546SERBSF10,632

546SERBSF10,632

Site Name (Subject):	TOM SADLER ROAD WELLS
Site ID (Document ID):	NCD986231967
Document Name (DocType):	Preliminary Assessment/Site Inspection (PA/SI)
Report Segment:	
Description:	Site Inspection
Date of Document:	7/15/1996
Date Received:	
Box: *Enter SF and # with no spaces*	SF10,632
Access Level:	PUBLIC
Division:	WASTE MANAGEMENT
Section:	SUPERFUND
Program (Document Group):	SERB (SERB)
Document Category:	FACILITY

Print Report for Record | Go to New Blank Record | Go to New Record - (default to last record values) | Delete Record

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director

DEHNR

July 15, 1996

Ms. Cindy Gurley
NC CERCLA Project Officer
US EPA Region IV Waste Division
345 Courtland Street, NE, 6th floor
Atlanta, GA 30365

RE: Tom Sadler Road Wells
NCD 986 231 967
Charlotte, Mecklenburg County, NC
Site Inspection

Dear Ms. Gurley:

Enclosed are the findings of the Site Inspection for the Tom Sadler Road Wells site (NCD 986 231 967), Charlotte, Mecklenburg County, NC. The Tom Sadler Road Wells site is an auto garage at 2128 Tom Sadler Road operated by Mr. Garland Mingus for 30 years. In 1993, the onsite well serving three people (2 residences) was sampled and high levels of chlorinated solents were detected. The well is no longer used for drinking water and the residences have connected to city water. Mr. Mingus closed the garage facility in 1994. During the 1996 Site Inspection, a four-point surface soil sample was collected in the drum storage area on site and 3,100 ppm lead, other metals and a trace of a chlorinated solvent were detected. The drum storage area is about 600 square feet. Lead was also detected in the on-site well. Based on these results, the NC Superfund Section contacted the US EPA ERRB in May 1996 and requested that the site be evaluated for additional removal action due to the lead-contaminated soil. Approximately seven drums, all reportedly empty, also remain on site.

All drinking wells (seven) within 450' of the site contained one to two ppb PCE at the time of site discovery. None of these seven wells are still in use and no wells other than the on-site well have been tested for metals. Sixteen additional wells within 1/4 mile of this site were found to contain chlorinated solvents during testing in 1993. All but one of these (the Ernestine Williams well at 1731 Woodlea Drive, 900' northwest of the site) have connected to city water. The closest wells still in use (no chlorinated solvents detected in 1993) are at 2013 Tom Sadler Road, 475' east of the site and 1824 Marita Drive, 450' north of the site. There are approximately 25 private drinking water wells still in use between 450' and 1/4 mile from the site.

P.O. Box 27687,
Raleigh, North Carolina 27611-7687
Voice 919-733-4996

Reduce Reuse Recycle

FAX 919-715-3605
An Equal Opportunity Affirmative Action Employer
50% recycled/10% post-consumer paper

The site is located 1500' from the nearest surface water. There has been no release of source contaminants to the surface water pathway. The site is an unfenced private yard with no public recreational use. There is no school or daycare center within 200' of the property. Two residents live on site and within 200 feet the contaminated soil. The third person who used the drinking water well at the time of site discovery lives in a separate residence not within 200 feet of the area of contaminated soil. There is a children's playhouse (not currently used) within the area of lead-contaminated soil.

Although chlorinated solvents have been found in similar auto garage operations, subsurface soil samples collected during the 1996 SI did not identify a source area containing chlorinated solvents. Since the levels of chlorinated solvents are significantly higher in the on-site Mingus well than in any of the wells within a 1/4 mile and no other potential sources of chlorinated solvents have been identified within 1/4 mile of the site, it would appear that the solvents originated from on-site operations.

Based on the observed release of chlorinated solvents to the on-site well (serving three) and seven surrounding drinking water wells (serving 19) as well as the observed release of lead to the on-site drinking water well and the soil exposure risk to residents from the on-site soil contamination, the Tom Sadler Road Wells site is recommended for a low priority Expanded Site Inspection. It is recommended that first the extent of soil contamination be evaluated as part of the removal action requested by the NC Superfund Section. Soil analyses should include metals and volatile organics to help identify solvent- and lead-contaminated soils remaining on site. Removal of contaminated on-site soils may prevent soil exposure risks and further contamination of the drinking water aquifer, thereby eliminating the need for further CERCLA remedial action at this site.

If you have any questions, please call me at (919) 733-2801, ext. 316.

Sincerely,

Jeanette Stanley

Jeanette Stanley
Environmental Chemist
NC Superfund Section

STATE OF NORTH CAROLINA

Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
Superfund Section

SITE INSPECTION

Tom Sadler Road Wells
NCD 986 231 967
Charlotte, Mecklenburg, North Carolina
Reference No. 06103

July 1996

Jeanette Stanley
Environmental Chemist
Division of Solid Waste Management
Superfund Section

SITE INSPECTION

Tom Sadler Road Wells
NCD 986 231 967
Charlotte, Mecklenburg, North Carolina
Reference No. 06103

July 1996

Superfund Section
Division of Solid Waste Management
North Carolina Department of Environment, Health and Natural Resources

Prepared by:
Jeanette Stanley
Environmental Chemist

Reviewed by:
Pat DeRosa
Site Evaluation & Removal Branch Head

TABLE OF CONTENTS

EXECUTIVE SUMMARY

1.0 INTRODUCTION 1

2.0 SITE DESCRIPTION 1
2.1 Location and Climate 1
2.2 Site Description Operational, History and Waste Characteristics 1

3.0 WASTE/SOURCE SAMPLING 6
3.1 Sample Locations and Analytical Results 6
3.2 Conclusions 6

4.0 GROUNDWATER PATHWAY 8
4.1 Hydrogeology 8
4.2 Targets 8
4.3 Sample Locations and Analytical Results 10
4.4 Conclusions 12

5.0 SURFACE WATER PATHWAY 10
5.1 Hydrology and Targets 10
5.2 Sample Locations and Analytical Results 13
5.3 Conclusions 17

6.0 SOIL EXPOSURE AND AIR PATHWAYS 17
6.1 Physical Conditions 17
6.2 Soil and Air Targets 17
6.3 Soil Sampling Locations 18
6.4 Conclusions 18

7.0 SUMMARY AND CONCLUSIONS 18

PHOTOGRAPHS

APPENDIX A

LIST OF TABLES

Table 1. On-Site Soil Samples, NC Superfund Section, February 1996 7

Table 2. Community and Non-Transient, Non-Community Wells 9

Table 3. Contaminated Wells Within 1/2 Mile of the Site, 1993 11

Table 4. Surface Water and Sediment Samples, February 1996 16

LIST OF FIGURES

Figure 1 Site Location Map 2

Figure 2 Site Map and Sampling Locations 3

Figure 3 Drinking water wells within 1/4 mile 4

Figure 4 Surface Water Pathway 14

Figure 5 Surface Water Sampling Locations 15

EXECUTIVE SUMMARY

The Tom Sadler Road Wells site is an auto garage at 2128 Tom Sadler Road operated by Mr. Garland Mingus for 30 years. In 1993, the onsite well serving three people (2 residences) was sampled and high levels of chlorinated solents were detected. The well is no longer used for drinking water and the residences have connected to city water. Mr. Mingus closed the garage facility in 1994. During the 1996 Site Inspection, a four-point surface soil sample was collected in the drum storage area on site and 3,100 ppm lead, other metals and a trace of a chlorinated solvent were detected. The drum storage area is about 600 square feet. Lead was also detected in the on-site well. Based on these results, the NC Superfund Section contacted the US EPA ERRB in May 1996 and requested that the site be evaluated for additional removal action due to the lead-contaminated soil. Approximately seven drums, all reportedly empty, also remain on site.

All drinking wells (seven) within 450' of the site contained one to two ppb PCE at the time of site discovery. None of these seven wells are still in use and no wells other than the on-site well have been tested for metals. Sixteen additional wells within 1/4 mile of this site were found to contain chlorinated solvents during testing in 1993. All but one of these (the Ernestine Williams well at 1731 Woodlea Drive, 900' northwest of the site) have connected to city water. The closest wells still in use (no chlorinated solvents detected in 1993) are at 2013 Tom Sadler Road, 475' east of the site and 1824 Marita Drive, 450' north of the site. There are approximately 25 private drinking water wells still in use between 450' and 1/4 mile from the site.

The site is located 1500' from the nearest surface water. There has been no release of source contaminants to the surface water pathway. The site is an unfenced private yard with no public recreational use. There is no school or daycare center within 200' of the property. Two residents live on site and within 200 feet the contaminated soil. There is a children's playhouse (not currently used) within the area of lead-contaminated soil.

Although chlorinated solvents have been found in similar auto garage operations, subsurface soil samples collected during the 1996 SI did not identify a source area containing chlorinated solvents. Since the levels of chlorinated solvents are significantly higher in the on-site Mingus well than in any of the wells within a 1/4 mile and no other potential sources of chlorinated solvents have been identified within 1/4 mile of the site, it would appear that the solvents originated from on-site operations.

Based on the observed release of chlorinated solvents to the on-site well (serving three) and seven surrounding drinking water wells (serving 19) as well as the observed release of lead to the on-site drinking water well and the soil exposure risk to residents from the on-site soil contamination, the Tom Sadler Road Wells site is recommended for a low priority Expanded Site Inspection. It is recommended that first the extent of soil contamination be evaluated as part of the removal action requested by the NC Superfund Section. Soil analyses should include metals and volatile organics to help identify solvent- and lead-contaminated soils remaining on site. Removal of contaminated on-site soils may prevent soil exposure risks and further contamination of the drinking water aquifer, thereby eliminating the need for further CERCLA remedial action at this site.

1.0 INTRODUCTION

This Site Investigation (SI) for the Tom Sadler Road Wells site (NCD 986 231 967) was performed by the North Carolina Superfund Section under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA). The SI was conducted to assess the immediate or potential threat posed by the site to human health and the environment and to collect information to support a decision to be made by the United States Environmental Protection Agency (US EPA) regarding the need for further action under CERCLA. The SI included site research, file review, target survey, and sampling on February 13, 1996.

2.0 SITE DESCRIPTION

2.1 Location and Climate

The Tom Sadler Road Wells site (NCD 986 231 967), is located in a residential area of northwestern Charlotte, Mecklenburg County, North Carolina (Refs. 3, 4, 7, 8; Figs. 1, 2, 3). This area is part of the Paw Creek community. The site is located at latitude 35° 17' 24" N and longitude 80° 57' 37" W (Ref. 4). This is in the ninth Congressional District and the County Code is 60.

To reach the site, use the Little Rock Road exit off I-85 and drive north. Little Rock Road intersects Freedom Drive; turn left (north) onto Freedom Drive. Continue on Freedom Drive until it intersects with Mount Holly Road and veer left. In one mile, turn right onto Tom Sadler Road. The site is at 2128 Tom Sadler Road (Ref. 7; Figs. 1, 2, 3).

The area has a mean annual precipitation of 44 inches and a mean annual lake evaporation of 40 inches (Ref. 5). The 2-year 24-hour rainfall is 3.5 inches (Ref. 6).

2.2 Site Description, Operational History and Waste Characteristics

In 1993, Mecklenburg County Department of Environmental Protection (MCDEP) sampled approximately 400 wells in the Paw Creek area (Ref. 13) and several pockets of PCE (also known as perchloroethylene or tetrachloroethene) contamination above the Maximum Contaminant Level (MCL) drinking water standard (5 ppb or greater), as defined in the Safe Drinking Water Act, were identified (Ref. 13, p. 2). Almost 100 wells contained PCE, most at the one ppb level (Ref. 13).

The Garland J. Mingus well at 2128 Tom Sadler Road contained several chlorinated compounds including 1,1-dichloroethylene at 170 ug/L, above the US EPA removal action level (Refs. 7, 13, pp. 25, 26, 32, 40, 48). PCE was not detected in this well. The major contaminant in the Mingus well, 1,1-dichloroethylene is a chemical intermediate for plastics manufacturing or a degradation product of other chlorinated solvents, such as PCE or trichloroethene (TCE) (Ref. 25).

The Garland Mingus well, serving three people (Refs. 7, 9), was removed from service in October 1993 when the site was listed on CERCLIS (Ref. 7). The US EPA provided bottled water and installed a granular activated carbon filter on the well so that the water could be used for bathing.

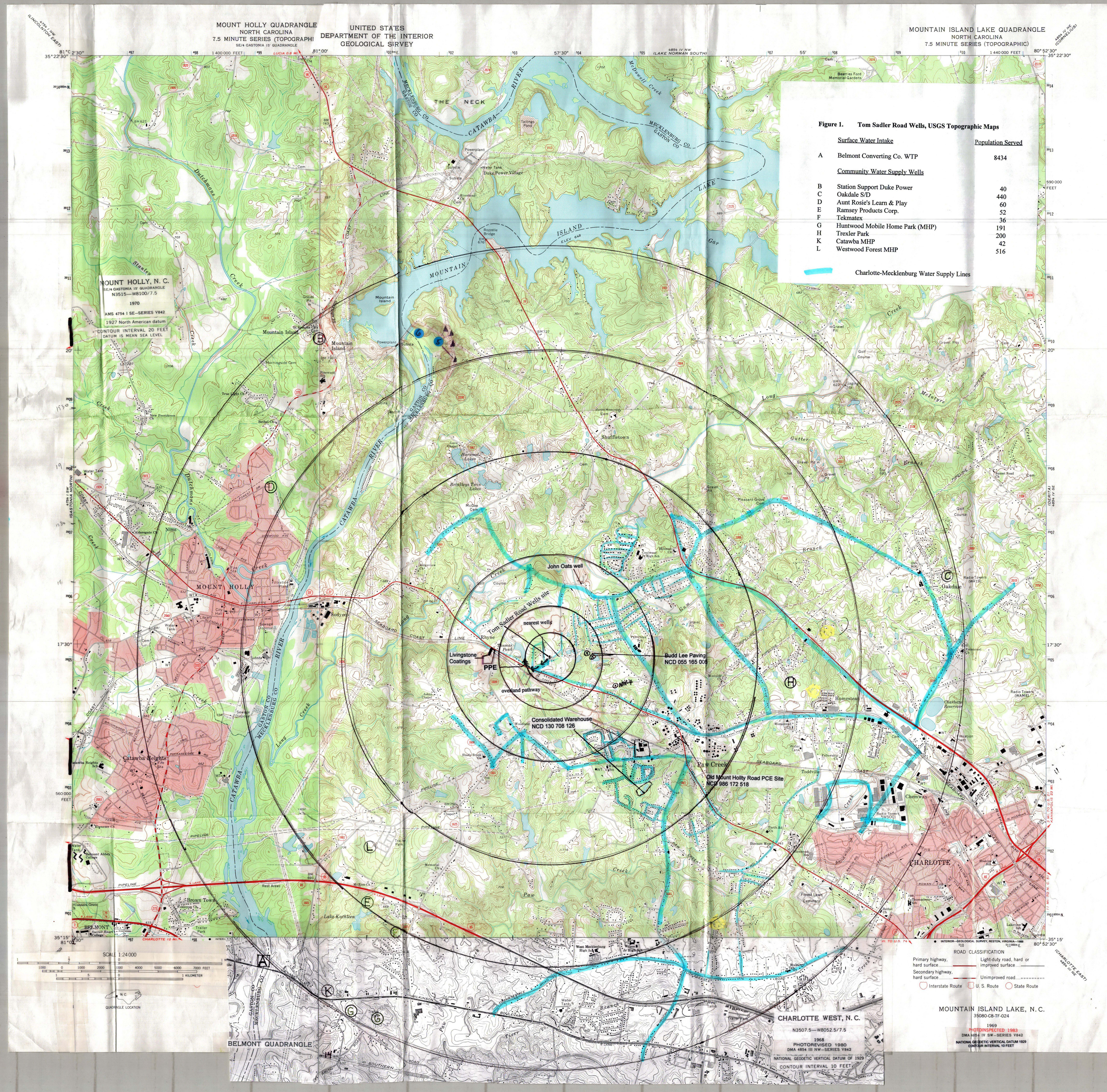


Figure 1. Tom Sadler Road Wells, USGS Topographic Maps

	Surface Water Intake	Population Served
A	Belmont Converting Co. WTP	8434
	Community Water Supply Wells	
B	Station Support Duke Power	40
C	Oakdale S/D	440
D	Aunt Rosie's Learn & Play	60
E	Ramsey Products Corp.	52
F	Tekmatex	36
G	Huntwood Mobile Home Park (MHP)	191
H	Trexler Park	200
K	Catawba MHP	42
L	Westwood Forest MHP	516

Charlotte-Mecklenburg Water Supply Lines

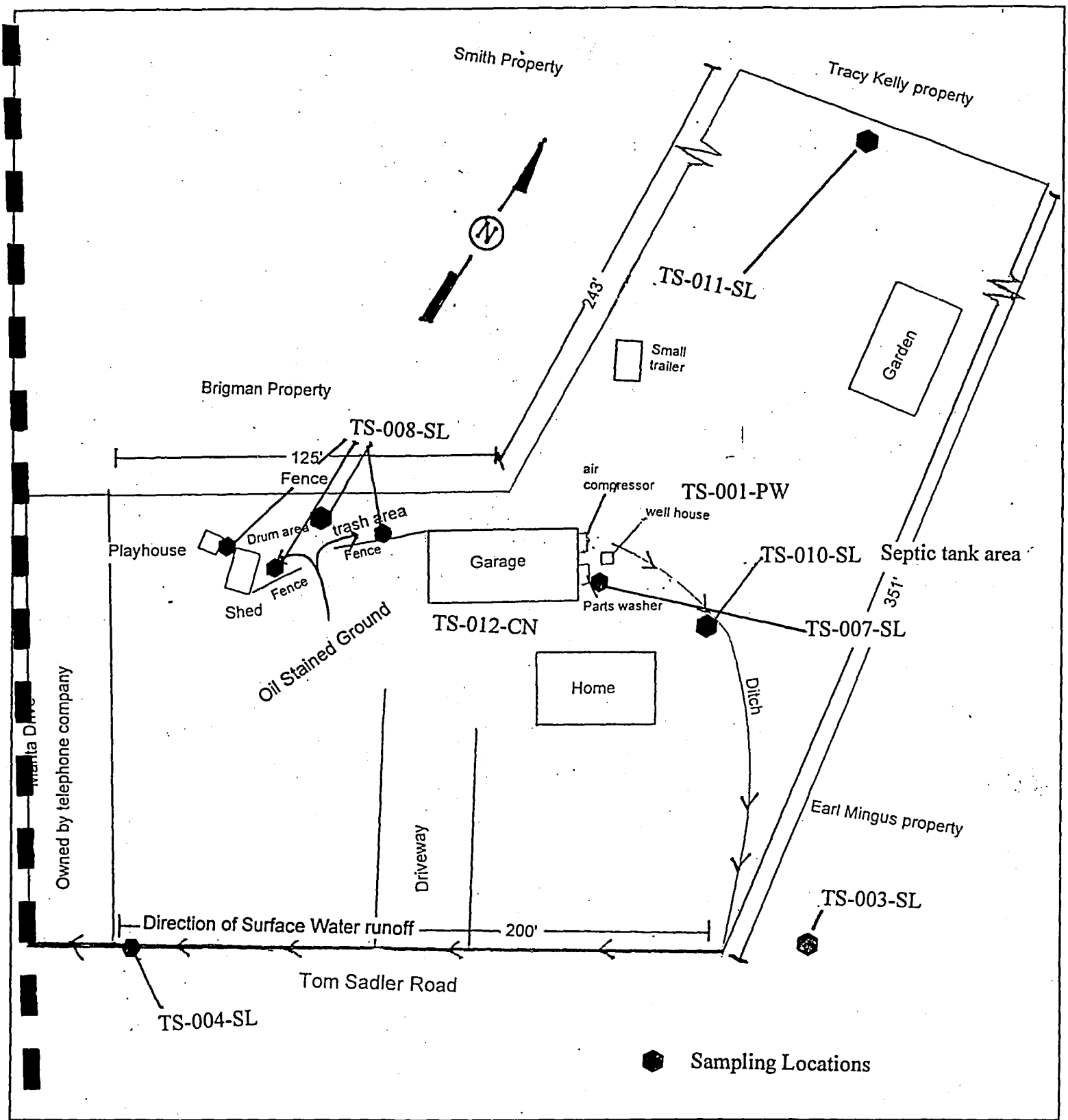


Fig. No: 2	Title: **Site Map and Sampling Locations**		
North Carolina Division of Solid Waste Management	Scale: Not to Scale	Date: February 1996	Drawn By: Stanley
Superfund Section	Site Name: Tom Sadler Road Wells		NCD 986 231 967

