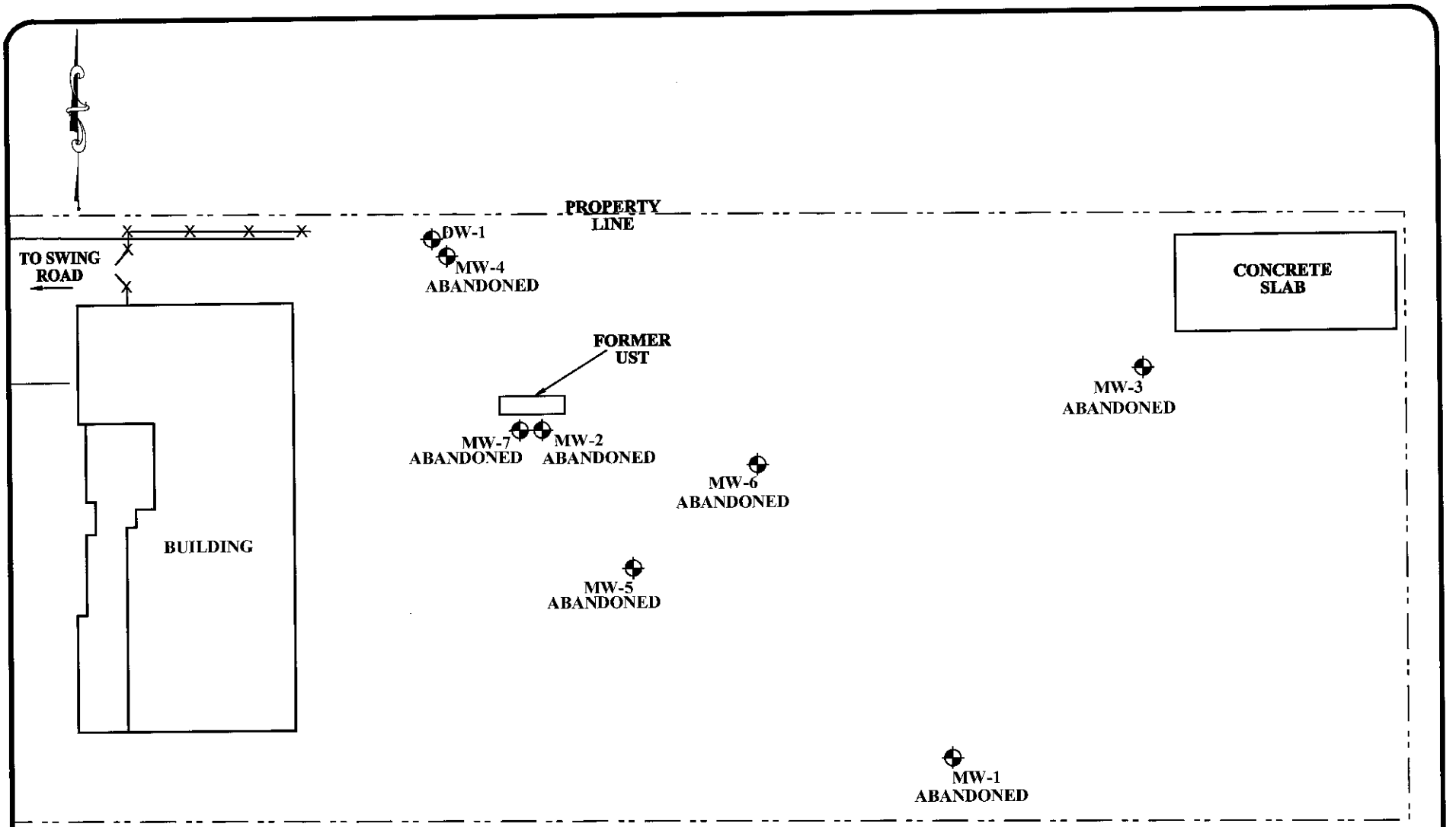
TRIGON

Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409

305 Swing Road
Greensboro, North Carolina
Trigon Project No. 042-05-153

Site Location

FIGURE 1



LEGEND

MW-5 MONITORING WELL LOCATION

TRIGON ENGINEERING CONSULTANTS, INC.

MONITORING WELL LOCATION MAP

305 SWING ROAD
GREENSBORO, NORTH CAROLINA

Date 8/8/2003	Scale 1" = 60'
Drawn by DRK	Figure 2

APPENDIX A

Guilford County
Department of Public Health
1203 Maple Street
Greensboro, NC 27405

September 16, 2005

RICHARD LEVY
PO BOX 20307
GREENSBORO, NC 27420

SUBJECT: MONITOR WELL CONSTRUCTION
PERMIT #: 049-05-MW1-RW0
GUILFORD COUNTY
INCIDENT NUMBER: # 87208
SITE NAME: FORMER COMMUNITY HEATING AND PLUMBING

In accordance with your application received on 09/08/2005, we are forwarding herewith Groundwater Remediation Permit # 049-05-MW1-RW0 for the construction of one (1) monitor well.

Henceforth, correspondence and data relating to this well shall be designated as specified in the subject heading.

This Permit will be effective from the date of its issuance and must be renewed annually. Any additional wells installed at the site in excess of the number permitted above requires that a *new application be submitted* so that the permit may be amended to reflect the correct number of wells on the site. This Permit shall be subject to the conditions and limitations specified therein.

Sincerely,

Janet Fonville

Janet Fonville
Environmental Health

cc: Permit File

GUILFORD COUNTY BOARD OF HEALTH

DIVISION OF ENVIRONMENTAL HEALTH

GROUNDWATER REMEDIATION PERMIT

In accordance with the provisions of the Guilford County Well Rules,

PERMISSION IS HEREBY GRANTED TO

Former Community Heating & Plumbing

FOR THE CONSTRUCTION OF one (1) monitor well located at 305 Swing Road, Greensboro, North Carolina, in Guilford County. Permission is granted in accordance with the application dated September 08, 2005, and in conformity with the specifications and supporting data, of which are filed with the Guilford County Health Department, Division of Environmental Health, which are considered a part of this Permit.

This Permit is for well construction only, and does not waive any provisions or requirements or any other applicable laws or regulations.

Construction of wells under this Permit shall be in compliance with the Guilford County, Well Rules and any other laws and regulations pertaining to well construction.

This Permit will be effective from the date of its issuance until the site assessment and/or remediation has been completed, and shall be subject to other specified conditions, limitations or exceptions as follows:

1. Written permission must be obtained from the property owner prior to construction of the well(s).

2. A permanent identification plate with the date of construction, depth of well, screen interval, depth of grout, drilling contractor, and his registration number shall be attached to each well head or the outer protective steel casing.

3. The well construction completion form(s) and all water quality data are to be submitted to the Guilford County Division of Environmental Health, 1203 Maple Street, Greensboro, North Carolina, 27405 to the attention of Janet Fonville.

4. All laboratory analyses of groundwater samples collected from the permitted well(s) are to be submitted to the Guilford County Division of Environmental Health, 1203 Maple Street, Greensboro, North Carolina, 27405 to the attention of Janet Fonville.

5. All additional investigative findings in relation to the pollution sources being monitored, as indicated under Item #9 of the permit application, are to be submitted to the Guilford County Division of Environmental Health, 1203 Maple Street, Greensboro, North Carolina, 27405. Please submit all findings to the attention of Janet Fonville within sixty (60) days of well completion, and quarterly thereafter.

6. The well(s) shall be afforded a means of protection against vandalism, damage, or unauthorized use.

7. When any well is no longer useful for its intended purpose, it shall be abandoned in compliance with the Guilford County Well Rules A well abandonment form should be sent to the Guilford County Division of Environmental Health, 1203 Maple Street, Greensboro, North Carolina, 27405 to the attention of Janet Fonville.

8. The well(s) shall be constructed in accordance with the Guilford County Board of Health's recommended construction details.

9. If additional wells, not included on the original application, need to be constructed, a new application must be submitted, so that the Permit may be amended.

Permit issued September 16, 2005
FOR THE GUILFORD COUNTY BOARD OF HEALTH

Janet Fonville

Janet Fonville
Environmental Health

By Authority of the Guilford County Board of Health
Permit # 049-05-MW1-RW0

DATE	NAME	ADDRESS	CLASS CODE	LINE ITEM	AMOUNT	REC'D BY	RECEIPT #
9/16/05	Trigon Engineering	Cons. Monitor Well Per.	375	3221	$ 600.	JJ	24157

24157

CK# 75213

GUILFORD COUNTY DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
1203 MAPLE STREET
GREENSBORO, NC 27405
336-641-3771

SERVICES

✓ Monitoring Well Permit
_____ Citation
_____ Swimming Pool Permit
_____ Plan Review
_____ Tattoo Permit
_____ Other
_____ ServSafe

APPENDIX B

WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources - Division of Water Quality

WELL CONTRACTOR (INDIVIDUAL) NAME (print) William Barnett **CERTIFICATION #** 3604

WELL CONTRACTOR COMPANY NAME Trigon Engineering Consultants, Inc. **PHONE #** (336) 668-0093

STATE WELL CONSTRUCTION PERMIT# 049-05-MW1-RWO (if applicable) **ASSOCIATED WQ PERMIT#** (if applicable)

1. WELL USE (Check Applicable Box): Residential ☐ Municipal/Public ☐ Industrial ☐ Agricultural ☐ Monitoring ☒ Recovery ☐ Heat Pump Water Injection ☐ Other ☐ If Other, List Use

2. WELL LOCATION:
Nearest Town: Greensboro County Guilford
305 Swing Road
(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
☐Ridge ☐Slope ☒Valley ☐Flat
(check appropriate box)
Latitude/longitude of well location
E 59°81.81 N 39°92.262
(degrees/minutes/seconds)
Latitude/longitude source: ☐GPS ☐Topographic map
(check box)

3. OWNER: H.B.O., Inc.
Address P.O. Box 20307
(Street or Route No.)
Greensboro NC 27420
City or Town State Zip Code
(336)- 275 -4800
Area code- Phone number

4. DATE DRILLED Sept. 15, 2005
5. TOTAL DEPTH: 38.5 feet
6. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒
7. STATIC WATER LEVEL Below Top of Casing: 17.98 FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 0.0 FT. Above Land Surface*
***Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.**
9. YIELD (gpm): N/A METHOD OF TEST N/A
10. WATER ZONES (depth):

DEPTH From	DEPTH To	DRILLING LOG Formation Description
0.0	0.3	Gravel
0.3	7.0	Orange Fine to medium Sandy SILT - Fill
7.0	13.0	Light Brown Slightly clayey Fine Sandy Silt - Residual
13.0	38.5	Tan coarse to fine Sandy SILT - Residual

11. DISINFECTION: Type N/A Amount N/A
12. CASING:

	Depth From	To	Diameter	Wall Thickness or Weight/Ft.	Material
	0	28.5 Ft.	2"	~~0.144~~ Sch 40	PVC
		Ft.			
		Ft.			

13. GROUT:

	Depth From	To	Material	Method
	0	27.5 Ft.	Portland	Tremmie
		Ft.		

14. SCREEN:

	Depth From	To	Diameter	Slot Size	Material
	28.5	38.5 Ft.	2" in.	0.100 in.	PVC
		Ft.	in.	in.	

15. SAND/GRAVEL PACK:

	Depth From	To	Size	Material
	27.5	38.5 Ft.	#2	Filter Sand
		Ft.		

LOCATION SKETCH
Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

See Figure 1.

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

William Barnett 9/15/05
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Attn: Information Management, 1617 Mail Service Center - Raleigh, NC 27699-1617, Phone No. (919) 733-7015, within 30 days.

GW-1 REV. 09/2004

APPENDIX C

TRIGON ENGINEERING CONSULTANTS, INC.

Client: H.B.D., Inc.

Project Number: 042-05-153

GROUNDWATER SAMPLING FIELD DATA

Location: Greensboro, North Carolina

Source/Well: DW-1

Locked: Yes ☒ No ☐

PVC ☒ Steel ☐ Stainless Steel ☐

Measuring point description: Top of Casing

Purge Date: 09/15/2005

Purge Time: 12:00 to 12:50

Sample Date: 09/15/2005

Sample Time: 12:52

Sampled By: WAB

Water Level and Well Data

1)	Depth to free product from measuring point	-- ft.
2)	Depth to water from measuring point	17.98 ft.
3)	Thickness of free product	-- ft.
4)	Depth to well bottom from measuring point	38.50 ft.
5)	Height of water column (h)	20.52 ft.

Well Purging and Sample Collection

1)	Purge Method	Disposable Bailer
2)	Sample Method	Disposable Bailer
3)	Volume of water in well	
	☐ 1" well . . . . (v = 0.041 x h) ☒ 2" well . . . . (v = 0.163 x h) ☐ 4" well . . . . (v = 0.651 x h) ☐ 6" well . . . . (v = 1.5 x h)	3.35 gal.
4)	Volume of water removed prior to sampling	30 gal.
5)	Was well purged DRY?	YES ☐ NO ☒

Field Analysis

1)	Temperature	°C
2)	Specific Conductance	µmhos/cm
3)	pH	
4)	Physical Appearance and Odor	
5)	Other	

APPENDIX D

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Water Samples Identified as 305 Swing Road
(A Trigon Engineering Consultants, Inc. Project #042-05-153, collected 15 September 2005)

I. Volatile Organics EPA Method 6230 D Parameter	Quantitation Limit (mg/L)	DW-1 (mg/L)
1,1-Dichloroethane	0.001	0.0037
2,2-Dichloropropane	0.001	BQL
Chloroform	0.001	BQL
1,1,1-Trichloroethane	0.001	BQL
1,1-Dichloropropene	0.001	BQL
Carbon Tetrachloride	0.001	BQL
Benzene	0.001	BQL
1,2-Dichloroethane	0.001	BQL
Trichloroethene	0.001	BQL
1,2-Dichloropropane	0.001	BQL
Dibromomethane	0.001	BQL
Toluene	0.001	BQL
1,1,2-Trichloroethane	0.001	BQL
1,3-Dichloropropane	0.001	BQL
Tetrachloroethene	0.001	0.0056
1,1,1,2-Tetrachloroethane	0.001	BQL
1,1,2,2-Tetrachloroethane	0.001	BQL
1,2,3-Trichloropropane	0.001	BQL
Hexachlorobutadiene	0.001	BQL
Bromobenzene	0.001	BQL
Ethylbenzene	0.001	BQL
Styrene	0.001	BQL
Bromoform	0.001	BQL
p-Isopropyltoluene	0.001	BQL
N-Butylbenzene	0.001	BQL
Naphthalene	0.001	BQL
1,3,5-Trimethylbenzene	0.001	BQL
1,2,4-Trimethylbenzene	0.001	BQL
1,2,4-Trichlorobenzene	0.001	BQL
1,2,3-Trichlorobenzene	0.001	BQL
Chlorobenzene	0.001	BQL
2-Chlorotoluene	0.001	BQL
4-Chlorotoluene	0.001	BQL
Tert-Butylbenzene	0.001	BQL
Sec-Butylbenzene	0.001	BQL
1,4-Dichlorobenzene	0.001	BQL
1,2-Dichlorobenzene	0.001	BQL
I-Propylbenzene	0.001	BQL
N-Propylbenzene	0.001	BQL
1,3-Dichlorobenzene	0.001	BQL
Dibromochloromethane	0.001	BQL
Dichlorodifluoromethane	0.001	BQL
Chloromethane	0.001	BQL
Vinyl Chloride	0.001	BQL
Bromomethane	0.001	BQL
Chloroethane	0.001	BQL
Trichlorofluoromethane	0.001	BQL
1,1-Dichloroethene	0.001	BQL
Methylene Chloride	0.001	BQL
Trans-1,2-Dichloroethene	0.001	BQL
Cis-1,2-Dichloroethene	0.001	BQL
Bromodichloromethane	0.001	BQL
Bromochloromethane	0.001	BQL
Cis-1,3-Dichloropropene	0.001	BQL
Trans-1,3-Dichloropropene	0.001	BQL
Total Xylenes	0.001	BQL
MTBE	0.005	BQL
IPE	0.005	BQL
Dilution Factor		1
Sample Number		543253
Sample Date		09/15/05
Sample Time (hrs)		1252

BQL = Below Quantitation Limits

mg/L = milligrams per Liter = parts per million (ppm)

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Trigon	JOB NO.: 042-05-153
STREET ADDRESS: 313 Gallimore Dairy Rd	PROJECT: 305 Spring Rd
CITY, STATE, ZIP: Greensboro, NC	SAMPLER NAME (PLEASE PRINT): William Barnett
CONTACT: William Barnett PHONE: 668-0073	SAMPLER SIGNATURE: William Barnett

WATER / WASTEWATER | MISC.

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P, G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P, G (COD, N, P) H_2SO_4	1L P, G (Metals, Hardness) HNO_3	1L P, G (CYANIDE) NaOH	Sterile P, G (Coliform)				REQUESTED ANALYSIS
543253	9/15	1052		X				W	DW-1	4														6230D
254									TB															

RELINQUISHED BY	DATE/TIME	RECEIVED BY	REMARKS:
William Barnett	9/15 3:15	1519 AF 9-15-05	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	

on ice

SAMPLE TEMPERATURE AT RECEIPT 3.0 °C

APPENDIX G

GEL | Geophysics LLC

November 22, 2006

Mr. John Stewart
Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409

Re: Results of Geophysical Investigation
NCDOT Project 35007.1.1 (U-4006)
Greensboro, North Carolina

Dear Mr. Stewart,

GEL Geophysics, LLC appreciates the opportunity to provide Trigon Engineering Consultants, Inc. (Trigon) with this report of our geophysical investigation for the referenced project. The purpose of the investigation was to support Trigon's planned Preliminary Site Assessment activities. The investigation was designed to determine if underground storage tanks (USTs) exist on the identified property. The geophysical field investigation was successfully performed on November 6-7, 2006.

No USTs were identified in the geophysical data. One subsurface anomaly was identified in the rear corner of the property (Figure 1). No indications of the source of this anomaly were identified in the geophysical data. A buried reinforced concrete pad was mapped in the geophysical data. This structure was found in the rear of the property and is indicated in Figure 1. Several areas of the Barbara A. Levy property were blocked by construction materials and therefore were excluded from the geophysical investigation. Although geophysical methods provide a high level of assurance for the location of subsurface objects, the possibility exists that not all features can or will be identified. Descriptions of the technologies employed during this geophysical investigation are provided below.

Therefore, due caution should be used when performing any subsurface excavation, and GEL Geophysics, LLC will not be liable for any damages that may occur.

Overview of Geophysical Investigation

The geophysical evaluation included the deployment of ground penetrating radar technology and time domain electromagnetic technology to the site. These technologies were used in concert with one another in order to identify the presence of USTs at the site. A brief description of each technology is presented in the following paragraphs.