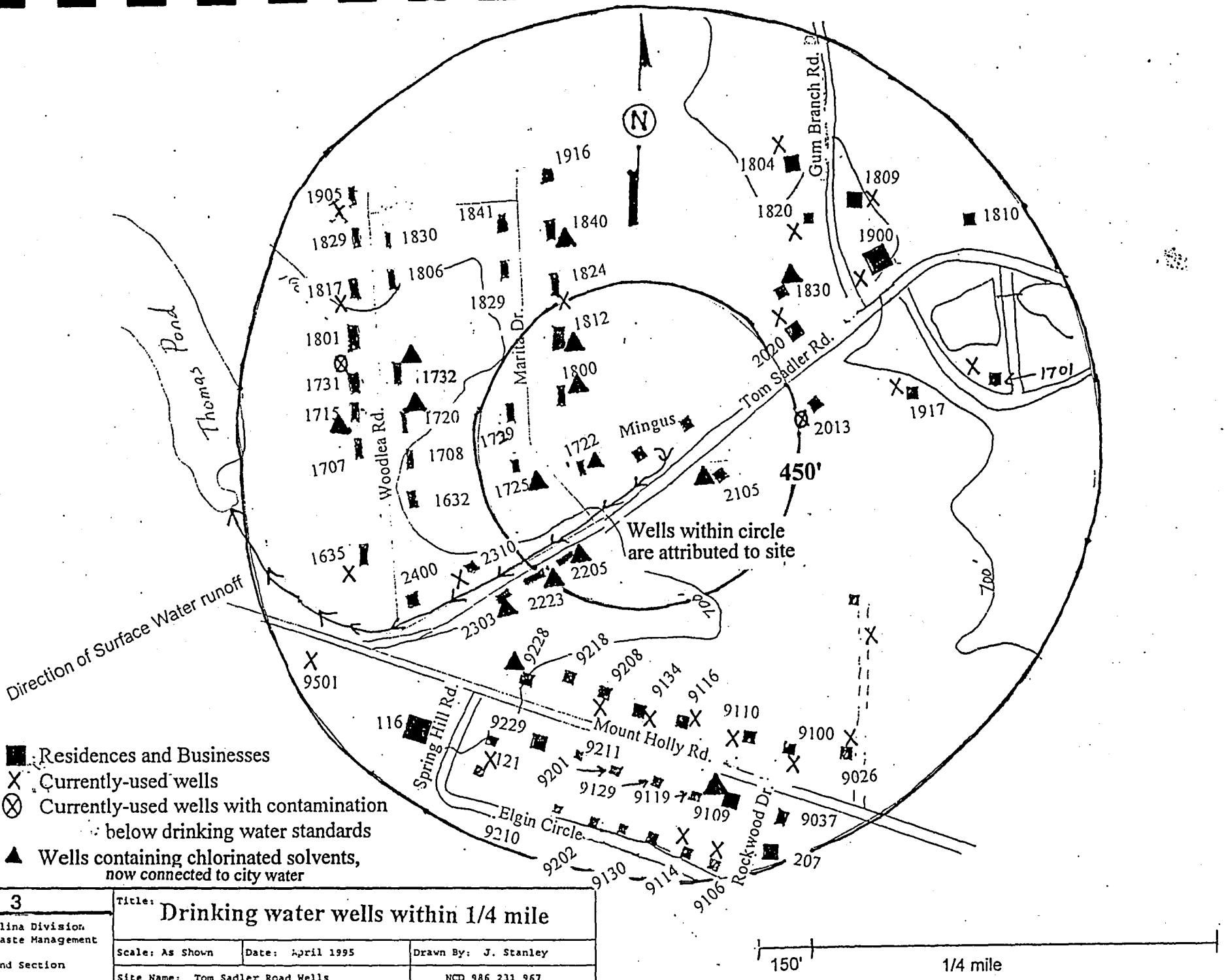


Fig. No: 3	Title: Drinking water wells within 1/4 mile		
North Carolina Division of Solid Waste Management Superfund Section	Scale: As Shown	Date: April 1995	Drawn By: J. Stanley
	Site Name: Tom Sadler Road Wells		NCD 986 231 967

City water has since been installed (Ref. 13, p. 32). The well has not been closed and is still used for watering the Mingus vegetable garden (Ref. 9). The filter is not in use. Sixteen additional contaminated wells were discovered within 1/4 mile of the Mingus property during the 1993 MC DEP sampling event (Fig. 3; Ref. 13, p.2).

The Garland Mingus contaminated well is located five feet from an auto garage operated by Mr. Mingus for 30 years (Refs.3, 7, 9; Fig. 2). From about 1964 to 1994, Mr. Mingus performed various service activities at the facility, including air conditioning recharge, oil change, tune ups and automotive brakes (Refs. 7, 9; Photographs). There was a fire in the garage and it was rebuilt in 1989 (Ref. 9). The facility is now closed. There is a parts washer on the northeast side of the garage in the vicinity of the well (Fig. 2). Mr. Mingus stated that he never used the parts washer (Ref. 9). The once-filled volume of the parts washer is estimated to be 25 gallons. During the site visit, an insecticide sprayer was observed lying on its side in the well house (Ref. 9; Photographs). Mr. Mingus' past practices with the insecticide sprayer are not known, but some formulations contain chlorinated solvents (Ref. 25). Approximately seven drums, all reportedly empty, remain on the site (Refs. 9, 27; Photographs).

Other potential sources of chlorinated solvents have been identified in the surrounding area. One known source of PCE in the area is at the Livingstone Coatings Corporation 3000' west of the site. There is 1,1-dichloroethylene in the bedrock and PCE in the subsurface soil beneath Livingstone Coatings (Ref. 29, Fig. 1). The North Carolina Division of Environmental Management (NC DEM) is regulating this cleanup (Ref. 29). Another known area of PCE-contaminated soil in the Paw Creek area is at the Old Mount Holly Road PCE site, 1 1/2 miles southeast of the Tom Sadler Road Wells site (Ref. 26). The Consolidated Warehouse (formerly Thrift Dye Works) site 1 1/4 miles southeast of the site has a past history of PCE usage, but a definitive source has not yet been identified (Ref. 26). Martin Marietta-Sodyedo (a National Priorities List (NPL) site (NCD 001 810 365), is 2 1/2 miles west of this site. Several chlorinated hydrocarbons have been detected in the groundwater, including low levels of PCE, but the hydrogeology is well defined and the plume is migrating west toward the Catawba River (Refs. 3, 11; Fig. 1).

The Budd Lee Paving site (NCD 055 165 005), 2000' northeast of the Mingus residence was recommended for no further action under CERCLA in 1984. This site contained miscellaneous trash, mostly household, but included hardened asphalt and some drums floating in a pond. Mecklenburg County required that some solid waste be shipped off site and permitted burial of some trash onsite. This trash burial area was recorded with the Register of Deeds in 1984 (Ref. 12, pp. 1 - 6). No record of analytical results has been located. In 1994, a groundwater investigation was conducted in conjunction with a bank foreclosure on property adjacent to the Budd Lee site. A 22' deep monitoring well in the vicinity of the trash was sampled and analyzed. The results did not show any chlorinated solvents (Ref. 12). It only showed 6 ppb toluene. A 40' deep monitor well (MW-4, Fig. 1; Refs. 3, 12) 2000' southeast of the Budd Lee site, 3500' southeast of the Tom Sadler Road Wells site and 4300' northwest of the Old Mount Holly Road PCE site showed 125 ppb PCE in 1994 testing. This well has been resampled and reported clean (Ref. 29).

Another potential source area within a mile of the site is a shop at the John Oats property. During the 1993 MC DEP sampling event, the John Oats well at 1032 Gumbranch Rd., 3/4 mile north of the site and serving three residences, was found to contain 17.3 ppb carbon tetrachloride, 43.9 ppb 1,1-dichloroethene (DCE) and 69.6 ppb trichloroethene (TCE) (Fig. 1, Ref. 13. p. 54). An auto service shop is located on the John Oats property and well contamination may be related to the activities at the auto shop.

3.0 WASTE/SOURCE SAMPLING

3.1 Sample Locations and Analytical Results

On February 13, 1996, the NC Superfund Section collected surface soil samples in the drum storage area, downgradient of the parts washer, in the low area near the septic tank and in the ditch receiving overland flow from the Mingus property. Table 1 gives the sample results and Figure 2 shows the approximate sample locations. Details on each sampling point are given below:

TS-003-SL	2 - 10" depth, upgradient (or background) ditch soil
TS-004-SL	2 - 10" depth, downgradient ditch soil
TS-007-SL	6 - 15" depth, in low area between parts washer and well house
TS-008-SL	2 - 4" depth, four-point composite in drum area
TS-010-SL	2 - 10" depth, in ditch/low area receiving overland flow from one side of garage and in area of septic tank (septic tank only connected to house, not garage). Sample taken when organic vapor meter registered a significant response in the hole.

The sample taken in the drum storage area (TS-008-SL) showed lead, chromium, copper, arsenic, and bis (2-ethyl hexyl) phthalate at levels greater than three times background. This area also showed a trace of 1,1,1-trichloroethane, indicating that deeper samples may show higher levels of chlorinated solvents. The estimated area encompassed by this four-point composite sample is approximately 600 square feet (Ref. 27).

The NC Superfund Section has requested that the US EPA Emergency Response and Removal Branch (ERRB) perform a removal evaluation of this area of contaminated soil (Ref. 28). Lead is above the residential soil lead clean up goal under CERCLA and the screening level for corrective action under RCRA. Additional soil sampling at depth may help determine whether a source of chlorinated solvents remains on site.

3.2 Conclusions

During the SI, contaminated surface soil was found on the property. This soil contains lead, chromium, copper, arsenic, and bis (2-ethyl hexyl phthalate) at levels more than three times that of background. However, only lead levels exceed health-based recommended cleanup levels for residential soils. A trace of one chlorinated solvent (1,1,1-trichloroethane) was also detected in this soil. The US EPA has been requested to evaluate the site for removal action due to the lead levels in soil

Table 1. On-Site Soil Samples, NC Superfund Section, February 1996

mg/kg	TS-011-SL background soil	TS-003-SL background, in ditch	TS-004-SL*. downgradient, in ditch	TS-007-SL* low area near parts washer	TS-008-SL** composite in drum storage area	TS-010-SL low area in ditch near septic tank
Arsenic	2	ND	ND	4	**14**	2
Cadmium	ND	120	ND	ND	20	ND
Chromium	14	ND	19	38	**166**	26
Copper	18	ND	46	14	**130**	26
Lead	ND	20	19	24	**3,100*** **	28
Acetone	ND	ND	ND	ND	ND	0.020 J
Methylene chloride	ND	ND	ND	ND	0.001 J, C	0.003 J, C
2-Butanone	ND	ND	ND	ND	ND	0.002 J
Chloroform	ND	ND	ND	ND	ND	trace
1,1,1-trichloroethane	ND	ND	ND	ND	trace	ND
Ethyl benzene	ND	ND	ND	ND	trace	ND
xylenes	ND	ND	ND	ND	0.003 J	ND
styrene	ND	ND	ND	ND	trace	ND
dibutyl phthalate	ND	ND	ND	ND	0.330K	ND
bis (2-ethyl hexyl phthalate)	ND	ND	ND	ND	**10.1**	ND

BOLD = Samples with contaminant levels greater than three times background

K=Actual value is known to be less than given; J = estimated value; C = Possible Lab contamination or background

*** = Unidentified volatile compound(s) present ** = C_8 - C_{13} hydrocarbons present, not identified. ***Exceeds clean up level**

4.0 GROUNDWATER PATHWAY

4.1 Hydrogeology

The Tom Sadler Road Wells site is located in the Charlotte Belt of the Piedmont Physiographic Province of North Carolina (Ref. 10). The bedrock in the region is predominantly a foliated to massive metamorphosed quartz diorite co-mingled with granite, with granite being predominant (Ref. 10). Weathered bedrock, or saprolite, overlies the fractured granitic bedrock (Ref. 10). The saprolite contains pore spaces between rock particles which act as a groundwater reservoir. The bedrock contains water in sheet-like openings formed along fractures which act as interconnected pipes that convey water from the saprolite reservoir to local wells (Ref. 10). Groundwater moves laterally and downward through the saprolite to points of groundwater seepage (springs) on hillsides and to the streams in the adjacent valleys (Ref. 10). Monitoring wells installed 3/8 mile east of the Mingus residence in 1994 had an average depth to groundwater of 25'. The top ten feet of soil has been reported as silty or clayey silt, having a hydraulic conductivity of 10^{-6} cm/sec (Refs. 1; 12). Monitor wells 3000' west of the site have depth to groundwater ranging from 12 to 29' (Ref. 29).

The Mingus well is two inches in diameter and 95 feet deep (Ref. 7). It does not have a concrete slab on top and was possibly not grouted (Ref. 11). It was drilled in 1992 because the old well (3' east of the new well) had a collapsed casing (Refs. 7, 9). The location of the new well is in the surface drainage pathway from the northeast side of the garage (Ref. 9; Fig. 2)

4.2 Targets

The Charlotte-Mecklenburg Utility Department (CMUD) provides city water to many residents within a four mile radius of the site (Refs. 13, 14). City water lines are shown on Fig. 1.

There are nine community public well systems within 4 miles of the site as shown on Figure 1 (Refs. 3, 16). There are none within two miles of the site (Refs. 3, 16; Fig.1). Populations served by these systems and the distances of these wells from the site are listed in Table 2.

Table 2. Community and Non-Transient, Non-Community Wells

Well name	Distance, miles	Population
Ramsey Products	> 2 - 3	52
Westwood Forest Mobile Home Park	> 2 - 3	516
Trexler Park	> 2 - 3	200
Station Support, Duke Power	> 3 - 4	40
Aunt Rosie's Learn & Play	> 3 - 4	60
Oakdale Subdivision	> 3 - 4	440
Tekmatex	> 3 - 4	36
Huntwood Mobile Home Park	> 3 - 4	191
Catawba Mobile Home Park	> 3 - 4	42

At the time of site discovery, the Mingus well served two homes (three residents). There were 51 residences using private drinking water wells within 1/4 mile of the site (Ref. 13). During the 1993 testing conducted in the Paw Creek area, seventeen wells (excluding the on-site well) within 1/4 mile of the site were discovered to contain chlorinated solvents (Ref. 13). A subsequent test on one of these wells (Tucker residence at 2013 Tom Sadler Road, 475' east of the site (Fig. 3, Table 3)) did not show chlorinated solvents (Ref. 13), leaving sixteen contaminated wells (excluding the Mingus well) containing chlorinated solvents within 1/4 mile of the site. Fifteen of these sixteen residences and twelve additional homes within 1/4 mile of the site have connected to city water (Ref. 14). One home with known chlorinated solvent contamination (the Ernestine Williams well at 1731 Woodlea Drive, 900' northwest of the site (Fig. 3, Table 3)) continues to use the drinking water well. A approximately twenty four residences within 1/4 mile of the site were still using private drinking water wells in July 1995 (Refs. 13, 14, 15) . All homes along Woodlea Road and the west side of Marita Drive will be destroyed during construction of the Charlotte Outer Loop (Ref. 9).

The population estimated to be using groundwater for drinking water (including community well populations) as of May 1995 is given below (Refs. 13, pp. 29 - 33; 14; 15):

Distance ring	Population
0 - 1/4 mile	60
> 1/4 - 1/2 mile	40
> 1/2 - 1 mile	137
> 1 - 2 miles	800
> 2 - 3 miles	1756
> 3 - 4 miles	1671

The total number of groundwater users within four miles of the site is 4,464. The closest private drinking water well still in use is located at 1824 Marita Drive, about 450 feet northwest of the site (Ref. 14, Fig. 3). All wells within 450' of the site (seven) were found to be contaminated with chlorinated solvents and have been connected to city water. These wells are identified in Table 3. The well at 2013

Tom Sadler Road is about 475' east of the site and tested positive for PCE in one of the two tests conducted (Ref. 12). The second test did not show contamination. This well is still in use.

Groundwater is not used for irrigation of commercial farms within 4 miles of the Paw Creek area (Ref. 18). There are no wellhead protection areas within 4 miles of the site (Ref. 24).

4.3 Sample Locations and Analytical Results

On June 15, 1993, the G. J. Mingus well at 2128 Tom Sadler Road was sampled by the Mecklenburg County Department of Environmental Protection (MC DEP) and the results are shown in Table 3. The well was resampled by MC DEP on June 22, 1993 and similar results were obtained (Ref. 13, p. 48).

The US EPA resampled the Mingus well and determined that 1,1-DCE at 170 ug/L exceeded removal action levels (Ref. 7). The US EPA provided bottled water and installed a granular activated carbon filter on the well so that the water could be used for bathing. City water has since been installed (Ref. 13, p. 32). The well has not been closed and is still used for washing cars and watering the Mingus vegetable garden. These uses of the well have been reviewed and determined to not be hazardous (Refs. 9, 31). The following wells within 1/4 mile of the Mingus well were sampled by MC DEP and found to contain detectable levels of chlorinated solvents (Table 3; Refs. 13; 14). Two additional wells have been tested by MC DEP within 1/4 mile of the site since the Preliminary Assessment was written in 1995 (Ref. 30), and these have tested clean (Ref. 31).

Table 3. Contaminated Wells Within 1/4 Mile of the Site, 1993

Name	address	Contamination (ppb, ug/L)	current drinking water status	# residents using well
G. J. Mingus	2128 Tom Sadler Rd.	Carbon Tetrachloride 58 Chloroethane 13 1,1-Dichloroethane 75 1,2-Dichloroethane 1 1,1-Dichloroethene 205 1,1,1-Trichloroethane 307	city	3
Betty Tucker	2013 Tom Sadler	1 ppb PCE; Resampled, ND	still using well	4
*Jimmie Auten	2105 Tom Sadler Rd.	1 ppb PCE	city water	2
*J. J. Warren	2205 Tom Sadler Rd.	2 ppb PCE	city water	3
*J. J. Warren	2223 Tom Sadler Rd.	1 ppb PCE	city water	2
#Marion Culp	2303 Tom Sadler	0.25 TCE	city water	**
#Sheila Hord	1830 Gumbranch	1 ppb PCE	city water	**
*Mimmie Brigman	1722 Marita Dr.	1 ppb PCE	city water	2
*Linda Saunders	1725 Marita Dr.	1 ppb PCE	city water	3
*Julie Smith	1800 Marita Dr.	2 ppb PCE	city water	4
*Carole Lee	1812 Marita Rd.	1 ppb PCE	city water	3
#Libby Stogner	1840 Marita Dr.	2 ppb PCE	city water	**
#Ola Chapman	1715 Woodlea Rd.	1 ppb PCE	city water	3
#H. L. Lutz	1720 Woodlea Rd.	2 ppb PCE 1 ppb 1,1-Dichloroethane	city water	2
#Ernestine Williams	1731 Woodlea Rd.	2 ppb PCE	still using well	3
#Robert Broome	1732 Woodlea Rd.	1 ppb PCE	city water	2
Grace Wagner	9109 Mount Holly Rd.	1 ppb PCE	city water	**
Kelly Longshore	9228 Mound Holly Rd.	1 ppb PCE	city water	**

*Contamination of these wells is considered attributable to this site, homes within 450'

#Contamination of these wells is possibly attributable, homes between 450' and 1/4 mile and within likely groundwater flow pathway

**The number of residents of these homes could not readily be determined

During the February 13, 1996 SI, the NC Superfund Section again tested the Mingus well. The well was tested for volatile and semivolatile organics, metals, PCBs, and pesticides. The sprayer noted in the well house during the SI was thought to be a possible source of the chlorinated solvents in the drinking

water well. No pesticides were detected in the well. A background well sample was taken at the William Cline residence at 9624 Mount Holly Road. The only reported compound in the background sample was an estimated concentration of 4 ug/L of acetone which is believed to be a lab contaminant. The contaminants detected in the Mingus well were:

Lead	0.031 mg/L
Chloroethane	90 ug/L
1,1-Dichloroethene	1287 ug/L
1,1-Dichloroethane	148 ug/L
cis-1,2-Dichloroethene	trace
1,1,1-Trichloroethane	323 ug/L
Benzene	trace
1,2-Dichloroethane	2J
Trichloroethene	1J
Tetrachloroethene	trace

4.4 Conclusions

In addition to the Mingus well, sixteen drinking water wells within 1/4 mile of the site have previously shown measurable levels of chlorinated solvents. Except for the Mingus well, all of these levels were below drinking water standards. All seven off-site wells within 450' of the site, serving 19 residents (Table 3, Figure 3) were contaminated. Attribution of some of the contaminated wells further away from the site may be difficult due to other sources in the area. It is possible that chlorinated solvent contamination reported in an additional seven wells, serving 17 residents within 1/4 miles of the site could be attributable to the site.