Ground Penetrating Radar Methodology

A RAMAC digital radar control system configured with a 250 Megahertz (MHz) antenna array was used in this investigation. Ground Penetrating Radar (GPR) is an electromagnetic geophysical method that detects interfaces between subsurface materials with differing dielectric constants. The GPR system consists of an antenna which houses the transmitter and receiver, a

a Member of The GEL Group, Inc.
P.O. Box 14262 • Research Triangle Park, North Carolina 27709
Phone (919) 544-1100 • Fax (919) 544-4755 • www.gel.com

digital control unit which both generates and digitally records the GPR data, and a color video monitor to view data as it is collected in the field.

The transmitter radiates repetitive short-duration electromagnetic waves (at radar frequencies) into the earth from an antenna moving across the ground surface. These radar waves are reflected back to the receiver from the interface of materials with different dielectric constants. The intensity of the reflected signal is a function of the contrast in the dielectric constant between the materials, the conductivity of the material through which the wave is traveling, and the frequency of the signal.

Subsurface features that commonly cause such reflections are: 1) natural geologic conditions, such as changes in sediment composition, bedding, and cementation horizons and voids; or 2) unnatural changes to the subsurface such as disturbed soils, soil backfill, buried debris, tanks, pipelines, and utilities. The digital control unit processes the signal from the receiver and produces a continuous cross-section of the subsurface interface reflection events.

GPR data profiles were collected along transects, which are measured paths along which the GPR antenna is moved. During a survey, marks are placed in the data by the operator at designated points along the GPR transects or with a survey wheel odometer. These marks allow for a correlation between the GPR data and the position of the GPR antenna on the ground. Depth of investigation of the GPR signal is highly site-specific and is limited by signal attenuation (absorption) in the subsurface materials. Signal attenuation is dependent upon the electrical conductivity of the subsurface materials. Signal attenuation is greatest in materials with relatively high electrical conductivities such as clays, brackish groundwater, or groundwater with a high dissolved solid content from natural or manmade sources. Signal attenuation is lowest in relatively low-conductivity materials such as dry sand or rock. Depth of investigation is also dependent on the antenna's transmitting frequency. Depth of investigation generally increases as transmitting frequency decreases; however, the ability to resolve smaller subsurface features is diminished as frequency is decreased.

The GPR antenna used at this site is internally shielded from aboveground interference sources. Accordingly, the GPR response is not affected by overhead power lines, metallic buildings, or nearby objects.

Time Domain Electromagnetic Methodology

The Time Domain Electromagnetic (TDEM) methods measure the electrical conductivity of subsurface materials. The conductivity is determined by inducing (from a transmitter) a time or frequency-varying magnetic field and measuring (with a receiver) the amplitude and phase shift of an induced secondary magnetic field. The secondary magnetic field is created by subsurface conductive materials behaving as an inductor as the primary magnetic field is passed through them.

The Geonics EM-61 system used in this investigation operates within these principles. However, the EM-61 TDEM system can discriminate between moderately conductive earth

materials and very conductive metallic targets. The EM-61 consists of a portable coincident loop time domain transmitter and receiver with a 1.0-meter x 0.5-meter coil system. The EM-61 generates 150 pulses per second and measures the response from the ground after transmission or between pulses. The secondary EM responses from metallic targets are of longer duration than those created by conductive earth materials. By recording the later time EM arrivals, only the response from metallic targets is measured, rather than the field generated by the earth material.

Summary of Property

Barbara A. Levy Property
Located at 305 South Swing Road (SR 1609)

Completed EM-61 electromagnetic and ground penetrating radar investigation to identify subsurface anomalies on the entire property. An EM and GPR anomaly aligned, but no indications of its source were obtained. The geophysical data also indicated the presence of a buried concrete pad. Due to equipment staging, several areas of this site were inaccessible with geophysical equipment.

Closing

GEL Geophysics appreciates the opportunity to assist Trigon Engineering Consultant, Inc. with this project. If you have any questions or need further information regarding the project, please do not hesitate to call me at (843) 697-2065.

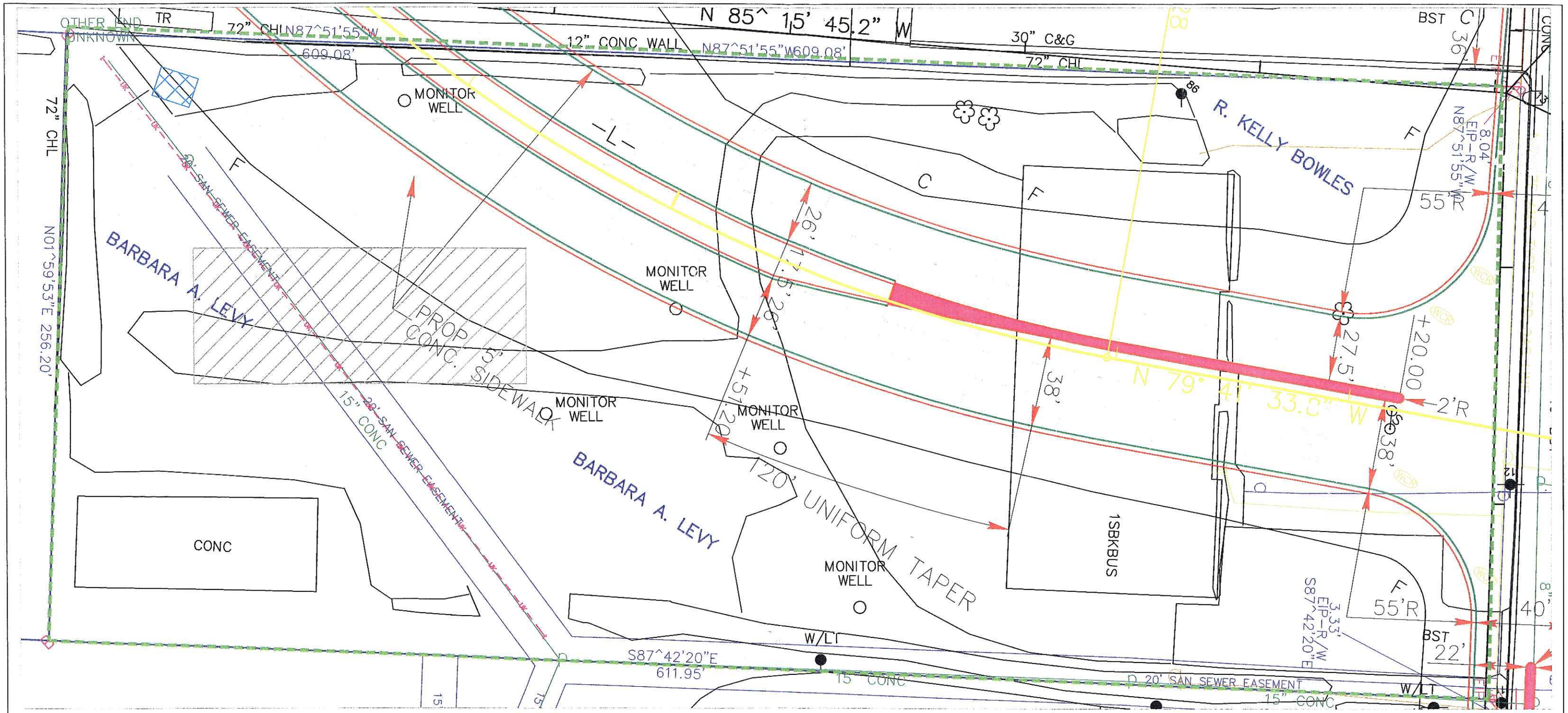
Yours very truly,

Kate McKinley
Project Geophysicist

enclosures

fc: teci00506c.rpt.doc

GEL Geophysics LLC
a Member of The GEL Group, Inc.
P.O. Box 14262 • Research Triangle Park, North Carolina 27709
Phone (919) 544-1100 • Fax (919) 544-4755 • www.gel.com



NOTES:

1. HORIZONTAL ACCURACY +/- 24 INCHES
2. ALTHOUGH GEOPHYSICAL METHODS PROVIDE A HIGH LEVEL OF ASSURANCE FOR THE LOCATION OF SUBSURFACE OBJECTS, THE POSSIBILITY EXISTS THAT NOT ALL FEATURES CAN BE IDENTIFIED.
3. DUE CAUTION SHOULD BE USED WHEN PERFORMING SUBSURFACE EXCAVATIONS WHERE POTENTIAL CONFLICTS EXISTS, AND GEL GEOPHYSICS, LLC IS NOT LIABLE FOR ANY DAMAGES WHICH MAY OCCUR.
4. SUBSURFACE OBJECTS SIMILAR TO UNDERGROUND STORAGE TANKS MAY BE INTERPRETED AS UNDERGROUND STORAGE TANKS.

GRAPHIC SCALE

0 20 40 80

(IN FEET)
1 INCH = 40 ft.

LEGEND

- GEOPHYSICAL ANOMALY
- SUBSURFACE CONCRETE
- UNKNOWN UTILITY
- LIMITS OF INVESTIGATION

GEL Geophysics, LLC
a Member of THE GEL GROUP, Inc.

GEL

Post Office Box 14262
Research Triangle Park, NC 27709
(909) 554-1100

PROJECT: TECI00506C		
GEOPHYSICAL INVESTIGATION NCDOT PROJECT 35007.1.1 (U-4006) BARBARA A. LEVY PROPERTY 305 SOUTH SWING RD GREENSBOROUGH, NORTH CAROLINA	SITE SKETCH RESULTS OF GEOPHYSICAL INVESTIGATION	FIGURE 1
DATE: November 9, 2006	DRAWN BY: JRT APPRV. BY: KSM	

APPENDIX H

LOG OF BORING SS-1

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/8/06 Ended 11/8/06
Logged By G. Licayan

Elevation --
Total Depth 12.0
Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
				CL		RESIDUAL: Moist, Tan and Grey, Fine to Coarse Sandy CLAY	
5	SS 1-4		0.0				5
			0.0	ML		Moist, Tan and Red, Fine to Medium Sandy SILT	
10							10
			0.0			Probe Refusal At 12.0ft. In RESIDUAL SOIL	
15							15
20							20
25							25
30							30

Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409
Telephone: 336-668-0093
Fax: 336-668-3868

Remarks

See key sheet for symbols and abbreviations used above.

LOG A EWNN05 0/506007.GPJ LOG A EWNN05.GDT 11/20/06

LOG OF BORING SS-2

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/8/06 Ended 11/8/06
Logged By G. Licayan

Elevation --
Total Depth 11.0
Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
				ML		RESIDUAL: Moist, Brown And Grey, Fine To Coarse Sandy SILT	
5	SS 2-4		0.0				5
			0.0	ML		Moist, Tan And Red, Fine To Medium Sandy SILT	
10			0.0			Probe Refusal At 11.0ft. in RESIDUAL SOIL	10
15							15
20							20
25							25
30							30

Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409
Telephone: 336-668-0093
Fax: 336-668-3868

Remarks

See key sheet for symbols and abbreviations used above.

LOG A EWNN05 0750600/.GPJ LOG A EWNN05.GDT 11/20/06

LOG OF BORING SS-3

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/8/06 Ended 11/8/06
Logged By G. Licayan

Elevation --
Total Depth 11.0
Depth To Water ATD 8.0

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
				ML		RESIDUAL: Moist, Brown And Grey, Fine To Coarse Sandy SILT	
5	SS 3-4		0.0	ML		Moist, Black, Tan, And Red Coarse To Fine Sandy SILT With Gravel	5
			0.0	ML		Wet, Tan And Red, Medium To Fine Sandy SILT	
10			0.0			Probe Refusal At 11.0ft. In RESIDUAL SOIL	10
15							15
20							20
25							25
30							30

Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409
Telephone: 336-668-0093
Fax: 336-668-3868

Remarks

See key sheet for symbols and abbreviations used above.

LOG OF BORING SS-4

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/8/06 Ended 11/8/06
Logged By G. Licayan

Elevation --
Total Depth 12.0
Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
				ML		RESIDUAL: Moist, Grey And Red, Medium To Fine Sandy SILT	
5	SS 4-4		0.0				5
			0.0	SM		Moist, Tan And Red, Silty Medium To Fine SAND	
10							10
			0.0			Probe Refusal At 12.0ft. In RESIDUAL SOIL	
15							15
20							20
25							25
30							30

Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409
Telephone: 336-668-0093
Fax: 336-668-3868

Remarks

See key sheet for symbols and abbreviations used above.

LOG A EWNN05 07506007.GPJ LOG A EWNN05.GDT 11/20/06

LOG OF BORING SS-5

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/9/06 Ended 11/9/06
Logged By G. Licayan

Elevation --
Total Depth 16.0
Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
	SS 5-1		67.0	SP		FILL: Dry, Grey, Gravelly Fine To Coarse SAND	
						RESIDUAL: Moist, Tan And Red, Fine To Medium Sandy SILT	
5	SS 5-4		10.2				5
			0.0	ML			
10							10
			0.0				
15			0.0				15
						Boring Terminated At 16.0ft In RESIDUAL SOIL	
20							20
25							25
30							30

Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409
Telephone: 336-668-0093
Fax: 336-668-3868

Remarks

See key sheet for symbols and abbreviations used above.

LOG A EWNN05 07506007.GPJ LOG A EWNN05.GDT 11/20/06

LOG OF BORING SS-6

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/9/06 Ended 11/9/06
Logged By G. Licayan

Elevation --
Total Depth 16.0
Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
				SP		FILL: Dry, Grey, Gravelly Fine To Coarse SAND	
						FILL: Moist, Brown And Red, Coarse To Fine Sandy SILT	
5	SS 6-4		0.0	ML			5
			0.0				
10						FILL: Moist, Grey And Brown, Fine Sandy SILT	10
			0.0	ML			
15			0.0				15
						Boring Terminated At 16.0ft. In FILL	
20							20
25							25
30							30

Trigon Engineering Consultants, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409
Telephone: 336-668-0093
Fax: 336-668-3868

Remarks

See key sheet for symbols and abbreviations used above.

LOG OF BORING SS-7

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/9/06 Ended 11/9/06
Logged By G. Licayan

Elevation --
Total Depth 16.0
Depth To Water ATD 14.0

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
				SP		FILL: Dry, Grey, Gravelly Fine To Coarse SAND	
						FILL: Moist Brown And Red, Coarse To Fine Sandy SILT	
5	SS 7-4		0.0	ML			5
			0.0				
10						FILL: Moist, Grey and Brown, Fine Sandy SILT	10
			0.0	ML			
15				ML		RESIDUAL: Wet, Grey and Red, Medium To Fine Sandy SILT	15
			0.0			Boring Terminated At 16.0ft. In FILL	
20							20
25							25
30							30

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Remarks

See key sheet for symbols and abbreviations used above.

LOG A EWNN05 07506007.GPJ LOG A EWNN05.GDT 11/20/06

LOG OF BORING SS-8

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/9/06 Ended 11/9/06
Logged By G. Licayan

Elevation --
Total Depth 12.0
Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
						FILL: Moist, Red To Grey And Brown, Fine Sandy SILT With Root Fragments	
5	SS 8-4		0.0	ML			5
			0.0				
10				ML		RESIDUAL: Moist, Tan And Red, Medium To Fine Sandy SILT	10
			0.0			Boring Terminated At 12.0ft. In RESIDUAL SOIL	
15							15
20							20
25							25
30							30

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Remarks

See key sheet for symbols and abbreviations used above.

LOG OF BORING SS-9

SHEET 1 OF 1

Client North Carolina Department of Transportation
Project Name Project # 35007.1.1/TIP # U-4006
Number 075-06-007
Location Barbara A. Levy

Drill Contractor Trigon Engineering Consultants, Inc.
Drill Method 2 Inch Direct Push
Drilling Started 11/9/06 Ended 11/9/06
Logged By G. Licayan

Elevation --
Total Depth 12.0
Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	OVA ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
						FILL: Moist, Red To Grey And Brown, Fine Sandy SILT With Root Fragments	
5	SS 9-4		0.0	ML			5
			0.0				
10				ML		RESIDUAL: Moist, Tan And Grey, Fine Sandy SILT	10
			0.0			Boring Terminated At 12.0ft. In RESIDUAL SOIL	
15							15
20							20
25							25
30							30

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Remarks

See key sheet for symbols and abbreviations used above.