City water is available to these residents and CMUD has offered reasonable connection fees. Only one residence continues to use a PCE-contaminated drinking water well. Twenty four residences within 1/4 mile continue to use private drinking water wells. Use of five of these wells will be discontinued when the residences are destroyed for highway construction in the area. Most wells in the area have been sampled by MC DEP (Mecklenburg County Department of Environmental Protection). No additional sampling is planned at this time.

5.0 SURFACE WATER PATHWAY

5.1 Hydrology and Targets

The site is not within a 500-year flood plain (Ref. 48). Surface water runoff enters a ditch on the northeast side of the garage (Fig. 2). This ditch flows toward Tom Sadler Road and then flows in a southwesterly direction in front of the Mingus home. The ditch crosses under Marita and Woodlea Drives and turns in a northwesterly direction into the headwaters of Thomas Pond, the probable point of entry (PPE) to surface water. The total overland distance to surface water is 1500 feet (Refs. 3, 9; Fig. 4).

There is a 1.5-acre wetland at the headwaters of Thomas Pond. The perimeter of this wetland is about 1000'. Thomas Pond is 0.2 mile long. The outfall from Thomas Pond, a minimal stream and an unnamed tributary to Long Creek, flows in a northerly direction. This unnamed tributary flows for 0.8 mile until it enters Long Creek, a small to moderate stream. Long Creek flows in a southwesterly direction for 4 miles and enters the Catawba River, a large stream to river. The Catawba River is the major tributary to Lake Wylie. The surface water pathway ends on Lake Wylie at the point where the lake enters South Carolina waters (Ref. 17, Fig. 4)

In addition to the 1.5-acre wetland at the pond headwaters, the first 0.5 mile length of the unnamed tributary is a linear wetland (Ref. 17). The total wetland frontage along the Long Creek surface water pathway is 9.5 miles. The total wetland frontage along the Catawba River/Lake Wylie is 5.5 miles (Ref. 17). Except for wetlands, there are no other sensitive environments along the surface water pathway (Ref. 21).

The Belmont Converting Co. surface water intake is on the Catawba River, eight miles from the PPE, and serves approximately 8,424 people (Fig. 1; Refs. 3, 19).

The PPE is at the headwaters of Thomas Pond, a fishery (Ref. 14). It will be destroyed during construction of the Charlotte Outer Loop, in about ten years (Ref. 9). The unnamed tributary to Long Creek is not a fishery (Ref. 20). The next nearest fishery is Long Creek, one mile from the PPE (Ref. 20). Fisheries continue downstream along Long Creek, the Catawba River, and Lake Wylie (Ref. 20).

5.2 Sample Locations and Analytical Results

During the February 13, 1996 SI, surface water and sediment samples were taken in the Thomas Pond headwaters below more than 0.1 mile of wetland frontage. Background surface water and sediment samples were taken on the opposite side of Mount Holly Road in the stream feeding the pond (Figure 5). Table 4 below shows the results of these tests. The level of chromium found in the Thomas Pond sediment is greater than three times background (ND) but similar to that found in the background soil sample (14 mg/kg, TS-011-SL. The methylene chloride reported in the Thomas Pond surface water is a common laboratory contaminant and may not actually be in the sample. A trace of chloroform was reported in the Thomas Pond sediment sample. Neither methylene chloride nor chloroform were detected in the onsite soil or in the Mingus well.

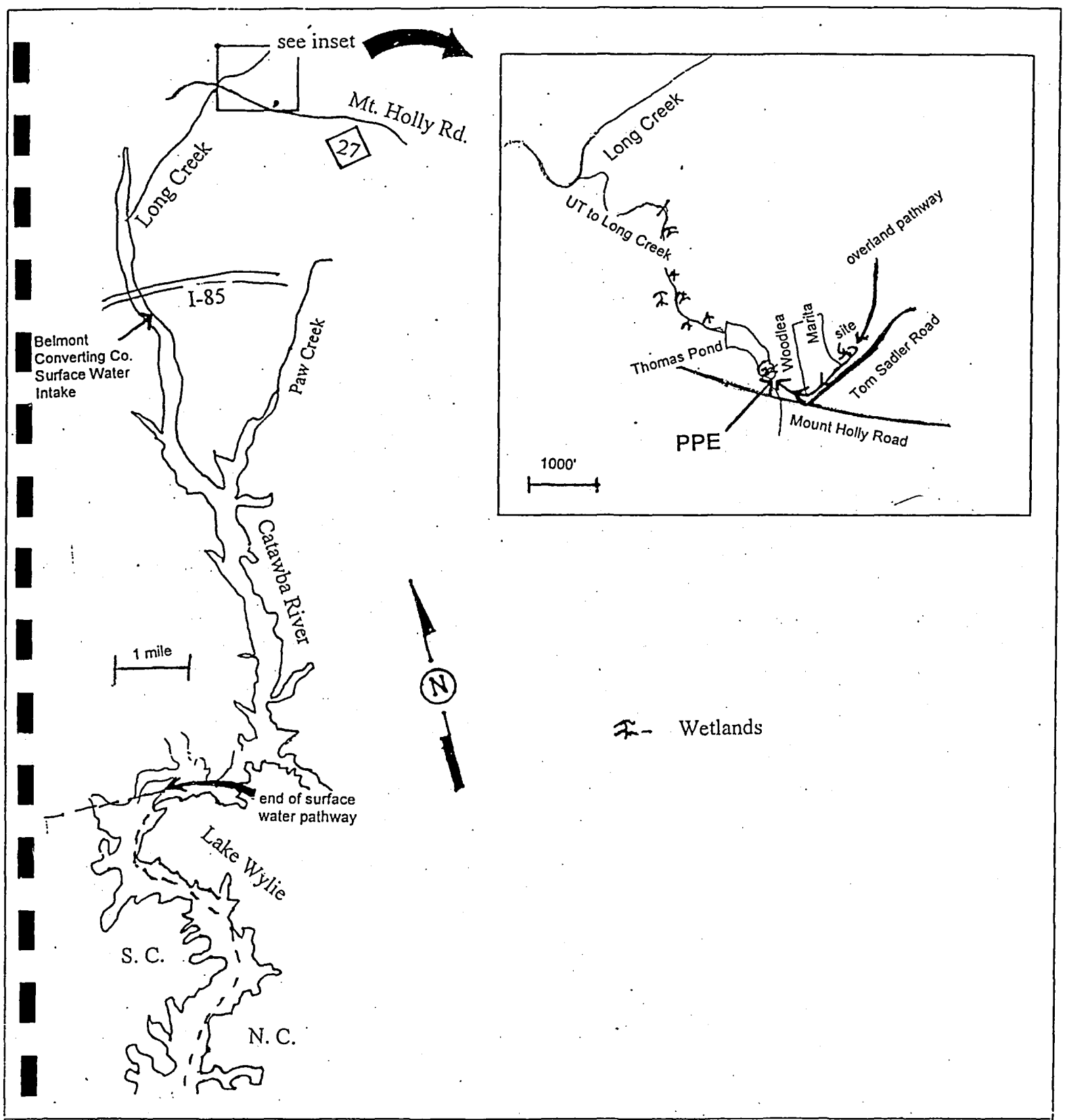
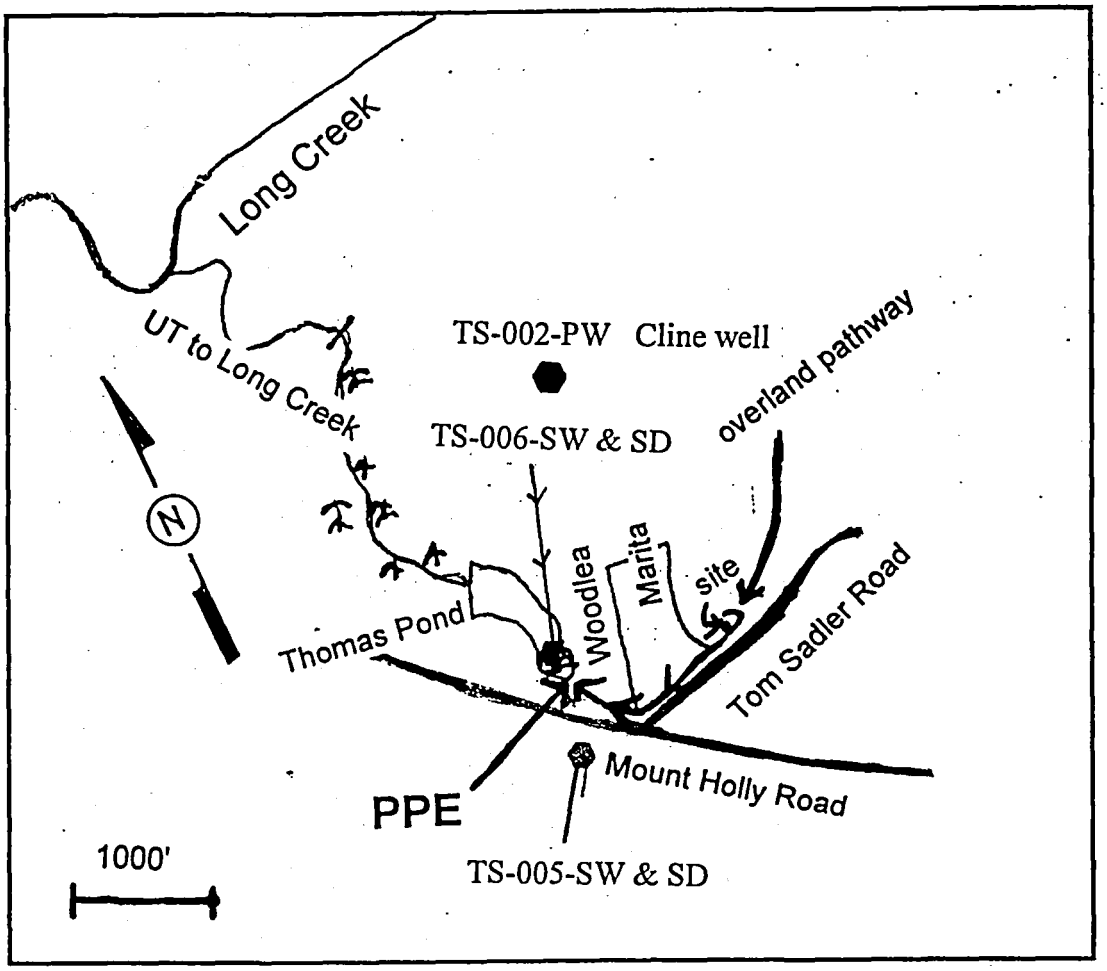


Fig. No: 4	Title: Surface Water Pathway		
North Carolina Division of Solid Waste Management	Scale: As Shown	Date: April 1995	Drawn By: Stanley
Superfund Section	Site Name: Tom Sadler Road Wells		NCD 986 231 967



Surface Water Sampling Locations

Fig. No: 5	Title: **Surface Water Sampling Locations**		
North Carolina Division of Solid Waste Management	Scale: Not to Scale	Date: February 1996	Drawn By: J. Stanley
Superfund Section	Site Name: Tom Sadler Road Wells		NCD 986 231 967

Table 4. Surface Water and Sediment Samples, NC Superfund Section, February 1996

ug/L (water) ug/kg (sediment)	TS-005-SW (background)	TS-005-SD (background)	TS-006-SW (fishery and below 0.1 mile wetlands)	TS-006-SD (fishery and below 0.1 mile wetlands)
Acetone	4 J	20 J	ND	20 J
2-Butanone	ND	2J	ND	ND
Methylene chloride	ND	ND	3 J, C	ND
Chloroform	ND	ND	ND	trace
Chromium	ND	ND	ND	26 (mg/kg)

J = estimated value; C = Possible Lab contamination or background

5.3 Conclusions

While chromium at 26 mg/kg was reported in the downstream pond sediment, this level is similar to that reported in the background soil. Low levels of two chlorinated hydrocarbons were also reported, but neither of these were found on the site and one is a common laboratory contaminant. Based on these facts, there has been no release of contaminants to the surface water pathway. The Thomas Pond fishery and wetland will be destroyed within 10 years during highway construction.

6.0 SOIL EXPOSURE AND AIR PATHWAYS

6.1 Physical Conditions

There are signs of stressed vegetation in the on site drum storage area The surface area of oil-stained ground in the trash and empty drum storage areas on the Mingus property is about 600 square feet (Ref. 27; Fig. 2).

6.2 Soil and Air Targets

There is no public recreation on the Mingus property. A children's playhouse is within the area of contaminated soil. Mr. Mingus has reported that no children play in the area now as his grandchildren are too old and his great grandchildren are too young at this time (Ref.28). The Mingus's have been advised to keep children out of the area. In addition to the Garland Mingus home, there are three homes within 200 feet of the Mingus property (Ref. 3; Figs. 1, 3). There is an 8' fence at the rear of the property that prevents access from the Brigman residence at 1722 Marita Dr., the neighbor nearest to the area of contaminated soil (Fig. 2). The other two homes within 200 feet of the Mingus property are more than 200 feet from the area of contaminated soil. The population within the target distance limits has been determined as listed below (Ref. 22).

Distance	Population
Onsite	3
0 to 1/4 mile	162
>1/4 to 1/2 mile	333
>1/2 to 1 mile	1,734
>1 to 2 miles	6,376
>2 to 3 miles	6,458
>3 to 4 miles	13,831

The wetlands for the four mile radius surrounding the site were measured from the National Wetlands Inventory Maps. The total wetland acreage for the area surrounding the site is listed below (Ref. 23).

Distance	Wetland Acreage
0 to 1/4 mile	1
>1/4 to 1/2 mile	0.7
>1/2 to 1 mile	4.8

>1 to 2 miles	36.7
>2 to 3 miles	144.4
>3 to 4 miles	150.7

The closest school is Paw Creek School 0.8 miles east of the site (Ref. 3; Fig. 1). There are no daycare facilities within 1/4 mile of the site (Ref. 22). Other than wetlands, there are no other sensitive environments within 3 miles of the site (Refs. 3, 21). There is a federally endangered plant between 3 and 4 miles northwest of the site, the Schweinitz's Sunflower (Ref. 21). There is no silviculture within 4 miles of the Paw Creek area (Ref. 18).

6.3 Soil Sampling Locations

Soil sample locations are listed in Section 3.1 above. Results are given in Table 1 and sampling locations are shown in Figure 2. The sample taken in the drum storage area (TS-008-SL) showed lead, chromium, copper, arsenic, and bis (2-ethyl hexyl) phthalate at levels greater than three times background. This area also showed a trace of 1,1,1-trichloroethane, indicating that deeper samples may show higher levels of chlorinated solvents. The estimated area encompassed by this four-point composite sample is approximately 600 square feet (Ref. 27).

6.4 Conclusions

Soil sampling conducted on the site has shown an area approximately 600 square feet containing lead at 3,100 mg/kg. The NC Superfund Section has requested that the US EPA ERRB evaluate this site for additional removal action. The area of stained soil is accessible and is near a children's playhouse that has been used by Mingus family members. No one is currently using the playhouse. The threat posed by this soil contamination likely affects only the on-site residents and their families.

7.0 SUMMARY AND CONCLUSIONS

Chlorinated solvents and lead have been measured in the on-site drinking water well at the Mingus property. Wells in the surrounding area have not been analyzed for lead but 16 additional wells within 1/4 mile of the site show detectable levels of chlorinated solvents at significantly lower levels. An auto garage business was formerly operated at the Mingus property from approximately 1964 until 1994.

On-site surface soil samples show the presence of lead at 3,100 ppm in a drum storage area near the on-site garage. This area is within 200' of the Mingus home and a playhouse which has been used by children of relatives within the Mingus family. The lead level exceeds the residential soil lead clean up goal under CERCLA and the screening level for corrective action under RCRA. Other metals, bis (2-ethylhexyl)phthalate and a trace of 1,1,1-trichloroethane have also been detected in on-site soils; however, levels are not above health-based benchmarks for residential soil exposure.

Although chlorinated solvents have been found in similar auto garage operations, a source area containing chlorinated solvents has not yet been identified on site. Since the levels of chlorinated solvents are significantly higher in the on-site Mingus well than in any of the wells within a 1/4 mile, it would appear that the solvents originated from on-site operations. Also, no other potential sources of chlorinated solvents have been identified within 1/4 mile of the site.

The site is located 1500' from the PPE of the surface water pathway. There has been no release of source contaminants to the surface water pathway.

Based on the lead levels detected in surface soils, the NC Superfund Section has requested that the US EPA ERRB evaluate the site for further removal action. Further evaluation of on-site soils for metals and volatile organic compounds may identify a source of chlorinated solvents which should also be removed. Pending the results of the removal evaluation, the Tom Sadler Road Wells site is recommended for a low priority for further remedial action under CERCLA.

Tom Sadler Road Wells
NCD 986 231 967
REFERENCES

REFERENCES 1- 26 CAN BE FOUND AT THE END OF THE TOM SADLER ROAD PRELIMINARY ASSESSMENT REPORT. July 6, 1995

1. US Environmental Protection Agency, Hazard Ranking System, Final Rule, 55 FR 51532, 1990.

2. US Environmental Protection Agency, Superfund Chemical Data Matrix (SCDM). Office of Solid Waste and Emergency Response. Directive 9345.1-13. Revised Semi-annually.

3. US Department of the Interior, Geological Survey, 7.5-minute topographic quadrangle maps of North Carolina: Mountain Island Lake, NC, 1969, photoinspected 1983; Charlotte West, NC, 1968, photorevised 1980; Mount Holly, NC, 1970.

4. US Environmental Protection Agency, "Standard Operating Procedure to Determine Site Latitude and Longitude Coordinates", 1991. Calculation worksheet for Old Mount Holly Road PCE Site.

5. US Department of Commerce, "Climatic Atlas of the United States", National Climatic Center, Asheville, NC, 1979.

6. US Department of Commerce, "Rainfall Frequency Atlas of the United States", Technical Paper No. 40, US Government Printing Office, Washington, DC, 1963.

7. Rigger, R. Donald, On-Scene Coordinator, US EPA, Removal Authorization for Tom Sadler Road Wells Site, October 29, 1993.

8. Charlotte Mecklenburg Department of Publications System, Real Estate Detail Summary, Parcels 031-056-12, 031-056-13, 031-056-14, 031-056-15, April 12, 1995.

9. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, May 9, 1995. Site Visit.

10. Heath, Ralph C., Basic Elements of Ground Water Hydrology with Reference to Conditions in North Carolina. Open File Report 80-44, pp. 26-29; US Geological Survey, 1980, North Carolina Geologic Survey, Division of Land Resources, Department of Natural Resources, Geologic Map of North Carolina, Scale 1:500,000, 1985; Preliminary Explanatory Text for the 1985 Geologic Map of North Carolina, Contractual Report 88-1, November 4, 1988, p. 52; and LeGrand, H. E. and Mundorff, M. J., Geology and Ground Water in the Charlotte Area, NC, Bulletin No. 63., 1952, pp. 18-19, 66-73. Hydrogeology References.

Tom Sadler Road Wells
NCD 986 231 967
REFERENCES

11. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memos to file, December 20, 1993 and April 12, 1995. Other possible sources of contamination in the Paw Creek area.

12. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, April 26, 1995; Bailey, Andrew D., Assistant Vice President, Gainsborough Corp., Letter to Rob Krebs, Mooresville Regional Office, NC DEM, Nov. 9, 1994, with attachments; Goodwin, Cletus W., Letter to Frank Moore, NC Solid Waste Division, January 13, 1983; Greenlee, Charlotte, Complaint Investigation, June 9, 1983; Mecklenburg County Register of Deeds, Record of Buried Trash on Mattox property, October 31, 1983. Information on nearby properties.

13. Private drinking water well information in the Paw Creek area:
    - Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, April 27, 1995.
    - Stahl, Jerry, R. S. , Mecklenburg County Department of Environmental Protection, Five letters to citizens regarding well testing, April 13, 1995.
    - DeRoller, Chris, Hydrogeologist, Mooresville Regional Office, NC DEM, Sample results of well at 2303 Tom Sadler Road., April 22, 1993.
    - Stahl, Jerry, R. S. , Mecklenburg County Department of Environmental Protection, Paw Creek Sampling Report and status of drinking water wells, May 19, 1994.
    - Summary of Paw Creek Drinking Water Well sampling June 25, 1987 through March 26, 1992.
    - Mecklenburg County Department of Environmental Protection, List of wells sampled in the Paw Creek Area, September 13, 1993.
    - Mecklenburg County Department of Environmental Protection, List of contaminated wells in the Paw Creek area, November 3, 1993.

14. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memos to file, June 7, 1995, May 24, 1995, July 5, 1995, September 28, 1994 and May 24, 1995. Current groundwater users within 1/4 mile of the Tom Sadler Road Wells site.

Tom Sadler Road Wells
NCD 986 231 967
REFERENCES

15. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, May 26, 1995. Groundwater users within 4 miles of the site.

16. Snavely, Keith, Hydrogeologist, NC Superfund Section, Memo to file, May 25, 1995, Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, April 26, 1995, Moore, Martha, NC Department of Human Resources, April 13, 1995, Public Water Supply Database.

17. Surface water pathway and wetland frontage.

    - Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, June 1, 1995,
    - Meikle, Robert L., "Drainage Areas of Selected Sites on Streams in North Carolina", North Carolina Department of Natural Resources and Community Development, 1983. and U. S. Geological Survey,
    - Water Resources Investigations Report 88-4094, "Map of Mean Annual Runoff for the Northeastern, Southeastern, and Mid-Atlantic United States, Water Years 1951 -80.

18. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, October 12 , 1993 and Flood Insurance Rate Map, Mecklenburg County, NC, Panel 70 of 210, February 3, 1993. Groundwater resource use, silviculture, and Flood Plain Information.

19. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memos to file, January 25, 1995 and October 13, 1993 and Rumford, G. Doug, Hydrogeologist, NC Superfund Section, Memo to file, June 17, 1993. Surface water intakes.

20. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, October 12, 1993. Fisheries.

21. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memos to file, May 10, 1995 and February 12, 1994. Sensitive environments.

22. NC State Center for Geographic Information and Analysis, Population 0 - 4 miles from the Tom Sadler Road Wells Site, April 17, 1995 and Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, April 18, 1995.

23. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, April 18, 1995. Wetland acreage within four miles of the site.

Tom Sadler Road Wells
NCD 986 231 967
REFERENCES

24. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, Jan. 10, 1994. Wellhead protection areas.

25. Micromedex, Inc., HSDB, PCE, Vol. 15, Expires Jan. 31, 1993, Municipal Environmental Research Laboratory, Office of Research and Development, US EPA, "Sources of Toxic Compounds in Household Wastewater, EPA-600/2-80-128, August 1980 and Merck & Co., Inc. The Merck Index, Tenth Edition, pp.1315, 1378, 1430, Rahway, N. J. 1983.

26. Stanley, Jeanette, Environmental Chemist, NC .Superfund Section, "Old Mount Holly Road PCE Site Inspection Report", September 1994 and "Consolidated Warehouse Site Inspection Report", January 1995.

27. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, Feb. 22, 1996.

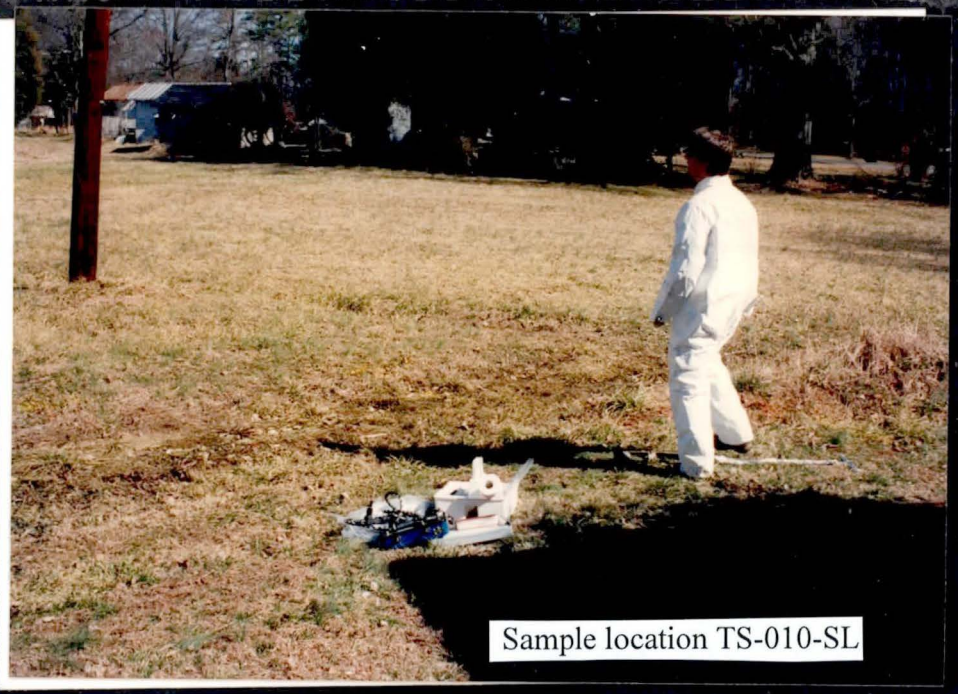
28. DeRosa, Pat, Head, Site Evaluation and Removal Branch, NC Superfund Section, letter to Myron D. Lair, Chief, US EPA Emergency Response and Removal Branch, May 14, 1996.

29. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memo to file, July 1, 1996 with attachment: Delta Environmental Consultants, Inc., Livingstone Coatings Corp., June 14, 1995.

30. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memos to file, August 22, 1995, May 17, 1996, May 21, 1996, July 1, 1996.

31. Stanley, Jeanette, Environmental Chemist, NC Superfund Section, Memos to file, July 22, 1996.

Photo

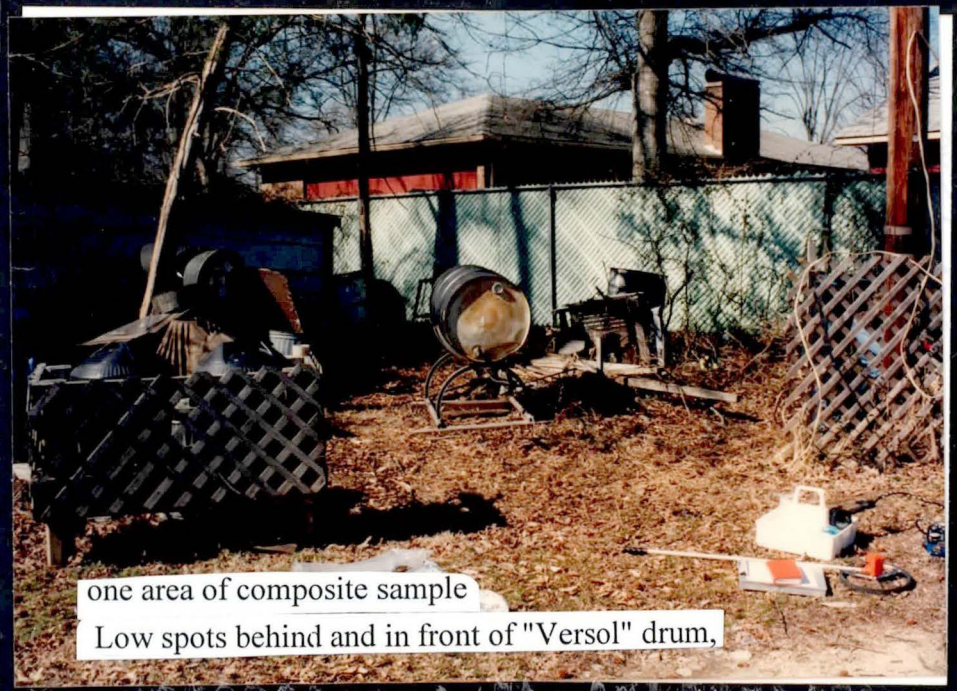


Sample location TS-010-SL

Poly and metal drums

Background soil

Between parts washer and well house, sample location TS-007-SL



one area of composite sample

Low spots behind and in front of "Versol" drum,

Sample area between shed and playhouse

Sample area between shed and playhouse

APPENDICIES A

EHNR
Division of Solid Waste Management
☑ Superfund Section
☐ Hazardous Waste Section
☐ Solid Waste Section

Organics Lab: _____
Inorganics Lab: ✓

RECEIVED
MAY 03 1996
SUPERFUND SECTION

CHAIN OF CUSTODY RECORD

Project Name: Tom Sadler Rd. Wells
Site ID # (NCD#) 986-231-967
Location: Charlotte, Mecklenburg Co., NC
Address: 2128 Tom Sadler Rd.

Sampled by: J. Stanley
Sampler ID
Telephone: ( ) 733-2801 x316
Date Sampled: 2/13/96
Time Sampled:

Sample Types: Soil ✓ Water ✓ Waste _____ Other _____

Remarks:

Field Sample Numbers

TS-3	TS-12	TS-21	TS-30	TS-38		
TS-6	TS-15	TS-24	TS-33			
TS-9	TS-18	TS-27	TS-36			

Relinquished by: Jeanette Stanley (Signature) Date: 1305 Time: 02/14/96

Received by: Joyce Barnes (Signature) Date: 2/14/96 Time: 1305

Relinquished by: _____ (Signature) Date: _____ Time: _____

Received by: _____ (Signature) Date: _____ Time: _____

Relinquished by: _____ (Signature) Date: _____ Time: _____

Received by: _____ (Signature) Date: _____ Time: _____

Results Reported: M E Walker (Signature) Date: 30 Apr 1996 Time: _____

(COCR.FRM)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-003-SL 02/13/96 1130 GRAB
Tom Sadler Road Wells, NC J. STANLEY
SOIL
Name of Site ESD LAB METALS Soil
Collected By ID# TS- 9 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	<2
Barium	
✓ Cadmium	120
Chloride	
✓ Chromium	<10
✓ Copper	<10
Fluoride	
Iron	
✓ Lead	20
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002265 FEB 14 96

Date Analyzed ____ Lab Number ____

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number _____ Field Sampl TS-004-SL 02/13/96 1200 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site _____ Site Locatic SOIL ESD LAB METALS Soil
TS- 12

Collected By _____ ID# _____ Date Collected _____ Time _____

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	_____
____ Surface water (2)	____ Liquid (6)	_____
____ Soil (3)	____ Sludge (7)	_____
____ Other (4)	____ Other (8)	_____

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	_____
____ Barium	_____
____ Cadmium	_____
____ Chromium	_____
____ Lead	_____
____ Mercury	_____
____ Selenium	_____
____ Silver	_____

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	_____
____ Acid:B/N Ext.	_____
____ MTBE	_____

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	<2
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	19
✓ Copper	46
Fluoride	
Iron	
✓ Lead	19
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

Organic Compounds	Results(mg/l)
____ benzene	_____
____ carbon tetrachloride	_____
____ chlordane	_____
____ chlorobenzene	_____
____ chloroform	_____
____ o-cresol	_____
____ m-cresol	_____
____ p-cresol	_____
____ cresol	_____
____ 1,4-dichlorobenzene	_____
____ 1,2-dichloroethane	_____
____ 1,1-dichloroethylene	_____
____ 2,4-dinitrotoluene	_____
____ heptachlor	_____
____ hexachlorobenzene	_____
____ hexachlorobutadiene	_____
____ hexachloroethane	_____
____ methyl ethyl ketone	_____
____ nitrobenzene	_____
____ pentachlorophenol	_____
____ pyridine	_____
____ tetrachloroethylene	_____
____ trichloroethylene	_____
____ 2,4,5-trichlorophenol	_____
____ 2,4,6-trichlorophenol	_____
____ vinyl chloride	_____
____ endrin	_____
____ lindane	_____
____ methoxychlor	_____
____ toxaphene	_____
____ 2,4-D	_____
____ 2,4,5-TP (Silvex)	_____

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	_____
____ Gross Beta	_____

Microbiology

Parameter	Results (Col/100ml)
_____	_____
_____	_____

Date Received _____ Reported by _____

Date Extracted _____ Date Reported _____

002266 FEB 1 1996

Date Analyzed _____ Lab Number _____

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-005-SD 02/13/96 1625 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SEDIMENT
ESD LAB METALS Sediment

Collected By TS- 18 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	
___ Surface water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	
___ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	<2
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	<10
✓ Copper	<10
Fluoride	
Iron	
✓ Lead	<30
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
___ Arsenic	
___ Barium	
___ Cadmium	
___ Chromium	
___ Lead	
___ Mercury	
___ Selenium	
___ Silver	

Organic Compounds	Results(mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dinitrotoluene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002267 FEB 14 96

Date Analyzed ____ Lab Number ____

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-006-SD 02/13/96 1550 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SEDIMENT
ESD LAB METALS Sediment

Collected By TS- 24 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	
___ Surface water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	
___ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	<2
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	26
✓ Copper	<10
Fluoride	
Iron	
✓ Lead	<30
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<10
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
___ Arsenic	
___ Barium	
___ Cadmium	
___ Chromium	
___ Lead	
___ Mercury	
___ Selenium	
___ Silver	

Organic Compounds	Results (mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dinitrotoluene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002268 FEB 1 1996

Date Analyzed ____ Lab Number ____

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-007-SL 02/13/96 1250 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL ESD LAB METALS Soil

Collected By ID# TS- 27 Date Collected Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	4
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	38
✓ Copper	14
Fluoride	
Iron	
✓ Lead	24
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received Reported by

Date Extracted Date Reported

002269 FEB 1 1996

Date Analyzed Lab Number

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-008-SL 02/13/96 1225 COMP
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL

ESD LAB METALS Soil
Collected By TS- 30 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	14
Barium	
✓ Cadmium	20
Chloride	
✓ Chromium	166
✓ Copper	130
Fluoride	
Iron	
✓ Lead	3,100
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	6.04
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

Date Analyzed ____ Lab Number ____

002270 FEB 14 96

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-010-SL 02/13/96 1315 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL

ESD LAB METALS Soil

Collected By TS- 33 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	
___ Surface water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	2
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	26
✓ Copper	26
Fluoride	
Iron	
✓ Lead	28
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002271 FEB 1 1996

Date Analyzed ____ Lab Number ____

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-011-SL 02/13/96 1340 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB METALS Soil
Collected By TS- 36 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	
___ Surface water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	
___ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	2
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	14
✓ Copper	18
Fluoride	
Iron	
✓ Lead	<20
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
___ Arsenic	
___ Barium	
___ Cadmium	
___ Chromium	
___ Lead	
___ Mercury	
___ Selenium	
___ Silver	

Organic Compounds	Results(mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dinitrotoluene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002272 FEB 14 96

Date Analyzed ____ Lab Number ____

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-001-PW 02/13/96 1345 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site POTABLE WELL
ESD LAB METALS Ground Water
Collected By TS- 3 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate
____ Ground water (1)	____ Solid (5)
____ Surface water (2)	____ Liquid (6)
____ Soil (3)	____ Sludge (7)
____ Other (4)	____ Other (8)

Comments: Mingus residence (well not being used for drinking

Organic Chemistry

Parameter	Results(mg/l)
P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l) ~~(mg/kg)~~
✓ Arsenic	<0.01
Barium	
✓ Cadmium	<0.002
Chloride	
✓ Chromium	<0.01
✓ Copper	<0.05
Fluoride	
Iron	
✓ Lead	0.031
Manganese	
✓ Mercury	<0.0005
Nitrate	
✓ Selenium	<0.005
✓ Silver	<0.05
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported 13 Mar 96

002260 FEB 14 96

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-002-PW 02/13/96 1450 GRAB
Name of Site Tom Sadler Road Wells, NC J. STANLEY
POTABLE WELL
Collected By ESD LAB METALS Ground Water Time
TS- 6

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	Cline Residence
___ Surface water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	
___ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) ~~(mg/kg)~~
✓ Arsenic	<0.01
___ Barium	
✓ Cadmium	<0.002
___ Chloride	
✓ Chromium	<0.01
✓ Copper	<0.05
___ Fluoride	
___ Iron	
✓ Lead	<0.005
___ Manganese	
✓ Mercury	<0.0005
___ Nitrate	
✓ Selenium	<0.005
✓ Silver	<0.05
___ Sulfates	
___ Zinc	
___ pH	
___ Conductivity	
___ TDS	
___ TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
___ Arsenic	
___ Barium	
___ Cadmium	
___ Chromium	
___ Lead	
___ Mercury	
___ Selenium	
___ Silver	

Organic Compounds	Results (mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dinitrotoluene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____
Date Extracted ____ Date Reported ____
Date Analyzed ____ Lab Number ____

002261 FEB 1 1996

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-005-SW 02/13/96 1625 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SURFACE WATER
ESD LAB METALS Surface Water
Collected By TS- 15 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	background
___ Surface water (2)	___ Liquid (6)	Surface water
___ Soil (3)	___ Sludge (7)	South of road
___ Other (4)	___ Other (8)	from Thomasford

Organic Chemistry

Parameter	Results(mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	
___ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l) ~~(mg/kg)~~
✓ Arsenic	<0.01
___ Barium	
✓ Cadmium	<0.002
___ Chloride	
✓ Chromium	<0.01
✓ Copper	<0.05
___ Fluoride	
___ Iron	
✓ Lead	<0.005
___ Manganese	
✓ Mercury	<0.0005
___ Nitrate	
✓ Selenium	<0.005
✓ Silver	<0.05
___ Sulfates	
___ Zinc	
___ pH	
___ Conductivity	
___ TDS	
___ TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
___ Arsenic	
___ Barium	
___ Cadmium	
___ Chromium	
___ Lead	
___ Mercury	
___ Selenium	
___ Silver	

Organic Compounds	Results(mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dinitrotoluene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002262 FEB 1 4 96

Date Analyzed ____ Lab Number ____

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-006-SW 02/13/96 1550 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SURFACE WATER

Collected By ESD LAB METALS Surface Water
TS- 21 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	Thomas Pond,
____ Surface water (2)	____ Liquid (6)	below wetlands
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)
✓ Arsenic	<0.01
____ Barium	
✓ Cadmium	<0.002
____ Chloride	
✓ Chromium	<0.01
✓ Copper	<0.05
____ Fluoride	
____ Iron	
✓ Lead	<0.005
____ Manganese	
✓ Mercury	<0.0005
____ Nitrate	
✓ Selenium	<0.005
✓ Silver	<0.05
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002263 FEB 1 1996

Date Analyzed ____ Lab Number ____

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-012-TB 02/13/96 1340 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY

Collected By TRIP BLANK ESD LAB METALS Other TS- 38 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	preservative
____ Surface water (2)	____ Liquid (6)	blank
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l) ~~(mg/kg)~~
✓ Arsenic	<0.01
Barium	
✓ Cadmium	<0.002
Chloride	
✓ Chromium	<0.01
✓ Copper	<0.05
Fluoride	
Iron	
✓ Lead	<0.005
Manganese	
✓ Mercury	<0.0005
Nitrate	
✓ Selenium	<0.005
✓ Silver	<0.05
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

Date Analyzed ____ Lab Number ____

002264 FEB1496

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

RECEIVED
MAR 29 1996
SUPERFUND SECTION

Site Number TS-001-PW 02/13/96 1345 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY

POTABLE WELL

Collected By ESD LAB ID# VOA TS- Ground Water 1 ne

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
✓ Ground water (1)	____ Solid (5)	G. J. Mingus well
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results (mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by John R. Mal