LOG A EWNN05 07506007.GPJ LOG A EWNN05.GDT 11/20/06

APPENDIX I

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November 27, 2006

Mr. John Stewart
Trigon Engineering Consultants
313 Gallimore Dairy Rd.
Greensboro, NC 27409

RE: Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Dear Mr. Stewart:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Bonnie McKee for

Kevin Herring
kevin.herring@pacelabs.com
Project Manager

Enclosures

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SAMPLE SUMMARY

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
92131947-001	927669044	SS-1-4	Soil	11/08/06 12:40	11/10/06 17:20
92131947-002	927669051	SS-2-4	Soil	11/08/06 14:12	11/10/06 17:20
92131947-003	927669069	SS-3-4	Soil	11/08/06 14:54	11/10/06 17:20
92131947-004	927669077	SS-4-4	Soil	11/08/06 15:41	11/10/06 17:20
92131947-005	927669085	SS-5-1	Soil	11/09/06 13:41	11/10/06 17:20
92131947-006	927669093	SS-5-4	Soil	11/09/06 13:46	11/10/06 17:20
92131947-007	927669119	SS-6-4	Soil	11/09/06 14:23	11/10/06 17:20
92131947-008	927669127	SS-7-4	Soil	11/09/06 15:04	11/10/06 17:20
92131947-009	927669135	SS-8-4	Soil	11/09/06 15:40	11/10/06 17:20
92131947-010	927669143	SS-9-4	Soil	11/09/06 16:06	11/10/06 17:20
92131947-011	927669168	DW-1	Water	11/09/06 14:37	11/10/06 17:20

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SAMPLE ANALYTE COUNT

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
92131947-001	927669044	SS-1-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-002	927669051	SS-2-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-003	927669069	SS-3-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-004	927669077	SS-4-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-005	927669085	SS-5-1	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-006	927669093	SS-5-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-007	927669119	SS-6-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-008	927669127	SS-7-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-009	927669135	SS-8-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71
92131947-010	927669143	SS-9-4	%MOISTURE	Percent Moisture	1
			8015D SL92	TPH in Soil by 3545/8015	3
			8015N SL92	GAS, Soil, North Carolina	2
			8260E SL92	GC/MS VOCs 5035/8260 low level	71

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
92131947-011	927669168	DW-1	8260X WL92	GC/MS VOCs by 8260, low level	67
			8270 WL92	Semivolatile Organics	76

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Solid results are reported on a dry weight basis

Lab Sample No: 927669044 | Project Sample Number: 92131947-001 | Date Collected: 11/08/06 12:40
Client Sample ID: SS-1-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	19.7	%			11/13/06 09:41	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	6.2	6.2	11/14/06 08:18	MGB	68334-30-5		
n-Pentacosane (S)	79	%			11/14/06 08:18	MGB	629-99-2		
Date Extracted	11/12/06				11/12/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	4.5	3.0	11/13/06 21:17	DHW			
4-Bromofluorobenzene (S)	77	%			11/13/06 21:17	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	29.	J ug/kg	94.	1.4	11/19/06 02:13	DLK	67-64-1		
Benzene	ND	ug/kg	4.7	0.81	11/19/06 02:13	DLK	71-43-2		
Bromobenzene	ND	ug/kg	4.7	0.55	11/19/06 02:13	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	4.7	0.57	11/19/06 02:13	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	4.7	0.45	11/19/06 02:13	DLK	75-27-4		
Bromoform	ND	ug/kg	4.7	0.46	11/19/06 02:13	DLK	75-25-2		
Bromomethane	ND	ug/kg	9.4	3.8	11/19/06 02:13	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	94.	0.86	11/19/06 02:13	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	4.7	1.3	11/19/06 02:13	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	4.7	0.83	11/19/06 02:13	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	4.7	0.72	11/19/06 02:13	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	4.7	0.93	11/19/06 02:13	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	4.7	0.58	11/19/06 02:13	DLK	108-90-7		
Chloroethane	ND	ug/kg	9.4	0.79	11/19/06 02:13	DLK	75-00-3		
Chloroform	ND	ug/kg	4.7	0.80	11/19/06 02:13	DLK	67-66-3		
Chloromethane	ND	ug/kg	9.4	0.66	11/19/06 02:13	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	4.7	0.71	11/19/06 02:13	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	4.7	0.93	11/19/06 02:13	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	0.78	11/19/06 02:13	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	4.7	0.44	11/19/06 02:13	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	0.41	11/19/06 02:13	DLK	106-93-4		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669044 | Project Sample Number: 92131947-001 | Date Collected: 11/08/06 12:40
Client Sample ID: SS-1-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Dibromomethane	ND		ug/kg	4.7	0.75	11/19/06 02:13	DLK	74-95-3		
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.80	11/19/06 02:13	DLK	95-50-1		
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.61	11/19/06 02:13	DLK	541-73-1		
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.91	11/19/06 02:13	DLK	106-46-7		
Dichlorodifluoromethane	ND		ug/kg	9.4	1.1	11/19/06 02:13	DLK	75-71-8		
1,1-Dichloroethane	ND		ug/kg	4.7	0.76	11/19/06 02:13	DLK	75-34-3		
1,2-Dichloroethane	ND		ug/kg	4.7	0.41	11/19/06 02:13	DLK	107-06-2		
1,1-Dichloroethene	ND		ug/kg	4.7	0.96	11/19/06 02:13	DLK	75-35-4		
cis-1,2-Dichloroethene	ND		ug/kg	4.7	0.72	11/19/06 02:13	DLK	156-59-2		
trans-1,2-Dichloroethene	ND		ug/kg	4.7	0.94	11/19/06 02:13	DLK	156-60-5		
1,2-Dichloropropane	ND		ug/kg	4.7	0.55	11/19/06 02:13	DLK	78-87-5		
1,3-Dichloropropane	ND		ug/kg	4.7	0.59	11/19/06 02:13	DLK	142-28-9		
2,2-Dichloropropane	ND		ug/kg	4.7	0.98	11/19/06 02:13	DLK	594-20-7		
1,1-Dichloropropene	ND		ug/kg	4.7	0.74	11/19/06 02:13	DLK	563-58-6		
cis-1,3-Dichloropropene	ND		ug/kg	4.7	0.46	11/19/06 02:13	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND		ug/kg	4.7	0.45	11/19/06 02:13	DLK	10061-02-6		
Diisopropyl ether	ND		ug/kg	4.7	0.61	11/19/06 02:13	DLK	108-20-3		
Ethylbenzene	ND		ug/kg	4.7	0.65	11/19/06 02:13	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND		ug/kg	4.7	1.2	11/19/06 02:13	DLK	87-68-3		
2-Hexanone	ND		ug/kg	47.	0.70	11/19/06 02:13	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND		ug/kg	4.7	0.62	11/19/06 02:13	DLK	98-82-8		
p-Isopropyltoluene	ND		ug/kg	4.7	0.99	11/19/06 02:13	DLK	99-87-6		
Methylene chloride	1.2	J	ug/kg	4.7	0.64	11/19/06 02:13	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND		ug/kg	47.	0.73	11/19/06 02:13	DLK	108-10-1		
Methyl-tert-butyl ether	ND		ug/kg	4.7	0.43	11/19/06 02:13	DLK	1634-04-4		
Naphthalene	ND		ug/kg	4.7	0.56	11/19/06 02:13	DLK	91-20-3		
n-Propylbenzene	ND		ug/kg	4.7	1.0	11/19/06 02:13	DLK	103-65-1		
Styrene	ND		ug/kg	4.7	0.47	11/19/06 02:13	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND		ug/kg	4.7	0.44	11/19/06 02:13	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND		ug/kg	4.7	0.29	11/19/06 02:13	DLK	79-34-5		
Tetrachloroethene	ND		ug/kg	4.7	1.0	11/19/06 02:13	DLK	127-18-4		
Toluene	ND		ug/kg	4.7	0.64	11/19/06 02:13	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	1.2	11/19/06 02:13	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	1.6	11/19/06 02:13	DLK	120-82-1		
1,1,1-Trichloroethane	ND		ug/kg	4.7	0.74	11/19/06 02:13	DLK	71-55-6		
1,1,2-Trichloroethane	ND		ug/kg	4.7	0.24	11/19/06 02:13	DLK	79-00-5		
Trichloroethene	ND		ug/kg	4.7	0.84	11/19/06 02:13	DLK	79-01-6		
Trichlorofluoromethane	ND		ug/kg	4.7	1.1	11/19/06 02:13	DLK	75-69-4		
1,2,3-Trichloropropane	ND		ug/kg	4.7	0.74	11/19/06 02:13	DLK	96-18-4		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669044 | Project Sample Number: 92131947-001 | Date Collected: 11/08/06 12:40
Client Sample ID: SS-1-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	0.82	11/19/06 02:13	DLK	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	0.58	11/19/06 02:13	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	47.	1.5	11/19/06 02:13	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	9.4	0.72	11/19/06 02:13	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	9.4		11/19/06 02:13	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	9.4	1.1	11/19/06 02:13	DLK			
o-Xylene	ND	ug/kg	4.7	0.52	11/19/06 02:13	DLK	95-47-6		
Toluene-d8 (S)	95	%			11/19/06 02:13	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97	%			11/19/06 02:13	DLK	460-00-4		
Dibromofluoromethane (S)	96	%			11/19/06 02:13	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%			11/19/06 02:13	DLK	17060-07-0		

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SC 99006
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Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669051 | Project Sample Number: 92131947-002 | Date Collected: 11/08/06 14:12
Client Sample ID: SS-2-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	18.8	%			11/13/06 09:41	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	6.2	6.2	11/14/06 09:42	MGB	68334-30-5		
n-Pentacosane (S)	90	%			11/14/06 09:42	MGB	629-99-2		
Date Extracted	11/12/06				11/12/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	4.6	3.1	11/13/06 21:46	DHW			
4-Bromofluorobenzene (S)	74	%			11/13/06 21:46	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	44.	J ug/kg	96.	1.4	11/19/06 02:31	DLK	67-64-1		
Benzene	ND	ug/kg	4.8	0.84	11/19/06 02:31	DLK	71-43-2		
Bromobenzene	ND	ug/kg	4.8	0.57	11/19/06 02:31	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	4.8	0.59	11/19/06 02:31	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	4.8	0.46	11/19/06 02:31	DLK	75-27-4		
Bromoform	ND	ug/kg	4.8	0.47	11/19/06 02:31	DLK	75-25-2		
Bromomethane	ND	ug/kg	9.6	4.0	11/19/06 02:31	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	96.	0.89	11/19/06 02:31	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	4.8	1.4	11/19/06 02:31	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	4.8	0.86	11/19/06 02:31	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	4.8	0.74	11/19/06 02:31	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	4.8	0.95	11/19/06 02:31	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	4.8	0.60	11/19/06 02:31	DLK	108-90-7		
Chloroethane	ND	ug/kg	9.6	0.81	11/19/06 02:31	DLK	75-00-3		
Chloroform	ND	ug/kg	4.8	0.82	11/19/06 02:31	DLK	67-66-3		
Chloromethane	ND	ug/kg	9.6	0.67	11/19/06 02:31	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	4.8	0.73	11/19/06 02:31	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	4.8	0.95	11/19/06 02:31	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	0.80	11/19/06 02:31	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	4.8	0.45	11/19/06 02:31	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	0.42	11/19/06 02:31	DLK	106-93-4		
Dibromomethane	ND	ug/kg	4.8	0.77	11/19/06 02:31	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669051 | Project Sample Number: 92131947-002 | Date Collected: 11/08/06 14:12
Client Sample ID: SS-2-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	4.8	0.82	11/19/06 02:31	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	4.8	0.63	11/19/06 02:31	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	4.8	0.93	11/19/06 02:31	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	9.6	1.1	11/19/06 02:31	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	4.8	0.78	11/19/06 02:31	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	4.8	0.42	11/19/06 02:31	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	4.8	0.98	11/19/06 02:31	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	4.8	0.74	11/19/06 02:31	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	4.8	0.96	11/19/06 02:31	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	4.8	0.57	11/19/06 02:31	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	4.8	0.61	11/19/06 02:31	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	4.8	1.0	11/19/06 02:31	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	4.8	0.76	11/19/06 02:31	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	4.8	0.47	11/19/06 02:31	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	4.8	0.46	11/19/06 02:31	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	4.8	0.63	11/19/06 02:31	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	4.8	0.67	11/19/06 02:31	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1.2	11/19/06 02:31	DLK	87-68-3		
2-Hexanone	ND	ug/kg	48.	0.72	11/19/06 02:31	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	0.64	11/19/06 02:31	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	4.8	1.0	11/19/06 02:31	DLK	99-87-6		
Methylene chloride	1.2	J ug/kg	4.8	0.66	11/19/06 02:31	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.	0.75	11/19/06 02:31	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	4.8	0.44	11/19/06 02:31	DLK	1634-04-4		
Naphthalene	ND	ug/kg	4.8	0.58	11/19/06 02:31	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	4.8	1.1	11/19/06 02:31	DLK	103-65-1		
Styrene	ND	ug/kg	4.8	0.48	11/19/06 02:31	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	0.45	11/19/06 02:31	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	0.30	11/19/06 02:31	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	4.8	1.0	11/19/06 02:31	DLK	127-18-4		
Toluene	ND	ug/kg	4.8	0.66	11/19/06 02:31	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1.2	11/19/06 02:31	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1.6	11/19/06 02:31	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	4.8	0.76	11/19/06 02:31	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	4.8	0.25	11/19/06 02:31	DLK	79-00-5		
Trichloroethene	ND	ug/kg	4.8	0.87	11/19/06 02:31	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	4.8	1.2	11/19/06 02:31	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	4.8	0.76	11/19/06 02:31	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	0.85	11/19/06 02:31	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669051 | Project Sample Number: 92131947-002 | Date Collected: 11/08/06 14:12
Client Sample ID: SS-2-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	0.60	11/19/06 02:31	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	48.	1.5	11/19/06 02:31	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	9.6	0.74	11/19/06 02:31	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	9.6		11/19/06 02:31	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	9.6	1.2	11/19/06 02:31	DLK			
o-Xylene	ND	ug/kg	4.8	0.54	11/19/06 02:31	DLK	95-47-6		
Toluene-d8 (S)	103	%			11/19/06 02:31	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%			11/19/06 02:31	DLK	460-00-4		
Dibromofluoromethane (S)	89	%			11/19/06 02:31	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%			11/19/06 02:31	DLK	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669069 | Project Sample Number: 92131947-003 | Date Collected: 11/08/06 14:54
Client Sample ID: SS-3-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	26.0	%			11/13/06 09:41	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	6.8	6.8	11/14/06 10:29	MGB	68334-30-5		
n-Pentacosane (S)	104	%			11/14/06 10:29	MGB	629-99-2		
Date Extracted	11/12/06				11/12/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.3	3.6	11/13/06 22:15	DHW			
4-Bromofluorobenzene (S)	74	%			11/13/06 22:15	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	320	J ug/kg	5500	82.	11/20/06 16:25	DLK	67-64-1		
Benzene	ND	ug/kg	280	48.	11/20/06 16:25	DLK	71-43-2		
Bromobenzene	ND	ug/kg	280	33.	11/20/06 16:25	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	280	34.	11/20/06 16:25	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	280	27.	11/20/06 16:25	DLK	75-27-4		
Bromoform	ND	ug/kg	280	27.	11/20/06 16:25	DLK	75-25-2		
Bromomethane	ND	ug/kg	550	230	11/20/06 16:25	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	5500	51.	11/20/06 16:25	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	280	78.	11/20/06 16:25	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	280	49.	11/20/06 16:25	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	280	43.	11/20/06 16:25	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	280	55.	11/20/06 16:25	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	280	34.	11/20/06 16:25	DLK	108-90-7		
Chloroethane	ND	ug/kg	550	46.	11/20/06 16:25	DLK	75-00-3		
Chloroform	ND	ug/kg	280	47.	11/20/06 16:25	DLK	67-66-3		
Chloromethane	ND	ug/kg	550	39.	11/20/06 16:25	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	280	42.	11/20/06 16:25	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	280	55.	11/20/06 16:25	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	280	46.	11/20/06 16:25	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	280	26.	11/20/06 16:25	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	280	24.	11/20/06 16:25	DLK	106-93-4		
Dibromomethane	ND	ug/kg	280	44.	11/20/06 16:25	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669069
Client Sample ID: SS-3-4

Project Sample Number: 92131947-003
Matrix: Soil

Date Collected: 11/08/06 14:54
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	280	47.	11/20/06 16:25	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	280	36.	11/20/06 16:25	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	280	54.	11/20/06 16:25	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	550	63.	11/20/06 16:25	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	280	45.	11/20/06 16:25	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	280	24.	11/20/06 16:25	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	280	56.	11/20/06 16:25	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	280	43.	11/20/06 16:25	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	280	55.	11/20/06 16:25	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	280	33.	11/20/06 16:25	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	280	35.	11/20/06 16:25	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	280	58.	11/20/06 16:25	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	280	44.	11/20/06 16:25	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	280	27.	11/20/06 16:25	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	280	27.	11/20/06 16:25	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	280	36.	11/20/06 16:25	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	280	38.	11/20/06 16:25	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	280	70.	11/20/06 16:25	DLK	87-68-3		
2-Hexanone	ND	ug/kg	2800	41.	11/20/06 16:25	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	280	36.	11/20/06 16:25	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	280	59.	11/20/06 16:25	DLK	99-87-6		
Methylene chloride	180	J ug/kg	280	38.	11/20/06 16:25	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	2800	43.	11/20/06 16:25	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	280	25.	11/20/06 16:25	DLK	1634-04-4		
Naphthalene	ND	ug/kg	280	33.	11/20/06 16:25	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	280	61.	11/20/06 16:25	DLK	103-65-1		
Styrene	ND	ug/kg	280	28.	11/20/06 16:25	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	280	26.	11/20/06 16:25	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	280	17.	11/20/06 16:25	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	280	60.	11/20/06 16:25	DLK	127-18-4		
Toluene	ND	ug/kg	280	38.	11/20/06 16:25	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	280	68.	11/20/06 16:25	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	280	92.	11/20/06 16:25	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	280	44.	11/20/06 16:25	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	280	14.	11/20/06 16:25	DLK	79-00-5		
Trichloroethene	ND	ug/kg	280	50.	11/20/06 16:25	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	280	66.	11/20/06 16:25	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	280	44.	11/20/06 16:25	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	280	49.	11/20/06 16:25	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669069 | Project Sample Number: 92131947-003 | Date Collected: 11/08/06 14:54
Client Sample ID: SS-3-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	ND	ug/kg	280	34.	11/20/06 16:25	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	2800	86.	11/20/06 16:25	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	550	43.	11/20/06 16:25	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	550		11/20/06 16:25	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	550	67.	11/20/06 16:25	DLK			
o-Xylene	ND	ug/kg	280	31.	11/20/06 16:25	DLK	95-47-6		
Toluene-d8 (S)	100	%			11/20/06 16:25	DLK	2037-26-5		
4-Bromofluorobenzene (S)	89	%			11/20/06 16:25	DLK	460-00-4		
Dibromofluoromethane (S)	103	%			11/20/06 16:25	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%			11/20/06 16:25	DLK	17060-07-0	1	

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669077 | Project Sample Number: 92131947-004 | Date Collected: 11/08/06 15:41
Client Sample ID: SS-4-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	24.2	%			11/13/06 09:42	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	6.6	6.6	11/19/06 20:35	MGB	68334-30-5		
n-Pentacosane (S)	89	%			11/19/06 20:35	MGB	629-99-2		
Date Extracted	11/16/06				11/16/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.2	3.5	11/13/06 22:44	DHW			
4-Bromofluorobenzene (S)	75	%			11/13/06 22:44	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	16.	J ug/kg	97.	1.4	11/19/06 02:49	DLK	67-64-1		
Benzene	ND	ug/kg	4.9	0.85	11/19/06 02:49	DLK	71-43-2		
Bromobenzene	ND	ug/kg	4.9	0.57	11/19/06 02:49	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	4.9	0.59	11/19/06 02:49	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	4.9	0.47	11/19/06 02:49	DLK	75-27-4		
Bromoform	ND	ug/kg	4.9	0.48	11/19/06 02:49	DLK	75-25-2		
Bromomethane	ND	ug/kg	9.7	4.0	11/19/06 02:49	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	97.	0.90	11/19/06 02:49	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	4.9	1.4	11/19/06 02:49	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	4.9	0.87	11/19/06 02:49	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	4.9	0.75	11/19/06 02:49	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	4.9	0.96	11/19/06 02:49	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	4.9	0.60	11/19/06 02:49	DLK	108-90-7		
Chloroethane	ND	ug/kg	9.7	0.82	11/19/06 02:49	DLK	75-00-3		
Chloroform	ND	ug/kg	4.9	0.83	11/19/06 02:49	DLK	67-66-3		
Chloromethane	ND	ug/kg	9.7	0.68	11/19/06 02:49	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	4.9	0.74	11/19/06 02:49	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	4.9	0.96	11/19/06 02:49	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	0.81	11/19/06 02:49	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	4.9	0.46	11/19/06 02:49	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	0.43	11/19/06 02:49	DLK	106-93-4		
Dibromomethane	ND	ug/kg	4.9	0.78	11/19/06 02:49	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669077 | Project Sample Number: 92131947-004 | Date Collected: 11/08/06 15:41
Client Sample ID: SS-4-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	4.9	0.83	11/19/06 02:49	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	4.9	0.63	11/19/06 02:49	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	4.9	0.94	11/19/06 02:49	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	9.7	1.1	11/19/06 02:49	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	4.9	0.79	11/19/06 02:49	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	4.9	0.43	11/19/06 02:49	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	4.9	0.99	11/19/06 02:49	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	4.9	0.75	11/19/06 02:49	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	4.9	0.97	11/19/06 02:49	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	4.9	0.57	11/19/06 02:49	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	4.9	0.61	11/19/06 02:49	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	4.9	1.0	11/19/06 02:49	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	4.9	0.77	11/19/06 02:49	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	4.9	0.48	11/19/06 02:49	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	4.9	0.47	11/19/06 02:49	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	4.9	0.63	11/19/06 02:49	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	4.9	0.67	11/19/06 02:49	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1.2	11/19/06 02:49	DLK	87-68-3		
2-Hexanone	ND	ug/kg	49.	0.73	11/19/06 02:49	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	0.64	11/19/06 02:49	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	4.9	1.0	11/19/06 02:49	DLK	99-87-6		
Methylene chloride	1.4	J ug/kg	4.9	0.66	11/19/06 02:49	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	49.	0.76	11/19/06 02:49	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	4.9	0.45	11/19/06 02:49	DLK	1634-04-4		
Naphthalene	ND	ug/kg	4.9	0.58	11/19/06 02:49	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	4.9	1.1	11/19/06 02:49	DLK	103-65-1		
Styrene	ND	ug/kg	4.9	0.49	11/19/06 02:49	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	0.46	11/19/06 02:49	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	0.30	11/19/06 02:49	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	4.9	1.1	11/19/06 02:49	DLK	127-18-4		
Toluene	ND	ug/kg	4.9	0.66	11/19/06 02:49	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1.2	11/19/06 02:49	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1.6	11/19/06 02:49	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	4.9	0.77	11/19/06 02:49	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	4.9	0.25	11/19/06 02:49	DLK	79-00-5		
Trichloroethene	ND	ug/kg	4.9	0.88	11/19/06 02:49	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	4.9	1.2	11/19/06 02:49	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	4.9	0.77	11/19/06 02:49	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	0.86	11/19/06 02:49	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669077
Client Sample ID: SS-4-4

Project Sample Number: 92131947-004
Matrix: Soil

Date Collected: 11/08/06 15:41
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	0.60	11/19/06 02:49	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	49.	1.5	11/19/06 02:49	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	9.7	0.75	11/19/06 02:49	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	9.7		11/19/06 02:49	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	9.7	1.2	11/19/06 02:49	DLK			
o-Xylene	ND	ug/kg	4.9	0.54	11/19/06 02:49	DLK	95-47-6		
Toluene-d8 (S)	112	%			11/19/06 02:49	DLK	2037-26-5		
4-Bromofluorobenzene (S)	101	%			11/19/06 02:49	DLK	460-00-4		
Dibromofluoromethane (S)	102	%			11/19/06 02:49	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%			11/19/06 02:49	DLK	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669085 | Project Sample Number: 92131947-005 | Date Collected: 11/09/06 13:41
Client Sample ID: SS-5-1 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	16.6	%			11/13/06 09:43	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	7000	mg/kg	120	120	11/20/06 23:11	MGB	68334-30-5		
n-Pentacosane (S)	0	%			11/20/06 23:11	MGB	629-99-2	2	
Date Extracted	11/12/06				11/12/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	22.	mg/kg	4.8	3.2	11/14/06 00:12	DHW			
4-Bromofluorobenzene (S)	85	%			11/14/06 00:12	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	50.	J ug/kg	92.	1.4	11/20/06 18:31	DLK	67-64-1		
Benzene	ND	ug/kg	4.6	0.80	11/20/06 18:31	DLK	71-43-2		
Bromobenzene	ND	ug/kg	4.6	0.54	11/20/06 18:31	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	4.6	0.56	11/20/06 18:31	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	4.6	0.44	11/20/06 18:31	DLK	75-27-4		
Bromoform	ND	ug/kg	4.6	0.45	11/20/06 18:31	DLK	75-25-2		
Bromomethane	ND	ug/kg	9.2	3.8	11/20/06 18:31	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	92.	0.84	11/20/06 18:31	DLK	78-93-3		
n-Butylbenzene	6.0	ug/kg	4.6	1.3	11/20/06 18:31	DLK	104-51-8		
sec-Butylbenzene	3.7	J ug/kg	4.6	0.82	11/20/06 18:31	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	4.6	0.71	11/20/06 18:31	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	4.6	0.91	11/20/06 18:31	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	4.6	0.57	11/20/06 18:31	DLK	108-90-7		
Chloroethane	ND	ug/kg	9.2	0.77	11/20/06 18:31	DLK	75-00-3		
Chloroform	ND	ug/kg	4.6	0.78	11/20/06 18:31	DLK	67-66-3		
Chloromethane	ND	ug/kg	9.2	0.64	11/20/06 18:31	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	4.6	0.70	11/20/06 18:31	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	4.6	0.91	11/20/06 18:31	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	0.76	11/20/06 18:31	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	4.6	0.43	11/20/06 18:31	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	0.40	11/20/06 18:31	DLK	106-93-4		
Dibromomethane	ND	ug/kg	4.6	0.73	11/20/06 18:31	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669085 | Project Sample Number: 92131947-005 | Date Collected: 11/09/06 13:41
Client Sample ID: SS-5-1 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	4.6	0.78	11/20/06 18:31	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	4.6	0.60	11/20/06 18:31	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	4.6	0.89	11/20/06 18:31	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	9.2	1.0	11/20/06 18:31	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	4.6	0.74	11/20/06 18:31	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	4.6	0.40	11/20/06 18:31	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	4.6	0.94	11/20/06 18:31	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	4.6	0.71	11/20/06 18:31	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	4.6	0.92	11/20/06 18:31	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	4.6	0.54	11/20/06 18:31	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	4.6	0.58	11/20/06 18:31	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	4.6	0.96	11/20/06 18:31	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	4.6	0.72	11/20/06 18:31	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	4.6	0.45	11/20/06 18:31	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	4.6	0.44	11/20/06 18:31	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	4.6	0.60	11/20/06 18:31	DLK	108-20-3		
Ethylbenzene	1.9	J ug/kg	4.6	0.63	11/20/06 18:31	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1.2	11/20/06 18:31	DLK	87-68-3		
2-Hexanone	ND	ug/kg	46.	0.69	11/20/06 18:31	DLK	591-78-6		
Isopropylbenzene (Cumene)	1.4	J ug/kg	4.6	0.61	11/20/06 18:31	DLK	98-82-8		
p-Isopropyltoluene	8.0	ug/kg	4.6	0.97	11/20/06 18:31	DLK	99-87-6		
Methylene chloride	ND	ug/kg	4.6	0.62	11/20/06 18:31	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.	0.72	11/20/06 18:31	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	4.6	0.42	11/20/06 18:31	DLK	1634-04-4		
Naphthalene	10.	ug/kg	4.6	0.55	11/20/06 18:31	DLK	91-20-3		
n-Propylbenzene	2.6	J ug/kg	4.6	1.0	11/20/06 18:31	DLK	103-65-1		
Styrene	ND	ug/kg	4.6	0.46	11/20/06 18:31	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	0.43	11/20/06 18:31	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	0.28	11/20/06 18:31	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	4.6	0.99	11/20/06 18:31	DLK	127-18-4		
Toluene	1.2	J ug/kg	4.6	0.62	11/20/06 18:31	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1.1	11/20/06 18:31	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1.5	11/20/06 18:31	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	4.6	0.72	11/20/06 18:31	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	4.6	0.24	11/20/06 18:31	DLK	79-00-5		
Trichloroethene	ND	ug/kg	4.6	0.83	11/20/06 18:31	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	4.6	1.1	11/20/06 18:31	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	4.6	0.72	11/20/06 18:31	DLK	96-18-4		
1,2,4-Trimethylbenzene	16.	ug/kg	4.6	0.81	11/20/06 18:31	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669085
Client Sample ID: SS-5-1

Project Sample Number: 92131947-005
Matrix: Soil

Date Collected: 11/09/06 13:41
Date Received: 11/10/06 17:20

Parameters	Results		Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	4.5	J	ug/kg	4.6	0.57	11/20/06 18:31	DLK	108-67-8		
Vinyl acetate	ND		ug/kg	46.	1.4	11/20/06 18:31	DLK	108-05-4		
Vinyl chloride	ND		ug/kg	9.2	0.71	11/20/06 18:31	DLK	75-01-4		
Xylene (Total)	ND		ug/kg	9.2		11/20/06 18:31	DLK	1330-20-7		
m&p-Xylene	5.0	J	ug/kg	9.2	1.1	11/20/06 18:31	DLK			
o-Xylene	3.5	J	ug/kg	4.6	0.51	11/20/06 18:31	DLK	95-47-6		
Toluene-d8 (S)	105		%			11/20/06 18:31	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97		%			11/20/06 18:31	DLK	460-00-4		
Dibromofluoromethane (S)	100		%			11/20/06 18:31	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	112		%			11/20/06 18:31	DLK	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669093 | Project Sample Number: 92131947-006 | Date Collected: 11/09/06 13:46
Client Sample ID: SS-5-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	29.1	%			11/13/06 09:43	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	16.	mg/kg	7.1	7.1	11/19/06 23:47	MGB	68334-30-5		
n-Pentacosane (S)	98	%			11/19/06 23:47	MGB	629-99-2		
Date Extracted	11/16/06				11/16/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.8	3.9	11/14/06 15:25	DHW			
4-Bromofluorobenzene (S)	74	%			11/14/06 15:25	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	27.	J ug/kg	120	1.7	11/20/06 18:13	DLK	67-64-1		
Benzene	ND	ug/kg	5.8	1.0	11/20/06 18:13	DLK	71-43-2		
Bromobenzene	ND	ug/kg	5.8	0.69	11/20/06 18:13	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	5.8	0.71	11/20/06 18:13	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	5.8	0.56	11/20/06 18:13	DLK	75-27-4		
Bromoform	ND	ug/kg	5.8	0.57	11/20/06 18:13	DLK	75-25-2		
Bromomethane	ND	ug/kg	12.	4.8	11/20/06 18:13	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	120	1.1	11/20/06 18:13	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	5.8	1.7	11/20/06 18:13	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	5.8	1.0	11/20/06 18:13	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	5.8	0.90	11/20/06 18:13	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	5.8	1.2	11/20/06 18:13	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	5.8	0.72	11/20/06 18:13	DLK	108-90-7		
Chloroethane	ND	ug/kg	12.	0.98	11/20/06 18:13	DLK	75-00-3		
Chloroform	ND	ug/kg	5.8	0.99	11/20/06 18:13	DLK	67-66-3		
Chloromethane	ND	ug/kg	12.	0.82	11/20/06 18:13	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.8	0.89	11/20/06 18:13	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.8	1.2	11/20/06 18:13	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	0.97	11/20/06 18:13	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.8	0.55	11/20/06 18:13	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	0.51	11/20/06 18:13	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.8	0.93	11/20/06 18:13	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669093
Client Sample ID: SS-5-4

Project Sample Number: 92131947-006
Matrix: Soil

Date Collected: 11/09/06 13:46
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	5.8	0.99	11/20/06 18:13	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.8	0.76	11/20/06 18:13	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.8	1.1	11/20/06 18:13	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	12.	1.3	11/20/06 18:13	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.8	0.95	11/20/06 18:13	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.8	0.51	11/20/06 18:13	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.8	1.2	11/20/06 18:13	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.8	0.90	11/20/06 18:13	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1.2	11/20/06 18:13	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.8	0.69	11/20/06 18:13	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.8	0.74	11/20/06 18:13	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.8	1.2	11/20/06 18:13	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.8	0.92	11/20/06 18:13	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.8	0.57	11/20/06 18:13	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.8	0.56	11/20/06 18:13	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.8	0.76	11/20/06 18:13	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.8	0.81	11/20/06 18:13	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1.5	11/20/06 18:13	DLK	87-68-3		
2-Hexanone	ND	ug/kg	58.	0.88	11/20/06 18:13	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	0.77	11/20/06 18:13	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.8	1.2	11/20/06 18:13	DLK	99-87-6		
Methylene chloride	ND	ug/kg	5.8	0.79	11/20/06 18:13	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	58.	0.91	11/20/06 18:13	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.8	0.54	11/20/06 18:13	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.8	0.70	11/20/06 18:13	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.8	1.3	11/20/06 18:13	DLK	103-65-1		
Styrene	ND	ug/kg	5.8	0.58	11/20/06 18:13	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	0.55	11/20/06 18:13	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	0.36	11/20/06 18:13	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.8	1.3	11/20/06 18:13	DLK	127-18-4		
Toluene	ND	ug/kg	5.8	0.79	11/20/06 18:13	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1.4	11/20/06 18:13	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1.9	11/20/06 18:13	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.8	0.92	11/20/06 18:13	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.8	0.30	11/20/06 18:13	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.8	1.1	11/20/06 18:13	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.8	1.4	11/20/06 18:13	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.8	0.92	11/20/06 18:13	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1.0	11/20/06 18:13	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669093 | Project Sample Number: 92131947-006 | Date Collected: 11/09/06 13:46
Client Sample ID: SS-5-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	0.72	11/20/06 18:13	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	58.	1.8	11/20/06 18:13	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	12.	0.90	11/20/06 18:13	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	12.		11/20/06 18:13	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	12.	1.4	11/20/06 18:13	DLK			
o-Xylene	ND	ug/kg	5.8	0.65	11/20/06 18:13	DLK	95-47-6		
Toluene-d8 (S)	105	%			11/20/06 18:13	DLK	2037-26-5		
4-Bromofluorobenzene (S)	107	%			11/20/06 18:13	DLK	460-00-4		
Dibromofluoromethane (S)	102	%			11/20/06 18:13	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	112	%			11/20/06 18:13	DLK	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669119
Client Sample ID: SS-6-4

Project Sample Number: 92131947-007
Matrix: Soil

Date Collected: 11/09/06 14:23
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	23.8	%			11/13/06 09:43	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	6.6	6.6	11/20/06 00:08	MGB	68334-30-5		
n-Pentacosane (S)	53	%			11/20/06 00:08	MGB	629-99-2		
Date Extracted	11/16/06				11/16/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.0	3.4	11/14/06 15:54	DHW			
4-Bromofluorobenzene (S)	84	%			11/14/06 15:54	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	32.	J ug/kg	110	1.6	11/20/06 18:49	DLK	67-64-1		
Benzene	ND	ug/kg	5.4	0.94	11/20/06 18:49	DLK	71-43-2		
Bromobenzene	ND	ug/kg	5.4	0.64	11/20/06 18:49	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	5.4	0.66	11/20/06 18:49	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	5.4	0.52	11/20/06 18:49	DLK	75-27-4		
Bromoform	ND	ug/kg	5.4	0.53	11/20/06 18:49	DLK	75-25-2		
Bromomethane	ND	ug/kg	11.	4.5	11/20/06 18:49	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	110	1.0	11/20/06 18:49	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	5.4	1.5	11/20/06 18:49	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	5.4	0.96	11/20/06 18:49	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	5.4	0.83	11/20/06 18:49	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	5.4	1.1	11/20/06 18:49	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	5.4	0.67	11/20/06 18:49	DLK	108-90-7		
Chloroethane	ND	ug/kg	11.	0.91	11/20/06 18:49	DLK	75-00-3		
Chloroform	ND	ug/kg	5.4	0.92	11/20/06 18:49	DLK	67-66-3		
Chloromethane	ND	ug/kg	11.	0.76	11/20/06 18:49	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.4	0.82	11/20/06 18:49	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.4	1.1	11/20/06 18:49	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	0.90	11/20/06 18:49	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.4	0.51	11/20/06 18:49	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	0.48	11/20/06 18:49	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.4	0.87	11/20/06 18:49	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669119 | Project Sample Number: 92131947-007 | Date Collected: 11/09/06 14:23
Client Sample ID: SS-6-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	5.4	0.92	11/20/06 18:49	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.4	0.70	11/20/06 18:49	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.4	1.1	11/20/06 18:49	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	11.	1.2	11/20/06 18:49	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.4	0.88	11/20/06 18:49	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.4	0.48	11/20/06 18:49	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.4	1.1	11/20/06 18:49	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.4	0.83	11/20/06 18:49	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1.1	11/20/06 18:49	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.4	0.64	11/20/06 18:49	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.4	0.68	11/20/06 18:49	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.4	1.1	11/20/06 18:49	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.4	0.86	11/20/06 18:49	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.4	0.53	11/20/06 18:49	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.4	0.52	11/20/06 18:49	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.4	0.70	11/20/06 18:49	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.4	0.75	11/20/06 18:49	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1.4	11/20/06 18:49	DLK	87-68-3		
2-Hexanone	ND	ug/kg	54.	0.81	11/20/06 18:49	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	0.72	11/20/06 18:49	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.4	1.1	11/20/06 18:49	DLK	99-87-6		
Methylene chloride	1.7	J ug/kg	5.4	0.74	11/20/06 18:49	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.	0.85	11/20/06 18:49	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.4	0.50	11/20/06 18:49	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.4	0.65	11/20/06 18:49	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.4	1.2	11/20/06 18:49	DLK	103-65-1		
Styrene	ND	ug/kg	5.4	0.54	11/20/06 18:49	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	0.51	11/20/06 18:49	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	0.34	11/20/06 18:49	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.4	1.2	11/20/06 18:49	DLK	127-18-4		
Toluene	ND	ug/kg	5.4	0.74	11/20/06 18:49	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1.3	11/20/06 18:49	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1.8	11/20/06 18:49	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.4	0.86	11/20/06 18:49	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.4	0.28	11/20/06 18:49	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.4	0.98	11/20/06 18:49	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.4	1.3	11/20/06 18:49	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.4	0.86	11/20/06 18:49	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	0.95	11/20/06 18:49	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669119
Client Sample ID: SS-6-4