Date Extracted Date Reported 3-18-96

Date Analyzed 2-23-96 mw Lab Number 960690

#960690-960714

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-001-PW 02/13/96 1345 GRAB
Name of Site Tom Sadler Road Wells, NC J. STANLEY
POTABLE WELL
Collected By ESD LAB ID# EXT/PEST TS- Ground Water 2 me

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
✓ Ground water (1)	____ Solid (5)	G. J. Mingus well
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	
✓ Pest	
____ Endrin	<0.0001
____ Lindane	<0.0002
____ Methoxychlor	<0.001
____ Toxaphene	<0.002
____ Chlordane	<0.0002
____ Heptachlor	<0.0001
____ Heptachlor Epoxide	<0.0001
____ Dieldrin	<0.0001

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by
PEST 2-16-96 VP, JM
Date Extracted 2-15-96 SA, NB Date Reported
BNA
PEST 2-21-96 VP
Date Analyzed BNA 3-12-96 BD Lab Number 960691

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-002-PW 02/13/96 1450 GRAB
Tom Sadler Road Wells, NC J. STANLEY
POTABLE WELL

Name of Site ESD LAB VOA Ground Water

Collected By ID# TS- 4 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
✓ Ground water (1)	____ Solid (5)	Cline well
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results (mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted Date Reported

Date Analyzed 2-23-96 rw Lab Number 960692

DHS 3101 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-002-PW 02/13/96 1450 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site POTABLE WELL
ESD LAB EXT/PEST Ground Water
TS- 5

Collected By _____ Time _____

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
✓ Ground water (1)	____ Solid (5)	Cline well
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
P&T:GC/MS	
✓ Acid:B/N Ext.	
MTBE	
✓ Pest.	
Endrin	<0.0001
Lindane	<0.0002
Methoxychlor	<0.001
Toxaphene	<0.002
Chlordane	<0.0002
Heptachlor	<0.0001
Heptachlor Epoxide	<0.0001
Dieldrin	<0.0001

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results (mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by _____

Date Extracted PEST 2-16-96 VP, JM BNA 2-15-96 SA, AB Date Reported _____

Date Analyzed PEST 2-21-96 VP BNA 3-12-96 BQ Lab Number 960693

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-003-SL 02/13/96 1130 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB VOA Soil

Collected By TS- 7 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	background
____ Surface water (2)	____ Liquid (6)	ditch soil
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Chemistry

Parameter	Results(mg/l)
✓ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA,JM Reported by

Date Extracted Date Reported

Date Analyzed 2-27-96 nw Lab Number 960694

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-003-SL 02/13/96 1130 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB EXT ORG Soil
TS- 8

Collected By _____ ID# _____ Date Collected _____ Time _____

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	background ~~downgradient~~
____ Surface water (2)	____ Liquid (6)	ditch soil
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results (mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by _____

Date Extracted 2-16-96 SA, AB Date Reported _____

Date Analyzed 3-12-96 BD Lab Number 960695

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-004-SL 02/13/96 1200 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB VOA Soil

Collected By TS- 10 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	downgradient
____ Surface water (2)	____ Liquid (6)	ditch soil
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted Date Reported

Date Analyzed 2-27-96 MW Lab Number 960696

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-004-SL 02/13/96 1200 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY

SOIL

Collected By ESD LAB EXT ORG Soil TS- 11 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	downgradient
____ Surface water (2)	____ Liquid (6)	ditch soil
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted 2-16-96 SA, AB Date Reported

Date Analyzed 3-12-96 BD Lab Number 960697

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-005-SW 02/13/96 1625 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY
SURFACE WATER
ESD LAB

Collected By _____ ID# _____

VOA TS- 13 Surface Water

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	background sw,
✓ Surface water (2)	___ Liquid (6)	above Thomas Pond,
___ Soil (3)	___ Sludge (7)	S of Road.
___ Other (4)	___ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results (mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by _____

Date Extracted _____ Date Reported _____

Date Analyzed 2-23-96 mw Lab Number 960698

LHS 3101 (Revised 2/01)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-005-SW 02/13/96 1625 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SURFACE WATER

Collected By ESD LAB EXT ORG TS- Surface Water 14 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	background SW,
✓ Surface water (2)	____ Liquid (6)	above Thomas Pond,
____ Soil (3)	____ Sludge (7)	South of Rd.
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted 2-15-96 SA, AB Date Reported

Date Analyzed 3-12-96 BD Lab Number 960699

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-005-SD 02/13/96 1625 GRAB
Tom Sadler Road Wells, NC
SEDIMENT J. STANLEY
Name of Site ESD LAB VOA
Collected By TS- 16 Sediment Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	background
____ Surface water (2)	____ Liquid (6)	sediment, above
✓ Soil (3)	____ Sludge (7)	Thomas Pond,
____ Other (4)	____ Other (8)	S. of Road

Organic Chemistry

Parameter	Results (mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results (mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by
Date Extracted Date Reported
Date Analyzed 2-27-96 nw Lab Number 960700

DHS 3101 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-005-SD 02/13/96 1625 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SEDIMENT
ESD LAB EXT ORG Sediment

Collected By TS- ID# 17 Date Collected Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	background
____ Surface water (2)	____ Liquid (6)	sediment, above
✓ Soil (3)	____ Sludge (7)	Thomas Pond,
____ Other (4)	____ Other (8)	South of Road

Organic Chemistry

Parameter	Results (mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results (mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted 2-16-96 SA, AB Date Reported

Date Analyzed 3-12-96 BD Lab Number 960701

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-006-SW 02/13/96 1550 GRAB
Tom Sadler Road Wells, NC J. STANLEY
SURFACE WATER

Name of Site ESD LAB VOA Surface Water

Collected By TS- 19 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	Thomas Pond,
✓ Surface water (2)	____ Liquid (6)	below wetlands
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results (mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Organic Chemistry

Parameter	Results (mg/l)
✓ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

Date Received 2-14-96 SA, JM Reported by

Date Extracted Date Reported

Date Analyzed 2-27-96 mw Lab Number 960702

DHS 3101 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

TS-006-SW 02/13/96 1550 GRAB
Tom Sadler Road Wells, NC J. STANLEY
SURFACE WATER
ESD LAB EXT ORG Surface Water
TS- 20

Site Number _____

Name of Site _____

Collected By _____ ID# _____ Date Collected _____ Time _____

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	Thomas Pond,
✓ Surface water (2)	____ Liquid (6)	below wetlands
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by _____

Date Extracted 2-15-96 SA, NB Date Reported _____

Date Analyzed 3-12-96 BD Lab Number 960703

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-006-SD 02/13/96 1550 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SEDIMENT

Collected By ESD LAB VOA Sediment
TS- 22 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	Thomas Pond
____ Surface water (2)	____ Liquid (6)	Sediment below
✓ Soil (3)	____ Sludge (7)	wetlands
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted Date Reported

Date Analyzed 2-27-96 MW Lab Number 960704

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-006-SD 02/13/96 1550 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SEDIMENT ESD LAB EXT ORG Sediment

Collected By TS- ID# 23 Date Collected Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	Thomas Pond
____ Surface water (2)	____ Liquid (6)	sediment
✓ Soil (3)	____ Sludge (7)	below wetlands
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results (mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted 2-16-96 SA, AB Date Reported

Date Analyzed 3-13-96 BD Lab Number 960705

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

TS-007-SL 02/13/96 1250 GRAB
Site Number SOIL Tom Sadler Road Wells, NC J. STANLEY
Name of Site ESD LAB VOA
Collected By TS- ID# 25 Soil Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	Low area near
____ Surface water (2)	____ Liquid (6)	parts washer
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results (mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by
Date Extracted Date Reported
Date Analyzed 2-27-96 MW Lab Number 960706

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-007-SL 02/13/96 1250 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB EXT ORG Soil

Collected By TS- 26 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	Low area near
____ Surface water (2)	____ Liquid (6)	parts washer
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted 2-16-96 SA, AB Date Reported

Date Analyzed 3-13-96 BO Lab Number 960707

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-008-SL 02/13/96 1225 COMP
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB VOA Soil

Collected By TS- 28 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	Composition
____ Surface water (2)	____ Liquid (6)	drum storage
✓ Soil (3)	____ Sludge (7)	area
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA,JM Reported by

Date Extracted Date Reported

Date Analyzed 2-27-96 mw Lab Number 960708

DHS 3191 (Revised 2/01)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-008-SL 02/13/96 1225 COMP
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB EXT ORG Soil

Collected By TS- 29 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	composite in
____ Surface water (2)	____ Liquid (6)	drum storage
✓ Soil (3)	____ Sludge (7)	area
____ Other (4)	____ Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted 2-16-96 SA, AB Date Reported

Date Analyzed 3-13-96 BD Lab Number 960709

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-010-SL 02/13/96 1315 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY

SOIL

Collected By ESD LAB VOA Soil

TS- 31

Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	in ditch near
____ Surface water (2)	____ Liquid (6)	septic tank
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results (mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted Date Reported

Date Analyzed 2-28-96 MW Lab Number 960710

DHS 3101 (Revised 2/01)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-010-SL 02/13/96 1315 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB EXT ORG Soil

Collected By TS- 32 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	in ditch near
____ Surface water (2)	____ Liquid (6)	septic tank
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted 2-16-96 SA, DB Date Reported

Date Analyzed 3-13-96 BD Lab Number 960711

DHS 2101 (Revised 2/01)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-011-SL 02/13/96 1340 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY

Collected By SOIL ESD LAB VOA Soil TS- 34 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	background soil
____ Surface water (2)	____ Liquid (6)	
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted Date Reported

Date Analyzed 2-28-96 mw Lab Number 960712

DHS 3191 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-011-SL 02/13/96 1340 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY SOIL

Collected By ESD LAB ID# TS- 35 Date Collected EXT ORG Soil Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	background soil
____ Surface water (2)	____ Liquid (6)	
✓ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results (mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Organic Chemistry

Parameter	Results (mg/l)
____ P&T:GC/MS	
✓ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l) (mg/kg)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chloride	
____ Chromium	
____ Copper	
____ Fluoride	
____ Iron	
____ Lead	
____ Manganese	
____ Mercury	
____ Nitrate	
____ Selenium	
____ Silver	
____ Sulfates	
____ Zinc	
____ pH	
____ Conductivity	
____ TDS	
____ TOC	

Date Received 2-14-96 SA, JM Reported by

Date Extracted 2-16-96 SA, NB Date Reported

Date Analyzed 3-13-96 BD Lab Number 960713

DHS 3101 (Revised 2/91)

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-012-TB 02/13/96 1340 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site TRIP BLANK
ESD LAB VOA Other

Collected By TS- 37 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	trip blank
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
✓ P&T:GC/MS	
Acid:B/N Ext.	
MTBE	

Radiochemistry

Parameter	Results (PCi/l)
Gross Alpha	
Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
Arsenic	
Barium	
Cadmium	
Chloride	
Chromium	
Copper	
Fluoride	
Iron	
Lead	
Manganese	
Mercury	
Nitrate	
Selenium	
Silver	
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received 2-14-96 SA, JM Reported by

Date Extracted Date Reported

Date Analyzed 2-23-96 MW Lab Number 960714

DHS 3191 (Revised 2/91)

NC DEHNR
Division of Solid Waste Management
☑ Superfund Section
☐ Hazardous Waste Section
☐ Solid Waste Section

Organics Lab: ✓
Inorganics Lab: _____

CHAIN OF CUSTODY RECORD

Project Name: Tom Sadler Rd Wells
Site ID # (NCD#) 986 231 967
Location: Charlotte, Mecklenburg Co., NC
Address: 2128 Tom Sadler Rd.

Sampled by: J. Stanley
Sampler ID _____
Telephone: (919) 733-2801 X 316
Date Sampled: 2/13/96
Time Sampled: _____

Sample Types: Soil ✓ Water ✓ Waste _____ Other _____

Remarks: _____

Field Sample Numbers: TS-1, TS-2, TS-4, TS-5, TS-7, TS-8, TS-10, TS-11, TS-16, TS-17, TS-13, TS-14, TS-22, TS-23, TS-19, TS-20, TS-25, TS-26, TS-28, TS-29, TS-31, TS-32, TS-34, TS-35, TS-37

Relinquished by: Jennifer Stanley (Signature) Date: 2/14/96 Time: 1325

Received by: Sheila Crews (Signature) Date: 2-14-96 Time: 1:25

Relinquished by: _____ (Signature) Date: _____ Time: _____

Received by: _____ (Signature) Date: _____ Time: _____

Relinquished by: _____ (Signature) Date: _____ Time: _____

Received by: _____ (Signature) Date: _____ Time: _____

Results Reported: John E. Neal (Signature) Date: 3/18/96 Time: _____
26

A:\COCR.FRM)

STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

ORGANIC CHEMICAL ANALYSIS

PURGEABLE COMPOUNDS	LAB NO	960690	960692	960694	960696	960698	960700
	FIELD NO	TS-1	TS-4	TS-7	TS-10	TS-13	TS-16
		Minguswell	Clinewell	soil	ditch soil P	water background Thomas Pond	Sediment background Thomas Pond
COMPOUND	TYPE	(1)	(1)	(3)	(3)	(2)	(3)
	MDL'S (ppb)	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm
CHLOROMETHANE	20	u	u	u	u	u	u
VINYL CHLORIDE	10	↓	↓	↓	↓	↓	↓
BROMOMETHANE	20	↓	↓	↓	↓	↓	↓
CHLOROETHANE	10	90	↓	↓	↓	↓	↓
TRICHLOROFLUOROMETHANE	10	u	↓	↓	↓	↓	↓
ACETONE	20	↓	4J	↓	↓	4J	20J
1,1-DICHLOROETHENE	5	1287	u	↓	↓	u	u
IODOMETHANE	↓	u	↓	↓	↓	↓	↓
METHYLENE CHLORIDE	↓	↓	↓	↓	↓	↓	↓
CARBON DISULFIDE	↓	↓	↓	↓	↓	↓	↓
TRANS-1,2-DICHLOROETHENE	↓	↓	↓	↓	↓	↓	↓
ACRYLONITRILE	20	↓	↓	↓	↓	↓	↓
1,1-DICHLOROETHANE	5	148	↓	↓	↓	↓	↓
2-BUTANONE	20	u	↓	↓	↓	↓	2J
CIS-1,2-DICHLOROETHENE	5	trace	↓	↓	↓	↓	u
CHLOROFORM	↓	u	↓	↓	↓	↓	↓
1,1,1-TRICHLOROETHANE	↓	323	↓	↓	↓	↓	↓
CARBON TETRACHLORIDE	↓	u	↓	↓	↓	↓	↓
BENZENE	↓	trace	↓	↓	↓	↓	↓
1,2-DICHLOROETHANE	↓	2J	↓	↓	↓	↓	↓
TRICHLOROETHENE	↓	1J	↓	↓	↓	↓	↓
1,2-DICHLOROPROPANE	↓	u	↓	↓	↓	↓	↓
BROMODICHLOROMETHANE	↓	↓	↓	↓	↓	↓	↓

C - POSSIBLE LAB CONTAMINATION OR BACKGROUND.
J - Estimated value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - COMPOUND RELIABLY DETECTABLE ONLY IN HIGH CONCENTRATIONS.
✓ - SAMPLE HIGHLY DILUTED. MDL'S DO NOT APPLY.

P = unidentified peak(s) present

STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

ORGANIC CHEMICAL ANALYSIS

P

PURGEABLE COMPOUNDS	LAB NO	960690	960692	960694	960696	960698	960700
	FIELD NO	TS-1	TS-4	TS-7	TS-10	TS-13	TS-16
COMPOUND	TYPE	(1)	(1)	(3)	(3)	(2)	(3)
	MDL's (ppb)	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm
DIBROMOMETHANE	5	u	u	u	u	u	u
4-METHYL-2-PENTANONE	10						
CIS-1,3-DICHLOROPROPENE	5						
TOLUENE							
TRANS-1,3-DICHLOROPROPENE							
1,1,2,2-TETRACHLOROETHANE							
1,1,2-TRICHLOROETHANE	↓						
2-HEXANONE	10	↓					
TETRACHLOROETHENE	5	trace					
DIBROMOCHLOROMETHANE		u					
ETHYLENE DIBROMIDE							
CHLOROBENZENE							
1,1,1,2-TETRACHLOROETHANE							
ETHYL BENZENE							
XYLENES							
STYRENE	↓						
BROMOFORM	10						
TRANS-1,4-DICHLORO-2-BUTENE	80						
1,2,3-TRICHLOROPROPANE	5						
1,4-DICHLOROBENZENE							
1,2-DICHLOROBENZENE	↓						
1,2-DIBROMO-3-CHLOROPROPANE	20						
VINYL ACETATE	200	↓	↓	↓	↓	↓	↓

C - POSSIBLE LAB CONTAMINATION OR BACKGROUND.
J - Estimated value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - COMPOUND RELIABLY DETECTABLE ONLY IN HIGH CONCENTRATIONS.
✓ - SAMPLE HIGHLY DILUTED. MDL'S DO NOT APPLY.

STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

ORGANIC CHEMICAL ANALYSIS

PURGEABLE COMPOUNDS	LAB NO	960702	960704	960706	960708	960710	960712
	FIELD NO	TS-19	TS-22	TS-25	TS-28	TS-31	TS-34
		Thomas Pond water	Thomas Pond Sediment	P	P	parts washer on-site soil	on-site drum area soil	on-site septic tank area soil	background soil
COMPOUND	TYPE	(2)	(3)	(3)	(3)	(3)	(3)	(3)
	MDL'S (ppb)	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm
CHLOROMETHANE	20	u	u	u	u	u	u
VINYL CHLORIDE	10						
BROMOMETHANE	20						
CHLOROETHANE	10						
TRICHLOROFLUOROMETHANE	10						
ACETONE	20		20 J			20 J	
1,1-DICHLOROETHENE	5		u			u	
IODOMETHANE							
METHYLENE CHLORIDE		3 J,C			1 J,C	3 J,C	
CARBON DISULFIDE		u			u	u	
TRANS-1,2-DICHLOROETHENE							
ACRYLONITRILE	20						
1,1-DICHLOROETHANE	5						
2-BUTANONE	20					2 J	
CIS-1,2-DICHLOROETHENE	5					u	
CHLOROFORM			trace			trace	
1,1,1-TRICHLOROETHANE			u		trace	u	
CARBON TETRACHLORIDE					u		
BENZENE							
1,2-DICHLOROETHANE							
TRICHLOROETHENE							
1,2-DICHLOROPROPANE							
BROMODICHLOROMETHANE							

C - POSSIBLE LAB CONTAMINATION OR BACKGROUND.
J - Estimated value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - COMPOUND RELIABLY DETECTABLE ONLY IN HIGH CONCENTRATIONS.
✓ - SAMPLE HIGHLY DILUTED. MDL'S DO NOT APPLY.

* C_8-C_{13} hydrocarbons present

P = unidentified peak(s) present

PURGCOM.ORG

STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

ORGANIC CHEMICAL ANALYSIS

PURGEABLE COMPOUNDS	LAB NO	960702	960704 P	960706 P	960708	960710	960712
	FIELD NO	TS-19	TS-22	TS-25	TS-28	TS-31	TS-34
COMPOUND	TYPE	(2)	(3)	(3)	(3)	(3)	(3)
	MDL's (ppb)	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm
DIBROMOMETHANE	5	u	u	u	u	u	u
4-METHYL-2-PENTANONE	10						
CIS-1,3-DICHLOROPROPENE	5						
TOLUENE							
TRANS-1,3-DICHLOROPROPENE							
1,1,2,2-TETRACHLOROETHANE							
1,1,2-TRICHLOROETHANE	↓						
2-HEXANONE	10						
TETRACHLOROETHENE	5						
DIBROMOCHLOROMETHANE							
ETHYLENE DIBROMIDE							
CHLOROBENZENE							
1,1,1,2-TETRACHLOROETHANE					↓		
ETHYL BENZENE					trace		
XYLENES					3J		
STYRENE	↓				trace		
BROMOFORM	10				u		
TRANS-1,4-DICHLORO-2-BUTENE	80						
1,2,3-TRICHLOROPROPANE	5						
1,4-DICHLOROBENZENE							
1,2-DICHLOROBENZENE	↓						
1,2-DIBROMO-3-CHLOROPROPANE	20						
VINYL ACETATE	200	↓	↓	↓	↓	↓	↓

C - POSSIBLE LAB CONTAMINATION OR BACKGROUND.
J - Estimated value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - COMPOUND RELIABLY DETECTABLE ONLY IN HIGH CONCENTRATIONS.
✓ - SAMPLE HIGHLY DILUTED. MDL'S DO NOT APPLY.