Project Sample Number: 92131947-007
Matrix: Soil

Date Collected: 11/09/06 14:23
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	0.67	11/20/06 18:49	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	54.	1.7	11/20/06 18:49	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	11.	0.83	11/20/06 18:49	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	11.		11/20/06 18:49	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	11.	1.3	11/20/06 18:49	DLK			
o-Xylene	ND	ug/kg	5.4	0.61	11/20/06 18:49	DLK	95-47-6		
Toluene-d8 (S)	102	%			11/20/06 18:49	DLK	2037-26-5		
4-Bromofluorobenzene (S)	106	%			11/20/06 18:49	DLK	460-00-4		
Dibromofluoromethane (S)	100	%			11/20/06 18:49	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%			11/20/06 18:49	DLK	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669127 | Project Sample Number: 92131947-008 | Date Collected: 11/09/06 15:04
Client Sample ID: SS-7-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	14.2	%			11/13/06 09:44	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	9.5	mg/kg	5.8	5.8	11/20/06 00:30	MGB	68334-30-5		
n-Pentacosane (S)	117	%			11/20/06 00:30	MGB	629-99-2		
Date Extracted	11/16/06				11/16/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	4.3	2.9	11/14/06 01:40	DHW			
4-Bromofluorobenzene (S)	107	%			11/14/06 01:40	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	78.	J ug/kg	91.	1.3	11/20/06 19:08	DLK	67-64-1		
Benzene	ND	ug/kg	4.5	0.79	11/20/06 19:08	DLK	71-43-2		
Bromobenzene	ND	ug/kg	4.5	0.54	11/20/06 19:08	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	4.5	0.55	11/20/06 19:08	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	4.5	0.44	11/20/06 19:08	DLK	75-27-4		
Bromoform	ND	ug/kg	4.5	0.44	11/20/06 19:08	DLK	75-25-2		
Bromomethane	ND	ug/kg	9.1	3.7	11/20/06 19:08	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	91.	0.83	11/20/06 19:08	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	4.5	1.3	11/20/06 19:08	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	4.5	0.81	11/20/06 19:08	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	4.5	0.70	11/20/06 19:08	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	4.5	0.90	11/20/06 19:08	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	4.5	0.56	11/20/06 19:08	DLK	108-90-7		
Chloroethane	ND	ug/kg	9.1	0.76	11/20/06 19:08	DLK	75-00-3		
Chloroform	ND	ug/kg	4.5	0.77	11/20/06 19:08	DLK	67-66-3		
Chloromethane	ND	ug/kg	9.1	0.64	11/20/06 19:08	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	4.5	0.69	11/20/06 19:08	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	4.5	0.90	11/20/06 19:08	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	0.75	11/20/06 19:08	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	4.5	0.43	11/20/06 19:08	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	0.40	11/20/06 19:08	DLK	106-93-4		
Dibromomethane	ND	ug/kg	4.5	0.73	11/20/06 19:08	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669127
Client Sample ID: SS-7-4

Project Sample Number: 92131947-008
Matrix: Soil

Date Collected: 11/09/06 15:04
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	4.5	0.77	11/20/06 19:08	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	4.5	0.59	11/20/06 19:08	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	4.5	0.88	11/20/06 19:08	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	9.1	1.0	11/20/06 19:08	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	4.5	0.74	11/20/06 19:08	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	4.5	0.40	11/20/06 19:08	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	4.5	0.93	11/20/06 19:08	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	4.5	0.70	11/20/06 19:08	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	4.5	0.91	11/20/06 19:08	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	4.5	0.54	11/20/06 19:08	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	4.5	0.57	11/20/06 19:08	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	4.5	0.95	11/20/06 19:08	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	4.5	0.72	11/20/06 19:08	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	4.5	0.44	11/20/06 19:08	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	4.5	0.44	11/20/06 19:08	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	4.5	0.59	11/20/06 19:08	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	4.5	0.63	11/20/06 19:08	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1.2	11/20/06 19:08	DLK	87-68-3		
2-Hexanone	ND	ug/kg	45.	0.68	11/20/06 19:08	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	0.60	11/20/06 19:08	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	4.5	0.96	11/20/06 19:08	DLK	99-87-6		
Methylene chloride	ND	ug/kg	4.5	0.62	11/20/06 19:08	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.	0.71	11/20/06 19:08	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	4.5	0.42	11/20/06 19:08	DLK	1634-04-4		
Naphthalene	ND	ug/kg	4.5	0.54	11/20/06 19:08	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	4.5	1.0	11/20/06 19:08	DLK	103-65-1		
Styrene	ND	ug/kg	4.5	0.45	11/20/06 19:08	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	0.43	11/20/06 19:08	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	0.28	11/20/06 19:08	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	4.5	0.98	11/20/06 19:08	DLK	127-18-4		
Toluene	ND	ug/kg	4.5	0.62	11/20/06 19:08	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1.1	11/20/06 19:08	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1.5	11/20/06 19:08	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	4.5	0.72	11/20/06 19:08	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	4.5	0.24	11/20/06 19:08	DLK	79-00-5		
Trichloroethene	ND	ug/kg	4.5	0.82	11/20/06 19:08	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	4.5	1.1	11/20/06 19:08	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	4.5	0.72	11/20/06 19:08	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	0.80	11/20/06 19:08	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669127
Client Sample ID: SS-7-4

Project Sample Number: 92131947-008
Matrix: Soil

Date Collected: 11/09/06 15:04
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	0.56	11/20/06 19:08	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	45.	1.4	11/20/06 19:08	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	9.1	0.70	11/20/06 19:08	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	9.1		11/20/06 19:08	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	9.1	1.1	11/20/06 19:08	DLK			
o-Xylene	ND	ug/kg	4.5	0.51	11/20/06 19:08	DLK	95-47-6		
Toluene-d8 (S)	103	%			11/20/06 19:08	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%			11/20/06 19:08	DLK	460-00-4		
Dibromofluoromethane (S)	102	%			11/20/06 19:08	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%			11/20/06 19:08	DLK	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669135 | Project Sample Number: 92131947-009 | Date Collected: 11/09/06 15:40
Client Sample ID: SS-8-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	28.6	%			11/13/06 09:44	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	ND	mg/kg	7.0	7.0	11/20/06 00:51	MGB	68334-30-5		
n-Pentacosane (S)	71	%			11/20/06 00:51	MGB	629-99-2		
Date Extracted	11/16/06				11/16/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	5.8	3.9	11/14/06 02:09	DHW			
4-Bromofluorobenzene (S)	90	%			11/14/06 02:09	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	ND	ug/kg	110	1.6	11/20/06 19:26	DLK	67-64-1		
Benzene	ND	ug/kg	5.6	0.97	11/20/06 19:26	DLK	71-43-2		
Bromobenzene	ND	ug/kg	5.6	0.66	11/20/06 19:26	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	5.6	0.68	11/20/06 19:26	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	5.6	0.53	11/20/06 19:26	DLK	75-27-4		
Bromoform	ND	ug/kg	5.6	0.54	11/20/06 19:26	DLK	75-25-2		
Bromomethane	ND	ug/kg	11.	4.6	11/20/06 19:26	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	110	1.0	11/20/06 19:26	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	5.6	1.6	11/20/06 19:26	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	5.6	0.99	11/20/06 19:26	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	5.6	0.86	11/20/06 19:26	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	5.6	1.1	11/20/06 19:26	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	5.6	0.69	11/20/06 19:26	DLK	108-90-7		
Chloroethane	ND	ug/kg	11.	0.93	11/20/06 19:26	DLK	75-00-3		
Chloroform	ND	ug/kg	5.6	0.94	11/20/06 19:26	DLK	67-66-3		
Chloromethane	ND	ug/kg	11.	0.78	11/20/06 19:26	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.6	0.84	11/20/06 19:26	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.6	1.1	11/20/06 19:26	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.6	0.92	11/20/06 19:26	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.6	0.52	11/20/06 19:26	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.6	0.49	11/20/06 19:26	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.6	0.89	11/20/06 19:26	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669135
Client Sample ID: SS-8-4

Project Sample Number: 92131947-009
Matrix: Soil

Date Collected: 11/09/06 15:40
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	5.6	0.94	11/20/06 19:26	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.6	0.72	11/20/06 19:26	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.6	1.1	11/20/06 19:26	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	11.	1.3	11/20/06 19:26	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.6	0.90	11/20/06 19:26	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.6	0.49	11/20/06 19:26	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.6	1.1	11/20/06 19:26	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.6	0.86	11/20/06 19:26	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1.1	11/20/06 19:26	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.6	0.66	11/20/06 19:26	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.6	0.70	11/20/06 19:26	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.6	1.2	11/20/06 19:26	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.6	0.88	11/20/06 19:26	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.6	0.54	11/20/06 19:26	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.6	0.53	11/20/06 19:26	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.6	0.72	11/20/06 19:26	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.6	0.77	11/20/06 19:26	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.6	1.4	11/20/06 19:26	DLK	87-68-3		
2-Hexanone	ND	ug/kg	56.	0.83	11/20/06 19:26	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	0.73	11/20/06 19:26	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.6	1.2	11/20/06 19:26	DLK	99-87-6		
Methylene chloride	ND	ug/kg	5.6	0.76	11/20/06 19:26	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	56.	0.87	11/20/06 19:26	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.6	0.51	11/20/06 19:26	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.6	0.67	11/20/06 19:26	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.6	1.2	11/20/06 19:26	DLK	103-65-1		
Styrene	ND	ug/kg	5.6	0.56	11/20/06 19:26	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	0.52	11/20/06 19:26	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	0.34	11/20/06 19:26	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.6	1.2	11/20/06 19:26	DLK	127-18-4		
Toluene	ND	ug/kg	5.6	0.76	11/20/06 19:26	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.6	1.4	11/20/06 19:26	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	1.9	11/20/06 19:26	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.6	0.88	11/20/06 19:26	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.6	0.29	11/20/06 19:26	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.6	1.0	11/20/06 19:26	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.6	1.3	11/20/06 19:26	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.6	0.88	11/20/06 19:26	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	0.98	11/20/06 19:26	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669135
Client Sample ID: SS-8-4

Project Sample Number: 92131947-009
Matrix: Soil

Date Collected: 11/09/06 15:40
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	0.69	11/20/06 19:26	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	56.	1.7	11/20/06 19:26	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	11.	0.86	11/20/06 19:26	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	11.		11/20/06 19:26	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	11.	1.3	11/20/06 19:26	DLK			
o-Xylene	ND	ug/kg	5.6	0.62	11/20/06 19:26	DLK	95-47-6		
Toluene-d8 (S)	103	%			11/20/06 19:26	DLK	2037-26-5		
4-Bromofluorobenzene (S)	99	%			11/20/06 19:26	DLK	460-00-4		
Dibromofluoromethane (S)	103	%			11/20/06 19:26	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%			11/20/06 19:26	DLK	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669143 | Project Sample Number: 92131947-010 | Date Collected: 11/09/06 16:06
Client Sample ID: SS-9-4 | Matrix: Soil | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	21.3	%			11/13/06 09:44	KDF			
GC Semivolatiles									
TPH in Soil by 3545/8015	Prep/Method: EPA 3545 / EPA 8015								
Diesel Fuel	8.3	mg/kg	6.4	6.4	11/19/06 08:57	MGB	68334-30-5		
n-Pentacosane (S)	71	%			11/19/06 08:57	MGB	629-99-2		
Date Extracted	11/16/06				11/16/06				
GC Volatiles									
GAS, Soil, North Carolina	Method: EPA 8015								
Gasoline	ND	mg/kg	4.7	3.2	11/14/06 02:39	DHW			
4-Bromofluorobenzene (S)	84	%			11/14/06 02:39	DHW	460-00-4		
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Acetone	27.	J ug/kg	100	1.5	11/20/06 19:44	DLK	67-64-1		
Benzene	ND	ug/kg	5.1	0.89	11/20/06 19:44	DLK	71-43-2		
Bromobenzene	ND	ug/kg	5.1	0.60	11/20/06 19:44	DLK	108-86-1		
Bromochloromethane	ND	ug/kg	5.1	0.62	11/20/06 19:44	DLK	74-97-5		
Bromodichloromethane	ND	ug/kg	5.1	0.49	11/20/06 19:44	DLK	75-27-4		
Bromoform	ND	ug/kg	5.1	0.50	11/20/06 19:44	DLK	75-25-2		
Bromomethane	ND	ug/kg	10.	4.2	11/20/06 19:44	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/kg	100	0.94	11/20/06 19:44	DLK	78-93-3		
n-Butylbenzene	ND	ug/kg	5.1	1.4	11/20/06 19:44	DLK	104-51-8		
sec-Butylbenzene	ND	ug/kg	5.1	0.91	11/20/06 19:44	DLK	135-98-8		
tert-Butylbenzene	ND	ug/kg	5.1	0.79	11/20/06 19:44	DLK	98-06-6		
Carbon tetrachloride	ND	ug/kg	5.1	1.0	11/20/06 19:44	DLK	56-23-5		
Chlorobenzene	ND	ug/kg	5.1	0.63	11/20/06 19:44	DLK	108-90-7		
Chloroethane	ND	ug/kg	10.	0.86	11/20/06 19:44	DLK	75-00-3		
Chloroform	ND	ug/kg	5.1	0.87	11/20/06 19:44	DLK	67-66-3		
Chloromethane	ND	ug/kg	10.	0.71	11/20/06 19:44	DLK	74-87-3		
2-Chlorotoluene	ND	ug/kg	5.1	0.78	11/20/06 19:44	DLK	95-49-8		
4-Chlorotoluene	ND	ug/kg	5.1	1.0	11/20/06 19:44	DLK	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	0.85	11/20/06 19:44	DLK	96-12-8		
Dibromochloromethane	ND	ug/kg	5.1	0.48	11/20/06 19:44	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	0.45	11/20/06 19:44	DLK	106-93-4		
Dibromomethane	ND	ug/kg	5.1	0.82	11/20/06 19:44	DLK	74-95-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669143
Client Sample ID: SS-9-4

Project Sample Number: 92131947-010
Matrix: Soil

Date Collected: 11/09/06 16:06
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichlorobenzene	ND	ug/kg	5.1	0.87	11/20/06 19:44	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	5.1	0.66	11/20/06 19:44	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.1	0.99	11/20/06 19:44	DLK	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	10.	1.2	11/20/06 19:44	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/kg	5.1	0.83	11/20/06 19:44	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/kg	5.1	0.45	11/20/06 19:44	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/kg	5.1	1.0	11/20/06 19:44	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	5.1	0.79	11/20/06 19:44	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1.0	11/20/06 19:44	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/kg	5.1	0.60	11/20/06 19:44	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/kg	5.1	0.64	11/20/06 19:44	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/kg	5.1	1.1	11/20/06 19:44	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/kg	5.1	0.81	11/20/06 19:44	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	5.1	0.50	11/20/06 19:44	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.1	0.49	11/20/06 19:44	DLK	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.1	0.66	11/20/06 19:44	DLK	108-20-3		
Ethylbenzene	ND	ug/kg	5.1	0.70	11/20/06 19:44	DLK	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1.3	11/20/06 19:44	DLK	87-68-3		
2-Hexanone	ND	ug/kg	51.	0.77	11/20/06 19:44	DLK	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	0.67	11/20/06 19:44	DLK	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.1	1.1	11/20/06 19:44	DLK	99-87-6		
Methylene chloride	ND	ug/kg	5.1	0.69	11/20/06 19:44	DLK	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.	0.80	11/20/06 19:44	DLK	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.1	0.47	11/20/06 19:44	DLK	1634-04-4		
Naphthalene	ND	ug/kg	5.1	0.61	11/20/06 19:44	DLK	91-20-3		
n-Propylbenzene	ND	ug/kg	5.1	1.1	11/20/06 19:44	DLK	103-65-1		
Styrene	ND	ug/kg	5.1	0.51	11/20/06 19:44	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	0.48	11/20/06 19:44	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	0.32	11/20/06 19:44	DLK	79-34-5		
Tetrachloroethene	ND	ug/kg	5.1	1.1	11/20/06 19:44	DLK	127-18-4		
Toluene	ND	ug/kg	5.1	0.69	11/20/06 19:44	DLK	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1.3	11/20/06 19:44	DLK	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1.7	11/20/06 19:44	DLK	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.1	0.81	11/20/06 19:44	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.1	0.27	11/20/06 19:44	DLK	79-00-5		
Trichloroethene	ND	ug/kg	5.1	0.92	11/20/06 19:44	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/kg	5.1	1.2	11/20/06 19:44	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.1	0.81	11/20/06 19:44	DLK	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	0.90	11/20/06 19:44	DLK	95-63-6		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669143
Client Sample ID: SS-9-4

Project Sample Number: 92131947-010
Matrix: Soil

Date Collected: 11/09/06 16:06
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	0.63	11/20/06 19:44	DLK	108-67-8		
Vinyl acetate	ND	ug/kg	51.	1.6	11/20/06 19:44	DLK	108-05-4		
Vinyl chloride	ND	ug/kg	10.	0.79	11/20/06 19:44	DLK	75-01-4		
Xylene (Total)	ND	ug/kg	10.		11/20/06 19:44	DLK	1330-20-7		
m&p-Xylene	ND	ug/kg	10.	1.2	11/20/06 19:44	DLK			
o-Xylene	ND	ug/kg	5.1	0.57	11/20/06 19:44	DLK	95-47-6		
Toluene-d8 (S)	105	%			11/20/06 19:44	DLK	2037-26-5		
4-Bromofluorobenzene (S)	98	%			11/20/06 19:44	DLK	460-00-4		
Dibromofluoromethane (S)	100	%			11/20/06 19:44	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	113	%			11/20/06 19:44	DLK	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669168 | Project Sample Number: 92131947-011 | Date Collected: 11/09/06 14:37
Client Sample ID: DW-1 | Matrix: Water | Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Semivolatiles									
Semivolatile Organics	Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	10.	2.6	11/15/06 14:45	BET	83-32-9		
Acenaphthylene	ND	ug/l	10.	2.4	11/15/06 14:45	BET	208-96-8		
Aniline	ND	ug/l	10.	2.6	11/15/06 14:45	BET	62-53-3		
Anthracene	ND	ug/l	10.	2.2	11/15/06 14:45	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/l	10.	2.0	11/15/06 14:45	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/l	10.	2.2	11/15/06 14:45	BET	205-99-2		
Benzo(a)anthracene	ND	ug/l	10.	1.5	11/15/06 14:45	BET	56-55-3		
Benzoic acid	ND	ug/l	50.	11.	11/15/06 14:45	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/l	10.	4.7	11/15/06 14:45	BET	191-24-2		
Benzyl alcohol	ND	ug/l	20.	1.9	11/15/06 14:45	BET	100-51-6		
Benzo(a)pyrene	ND	ug/l	10.	1.4	11/15/06 14:45	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/l	10.	2.0	11/15/06 14:45	BET	101-55-3		
Butylbenzylphthalate	ND	ug/l	10.	1.9	11/15/06 14:45	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/l	20.	3.6	11/15/06 14:45	BET	59-50-7		
4-Chloroaniline	ND	ug/l	20.	2.9	11/15/06 14:45	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/l	10.	2.9	11/15/06 14:45	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/l	10.	3.1	11/15/06 14:45	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/l	10.	3.2	11/15/06 14:45	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/l	10.	2.5	11/15/06 14:45	BET	91-58-7		
2-Chlorophenol	ND	ug/l	10.	3.9	11/15/06 14:45	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/l	10.	2.2	11/15/06 14:45	BET	7005-72-3		
Chrysene	ND	ug/l	10.	1.2	11/15/06 14:45	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	10.	3.8	11/15/06 14:45	BET	53-70-3		
Dibenzofuran	ND	ug/l	10.	2.4	11/15/06 14:45	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/l	10.	2.1	11/15/06 14:45	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	10.	1.8	11/15/06 14:45	BET	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	10.	1.8	11/15/06 14:45	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/l	20.	4.1	11/15/06 14:45	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/l	10.	3.4	11/15/06 14:45	BET	120-83-2		
Diethylphthalate	ND	ug/l	10.	2.7	11/15/06 14:45	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/l	10.	3.7	11/15/06 14:45	BET	105-67-9		
Dimethylphthalate	ND	ug/l	10.	1.8	11/15/06 14:45	BET	131-11-3		
Di-n-butylphthalate	ND	ug/l	10.	2.4	11/15/06 14:45	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/l	50.	2.1	11/15/06 14:45	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/l	50.	1.2	11/15/06 14:45	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/l	10.	2.5	11/15/06 14:45	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/l	10.	2.3	11/15/06 14:45	BET	606-20-2		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669168
Client Sample ID: DW-1