(5)

STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

ORGANIC CHEMICAL ANALYSIS

tripblank

PURGEABLE COMPOUNDS	LAB NO	960714					
	FIELD NO	TS-37					
COMPOUND	TYPE	(|)	( )	( )	( )	( )	( )
	MDL'S (ppb)	(ppb) ppm	ppb ppm	ppb ppm	ppb ppm	ppb ppm	ppb ppm
CHLOROMETHANE	20	U					
VINYL CHLORIDE	10						
BROMOMETHANE	20						
CHLOROETHANE	10						
TRICHLOROFLUOROMETHANE	10						
ACETONE	20						
1,1-DICHLOROETHENE	5						
IODOMETHANE							
METHYLENE CHLORIDE							
CARBON DISULFIDE							
TRANS-1,2-DICHLOROETHENE	✓						
ACRYLONITRILE	20						
1,1-DICHLOROETHANE	5						
2-BUTANONE	20						
CIS-1,2-DICHLOROETHENE	5						
CHLOROFORM							
1,1,1-TRICHLOROETHANE							
CARBON TETRACHLORIDE							
BENZENE							
1,2-DICHLOROETHANE							
TRICHLOROETHENE							
1,2-DICHLOROPROPANE		✓					
BROMODICHLOROMETHANE	✓						

C - POSSIBLE LAB CONTAMINATION OR BACKGROUND.
J - Estimated value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - COMPOUND RELIABLY DETECTABLE ONLY IN HIGH CONCENTRATIONS.
✓ - SAMPLE HIGHLY DILUTED. MDL'S DO NOT APPLY.

STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

ORGANIC CHEMICAL ANALYSIS

PURGEABLE COMPOUNDS	LAB NO	960714					
	FIELD NO	TS-37					
COMPOUND	TYPE	(|)	( )	( )	( )	( )	( )
	MDL's (ppb)	(ppb) ppm	ppb ppm	ppb ppm	ppb ppm	ppb ppm	ppb ppm
DIBROMOMETHANE	5	U					
4-METHYL-2-PENTANONE	10						
CIS-1,3-DICHLOROPROPENE	5						
TOLUENE							
TRANS-1,3-DICHLOROPROPENE							
1,1,2,2-TETRACHLOROETHANE							
1,1,2-TRICHLOROETHANE	✓						
2-HEXANONE	10						
TETRACHLOROETHENE	5						
DIBROMOCHLOROMETHANE							
ETHYLENE DIBROMIDE							
CHLOROBENZENE							
1,1,1,2-TETRACHLOROETHANE							
ETHYL BENZENE							
XYLENES							
STYRENE	✓						
BROMOFORM	10						
TRANS-1,4-DICHLORO-2-BUTENE	80						
1,2,3-TRICHLOROPROPANE	5						
1,4-DICHLOROBENZENE							
1,2-DICHLOROBENZENE	✓						
1,2-DIBROMO-3-CHLOROPROPANE	20						
VINYL ACETATE	200	✓					

C - POSSIBLE LAB CONTAMINATION OR BACKGROUND.
J - Estimated value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
2/ - COMPOUND RELIABLY DETECTABLE ONLY IN HIGH CONCENTRATIONS.
✓ - SAMPLE HIGHLY DILUTED. MDL'S DO NOT APPLY.

(1)

STATE LABORATORY OF PUBLIC HEALTH

P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES COMPOUND	LAB NO	960691	960693	960695	960697	960699	960701
	FIELD #	TS-2	TS-5	TS-8	TS-11	TS-14	TS-17
		Mingus well	Cline Well	background	Soil	background Thomas Pond water	background Thomas Pond Sediment
	TYPE	(1)	(1)	(3)	(3)	(2)	(3)
	UNITS	µg/l ~~µg/kg~~	µg/l ~~µg/kg~~	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	µg/l ~~µg/kg~~	~~µg/l~~ µg/kg
[redacted]nitrosodimethylamine	10/330	U	U	U	U	U	U
[redacted]s(2-chloroethyl)ether	↓	↓	↓	↓	↓	↓	↓
2-chlorophenol	↓	↓	↓	↓	↓	↓	↓
[redacted]henol	↓	↓	↓	↓	↓	↓	↓
[redacted]3-dichlorobenzene	↓	↓	↓	↓	↓	↓	↓
[redacted],4-dichlorobenzene	↓	↓	↓	↓	↓	↓	↓
1,2-dichlorobenzene	↓	↓	↓	↓	↓	↓	↓
[redacted]s(2-chloroisopropyl)ether	↓	↓	↓	↓	↓	↓	↓
[redacted]xachloroethane	↓	↓	↓	↓	↓	↓	↓
N-nitroso-di-n-propylamine	↓	↓	↓	↓	↓	↓	↓
[redacted]itrobenzene	↓	↓	↓	↓	↓	↓	↓
[redacted]ophorone	↓	↓	↓	↓	↓	↓	↓
2-nitrophenol	↓	↓	↓	↓	↓	↓	↓
2,4-dimethylphenol	↓	↓	↓	↓	↓	↓	↓
[redacted]s(2-chloroethoxy)methane	↓	↓	↓	↓	↓	↓	↓
[redacted],4-dichlorophenol	↓	↓	↓	↓	↓	↓	↓
1,2,4-trichlorobenzene	↓	↓	↓	↓	↓	↓	↓
[redacted]phthalene	↓	↓	↓	↓	↓	↓	↓
[redacted]xachlorobutadiene	↓	↓	↓	↓	↓	↓	↓
4-chloro-m-cresol	↓	↓	↓	↓	↓	↓	↓
[redacted]xachlorocyclopentadiene	↓	↓	↓	↓	↓	↓	↓
[redacted]4,6-trichlorophenol	↓	↓	↓	↓	↓	↓	↓
2-chloronaphthalene	↓	↓	↓	↓	↓	↓	↓
acenaphthylene	↓	↓	↓	↓	↓	↓	↓
[redacted]methyl phthalate	↓	↓	↓	↓	↓	↓	↓
[redacted],6-dinitrotoluene	↓	↓	↓	↓	↓	↓	↓
acenaphthene	↓	↓	↓	↓	↓	↓	↓
[redacted]4-dinitrophenol	50/1650	↓	↓	↓	↓	↓	↓
[redacted]4-dinitrotoluene	10/330	↓	↓	↓	↓	↓	↓
4-nitrophenol	50/1650	↓	↓	↓	↓	↓	↓
[redacted]luorene	10/330	↓	↓	↓	↓	↓	↓
[redacted]-chlorophenylphenylether	↓	↓	↓	↓	↓	↓	↓
diethyl phthalate	↓	↓	↓	↓	↓	↓	↓
4,6-dinitro-o-cresol	50/1650	↓	↓	↓	↓	↓	↓
[redacted]iphenylamine	10/330	↓	↓	↓	↓	↓	↓
[redacted]zobenzene	↓	↓	↓	↓	↓	↓	↓
4-bromophenylphenylether	↓	↓	↓	↓	↓	↓	↓
[redacted]exachlorobenzene	↓	↓	↓	↓	↓	↓	↓
[redacted]entachlorophenol	50/1650	↓	↓	↓	↓	↓	↓
phenanthrene	10/330	↓	↓	↓	↓	↓	↓
[redacted]nthracene	↓	↓	↓	↓	↓	↓	↓
[redacted]ibutyl phthalate	↓	↓	↓	↓	↓	↓	↓
Fluoranthene	↓	↓	↓	↓	↓	↓	↓
	MDL H_2O/SOIL						

[redacted] - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
[redacted] - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
[redacted]A - Not analyzed.
[redacted]/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

STATE LABORATORY OF PUBLIC HEALTH

P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	9600691	9600693	9600695	9600697	9600699	9600701
	FIELD #	TS-2	TS-5	TS-8	TS-11	TS-14	TS-17
COMPOUND	TYPE	(1)	(1)	(3)	(3)	(2)	(3)
	UNITS	µg/l ~~µg/kg~~	µg/l ~~µg/kg~~	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	µg/l ~~µg/kg~~	~~µg/l~~ µg/kg
pyrene	10/330	U	U	U	U	U	U
benzidine	50/1650						
butyl benzyl phthalate	10/330						
benz(a)anthracene							
chrysene							
3,3-dichlorobenzidine	50/1650						
bis(2-ethylhexyl)phthalate	10/330						
di-n-octyl phthalate	10/330						
benzo(b)fluoranthene	50/1650						
benzo(k)fluoranthene							
benzo(a)pyrene							
indeno(1,2,3-cd)pyrene							
dibenzo(a,h)anthracene							
benzo(g,h,i)perylene							
aniline	50/1650	U	U	U	U	U	U
benzoic acid							
benzyl alcohol							
4-chloroaniline							
dibenzofuran	10/330						
2-methylnaphthalene							
2-methylphenol							
4-methylphenol							
2-nitroaniline	50/1650						
3-nitroaniline							
4-nitroaniline							
2,4,5-trichlorophenol							
HYDROCARBONS	+/-	-	-	-	-	-	-

MDL
H2O/SOIL

J - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

3

STATE LABORATORY OF PUBLIC HEALTH

P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES COMPOUND	LAB NO	960703	960705	960707	960709	960711	960713
	FIELD #	TS-20	TS-23	TS-26	TS-29	TS-32	TS-35
		Thomas Pond water	sediment	on-site soil	drum area on-site soil	on-site soil	background soil
	TYPE	(2)	(3)	(3)	(3)	(3)	(3)
	UNITS	µg/l ~~µg/kg~~	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg
N-nitrosodimethylamine	10/330	U	U	U	U	U	U
bis(2-chloroethyl)ether							
2-chlorophenol							
phenol							
1,3-dichlorobenzene							
1,4-dichlorobenzene							
1,2-dichlorobenzene							
bis(2-chloroisopropyl)ether							
hexachloroethane							
N-nitroso-di-n-propylamine							
nitrobenzene							
isophorone							
2-nitrophenol							
2,4-dimethylphenol							
bis(2-chloroethoxy)methane							
2,4-dichlorophenol							
1,2,4-trichlorobenzene							
naphthalene							
hexachlorobutadiene							
4-chloro-m-cresol							
hexachlorocyclopentadiene							
2,4,6-trichlorophenol							
2-chloronaphthalene							
acenaphthylene							
dimethyl phthalate							
2,6-dinitrotoluene							
acenaphthene	↓						
2,4-dinitrophenol	50/1650						
2,4-dinitrotoluene	10/330						
4-nitrophenol	50/1650						
fluorene	10/330						
4-chlorophenylphenylether	↓						
diethyl phthalate	↓						
4,6-dinitro-o-cresol	50/1650						
diphenylamine	10/330						
azobenzene	↓						
4-bromophenylphenylether	↓						
hexachlorobenzene	↓						
pentachlorophenol	50/1650						
phenanthrene	10/330						
anthracene	↓						
dibutyl phthalate	↓	✓	✓	✓	✓ 330 K	✓	✓
fluoranthene	↓				U		

MDL
H_2O/SOIL

[redacted] - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
[redacted] - Not analyzed.
[redacted] - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

(4)

STATE LABORATORY OF PUBLIC HEALTH

P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	960703	960705	960707	960709	960711	960713
	FIELD #	TS-20	TS-23	TS-26	TS-29	TS-32	TS-35
COMPOUND	TYPE	(2)	(3)	(3)	(3)	(3)	(3)
	UNITS	µg/l ~~µg/kg~~	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg
pyrene	10/330	U	U	U	U	U	U
benzidine	50/1650						
butyl benzyl phthalate	10/330						
benz(a)anthracene							
chrysene							
3,3-dichlorobenzidine	50/1650						
bis(2-ethylhexyl)phthalate	10/330				10,133		
di-n-octyl phthalate	10/330				U		
benzo(b)fluoranthene	50/1650						
benzo(k)fluoranthene							
benzo(a)pyrene							
indeno(1,2,3-cd)pyrene							
dibenzo(a,h)anthracene							
benzo(g,h,i)perylene							
aniline	50/1650	U	U	U	U	U	U
benzoic acid							
benzyl alcohol							
4-chloroaniline							
dibenzofuran	10/330						
2-methylnaphthalene							
2-methylphenol							
4-methylphenol							
2-nitroaniline	50/1650						
3-nitroaniline							
4-nitroaniline							
2,4,5-trichlorophenol							
HYDROCARBONS	+/-	-	-	-	+	-	-

MDL

H_2O/SOIL

J - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

Ref. 27

MEMO

DATE: February 22, 1996

TO: FILE

FROM: Jeanette Stanley
Environmental Chemist
NC Superfund Section

SITE: Tom Sadler Road Wells
NCD 986 231 967
Charlotte, Mecklenburg, North Carolina

On February 13. 1996, Bruce Nicholson and I went to the Tom Sadler Road wells site at 2128 Tom Sadler Road, the home of Garland Mingus. We arrived at 1040 am. It was a clear, sunny day, around 50°F. We met with Beyers Engineering, Charlotte Mecklenburg Utilities Department and Mr. Mingus. Beyers Engineering said that there was a major fiber-optic cable line crossing Tom Sadler Road at Marita Drive, on the side closer to the site. There was also a gas main in the ditch at about 30" depth. All gas, phone and electrical lines were marked. CMUD said there were no sewer lines in the area, but showed us where the water line was.

We noted the ditch along the north and northeast side of the home that ran from the garage to the road. It appeared that overland flow from this ditch that reached the road only when there was a heavy rain. Otherwise a low area allowed the water to pool and eventually seep into the ground in the vicinity of the septic tank.

OVA #40613, calibration reading 3.00 was used to monitor for organic vapors. There was a wood fire in the area and the background reading was 3 meter units.

We first sampled the background roadside ditch soil, TS-003-SL. We removed the top 2" of soil and sampled 2 - 10" in depth, using the same auger. There was no standing water in the ditch. The soil was a tight clay with some organic matter. The sample location was 121' upgradient from the east of the driveway culvert. The ditch from the garage entered the roadside ditch 43' upgradient from the east side of the driveway culvert. Sample TS-003-SL was taken at 1130.

We went to the downgradient ditch, 98' below the western edge of the driveway culvert. We removed the top 2" of soil and sampled as we did the background ditch sample. Some water filled the hole in the ditch. No reading was indicated on the OVA. Sample TS-004-SL was taken at 1200.

We then went to the drum area on the west side of the home. Four points were used in the composite -- an area of stained soil between the playhouse and the shed, low points near the drum marked "Versol" and an area of stained soil near the metal and poly drums. The top 2" of soil was removed from each spot. Soil was removed from each location with the same trowel. Some soil from each spot was placed in the VOA soil Jar, then the soil was mixed and the semivolatile and metal soil samples were taken. Sample TS-008-SL was collected at 1225. The soil in the mixing pan registered 10 meter units. Photographs 1 - 5 were taken in this area.

We went to the low area between the parts washer and the well house, on the east side of the garage. We augured to 6" and used the OVA in the hole. There was no reading above background. The sample was taken from 6 - 15". The OVA still showed no reading in the hole. The soil was a sandy clay with no stains below 4". Sample TS-007-SL was taken at 1250. Photograph #6 was taken at this sample point.

Four panoramic photographs were taken of the low area receiving runoff from the east side of the garage. We went to the lowest area, in the vicinity of the septic tank. Making sure we were clear of utility markings, we augured to 4". The OVA showed a reading of 50 meter units in the hole. We took sample TS-010-SL from 4" to about 15" at 1315. We then sampled the Mingus well. It is still used for washing cars and watering the garden. Water was turned on at 1325. Readings stabilized at pH 6.82, temperature 16.0°C, and conductivity 334. Sample TS-012-TB (trip blank was prepared at 1340 and sample TS-001-PW (Mingus well) was taken at 1345-1400. VOA vials were pre-acidified for the next well sample at this time.

Bruce took the background soil sample while I prepared the well sample. The background soil TS-011-SL was taken at 1340 from 2" - 15" depth. The soil was a brown clay down to 10". The soil from 10" to 15" was a tan clay. This sample was taken 200' north of the rear corner of the well house, in the back center of the lot.

We then went to the William Cline residence at 9624 Mount Holly Road. We met with Mrs. Cline at 1415. The closest tap we could locate was by the Cline driveway. We began purging at 1430. The well stabilized at pH 6.88, temp 12.6 and conductivity 350. Sample TS-002-PW was taken at 1450.

We arrived at the Thomas Pond headwaters at 1530. We noted a clear pathway where the ditch from Tom Sadler Road entered the pond. We took 120 paces below the point where the ditch entered the pond headwaters, which had high-quality wetlands along both sides. Having more than 0.1 mile of wetland frontage, we sampled the pond water and sediment (TS-006- SW & SD) along the east bank from 1550 - 1600. The sediment was a greenish clay.

We crossed Mount Holly Road and sampled the stream feeding Thomas Pond, above the point where the ditch entered the pond. The surface water and sediment samples (TS-005-SW & SD) were taken at 1625. This sediment was a grey silty clay. Mr. William Cline and his son, Bill Cline Jr. showed up at the roadside where we had the van parked. We talked briefly. Bruce and I left the area at 1700.

Ref. 28

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director

DEHNR

May 14, 1996

Myron D. Lair, Chief
Emergency Response and Removal Branch
US EPA Region IV
345 Courtland Street, NE
Atlanta, GA 30365

SUBJECT: Immediate Removal Evaluation
Tom Sadler Road wells
NCD 986 231 967
Charlotte, Mecklenburg County, NC

Dear Mr. Lair:

In October 1993, the US EPA ERRB conducted a removal action at this site. The on-site drinking water well was highly contaminated with chlorinated solvents and an alternative water supply was temporarily provided by EPA. The two households formerly served by this well are now using city water. This site was subsequently listed on CERCLIS and a Site Inspection with sampling was conducted by the NC Superfund Section on February 13, 1996. A composite surface soil sample was taken in the drum storage/playhouse area at the Mingus residence. Results received by the NC Superfund Section on May 3, 1996 showed lead at 3,000 mg/kg and bis (2-ethyl hexyl) phthalate at 10,133 ug/kg. Also detected were arsenic at 14 mg/kg, copper at 130 mg/kg, chromium at 166 mg/kg and cadmium at 20 mg/kg. This composite sample is labeled TS-008-SL on the attached drawing.

An 8' fence separates the Brigman property to the north from the Mingus property, preventing neighborhood children from entering the contaminated area. A low fence separates the drum storage area from the yard and hides some of the debris; however, it does not restrict access. The Mingus's have been notified by telephone and advised to keep children out of the area. Currently, no children regularly play in the area, but grandchildren and great grandchildren visit occassionally. The NC Superfund Section requests that EPA evaluate this area of contaminated soil for a removal action. If you have any questions, please call Jeanette Stanley at (919) 733-2801 ext. 316.

Attachment

cc: Mike Kelly, DSWM
Jack Butler, DSWM
Jeanette Stanley, DSWM
Doug Holyfield, DSWM
Phil Prete, DSWM
Grover Nicholson, DSWM
Pat Williamson, DSWM
Henry Sutton, Mecklenburg County DEP
Cindy Gurley, US EPA

Sincerely,

Pat DeRosa, Head
Site Evaluation and Removal Branch
NC Superfund Section

P.O. Box 27687,
Raleigh, North Carolina 27611-7687
Voice 919-733-4996

NC Reduce Reuse Recycle

FAX 919-715-3605
An Equal Opportunity Affirmative Action Employer
50% recycled/10% post-consumer paper

MEMO TO: Pat DeRosa, Head, Site Evaluation and Removal Branch

FROM: Jeanette Stanley, Environmental Chemist, NC Superfund Section

DATE: May 10, 1996

SUBJECT: Request for Emergency Removal Action
Tom Sadler Road wells
NCD 986 231 967
Charlotte, Mecklenburg County, NC

On October 29, 1993, a Removal Authorization was issued for the Tom Sadler Road Wells Site. The drinking water well on the Mingus property at 2128 Tom Sadler Road was highly contaminated with chlorinated solvents. This contamination was discovered by sampling conducted by the Mecklenburg County Department of Environmental Protection. The US EPA provided bottled water immediately and a granular activated carbon filter was installed soon afterward. The home has since been connected to city water.

A Preliminary Assessment was conducted on this property on May 3, 1995 and the site was recommended for further action under CERCLA. On February 13, 1996, onsite soil, drinking water wells and surface water and sediment samples were taken for the Site Inspection. The organic results received on March 29, 1996 did not show any areas of soil containing high levels of chlorinated solvents.

Metals results received on May 3, 1996 showed one area of lead-contaminated soil. This area of lead-contaminated soil was in the drum storage area on the south side (or left if facing the garage from the road). The sample was taken at four points in the area of the oil-stained ground. Two points were in the area of the shed and the playhouse. Another spot was underneath the varsol (marked "versol") drum and the fourth point to the right, or east of this point. The top two inches of soil were scraped away and the soil just below this point was taken. The sample location number was TS-008-SL and sample numbers were TS-28, TS-29 and TS-30 for volatile organics, semivolatile organics and metals, respectively. The sample results showed the following contaminants:

Lead	3,000 mg/kg	Copper	130 mg/kg
Cadmium	20 mg/kg	Arsenic	14 mg/kg
Chromium	166 mg/kg	bis(2-ethyl hexyl)phthalate	10.1 mg/kg

TCLP analysis of this contaminated soil sample showed lead at 6.04 mg/L. In addition, lead was detected at 24 and 28 mg/kg in samples TS-007-SL and TS-010-SL, respectively. Chromium, copper and arsenic were also detected in these two soil samples. The old drinking water well (no longer being used for drinking) contained 0.031 mg/L lead. The well is still being used for watering the garden and washing cars. A copy of the analytical results is attached. A map of the sampling locations is also attached. The fence shown in the area of sample location TS-008-SL is a low fence that hides some the stored material. It does not restrict access.

Based on these findings, I am requesting a removal evaluation. I will be notifying Mr. Mingus by telephone and letter of these findings and recommend that he restrict use of this area of this property, particularly by children.

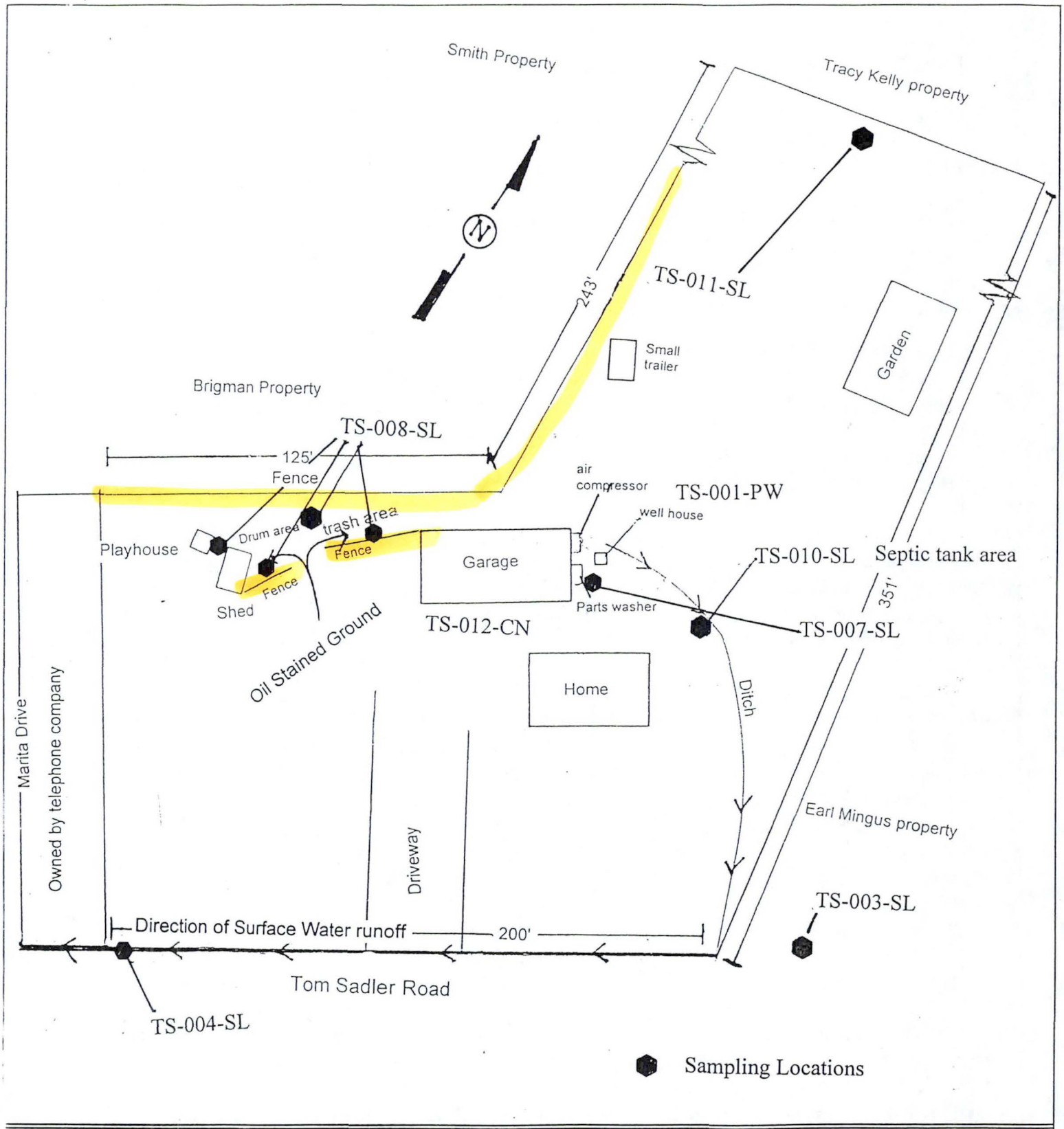


Fig. No: 1	Title: **Site Map and Sampling Locations**		
North Carolina Division of Solid Waste Management	Scale: Not to Scale	Date: February 1996	Drawn By: Stanley
Superfund Section	Site Name: Tom Sadler Road Wells		NCD 986 231 967

...ment of Environment,
...& Natural Resources
...Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-008-SL 02/13/96 1225 COMP
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL

Collected By ESD LAB METALS Soil
TS- 30 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	14
Barium	
✓ Cadmium	20
Chloride	
✓ Chromium	166
✓ Copper	130
Fluoride	
Iron	
✓ Lead	3,100
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	<0.01
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results (mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002270 FEB 1 1996

N.C. Department of Environment, Health, & Natural Resources
Solid Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 2761[redacted]

Site Number TS-001-PW 02/13/96 1345 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site POTABLE WELL

Collected By ESD LAB METALS TS- Ground Water 3 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate
____ Ground water (1)	____ Solid (5)
____ Surface water (2)	____ Liquid (6)
____ Soil (3)	____ Sludge (7)
____ Other (4)	____ Other (8)

Comments: Mingus residence (well not being used for drinking

Organic Chemistry

Parameter	Results (mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results (mg/l)
✓ Arsenic	<0.01
Barium	
✓ Cadmium	<0.002
Chloride	
✓ Chromium	<0.01
✓ Copper	<0.05
Fluoride	
Iron	
✓ Lead	0.031
Manganese	
✓ Mercury	<0.0005
Nitrate	
✓ Selenium	<0.005
✓ Silver	<0.05
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Compounds	Results (mg/
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported 13 Mar 96

002260 FEB1496

STATE LABORATORY OF PUBLIC HEALTH

P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	960703	960705	960707	960709	960711	960713
	FIELD #	TS-20	TS-23	TS-26	TS-29	TS-32	TS-35
COMPOUND	TYPE	(2)	(3)	(3)	(3)	(3)	(3)
	UNITS	µg/l ~~µg/kg~~	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg
pyrene	10/330	U	U	U	U	U	U
benzidine	50/1650						
butyl benzyl phthalate	10/330						
benz(a)anthracene							
chrysene							
3,3-dichlorobenzidine	50/1650						
bis(2-ethylhexyl)phthalate	10/330				10,133		
di-n-octyl phthalate	10/330				U		
benzo(b)fluoranthene	50/1650						
benzo(k)fluoranthene							
benzo(a)pyrene							
indeno(1,2,3-cd)pyrene							
dibenzo(a,h)anthracene							
benzo(g,h,i)perylene							
aniline	50/1650	U	U	U	U	U	U
benzoic acid							
benzyl alcohol							
4-chloroaniline							
dibenzofuran	10/330						
2-methylnaphthalene							
2-methylphenol							
4-methylphenol							
2-nitroaniline	50/1650						
3-nitroaniline							
4-nitroaniline							
2,4,5-trichlorophenol							
HYDROCARBONS	+/-	-	-	-	+	-	-

MDL

J - Estimated value. H_2O/501L
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

[redacted]t of Environment,
[redacted]Natural Resources
[redacted]ste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

[redacted]te Number TS-003-SL 02/13/96 1130 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY

Collected By SOIL ESD LAB METALS Soil TS- 9 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	
___ Surface water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	
___ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	<2
Barium	
✓ Cadmium	120
Chloride	
✓ Chromium	<10
✓ Copper	<10
Fluoride	
Iron	
✓ Lead	20
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
___ Arsenic	
___ Barium	
___ Cadmium	
___ Chromium	
___ Lead	
___ Mercury	
___ Selenium	
___ Silver	

Organic Compounds	Results(mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dinitrotoluene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002265 FEB 1 1996

Date Analyzed ____ [redacted] Number ____

State of Environment,
Natural Resources
Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number _____ Field Sampl TS-004-SL 02/13/96 1200 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site _____ Site Locatic SOIL ESD LAB METALS Soil
TS- 12

Collected By _____ ID# _____ Date Collected _____ Time _____

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	_____
___ Surface water (2)	___ Liquid (6)	_____
___ Soil (3)	___ Sludge (7)	_____
___ Other (4)	___ Other (8)	_____

TCLP Compounds

Inorganic Compounds	Results(mg/l)
___ Arsenic	_____
___ Barium	_____
___ Cadmium	_____
___ Chromium	_____
___ Lead	_____
___ Mercury	_____
___ Selenium	_____
___ Silver	_____

Organic Chemistry

Parameter	Results(mg/l)
___ P&T:GC/MS	_____
___ Acid:B/N Ext.	_____
___ MTBE	_____

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	_____
___ Gross Beta	_____

Microbiology

Parameter	Results (Col/100ml)
___	_____

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	<2
___ Barium	_____
✓ Cadmium	<10
___ Chloride	_____
✓ Chromium	19
✓ Copper	46
___ Fluoride	_____
___ Iron	_____
✓ Lead	19
___ Manganese	_____
✓ Mercury	<0.09
___ Nitrate	_____
✓ Selenium	<1
✓ Silver	<10
___ Sulfates	_____
___ Zinc	_____
___ pH	_____
___ Conductivity	_____
___ TDS	_____
___ TOC	_____

Organic Compounds	Results(mg/l)
___ benzene	_____
___ carbon tetrachloride	_____
___ chlordane	_____
___ chlorobenzene	_____
___ chloroform	_____
___ o-cresol	_____
___ m-cresol	_____
___ p-cresol	_____
___ cresol	_____
___ 1,4-dichlorobenzene	_____
___ 1,2-dichloroethane	_____
___ 1,1-dichloroethylene	_____
___ 2,4-dinitrotoluene	_____
___ heptachlor	_____
___ hexachlorobenzene	_____
___ hexachlorobutadiene	_____
___ hexachloroethane	_____
___ methyl ethyl ketone	_____
___ nitrobenzene	_____
___ pentachlorophenol	_____
___ pyridine	_____
___ tetrachloroethylene	_____
___ trichloroethylene	_____
___ 2,4,5-trichlorophenol	_____
___ 2,4,6-trichlorophenol	_____
___ vinyl chloride	_____
___ endrin	_____
___ lindane	_____
___ methoxychlor	_____
___ toxaphene	_____
___ 2,4-D	_____
___ 2,4,5-TP (Silvex)	_____

Date Received _____ Reported by _____

Date Extracted _____ Date Reported _____

Date Analyzed _____ Lab Number _____

002266 FEB 1 1996

...ent of Environment,
... Natural Resources
...aste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

...ite Number TS-007-SL 02/13/96 1250 GRAB
Tom Sadler Road Wells, NC J. STANLEY

Name of Site SOIL
ESD LAB METALS Soil

Collected By ID# TS- 27 Date Collected Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	
___ Surface water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
___ Arsenic	
___ Barium	
___ Cadmium	
___ Chromium	
___ Lead	
___ Mercury	
___ Selenium	
___ Silver	

Organic Chemistry

Parameter	Results (mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	
___ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	4
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	38
✓ Copper	14
Fluoride	
Iron	
✓ Lead	24
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

Organic Compounds	Results (mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

Date Received Reported by

Date Extracted Date Reported

002269 FEB 1996

...umber

...ment of Environment,
...& Natural Resources
Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

...e Number TS-010-SL 02/13/96 1315 GRAB
Tom Sadler Road Wells, NC J. STANLEY
Name of Site SOIL
ESD LAB METALS Soil
Collected By TS- 33 Time

Agency: ___ Hazardous Waste ___ Solid Waste ___ Superfund

Sample Type

Environmental	Concentrate	Comments
___ Ground water (1)	___ Solid (5)	
___ Surface water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

Organic Chemistry

Parameter	Results (mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ MTBE	

Radiochemistry

Parameter	Results (PCi/l)
___ Gross Alpha	
___ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	2
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	26
✓ Copper	24
Fluoride	
Iron	
✓ Lead	28
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
___ Arsenic	
___ Barium	
___ Cadmium	
___ Chromium	
___ Lead	
___ Mercury	
___ Selenium	
___ Silver	

Organic Compounds	Results (mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dinitrotoluene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

Date Received ___ Reported by ___
Date Extracted ___ Date Reported ___

Department of Environment, Health & Natural Resources
Waste Management Division

SAMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number TS-011-SL 02/13/96 1340 GRAB

Name of Site Tom Sadler Road Wells, NC J. STANLEY

SOIL

Collected By ESD LAB METALS Soil TS- 36 Time

Agency: ____ Hazardous Waste ____ Solid Waste ____ Superfund

Sample Type

Environmental	Concentrate	Comments
____ Ground water (1)	____ Solid (5)	
____ Surface water (2)	____ Liquid (6)	
____ Soil (3)	____ Sludge (7)	
____ Other (4)	____ Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
____ Arsenic	
____ Barium	
____ Cadmium	
____ Chromium	
____ Lead	
____ Mercury	
____ Selenium	
____ Silver	

Organic Chemistry

Parameter	Results(mg/l)
____ P&T:GC/MS	
____ Acid:B/N Ext.	
____ MTBE	

Inorganic Chemistry

Parameter	Results ~~(mg/l)~~ (mg/kg)
✓ Arsenic	2
Barium	
✓ Cadmium	<10
Chloride	
✓ Chromium	14
✓ Copper	18
Fluoride	
Iron	
✓ Lead	<20
Manganese	
✓ Mercury	<0.09
Nitrate	
✓ Selenium	<1
✓ Silver	<10
Sulfates	
Zinc	
pH	
Conductivity	
TDS	
TOC	

Organic Compounds

Organic Compounds	Results(mg/l)
____ benzene	
____ carbon tetrachloride	
____ chlordane	
____ chlorobenzene	
____ chloroform	
____ o-cresol	
____ m-cresol	
____ p-cresol	
____ cresol	
____ 1,4-dichlorobenzene	
____ 1,2-dichloroethane	
____ 1,1-dichloroethylene	
____ 2,4-dinitrotoluene	
____ heptachlor	
____ hexachlorobenzene	
____ hexachlorobutadiene	
____ hexachloroethane	
____ methyl ethyl ketone	
____ nitrobenzene	
____ pentachlorophenol	
____ pyridine	
____ tetrachloroethylene	
____ trichloroethylene	
____ 2,4,5-trichlorophenol	
____ 2,4,6-trichlorophenol	
____ vinyl chloride	
____ endrin	
____ lindane	
____ methoxychlor	
____ toxaphene	
____ 2,4-D	
____ 2,4,5-TP (Silvex)	

Radiochemistry

Parameter	Results (PCi/l)
____ Gross Alpha	
____ Gross Beta	

Microbiology

Parameter	Results (Col/100ml)

Date Received ____ Reported by ____

Date Extracted ____ Date Reported ____

002272 FEB 14 96

Ref. 29

MEMO

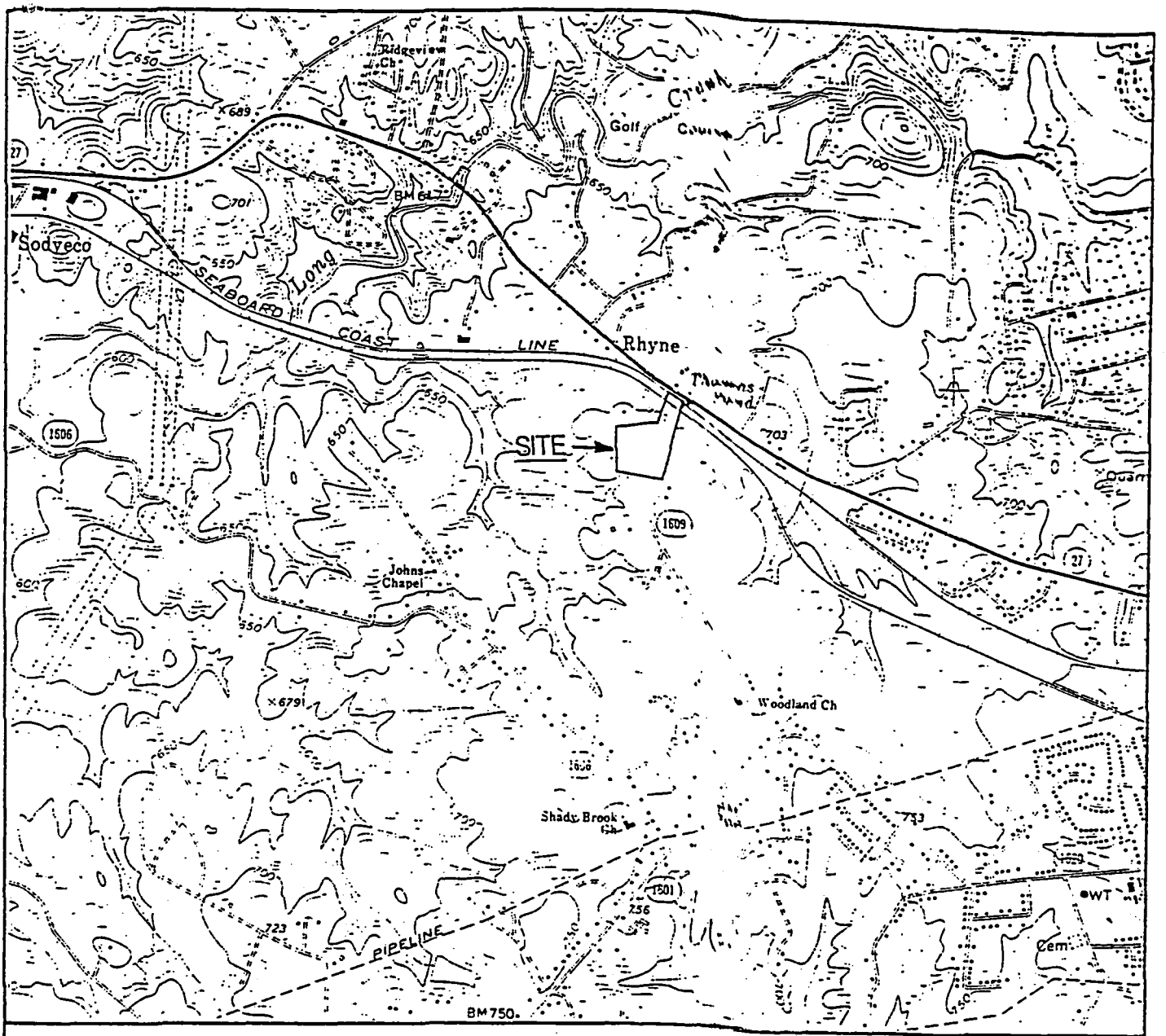
DATE: July 1, 1996

TO: File

FROM: Jeanette Stanley, Environmental Chemist,
NC Superfund Section

RE: Livingston Coatings
Charlotte, Mecklenburg County, NC

I received an two email messages from Gilbert L. Davidson, NC DEM Mooresville Regional Office (704) 663-1699 on June 7 and June 27, 1996. He stated that Livingstone had submitted a Corrective Action Plan to NC DEM on June 14, 1996 and that he was reviewing it. Attached are selected maps and other information he sent to me as a result of our June 7, 1996 communication.