Project Sample Number: 92131947-011
Matrix: Water

Date Collected: 11/09/06 14:37
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Di-n-octylphthalate	ND	ug/l	10.	1.9	11/15/06 14:45	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/l	20.	2.9	11/15/06 14:45	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/l	10.	2.3	11/15/06 14:45	BET	117-81-7		
Fluoranthene	ND	ug/l	10.	1.8	11/15/06 14:45	BET	206-44-0		
Fluorene	ND	ug/l	10.	2.5	11/15/06 14:45	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/l	10.	2.3	11/15/06 14:45	BET	87-68-3		
Hexachlorobenzene	ND	ug/l	10.	2.8	11/15/06 14:45	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/l	10.	1.7	11/15/06 14:45	BET	77-47-4		
Hexachloroethane	ND	ug/l	10.	1.8	11/15/06 14:45	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/l	10.	3.3	11/15/06 14:45	BET	193-39-5		
Isophorone	ND	ug/l	10.	3.4	11/15/06 14:45	BET	78-59-1		
1-Methylnaphthalene	ND	ug/l	10.		11/15/06 14:45	BET	90-12-0		
2-Methylnaphthalene	ND	ug/l	10.	2.6	11/15/06 14:45	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/l	10.	3.9	11/15/06 14:45	BET	95-48-7		
3&4-Methylphenol	ND	ug/l	10.	3.2	11/15/06 14:45	BET			
Naphthalene	ND	ug/l	10.	2.6	11/15/06 14:45	BET	91-20-3		
2-Nitroaniline	ND	ug/l	50.	2.5	11/15/06 14:45	BET	88-74-4		
3-Nitroaniline	ND	ug/l	50.	2.0	11/15/06 14:45	BET	99-09-2		
4-Nitroaniline	ND	ug/l	50.	2.2	11/15/06 14:45	BET	100-01-6		
Nitrobenzene	ND	ug/l	10.	3.0	11/15/06 14:45	BET	98-95-3		
2-Nitrophenol	ND	ug/l	10.	2.3	11/15/06 14:45	BET	88-75-5		
4-Nitrophenol	ND	ug/l	50.	1.3	11/15/06 14:45	BET	100-02-7		
N-Nitrosodimethylamine	ND	ug/l	10.	1.5	11/15/06 14:45	BET	62-75-9		
N-Nitroso-di-n-propylamine	ND	ug/l	10.	2.7	11/15/06 14:45	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/l	10.	2.3	11/15/06 14:45	BET	86-30-6		
Pentachlorophenol	ND	ug/l	50.	2.2	11/15/06 14:45	BET	87-86-5		
Phenanthrene	ND	ug/l	10.	2.1	11/15/06 14:45	BET	85-01-8		
Phenol	ND	ug/l	10.	1.5	11/15/06 14:45	BET	108-95-2		
Pyrene	ND	ug/l	10.	2.0	11/15/06 14:45	BET	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/l	10.	2.2	11/15/06 14:45	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/l	50.	2.6	11/15/06 14:45	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/l	10.	2.0	11/15/06 14:45	BET	88-06-2		
Nitrobenzene-d5 (S)	71	%			11/15/06 14:45	BET	4165-60-0		
2-Fluorobiphenyl (S)	86	%			11/15/06 14:45	BET	321-60-8		
Terphenyl-d14 (S)	99	%			11/15/06 14:45	BET	1718-51-0		
Phenol-d5 (S)	16	%			11/15/06 14:45	BET	4165-62-2		
2-Fluorophenol (S)	59	%			11/15/06 14:45	BET	367-12-4		
2,4,6-Tribromophenol (S)	72	%			11/15/06 14:45	BET	118-79-6		
Date Extracted	11/12/06				11/12/06				

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669168
Client Sample ID: DW-1

Project Sample Number: 92131947-011
Matrix: Water

Date Collected: 11/09/06 14:37
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles									
GC/MS VOCs by 8260, low level	Method: EPA 8260								
Acetone	ND	ug/l	25.	1.8	11/17/06 18:20	MSF	67-64-1		
Benzene	ND	ug/l	1.0	0.31	11/17/06 18:20	MSF	71-43-2		
Bromobenzene	ND	ug/l	1.0	0.16	11/17/06 18:20	MSF	108-86-1		
Bromochloromethane	ND	ug/l	1.0	0.37	11/17/06 18:20	MSF	74-97-5		
Bromodichloromethane	ND	ug/l	1.0	0.21	11/17/06 18:20	MSF	75-27-4		
Bromoform	ND	ug/l	1.0	0.17	11/17/06 18:20	MSF	75-25-2		
Bromomethane	ND	ug/l	1.0	0.51	11/17/06 18:20	MSF	74-83-9		
2-Butanone (MEK)	ND	ug/l	5.0	1.2	11/17/06 18:20	MSF	78-93-3		
n-Butylbenzene	ND	ug/l	1.0	0.20	11/17/06 18:20	MSF	104-51-8		
sec-Butylbenzene	ND	ug/l	1.0	0.20	11/17/06 18:20	MSF	135-98-8		
tert-Butylbenzene	ND	ug/l	1.0	0.17	11/17/06 18:20	MSF	98-06-6		
Carbon tetrachloride	ND	ug/l	1.0	0.27	11/17/06 18:20	MSF	56-23-5		
Chlorobenzene	ND	ug/l	1.0	0.15	11/17/06 18:20	MSF	108-90-7		
Chloroethane	ND	ug/l	1.0	0.78	11/17/06 18:20	MSF	75-00-3		
Chloroform	0.52	J ug/l	1.0	0.29	11/17/06 18:20	MSF	67-66-3		
Chloromethane	ND	ug/l	1.0	0.78	11/17/06 18:20	MSF	74-87-3		
2-Chlorotoluene	ND	ug/l	1.0	0.16	11/17/06 18:20	MSF	95-49-8		
4-Chlorotoluene	ND	ug/l	1.0	0.20	11/17/06 18:20	MSF	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0	0.39	11/17/06 18:20	MSF	96-12-8		
Dibromochloromethane	ND	ug/l	1.0	0.17	11/17/06 18:20	MSF	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	1.0	0.15	11/17/06 18:20	MSF	106-93-4		
Dibromomethane	ND	ug/l	1.0	0.27	11/17/06 18:20	MSF	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	1.0	0.14	11/17/06 18:20	MSF	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	1.0	0.16	11/17/06 18:20	MSF	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	1.0	0.17	11/17/06 18:20	MSF	106-46-7		
Dichlorodifluoromethane	ND	ug/l	1.0	0.59	11/17/06 18:20	MSF	75-71-8		
1,1-Dichloroethane	ND	ug/l	1.0	0.42	11/17/06 18:20	MSF	75-34-3		
1,2-Dichloroethane	ND	ug/l	1.0	0.18	11/17/06 18:20	MSF	107-06-2		
1,2-Dichloroethene (Total)	ND	ug/l	1.0		11/17/06 18:20	MSF	540-59-0		
1,1-Dichloroethene	ND	ug/l	1.0	0.39	11/17/06 18:20	MSF	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	1.0	0.33	11/17/06 18:20	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	0.44	11/17/06 18:20	MSF	156-60-5		
1,2-Dichloropropane	ND	ug/l	1.0	0.20	11/17/06 18:20	MSF	78-87-5		
1,3-Dichloropropane	ND	ug/l	1.0	0.11	11/17/06 18:20	MSF	142-28-9		
2,2-Dichloropropane	ND	ug/l	1.0	0.44	11/17/06 18:20	MSF	594-20-7		
1,1-Dichloropropene	ND	ug/l	1.0	0.26	11/17/06 18:20	MSF	563-58-6		
Diisopropyl ether	ND	ug/l	1.0	0.25	11/17/06 18:20	MSF	108-20-3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

Lab Sample No: 927669168
Client Sample ID: DW-1

Project Sample Number: 92131947-011
Matrix: Water

Date Collected: 11/09/06 14:37
Date Received: 11/10/06 17:20

Parameters	Results	Units	Report Limit	MDL	Analyzed	By	CAS No.	Qual	RegLmt
Ethylbenzene	ND	ug/l	1.0	0.17	11/17/06 18:20	MSF	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/l	1.0	0.32	11/17/06 18:20	MSF	87-68-3		
Isopropylbenzene (Cumene)	ND	ug/l	1.0	0.16	11/17/06 18:20	MSF	98-82-8		
p-Isopropyltoluene	ND	ug/l	1.0	0.20	11/17/06 18:20	MSF	99-87-6		
Methylene chloride	ND	ug/l	2.0	0.46	11/17/06 18:20	MSF	75-09-2		
Methyl-tert-butyl ether	ND	ug/l	1.0	0.22	11/17/06 18:20	MSF	1634-04-4		
Naphthalene	ND	ug/l	1.0	0.22	11/17/06 18:20	MSF	91-20-3		
n-Propylbenzene	ND	ug/l	1.0	0.20	11/17/06 18:20	MSF	103-65-1		
Styrene	ND	ug/l	1.0	0.15	11/17/06 18:20	MSF	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0	0.25	11/17/06 18:20	MSF	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	0.24	11/17/06 18:20	MSF	79-34-5		
Tetrachloroethene	6.3	ug/l	1.0	0.16	11/17/06 18:20	MSF	127-18-4		
Toluene	0.25	J ug/l	1.0	0.24	11/17/06 18:20	MSF	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/l	1.0	0.18	11/17/06 18:20	MSF	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/l	1.0	0.20	11/17/06 18:20	MSF	120-82-1		
1,1,1-Trichloroethane	ND	ug/l	1.0	0.35	11/17/06 18:20	MSF	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	1.0	0.16	11/17/06 18:20	MSF	79-00-5		
Trichloroethene	ND	ug/l	1.0	0.26	11/17/06 18:20	MSF	79-01-6		
Trichlorofluoromethane	ND	ug/l	1.0	0.41	11/17/06 18:20	MSF	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	1.0	0.22	11/17/06 18:20	MSF	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/l	1.0	0.15	11/17/06 18:20	MSF	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/l	1.0	0.21	11/17/06 18:20	MSF	108-67-8		
Vinyl chloride	ND	ug/l	1.0	0.58	11/17/06 18:20	MSF	75-01-4		
Xylene (Total)	ND	ug/l	2.0		11/17/06 18:20	MSF	1330-20-7		
m&p-Xylene	ND	ug/l	2.0	0.39	11/17/06 18:20	MSF			
o-Xylene	ND	ug/l	1.0	0.17	11/17/06 18:20	MSF	95-47-6		
Toluene-d8 (S)	100	%			11/17/06 18:20	MSF	2037-26-5		
4-Bromofluorobenzene (S)	100	%			11/17/06 18:20	MSF	460-00-4		
Dibromofluoromethane (S)	103	%			11/17/06 18:20	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%			11/17/06 18:20	MSF	17060-07-0		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate
[1]	Sample was diluted due to insufficent sample available for reanalysis resulting in elevated reporting limits.
[2]	Surrogate standards were not recovered due to sample dilution.

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QC Batch: 172697 — Analysis Method: EPA 8015
QC Batch Method: EPA 3545 — Analysis Description: TPH in Soil by 3545/8015
Associated Lab Samples: 927669044 927669051 927669069 927669077 927669085

METHOD BLANK: 927670059
Associated Lab Samples: 927669044 927669051 927669069 927669077 927669085

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Fuel	mg/kg	5.3	5.0	
n-Pentacosane (S)	%	81		

LABORATORY CONTROL SAMPLE: 927670067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Diesel Fuel	mg/kg	166.70	101.5	61	50-137	
n-Pentacosane (S)				77	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927670075 927670083

Parameter	Units	927654194 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Diesel Fuel	mg/kg	111.2	197.40	278.4	323.3	85	107	50-136	15		
n-Pentacosane (S)						196	264	50-150			1,1

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QC Batch: 172737
QC Batch Method: EPA 3545
Analysis Method: EPA 8015
Analysis Description: TPH in Soil by 3545/8015
Associated Lab Samples: 927669093 927669119 927669127 927669135 927669143

METHOD BLANK: 927671396
Associated Lab Samples: 927669093 927669119 927669127 927669135 927669143

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Diesel Fuel	mg/kg	ND	5.0	
n-Pentacosane (S)	%	77		

LABORATORY CONTROL SAMPLE: 927671404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Diesel Fuel	mg/kg	166.70	94.95	57	50-137	
n-Pentacosane (S)				70	50-150	

LABORATORY CONTROL SAMPLE: 927674788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Diesel Fuel	mg/kg	166.70	119.4	72	50-137	
n-Pentacosane (S)				104	50-150	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QC Batch: 172734
QC Batch Method: EPA 8015
Analysis Method: EPA 8015
Analysis Description: GAS, Soil, North Carolina
Associated Lab Samples: 927669044 927669051 927669069 927669077 927669085 927669093 927669119 927669127 927669135 927669143

METHOD BLANK: 927671230
Associated Lab Samples: 927669044 927669051 927669069 927669077 927669085 927669093 927669119 927669127 927669135 927669143

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Gasoline	mg/kg	ND	5.0	
4-Bromofluorobenzene (S)	%	75		

LABORATORY CONTROL SAMPLE: 927671248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Gasoline	mg/kg	25.00	32.53	130	51-150	
4-Bromofluorobenzene (S)				79	50-134	

MATRIX SPIKE: 927671263

Parameter	Units	927669747 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Footnotes
Gasoline	mg/kg	1.060	21.96	27.50	120	50-148	
4-Bromofluorobenzene (S)					79	50-134	

SAMPLE DUPLICATE: 927671255

Parameter	Units	927669739 Result	DUP Result	RPD	Max RPD	Footnotes
Gasoline	mg/kg	ND	ND	NC	30	
4-Bromofluorobenzene (S)	%	75	83			

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QC Batch: 172699
QC Batch Method: EPA 3510
Associated Lab Samples: 927669168

Analysis Method: EPA 8270
Analysis Description: Semivolatile Organics

METHOD BLANK: 927670133
Associated Lab Samples: 927669168

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acenaphthene	ug/l	ND	10.	
Acenaphthylene	ug/l	ND	10.	
Aniline	ug/l	ND	10.	
Anthracene	ug/l	ND	10.	
Benzo(k)fluoranthene	ug/l	ND	10.	
Benzo(b)fluoranthene	ug/l	ND	10.	
Benzo(a)anthracene	ug/l	ND	10.	
Benzoic acid	ug/l	ND	50.	
Benzo(g,h,i)perylene	ug/l	ND	10.	
Benzyl alcohol	ug/l	ND	20.	
Benzo(a)pyrene	ug/l	ND	10.	
4-Bromophenylphenyl ether	ug/l	ND	10.	
Butylbenzylphthalate	ug/l	ND	10.	
4-Chloro-3-methylphenol	ug/l	ND	20.	
4-Chloroaniline	ug/l	ND	20.	
bis(2-Chloroethoxy)methane	ug/l	ND	10.	
bis(2-Chloroethyl) ether	ug/l	ND	10.	
bis(2-Chloroisopropyl) ether	ug/l	ND	10.	
2-Chloronaphthalene	ug/l	ND	10.	
2-Chlorophenol	ug/l	ND	10.	
4-Chlorophenylphenyl ether	ug/l	ND	10.	
Chrysene	ug/l	ND	10.	
Dibenz(a,h)anthracene	ug/l	ND	10.	
Dibenzofuran	ug/l	ND	10.	
1,2-Dichlorobenzene	ug/l	ND	10.	
1,3-Dichlorobenzene	ug/l	ND	10.	
1,4-Dichlorobenzene	ug/l	ND	10.	
3,3'-Dichlorobenzidine	ug/l	ND	20.	
2,4-Dichlorophenol	ug/l	ND	10.	
Diethylphthalate	ug/l	ND	10.	
2,4-Dimethylphenol	ug/l	ND	10.	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

METHOD BLANK: 927670133
Associated Lab Samples: 927669168

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Dimethylphthalate	ug/l	ND	10.	
Di-n-butylphthalate	ug/l	ND	10.	
4,6-Dinitro-2-methylphenol	ug/l	ND	50.	
2,4-Dinitrophenol	ug/l	ND	50.	
2,4-Dinitrotoluene	ug/l	ND	10.	
2,6-Dinitrotoluene	ug/l	ND	10.	
Di-n-octylphthalate	ug/l	ND	10.	
1,2-Diphenylhydrazine	ug/l	ND	20.	
bis(2-Ethylhexyl)phthalate	ug/l	ND	10.	
Fluoranthene	ug/l	ND	10.	
Fluorene	ug/l	ND	10.	
Hexachloro-1,3-butadiene	ug/l	ND	10.	
Hexachlorobenzene	ug/l	ND	10.	
Hexachlorocyclopentadiene	ug/l	ND	10.	
Hexachloroethane	ug/l	ND	10.	
Indeno(1,2,3-cd)pyrene	ug/l	ND	10.	
Isophorone	ug/l	ND	10.	
1-Methylnaphthalene	ug/l	ND	10.	
2-Methylnaphthalene	ug/l	ND	10.	
2-Methylphenol (o-Cresol)	ug/l	ND	10.	
3&4-Methylphenol	ug/l	ND	10.	
Naphthalene	ug/l	ND	10.	
2-Nitroaniline	ug/l	ND	50.	
3-Nitroaniline	ug/l	ND	50.	
4-Nitroaniline	ug/l	ND	50.	
Nitrobenzene	ug/l	ND	10.	
2-Nitrophenol	ug/l	ND	10.	
4-Nitrophenol	ug/l	ND	50.	
N-Nitrosodimethylamine	ug/l	ND	10.	
N-Nitroso-di-n-propylamine	ug/l	ND	10.	
N-Nitrosodiphenylamine	ug/l	ND	10.	
Pentachlorophenol	ug/l	ND	50.	
Phenanthrene	ug/l	ND	10.	
Phenol	ug/l	ND	10.	
Pyrene	ug/l	ND	10.	
1,2,4-Trichlorobenzene	ug/l	ND	10.	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

METHOD BLANK: 927670133
Associated Lab Samples: 927669168

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,4,5-Trichlorophenol	ug/l	ND	50.	
2,4,6-Trichlorophenol	ug/l	ND	10.	
Nitrobenzene-d5 (S)	%	60		
2-Fluorobiphenyl (S)	%	63		
Terphenyl-d14 (S)	%	74		
Phenol-d5 (S)	%	32		
2-Fluorophenol (S)	%	47		
2,4,6-Tribromophenol (S)	%	60		

LABORATORY CONTROL SAMPLE: 927670141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Acenaphthene	ug/l	50.00	36.54	73	37-125	
Acenaphthylene	ug/l	50.00	37.41	75	22-120	
Aniline	ug/l	50.00	26.13	52	24-125	
Anthracene	ug/l	50.00	37.94	76	39-116	
Benzo(k)fluoranthene	ug/l	50.00	34.62	69	33-126	
Benzo(b)fluoranthene	ug/l	50.00	29.92	60	39-116	
Benzo(a)anthracene	ug/l	50.00	37.29	75	41-115	
Benzoic acid	ug/l	50.00	6.163	12	10-125	
Benzo(g,h,i)perylene	ug/l	50.00	32.21	64	31-122	
Benzyl alcohol	ug/l	50.00	31.13	62	11-125	
Benzo(a)pyrene	ug/l	50.00	38.71	77	36-122	
4-Bromophenylphenyl ether	ug/l	50.00	35.42	71	38-118	
Butylbenzylphthalate	ug/l	50.00	37.56	75	22-118	
4-Chloro-3-methylphenol	ug/l	50.00	36.33	73	34-125	
4-Chloroaniline	ug/l	50.00	40.20	80	10-145	
bis(2-Chloroethoxy)methane	ug/l	50.00	32.98	66	29-112	
bis(2-Chloroethyl) ether	ug/l	50.00	24.74	50	30-125	
bis(2-Chloroisopropyl) ether	ug/l	50.00	28.21	56	26-125	
2-Chloronaphthalene	ug/l	50.00	35.21	70	30-125	
2-Chlorophenol	ug/l	50.00	20.77	42	30-125	
4-Chlorophenylphenyl ether	ug/l	50.00	37.72	75	39-125	
Chrysene	ug/l	50.00	37.72	75	41-114	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

LABORATORY CONTROL SAMPLE: 927670141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Dibenz(a,h)anthracene	ug/l	50.00	32.26	64	35-123	
Dibenzofuran	ug/l	50.00	36.99	74	36-125	
1,2-Dichlorobenzene	ug/l	50.00	22.63	45	27-125	
1,3-Dichlorobenzene	ug/l	50.00	22.02	44	26-125	
1,4-Dichlorobenzene	ug/l	50.00	20.95	42	17-125	
3,3'-Dichlorobenzidine	ug/l	100.00	29.65	30	20-170	
2,4-Dichlorophenol	ug/l	50.00	31.68	63	33-125	
Diethylphthalate	ug/l	50.00	39.12	78	24-121	
2,4-Dimethylphenol	ug/l	50.00	29.47	59	31-125	
Dimethylphthalate	ug/l	50.00	38.69	77	13-126	
Di-n-butylphthalate	ug/l	50.00	36.85	74	33-119	
4,6-Dinitro-2-methylphenol	ug/l	50.00	31.81	64	31-112	
2,4-Dinitrophenol	ug/l	50.00	25.33	51	10-113	
2,4-Dinitrotoluene	ug/l	50.00	39.02	78	24-118	
2,6-Dinitrotoluene	ug/l	50.00	38.92	78	39-125	
Di-n-octylphthalate	ug/l	50.00	38.47	77	30-114	
1,2-Diphenylhydrazine	ug/l	50.00	37.97	76	28-123	
bis(2-Ethylhexyl)phthalate	ug/l	50.00	38.32	77	39-125	
Fluoranthene	ug/l	50.00	36.27	72	36-117	
Fluorene	ug/l	50.00	38.70	77	40-125	
Hexachloro-1,3-butadiene	ug/l	50.00	21.14	42	18-125	
Hexachlorobenzene	ug/l	50.00	34.41	69	31-117	
Hexachlorocyclopentadiene	ug/l	50.00	45.04	90	12-125	
Hexachloroethane	ug/l	50.00	21.04	42	17-125	
Indeno(1,2,3-cd)pyrene	ug/l	50.00	31.54	63	37-116	
Isophorone	ug/l	50.00	44.49	89	32-125	
1-Methylnaphthalene	ug/l	50.00	31.82	64		
2-Methylnaphthalene	ug/l	50.00	30.38	61	31-125	
2-Methylphenol (o-Cresol)	ug/l	50.00	26.05	52	16-125	
3&4-Methylphenol	ug/l	50.00	26.60	53	13-125	
Naphthalene	ug/l	50.00	27.61	55	33-125	
2-Nitroaniline	ug/l	50.00	37.72	75	15-129	
3-Nitroaniline	ug/l	50.00	36.38	73	14-138	
4-Nitroaniline	ug/l	50.00	33.83	68	33-121	
Nitrobenzene	ug/l	50.00	31.05	62	22-110	
2-Nitrophenol	ug/l	50.00	29.86	60	37-125	
4-Nitrophenol	ug/l	50.00	35.63	71	10-125	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

LABORATORY CONTROL SAMPLE: 927670141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
N-Nitrosodimethylamine	ug/l	50.00	21.50	43	10-125	
N-Nitroso-di-n-propylamine	ug/l	50.00	34.16	68	32-125	
N-Nitrosodiphenylamine	ug/l	50.00	33.92	68	31-123	
Pentachlorophenol	ug/l	50.00	45.93	92	18-123	
Phenanthrene	ug/l	50.00	37.46	75	40-113	
Phenol	ug/l	50.00	16.11	32	10-125	
Pyrene	ug/l	50.00	39.11	78	43-125	
1,2,4-Trichlorobenzene	ug/l	50.00	24.57	49	27-125	
2,4,5-Trichlorophenol	ug/l	50.00	36.62	73	23-118	
2,4,6-Trichlorophenol	ug/l	50.00	38.90	78	25-117	
Nitrobenzene-d5 (S)				56	23-125	
2-Fluorobiphenyl (S)				67	24-125	
Terphenyl-d14 (S)				71	10-125	
Phenol-d5 (S)				30	10-125	
2-Fluorophenol (S)				36	10-125	
2,4,6-Tribromophenol (S)				65	21-112	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QC Batch: 173252
QC Batch Method: EPA 8260
Associated Lab Samples: 927669168

Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260, low level

METHOD BLANK: 927694646
Associated Lab Samples: 927669168

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Benzene	ug/l	ND	1.0	
Bromobenzene	ug/l	ND	1.0	
Bromochloromethane	ug/l	ND	1.0	
Bromodichloromethane	ug/l	ND	1.0	
Bromoform	ug/l	ND	1.0	
Bromomethane	ug/l	ND	1.0	
2-Butanone (MEK)	ug/l	ND	5.0	
n-Butylbenzene	ug/l	ND	1.0	
sec-Butylbenzene	ug/l	ND	1.0	
tert-Butylbenzene	ug/l	ND	1.0	
Carbon tetrachloride	ug/l	ND	1.0	
Chlorobenzene	ug/l	ND	1.0	
Chloroethane	ug/l	ND	1.0	
Chloroform	ug/l	ND	1.0	
Chloromethane	ug/l	ND	1.0	
2-Chlorotoluene	ug/l	ND	1.0	
4-Chlorotoluene	ug/l	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	1.0	
Dibromochloromethane	ug/l	ND	1.0	
1,2-Dibromoethane (EDB)	ug/l	ND	1.0	
Dibromomethane	ug/l	ND	1.0	
1,2-Dichlorobenzene	ug/l	ND	1.0	
1,3-Dichlorobenzene	ug/l	ND	1.0	
1,4-Dichlorobenzene	ug/l	ND	1.0	
Dichlorodifluoromethane	ug/l	ND	1.0	
1,1-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethane	ug/l	ND	1.0	
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
1,1-Dichloroethene	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

METHOD BLANK: 927694646
Associated Lab Samples: 927669168

Parameter	Units	Blank Result	Reporting Limit	Footnotes
trans-1,2-Dichloroethene	ug/l	ND	1.0	
1,2-Dichloropropane	ug/l	ND	1.0	
1,3-Dichloropropane	ug/l	ND	1.0	
2,2-Dichloropropane	ug/l	ND	1.0	
1,1-Dichloropropene	ug/l	ND	1.0	
Diisopropyl ether	ug/l	ND	1.0	
Ethylbenzene	ug/l	ND	1.0	
Hexachloro-1,3-butadiene	ug/l	ND	1.0	
Isopropylbenzene (Cumene)	ug/l	ND	1.0	
p-Isopropyltoluene	ug/l	ND	1.0	
Methylene chloride	ug/l	ND	2.0	
Methyl-tert-butyl ether	ug/l	ND	1.0	
Naphthalene	ug/l	ND	1.0	
n-Propylbenzene	ug/l	ND	1.0	
Styrene	ug/l	ND	1.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Toluene	ug/l	ND	1.0	
1,2,3-Trichlorobenzene	ug/l	ND	1.0	
1,2,4-Trichlorobenzene	ug/l	ND	1.0	
1,1,1-Trichloroethane	ug/l	ND	1.0	
1,1,2-Trichloroethane	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Trichlorofluoromethane	ug/l	ND	1.0	
1,2,3-Trichloropropane	ug/l	ND	1.0	
1,2,4-Trimethylbenzene	ug/l	ND	1.0	
1,3,5-Trimethylbenzene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Xylene (Total)	ug/l	ND	2.0	
m&p-Xylene	ug/l	ND	2.0	
o-Xylene	ug/l	ND	1.0	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	101		
Dibromofluoromethane (S)	%	102		
1,2-Dichloroethane-d4 (S)	%	102		

Date: 11/27/06

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

LABORATORY CONTROL SAMPLE: 927694653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Acetone	ug/l	100.00	92.95	93	50-150	
Benzene	ug/l	50.00	55.73	111	66-123	
Bromobenzene	ug/l	50.00	53.36	107	62-125	
Bromochloromethane	ug/l	50.00	52.00	104	64-125	
Bromodichloromethane	ug/l	50.00	55.26	111	66-126	
Bromoform	ug/l	50.00	47.53	95	50-132	
Bromomethane	ug/l	50.00	68.13	136	50-150	
2-Butanone (MEK)	ug/l	100.00	105.8	106	51-135	
n-Butylbenzene	ug/l	50.00	51.07	102	56-132	
sec-Butylbenzene	ug/l	50.00	55.41	111	59-132	
tert-Butylbenzene	ug/l	50.00	54.82	110	54-135	
Carbon tetrachloride	ug/l	50.00	55.25	111	65-134	
Chlorobenzene	ug/l	50.00	55.08	110	66-123	
Chloroethane	ug/l	50.00	55.37	111	52-146	
Chloroform	ug/l	50.00	56.14	112	64-128	
Chloromethane	ug/l	50.00	58.60	117	25-127	
2-Chlorotoluene	ug/l	50.00	52.86	106	63-126	
4-Chlorotoluene	ug/l	50.00	53.89	108	63-124	
1,2-Dibromo-3-chloropropane	ug/l	50.00	45.61	91	56-125	
Dibromochloromethane	ug/l	50.00	49.18	98	57-131	
1,2-Dibromoethane (EDB)	ug/l	50.00	57.20	114	64-123	
Dibromomethane	ug/l	50.00	55.75	112	64-122	
1,2-Dichlorobenzene	ug/l	50.00	53.67	107	63-123	
1,3-Dichlorobenzene	ug/l	50.00	53.35	107	63-125	
1,4-Dichlorobenzene	ug/l	50.00	52.40	105	62-123	
Dichlorodifluoromethane	ug/l	50.00	59.62	119	50-138	
1,1-Dichloroethane	ug/l	50.00	57.31	115	64-132	
1,2-Dichloroethane	ug/l	50.00	51.80	104	62-123	
1,2-Dichloroethene (Total)	ug/l	100.00	120.0	120		
1,1-Dichloroethene	ug/l	50.00	64.41	129	62-139	
cis-1,2-Dichloroethene	ug/l	50.00	58.58	117	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	61.42	123	67-134	
1,2-Dichloropropane	ug/l	50.00	57.92	116	66-124	
1,3-Dichloropropane	ug/l	50.00	54.13	108	65-122	
2,2-Dichloropropane	ug/l	50.00	52.55	105	50-143	
1,1-Dichloropropene	ug/l	50.00	57.25	114	66-133	
Diisopropyl ether	ug/l	50.00	54.46	109	56-131	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

LABORATORY CONTROL SAMPLE: 927694653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Ethylbenzene	ug/l	50.00	53.78	108	68-126	
Hexachloro-1,3-butadiene	ug/l	50.00	54.29	109	50-150	
Isopropylbenzene (Cumene)	ug/l	50.00	57.12	114	63-132	
p-Isopropyltoluene	ug/l	50.00	51.09	102	58-130	
Methylene chloride	ug/l	50.00	50.88	102	54-132	
Methyl-tert-butyl ether	ug/l	50.00	52.17	104	53-128	
Naphthalene	ug/l	50.00	40.81	82	50-131	
n-Propylbenzene	ug/l	50.00	54.70	109	63-130	
Styrene	ug/l	50.00	59.28	119	65-127	
1,1,1,2-Tetrachloroethane	ug/l	50.00	56.62	113	65-125	
1,1,2,2-Tetrachloroethane	ug/l	50.00	54.91	110	58-124	
Tetrachloroethene	ug/l	50.00	55.77	112	50-150	
Toluene	ug/l	50.00	52.48	105	66-125	
1,2,3-Trichlorobenzene	ug/l	50.00	56.10	112	50-132	
1,2,4-Trichlorobenzene	ug/l	50.00	56.56	113	50-132	
1,1,1-Trichloroethane	ug/l	50.00	58.12	116	65-133	
1,1,2-Trichloroethane	ug/l	50.00	52.57	105	64-122	
Trichloroethene	ug/l	50.00	55.86	112	63-134	
Trichlorofluoromethane	ug/l	50.00	61.37	123	54-135	
1,2,3-Trichloropropane	ug/l	50.00	52.44	105	63-124	
1,2,4-Trimethylbenzene	ug/l	50.00	49.61	99	60-128	
1,3,5-Trimethylbenzene	ug/l	50.00	49.46	99	61-128	
Vinyl chloride	ug/l	50.00	54.71	109	50-130	
Xylene (Total)	ug/l	150.00	164.9	110		
m&p-Xylene	ug/l	100.00	110.1	110	66-126	
o-Xylene	ug/l	50.00	54.76	110	65-126	
Toluene-d8 (S)				101	70-120	
4-Bromofluorobenzene (S)				104	76-112	
Dibromofluoromethane (S)				99	86-119	
1,2-Dichloroethane-d4 (S)				108	79-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927695619 927695627

Parameter	Units	927689315 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	50.00	55.91	58.38	112	117	53-134	4		

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927695619 927695627

Parameter	Units	927689315 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Chlorobenzene	ug/l	0	50.00	54.50	53.70	109	107	53-133	1		
1,1-Dichloroethene	ug/l	0	50.00	57.88	56.48	116	113	50-146	2		
Toluene	ug/l	0.1190	50.00	55.23	62.98	110	126	51-133	13		
Trichloroethene	ug/l	0	50.00	52.96	51.89	106	104	55-138	2		
Toluene-d8 (S)						100	100	70-120			
4-Bromofluorobenzene (S)						103	102	76-112			
Dibromofluoromethane (S)						102	101	86-119			
1,2-Dichloroethane-d4 (S)						102	102	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QC Batch: 173373 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs 5035/8260 low level
Associated Lab Samples: 927669044 927669051 927669077

METHOD BLANK: 927701557
Associated Lab Samples: 927669044 927669051 927669077

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/kg	ND	100	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	10.	
2-Butanone (MEK)	ug/kg	ND	100	
n-Butylbenzene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	10.	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	10.	
2-Chlorotoluene	ug/kg	ND	5.0	
4-Chlorotoluene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
Dibromomethane	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	10.	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

METHOD BLANK: 927701557
Associated Lab Samples: 927669044 927669051 927669077

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	50.	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl acetate	ug/kg	ND	50.	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	10.	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

METHOD BLANK: 927701557
Associated Lab Samples: 927669044 927669051 927669077

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Toluene-d8 (S)	%	106		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	115		
1,2-Dichloroethane-d4 (S)	%	110		

LABORATORY CONTROL SAMPLE: 927701565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Acetone	ug/kg	100.00	125.9	126	50-150	
Benzene	ug/kg	50.00	49.20	98	69-133	
Bromobenzene	ug/kg	50.00	51.19	102	72-130	
Bromochloromethane	ug/kg	50.00	47.75	96	73-133	
Bromodichloromethane	ug/kg	50.00	60.88	122	76-133	
Bromoform	ug/kg	50.00	47.52	95	80-132	
Bromomethane	ug/kg	50.00	68.66	137	50-150	
2-Butanone (MEK)	ug/kg	100.00	99.42	99	64-136	
n-Butylbenzene	ug/kg	50.00	42.85	86	62-139	
sec-Butylbenzene	ug/kg	50.00	52.14	104	68-135	
tert-Butylbenzene	ug/kg	50.00	53.41	107	68-139	
Carbon tetrachloride	ug/kg	50.00	53.62	107	64-145	
Chlorobenzene	ug/kg	50.00	52.81	106	71-136	
Chloroethane	ug/kg	50.00	72.92	146	50-150	
Chloroform	ug/kg	50.00	52.39	105	72-133	
Chloromethane	ug/kg	50.00	59.62	119	50-129	
2-Chlorotoluene	ug/kg	50.00	50.50	101	68-134	
4-Chlorotoluene	ug/kg	50.00	48.19	96	64-135	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	50.17	100	70-135	
Dibromochloromethane	ug/kg	50.00	56.18	112	74-137	
1,2-Dibromoethane (EDB)	ug/kg	50.00	56.06	112	78-130	
Dibromomethane	ug/kg	50.00	56.01	112	76-129	
1,2-Dichlorobenzene	ug/kg	50.00	50.68	101	67-136	
1,3-Dichlorobenzene	ug/kg	50.00	48.11	96	62-140	
1,4-Dichlorobenzene	ug/kg	50.00	47.59	95	61-139	
Dichlorodifluoromethane	ug/kg	50.00	65.38	131	50-126	2

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

LABORATORY CONTROL SAMPLE: 927701565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,1-Dichloroethane	ug/kg	50.00	54.90	110	64-145	
1,2-Dichloroethane	ug/kg	50.00	56.49	113	73-128	
1,1-Dichloroethene	ug/kg	50.00	68.90	138	50-150	
cis-1,2-Dichloroethene	ug/kg	50.00	56.39	113	71-137	
trans-1,2-Dichloroethene	ug/kg	50.00	59.42	119	62-149	
1,2-Dichloropropane	ug/kg	50.00	58.13	116	75-130	
1,3-Dichloropropane	ug/kg	50.00	54.97	110	78-127	
2,2-Dichloropropane	ug/kg	50.00	50.16	100	62-141	
1,1-Dichloropropene	ug/kg	50.00	52.22	104	67-137	
cis-1,3-Dichloropropene	ug/kg	50.00	58.94	118	76-130	
trans-1,3-Dichloropropene	ug/kg	50.00	57.87	116	72-130	
Diisopropyl ether	ug/kg	50.00	56.41	113	61-140	
Ethylbenzene	ug/kg	50.00	52.99	106	72-135	
Hexachloro-1,3-butadiene	ug/kg	50.00	53.72	107	57-147	
2-Hexanone	ug/kg	100.00	127.7	128	71-139	
Isopropylbenzene (Cumene)	ug/kg	50.00	50.81	102	69-140	
p-Isopropyltoluene	ug/kg	50.00	45.77	92	66-136	
Methylene chloride	ug/kg	50.00	61.39	123	50-150	
4-Methyl-2-pentanone (MIBK)	ug/kg	100.00	113.7	114	68-137	
Methyl-tert-butyl ether	ug/kg	50.00	53.42	107	56-142	
Naphthalene	ug/kg	50.00	43.33	87	57-148	
n-Propylbenzene	ug/kg	50.00	49.71	99	67-135	
Styrene	ug/kg	50.00	51.10	102	65-137	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	54.28	109	74-137	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	50.17	100	79-128	
Tetrachloroethene	ug/kg	50.00	54.27	109	67-139	
Toluene	ug/kg	50.00	56.91	114	68-133	
1,2,3-Trichlorobenzene	ug/kg	50.00	45.75	92	50-150	
1,2,4-Trichlorobenzene	ug/kg	50.00	43.53	87	50-150	
1,1,1-Trichloroethane	ug/kg	50.00	55.80	112	67-137	
1,1,2-Trichloroethane	ug/kg	50.00	56.37	113	75-129	
Trichloroethene	ug/kg	50.00	53.52	107	73-133	
Trichlorofluoromethane	ug/kg	50.00	62.69	125	34-143	
1,2,3-Trichloropropane	ug/kg	50.00	48.36	97	76-129	
1,2,4-Trimethylbenzene	ug/kg	50.00	45.61	91	67-135	
1,3,5-Trimethylbenzene	ug/kg	50.00	44.93	90	67-136	
Vinyl acetate	ug/kg	100.00	20.33	20	50-150	3

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

LABORATORY CONTROL SAMPLE: 927701565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Vinyl chloride	ug/kg	50.00	57.28	115	27-128	
m&p-Xylene	ug/kg	100.00	98.84	99	69-136	
o-Xylene	ug/kg	50.00	51.21	102	71-135	
Toluene-d8 (S)				107	82-114	
4-Bromofluorobenzene (S)				97	76-117	
Dibromofluoromethane (S)				101	75-127	
1,2-Dichloroethane-d4 (S)				103	65-142	

MATRIX SPIKE: 927702944

Parameter	Units	927669077 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Footnotes
Benzene	ug/kg	0	54.70	41.51	76	50-148	
Chlorobenzene	ug/kg	0	54.70	42.54	78	50-143	
1,1-Dichloroethene	ug/kg	0	54.70	52.21	95	50-150	
Toluene	ug/kg	0	54.70	46.93	86	50-145	
Trichloroethene	ug/kg	0	54.70	45.39	83	50-141	
Toluene-d8 (S)					109	82-114	
4-Bromofluorobenzene (S)					89	76-117	
Dibromofluoromethane (S)					99	75-127	
1,2-Dichloroethane-d4 (S)					106	65-142	

SAMPLE DUPLICATE: 927702951

Parameter	Units	927683722 Result	DUP Result	RPD	Max RPD	Footnotes
Acetone	ug/kg	19.00	17.00	0	30	
Benzene	ug/kg	ND	ND	NC	30	
Bromobenzene	ug/kg	ND	ND	NC	30	
Bromochloromethane	ug/kg	ND	ND	NC	30	
Bromodichloromethane	ug/kg	ND	ND	NC	30	
Bromoform	ug/kg	ND	ND	NC	30	
Bromomethane	ug/kg	ND	ND	NC	30	
2-Butanone (MEK)	ug/kg	ND	ND	NC	30	
n-Butylbenzene	ug/kg	ND	ND	NC	30	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

SAMPLE DUPLICATE: 927702951

Parameter	Units	927683722 Result	DUP Result	RPD	Max RPD	Footnotes
sec-Butylbenzene	ug/kg	ND	ND	NC	30	
tert-Butylbenzene	ug/kg	ND	ND	NC	30	
Carbon tetrachloride	ug/kg	ND	ND	NC	30	
Chlorobenzene	ug/kg	ND	ND	NC	30	
Chloroethane	ug/kg	ND	ND	NC	30	
Chloroform	ug/kg	ND	ND	NC	30	
Chloromethane	ug/kg	ND	ND	NC	30	
2-Chlorotoluene	ug/kg	ND	ND	NC	30	
4-Chlorotoluene	ug/kg	ND	ND	NC	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND	NC	30	
Dibromochloromethane	ug/kg	ND	ND	NC	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND	NC	30	
Dibromomethane	ug/kg	ND	ND	NC	30	
1,2-Dichlorobenzene	ug/kg	ND	ND	NC	30	
1,3-Dichlorobenzene	ug/kg	ND	ND	NC	30	
1,4-Dichlorobenzene	ug/kg	ND	ND	NC	30	
Dichlorodifluoromethane	ug/kg	ND	ND	NC	30	
1,1-Dichloroethane	ug/kg	ND	ND	NC	30	
1,2-Dichloroethane	ug/kg	ND	ND	NC	30	
1,1-Dichloroethene	ug/kg	ND	ND	NC	30	
cis-1,2-Dichloroethene	ug/kg	ND	ND	NC	30	
trans-1,2-Dichloroethene	ug/kg	ND	ND	NC	30	
1,2-Dichloropropane	ug/kg	ND	ND	NC	30	
1,3-Dichloropropane	ug/kg	ND	ND	NC	30	
2,2-Dichloropropane	ug/kg	ND	ND	NC	30	
1,1-Dichloropropene	ug/kg	ND	ND	NC	30	
cis-1,3-Dichloropropene	ug/kg	ND	ND	NC	30	
trans-1,3-Dichloropropene	ug/kg	ND	ND	NC	30	
Diisopropyl ether	ug/kg	ND	ND	NC	30	
Ethylbenzene	ug/kg	ND	ND	NC	30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND	NC	30	
2-Hexanone	ug/kg	ND	ND	NC	30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND	NC	30	
p-Isopropyltoluene	ug/kg	ND	ND	NC	30	
Methylene chloride	ug/kg	ND	ND	NC	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND	NC	30	
Methyl-tert-butyl ether	ug/kg	ND	ND	NC	30	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

SAMPLE DUPLICATE: 927702951

Parameter	Units	927683722 Result	DUP Result	RPD	Max RPD	Footnotes
Naphthalene	ug/kg	ND	ND	NC	30	
n-Propylbenzene	ug/kg	ND	ND	NC	30	
Styrene	ug/kg	ND	ND	NC	30	
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND	NC	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND	NC	30	
Tetrachloroethene	ug/kg	78.00	120.0	38	30	4
Toluene	ug/kg	ND	ND	NC	30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND	NC	30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND	NC	30	
1,1,1-Trichloroethane	ug/kg	ND	ND	NC	30	
1,1,2-Trichloroethane	ug/kg	ND	ND	NC	30	
Trichloroethene	ug/kg	ND	ND	NC	30	
Trichlorofluoromethane	ug/kg	ND	ND	NC	30	
1,2,3-Trichloropropane	ug/kg	ND	ND	NC	30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND	NC	30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND	NC	30	
Vinyl acetate	ug/kg	ND	ND	NC	30	
Vinyl chloride	ug/kg	ND	ND	NC	30	
Xylene (Total)	ug/kg	ND	ND	NC		
m&p-Xylene	ug/kg	ND	ND	NC	30	
o-Xylene	ug/kg	ND	ND	NC	30	
Toluene-d8 (S)	%	96	96			
4-Bromofluorobenzene (S)	%	87	91			
Dibromofluoromethane (S)	%	96	96			
1,2-Dichloroethane-d4 (S)	%	104	115			

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QC Batch: 173466 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs 5035/8260 low level
Associated Lab Samples: 927669069 927669085 927669093 927669119 927669127 927669135 927669143

METHOD BLANK: 927703538
Associated Lab Samples: 927669069 927669085 927669093 927669119 927669127 927669135 927669143

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/kg	ND	100	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	10.	
2-Butanone (MEK)	ug/kg	ND	100	
n-Butylbenzene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	10.	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	10.	
2-Chlorotoluene	ug/kg	ND	5.0	
4-Chlorotoluene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
Dibromomethane	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	10.	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

METHOD BLANK: 927703538
Associated Lab Samples: 927669069 927669085 927669093 927669119 927669127 927669135 927669143

Parameter	Units	Blank Result	Reporting Limit	Footnotes
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	50.	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl acetate	ug/kg	ND	50.	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	10.	
m&p-Xylene	ug/kg	ND	10.	

Date: 11/27/06

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

METHOD BLANK: 927703538
Associated Lab Samples: 927669069 927669085 927669093 927669119 927669127 927669135 927669143

Parameter	Units	Blank Result	Reporting Limit	Footnotes
o-Xylene	ug/kg	ND	5.0	
Toluene-d8 (S)	%	108		
4-Bromofluorobenzene (S)	%	99		
Dibromofluoromethane (S)	%	100		
1,2-Dichloroethane-d4 (S)	%	109		

LABORATORY CONTROL SAMPLE: 927703546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Acetone	ug/kg	100.00	116.5	116	50-150	
Benzene	ug/kg	50.00	60.86	122	69-133	
Bromobenzene	ug/kg	50.00	51.78	104	72-130	
Bromochloromethane	ug/kg	50.00	53.15	106	73-133	
Bromodichloromethane	ug/kg	50.00	59.96	120	76-133	
Bromoform	ug/kg	50.00	50.54	101	80-132	
Bromomethane	ug/kg	50.00	74.40	149	50-150	
2-Butanone (MEK)	ug/kg	100.00	108.9	109	64-136	
n-Butylbenzene	ug/kg	50.00	47.89	96	62-139	
sec-Butylbenzene	ug/kg	50.00	51.08	102	68-135	
tert-Butylbenzene	ug/kg	50.00	50.58	101	68-139	
Carbon tetrachloride	ug/kg	50.00	66.66	133	64-145	
Chlorobenzene	ug/kg	50.00	52.89	106	71-136	
Chloroethane	ug/kg	50.00	73.08	146	50-150	
Chloroform	ug/kg	50.00	53.09	106	72-133	
Chloromethane	ug/kg	50.00	50.50	101	50-129	
2-Chlorotoluene	ug/kg	50.00	49.27	98	68-134	
4-Chlorotoluene	ug/kg	50.00	50.65	101	64-135	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	55.53	111	70-135	
Dibromochloromethane	ug/kg	50.00	54.98	110	74-137	
1,2-Dibromoethane (EDB)	ug/kg	50.00	54.79	110	78-130	
Dibromomethane	ug/kg	50.00	56.62	113	76-129	
1,2-Dichlorobenzene	ug/kg	50.00	52.90	106	67-136	
1,3-Dichlorobenzene	ug/kg	50.00	49.96	100	62-140	
1,4-Dichlorobenzene	ug/kg	50.00	51.74	103	61-139	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

LABORATORY CONTROL SAMPLE: 927703546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Dichlorodifluoromethane	ug/kg	50.00	53.93	108	50-126	
1,1-Dichloroethane	ug/kg	50.00	54.51	109	64-145	
1,2-Dichloroethane	ug/kg	50.00	56.75	113	73-128	
1,1-Dichloroethene	ug/kg	50.00	65.59	131	50-150	
cis-1,2-Dichloroethene	ug/kg	50.00	54.21	108	71-137	
trans-1,2-Dichloroethene	ug/kg	50.00	57.62	115	62-149	
1,2-Dichloropropane	ug/kg	50.00	58.01	116	75-130	
1,3-Dichloropropane	ug/kg	50.00	52.33	105	78-127	
2,2-Dichloropropane	ug/kg	50.00	53.40	107	62-141	
1,1-Dichloropropene	ug/kg	50.00	54.51	109	67-137	
cis-1,3-Dichloropropene	ug/kg	50.00	60.28	121	76-130	
trans-1,3-Dichloropropene	ug/kg	50.00	63.21	126	72-130	
Diisopropyl ether	ug/kg	50.00	53.84	108	61-140	
Ethylbenzene	ug/kg	50.00	51.56	103	72-135	
Hexachloro-1,3-butadiene	ug/kg	50.00	56.16	112	57-147	
2-Hexanone	ug/kg	100.00	105.8	106	71-139	
Isopropylbenzene (Cumene)	ug/kg	50.00	52.38	105	69-140	
p-Isopropyltoluene	ug/kg	50.00	46.66	93	66-136	
Methylene chloride	ug/kg	50.00	54.63	109	50-150	
4-Methyl-2-pentanone (MIBK)	ug/kg	100.00	119.4	119	68-137	
Methyl-tert-butyl ether	ug/kg	50.00	52.05	104	56-142	
Naphthalene	ug/kg	50.00	47.31	95	57-148	
n-Propylbenzene	ug/kg	50.00	50.61	101	67-135	
Styrene	ug/kg	50.00	56.86	114	65-137	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	50.17	100	74-137	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	51.36	103	79-128	
Tetrachloroethene	ug/kg	50.00	52.21	104	67-139	
Toluene	ug/kg	50.00	56.91	114	68-133	
1,2,3-Trichlorobenzene	ug/kg	50.00	52.74	105	50-150	
1,2,4-Trichlorobenzene	ug/kg	50.00	53.32	107	50-150	
1,1,1-Trichloroethane	ug/kg	50.00	56.91	114	67-137	
1,1,2-Trichloroethane	ug/kg	50.00	58.14	116	75-129	
Trichloroethene	ug/kg	50.00	54.16	108	73-133	
Trichlorofluoromethane	ug/kg	50.00	60.06	120	34-143	
1,2,3-Trichloropropane	ug/kg	50.00	55.19	110	76-129	
1,2,4-Trimethylbenzene	ug/kg	50.00	45.37	91	67-135	
1,3,5-Trimethylbenzene	ug/kg	50.00	45.02	90	67-136	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

LABORATORY CONTROL SAMPLE: 927703546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Vinyl acetate	ug/kg	100.00	104.3	104	50-150	
Vinyl chloride	ug/kg	50.00	51.62	103	27-128	
m&p-Xylene	ug/kg	100.00	101.7	102	69-136	
o-Xylene	ug/kg	50.00	52.47	105	71-135	
Toluene-d8 (S)				113	82-114	
4-Bromofluorobenzene (S)				102	76-117	
Dibromofluoromethane (S)				108	75-127	
1,2-Dichloroethane-d4 (S)				109	65-142	

MATRIX SPIKE: 927706283

Parameter	Units	927669093 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Footnotes
Benzene	ug/kg	0	56.68	52.20	92	50-148	
Chlorobenzene	ug/kg	0	56.68	54.52	96	50-143	
1,1-Dichloroethene	ug/kg	0	56.68	49.56	87	50-150	
Toluene	ug/kg	0	56.68	51.94	92	50-145	
Trichloroethene	ug/kg	0	56.68	51.98	92	50-141	
Toluene-d8 (S)					97	82-114	
4-Bromofluorobenzene (S)					100	76-117	
Dibromofluoromethane (S)					101	75-127	
1,2-Dichloroethane-d4 (S)					90	65-142	

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QUALITY CONTROL DATA

Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QC Batch: 172665 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 927669044 927669051 927669069 927669077 927669085 927669093 927669119 927669127 927669135 927669143

SAMPLE DUPLICATE: 927669218

Parameter	Units	927663021 Result	DUP Result	RPD	RPD	Footnotes
Percent Moisture	%	9.700	9.400	3		

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Lab Project Number: 92131947
Client Project ID: NCDOT 35007.1.1 Levy

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The surrogate recovery was outside QC acceptance limits due to matrix interference.
[2]	Recovery falls outside of QC limits, however, this compound is not found in the associated samples.
[3]	The method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
[4]	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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Company: Tetra Tech	Report To: Jim Stewart	Attention: Jim Stewart
Address: 312 Centennial Blvd Ste	Copy To:	Company Name: same
Lawrenceville NC 27607		Address:
Email To: jim.stewart@tetratech.com	Purchase Order No.:	Pace Quote Reference:
Phone: 919-873-2093 Fax: 336-292-1862	Project Name: NCDOT - Lenoy	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 375-06-007	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ Other NC DOT

SITE LOCATION ☐GA ☐IL ☐IN ☐MI ☐MN ☒NC ☐OH ☐SC ☐WI ☐OTHER _____

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis 1	Analysis 2	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	SS-1-4	SL	G			11/9/06	1240		8	X						X		X	X		927669044
2	SS-2-4						1412											X	X		9051
3	SS-3-4						1454											X	X		9069
4	SS-4-4						1541											X	X		9077
5	SS-5-4					11/9/06	1341											X	X		9085
6	SS-5-4						1346											X	X		9093
7	SS-6-4						1423											X	X		9119
8	SS-7-4						1504											X	X		9127
9	SS-8-4						1546											X	X		9135
10	SS-9-4						1606											X	X		9143
11	DW-1	WT	G				1437		5										X	X	9168
12																					

Filtered (Y/N): Drolbear 11/9/06

Requested Analysis:

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
[illegible] / Tetra Tech	11/9	1705	[illegible]	11/9/06	1705			Y/N	Y/N	Y/N
[illegible]	11/9/06	1720	[illegible]	11/9/06	1720	1.7		Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible]

SIGNATURE of SAMPLER: [illegible] DATE Signed (MM / DD / YY): 11/9/06

SEE REVERSE SIDE FOR INSTRUCTIONS

ALLQ020rev.3,31Mar05