SCALE 1:24000

1 0 1 MILE

0 1000 2000 3000 4000 5000 6000 7000

CONTOUR INTERVAL 10 FEET

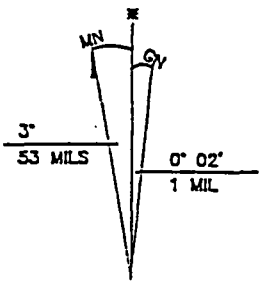
MOUNTAIN ISLAND LAKE, NC

35080-C8-TF-24

1969

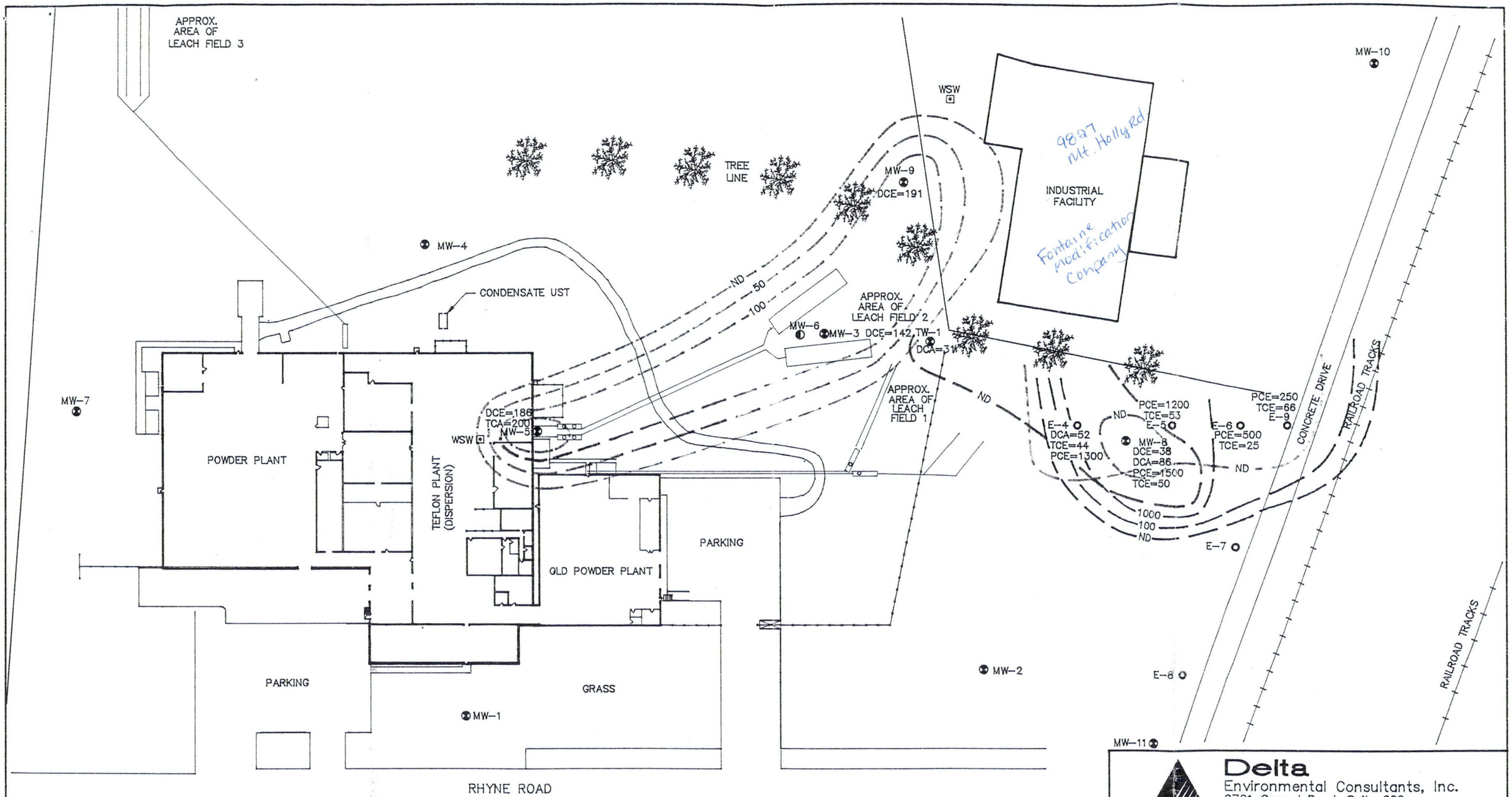
PHOTOINSPECTED 1983

DMA 4854 IV SW-SERIES V842



Delta
Environmental Consultants, Inc.
Charlotte, North Carolina 28226

FIGURE NO. 1	CLIENT/LOCATION: IVINGSTONE COATING CORP. CHARLOTTE, NC	
DELTA PROJECT NO. E094-011	DESCRIPTION: TOPOGRAPHIC LOCATION MAP	
DRAWN BY C. GREENE		
REVIEWED BY	DATE 10-26-94	SCALE AS SHOWN	CAD NO. 011-TOPO



LEGEND:

	PROPERTY BOUNDARY
	FENCE
⊡	WATER SUPPLY WELL
UST	UNDERGROUND STORAGE TANK
⊗	MONITORING WELL
◐	DEEP MONITORING WELL
○	GEOPROBE POINTS
ND	NON DETECTED
— —	APPROXIMATE EXTENT OF DCE
— —	APPROXIMATE EXTENT OF DCA
— —	APPROXIMATE EXTENT OF TCE
— —	APPROXIMATE EXTENT OF PCE
— —	APPROXIMATE EXTENT OF TCA

NOTE:

DRAWING COMPILED FROM MAP SUPPLIED BY LIVINGSTONE COATING CORP.

Delta
Environmental Consultants, Inc.
6701 Carmel Road, Suite 200
Charlotte, North Carolina 28226

PROJECT NO. E094-011	FIGURE NO. 3	CLIENT/LOCATION LIVINGSTONE COATING CORP. CHARLOTTE, NC
PROJECT MANAGER		
DESIGNED BY	DRAWING DESCRIPTION REVISED EPA METHOD 624 COMPOUNDS ISOCONCENTRATION MAP	
DRAWN BY C. GREENE		
REVIEWED BY	DATE 6-14-95	SCALE AS SHOWN / CAD NO. 011-SMEP

TABLE 1
GROUND WATER SAMPLING ANALYTICAL RESULTS
LIVINGSTONE COATING CORPORATION
CHARLOTTE, NORTH CAROLINA
DELTA PROJECT NO. E094-011-1

DATE:9/2/94

	SAMPLE LOCATIONS							2L
	G4	G5	G6	G7	G8	G9	TW1	STANDARD
COMPOUND								
1,1-DICHLOROETHENE	<50	<50	<50	<50	<50	<50	<10	7
1,1-DICHLOROETHANE	52.0	80.0	66.0	<50	97.0	75	31	700
1,1,1-TRICHLOROETHANE	<10	<10	<10	<10	<10	16.0	<10	200
TRICHLOROETHENE	**44.0**	**53**	**25**	<10	**62**	**66**	<10	2.8
TETRACHLOROETHENE	**1300**	**1200**	**500**	<10	**1400**	**250**	<10	0.7

UNITS = MICROGRAMS PER LITER OR PARTS PER BILLION
ANALYTICAL RESULTS OF COMPOUNDS IN EXCESS OF THEIR 2L STANDARD ARE IN BOLD.

DATE:5/19/95

	SAMPLE LOCATIONS							2L
	G4	G5	G6	G7	G8	G9	TW1	STANDARD
COMPOUND								
1,1-DICHLOROETHENE	NS	NS	NS	NA	NA	NS	NS	7
1,1-DICHLOROETHANE	NS	NS	NS	NA	NA	NS	NS	700
1,1,1-TRICHLOROETHANE	NS	NS	NS	NA	NA	NS	NS	200
TRICHLOROETHENE	NS	NS	NS	<1	**<1**	NS	NS	2.8
TETRACHLOROETHENE	NS	NS	NS	**3.9**	**<1**	NS	NS	0.7

UNITS = MICROGRAMS PER LITER OR PARTS PER BILLION
ANALYTICAL RESULTS OF COMPOUNDS IN EXCESS OF THEIR 2L STANDARD ARE IN BOLD.

TABLE 3
GROUND WATER MONITORING WELL ANALYTICAL DATA
LIVINGSTONE COATING CORPORATION
MECKLENBURG COUNTY, NORTH CAROLINA
DELTA PROJECT NO. E094-011-1

UNITS = MICROGRAMS PER KILOGRAM

LOCATION: MONITORING WELL MW-1

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
01/25/91	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
10/04/93	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
10/07/94	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
10/07/94	<10	<40	**2800**
05/19/95	<5	5.2	**710**

LOCATION: MONITORING WELL MW-2

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
01/25/91	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
10/04/93	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
10/07/94	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
10/07/94	<10	<40	**4800**
05/19/95	<5	<5	<100

LOCATION: MONITORING WELL MW-3

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
01/25/91	**80**	31	<5.0	60	<5.0	<5.0	9
10/04/93	**280**	55	<25	110	<25	<25	310
10/07/94	**142**	13	<5.0	55	<5.0	<5.0	<5.0

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
10/07/94	<10	<40	**3000**
05/19/95	<5	<5	**390**

RESULTS IN BOLD TYPE ARE IN EXCESS OF THEIR 2L STANDARD

TABLE 3 (continued)
GROUND WATER MONITORING WELL ANALYTICAL DATA
LIVINGSTONE COATING CORPORATION
MECKLENBURG COUNTY, NORTH CAROLINA
DELTA PROJECT NO. E094-011-1

UNITS = MICROGRAMS PER KILOGRAM

LOCATION: MONITORING WELL MW-4

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
01/25/91	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
10/04/93	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
10/07/94	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
10/07/94	<10	<40	**4000**
05/19/95	7.1	<5	**4200**

LOCATION: MONITORING WELL MW-5

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
01/25/91	**230**	16	41	**380**	<5.0	<5.0	<5.0
10/04/93	**130**	<13	<13	**220**	<13	<13	<13
(DRY)10/07/94							
03/21/95	**186**	<5	<5	**200**	<5	<5	<5

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
(DRY)10/07/94			
03/21/95	NA	NA	NA
05/19/95	**87**	<5	<100

LOCATION: MONITORING WELL MW-6

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
01/25/91	**14**	10	<5.0	16	<5.0	<5.0	<5.0
10/04/93	**110**	7.5	<5.0	48	<5.0	<5.0	<5.0
10/07/94	**80**	<5.0	<5.0	24	<5.0	<5.0	<5.0

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
10/07/94	<10	<100	<40
05/19/95	<5	<5	<100

RESULTS IN BOLD TYPE ARE IN EXCESS OF THEIR 2L STANDARD

TABLE 3 (continued)
GROUND WATER MONITORING WELL ANALYTICAL DATA
LIVINGSTONE COATING CORPORATION
MECKLENBURG COUNTY, NORTH CAROLINA
DELTA PROJECT NO. E094-011-1

UNITS = MICROGRAMS PER KILOGRAM

LOCATION: MONITORING WELL MW-7

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
(DRY)10/11/94							
01/27/95	<5	<5	<5	<5	<5	<5	<5

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
(DRY)10/11/94			
01/27/95	<10	<10	NA
05/19/95	<5	<5	**460**

LOCATION: MONITORING WELL MW-8

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
10/11/94	**60**	160	<50	<50	**70**	**1000**	<50
03/21/95	**38**	86		7	**50**	**1500**	

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
10/11/94	**58**	63	NA
05/19/95	<5	5.9	**790**

LOCATION: MONITORING WELL MW-9

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
10/11/94	**191**	<5.0	<5.0	70	<5.0	<5.0	<5.0

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
10/11/94	40	**110**	NA
05/19/95	<5	19	**5000**

RESULTS IN BOLD TYPE ARE IN EXCESS OF THEIR 2L STANDARD

TABLE 3 (continued)
GROUND WATER MONITORING WELL ANALYTICAL DATA
LIVINGSTONE COATING CORPORATION
MECKLENBURG COUNTY, NORTH CAROLINA
DELTA PROJECT NO. E094-011-1

UNITS = MICROGRAMS PER KILOGRAM

LOCATION: MONITORING WELL MW-10

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
04/13/95	<10	<10	<10	<10	<10	<10	<10

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
04/13/95	**123**	**170**	**137000**
05/19/95	<5	<5	**400**

LOCATION: MONITORING WELL MW-11

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
04/13/95	<10	<10	<10	<10	<10	<10	<10

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
04/13/95	43	26	**132000**
05/19/95	<5	<5	200

LOCATION: MONITORING WELL TW-1

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
04/13/95	<10	31	<10	<10	<10	<10	<10

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
04/13/95	43	26	**213000**

RESULTS IN BOLD TYPE ARE IN EXCESS OF THEIR 2L STANDARD

TABLE 3 (continued)
GROUND WATER MONITORING WELL ANALYTICAL DATA
LIVINGSTONE COATING CORPORATION
MECKLENBURG COUNTY, NORTH CAROLINA
DELTA PROJECT NO. E094-011-1

UNITS = MICROGRAMS PER KILOGRAM

LOCATION: LIVINGSTONE SUPPLY WELL

EPA METHOD 624 COMPOUND	1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	1,2-DICHLORO ETHANE	1,1,1-TRICHLORO ETHANE	TRICHLORO ETHENE	TETRACHLORO ETHENE	TOTAL XYLENES
2L STANDARD	7	700	0.38	200	2.8	0.7	530
SAMPLE DATE							
09/20/90	**207**	<5.0	<5.0	**541**	<5.0	<5.0	<5.0
12/28/90	**360**	<5.0	<5.0	**320**	<5.0	<5.0	<5.0
10/04/93	**500**	<13	<13	**210**	<13	<13	<13
10/07/94	**405**	<5.0	<5.0	<25	<5.0	<5.0	<5.0

METHOD 3030C COMPOUND	CHROMIUM	NICKEL	IRON
2L STANDARD	50	100	300
SAMPLE DATE			
10/07/94	<10	<100	<10

RESULTS IN BOLD TYPE ARE IN EXCESS OF THEIR 2L STANDARD

TABLE 2
GROUND WATER ELEVATION DATA
LIVINGSTONE COATING CORPORATION
MECKLENBURG COUNTY, NORTH CAROLINA
DELTA PROJECT NO. E094-011-1

WELL ID		DATE:	04/18/91	09/02/94	10/06/94	10/21/94	01/27/95	03/21/95	04/20/95
MW-1									
TOP OF CASING ELEVATION	710.32								
DEPTH TO WATER			15.33	20.56	21.13	21.41	21.46	19.86	19.78
GROUND WATER ELEVATION			694.99	689.76	689.19	688.91	688.86	690.46	690.54
MW-2									
TOP OF CASING ELEVATION	704.20								
DEPTH TO WATER			15.49	19.80	20.57	20.75	20.75	18.67	19.16
GROUND WATER ELEVATION			688.71	684.40	683.63	683.45	683.45	685.53	685.04
MW-3									
TOP OF CASING ELEVATION	712.16								
DEPTH TO WATER			22.88	27.08	27.32	27.87	27.87	25.48	26.00
GROUND WATER ELEVATION			689.28	685.08	684.84	684.29	684.29	686.68	686.16
MW-4									
TOP OF CASING ELEVATION	709.23								
DEPTH TO WATER			14.97	21.16	21.94	22.00	21.11	19.00	19.40
GROUND WATER ELEVATION			694.26	688.07	687.29	687.23	688.12	690.23	689.83
MW-5									
TOP OF CASING ELEVATION	712.42								
DEPTH TO WATER			19.43	DRY	DRY	DRY	DRY	22.90	23.16
GROUND WATER ELEVATION			692.99					689.52	689.26
MW-6									
TOP OF CASING ELEVATION	712.52								
DEPTH TO WATER			23.25	27.65	28.65	28.50	28.50	26.48	27.05
GROUND WATER ELEVATION			689.27	684.87	683.87	684.02	684.02	686.04	685.47
MW-7									
TOP OF CASING ELEVATION	707.46								
DEPTH TO WATER			NOT INSTALLED			DRY	17.89	15.74	16.10
GROUND WATER ELEVATION							689.57	691.72	691.36
MW-8									
TOP OF CASING ELEVATION	705.36								
DEPTH TO WATER			NOT INSTALLED			22.72	22.72	20.40	21.06
GROUND WATER ELEVATION						682.64	682.64	684.96	684.30
MW-9									
TOP OF CASING ELEVATION	714.39								
DEPTH TO WATER			NOT INSTALLED			31.41	31.41	29.25	29.62
GROUND WATER ELEVATION						682.98	682.98	685.14	684.77

NOTE: ALL ELEVATIONS ARE RELATIVE TO MEAN SEA LEVEL

TABLE 2 (continued)
GROUND WATER ELEVATION DATA
LIVINGSTONE COATING CORPORATION
MECKLENBURG COUNTY, NORTH CAROLINA
DELTA PROJECT NO. E094-011-1

WELL ID		DATE:	04/18/91	09/02/94	10/06/94	10/21/94	01/27/95	03/21/95	04/20/95
MW-10									
TOP OF CASING ELEVATION	694.90								
DEPTH TO WATER			NOT INSTALLED						12.34
GROUND WATER ELEVATION									682.56
MW-11									
TOP OF CASING ELEVATION	696.85								
DEPTH TO WATER			NOT INSTALLED						12.76
GROUND WATER ELEVATION									684.09

NOTE: ALL ELEVATIONS ARE RELATIVE TO MEAN SEA LEVEL

Ref. 30

MEMO

DATE: August 22, 1995

TO: File

FROM: Jeanette Stanley
Environmental Chemist
NC Superfund Section

RE: Gainsborough Corporation
formerly known as Budd Lee Paving

Drew Bailey, Gainsborough Corporation (703) 374-3235 called Karen Connell, Mooresville Regional Office (704) 663-1699. He said that the wells had all tested clean for chlorinated solvents. He said he would mail the report to her as soon as Gainsborough Corporation completes acquisition of the property.

MEMO

DATE: May 17, 1996

TO: FILE

FROM: Jeanette Stanley
Environmental Chemist
NC Superfund Section

SITE: Tom Sadler Road Wells
NCD 986 231 967
Charlotte, Mecklenburg, North Carolina

I spoke with Mr. W. H. Rodden (704) 392-1020 at 1917 Tom Sadler Road. He said he is still using his drinking water well and he has no problems. He does not want his well tested again. He said that the Tucker residence at 2013 Tom Sadler Road is also still using the drinking water well.

MEMO

DATE: May 21, 1996

TO: FILE

FROM: Jeanette Stanley
Environmental Chemist
NC Superfund Section

SITE: Tom Sadler Road Wells
NCD 986 231 967
Charlotte, Mecklenburg, North Carolina

I spoke with Lisa Corbett, Mecklenburg County Department of Environmental Health (704) 336-5448. She said that no additional groundwater testing has been conducted in the vicinity of the Mingus residence since April 1995. I discussed two wells in the area that I have no record of having been tested. One at 2310 Tom Sadler Road and one at 1635 Woodlea Road. Lisa said she would test these wells.

MEMO

DATE: July 1, 1996

TO: File

FROM: Jeanette Stanley
Environmental Chemist
NC Superfund Section

SITE: Tom Sadler Road Wells
NCD 986 231 967
Charlotte, Mecklenburg, North Carolina

I provided a memo to Hanna Assefa, Industrial Hygienist, NC Superfund Section. In this memo, I stated that the following results show the level of contaminants found in a former drinking water well on the Garland Mingus property at 2128 Tom Sadler Road. The use of this drinking water well has been discontinued for drinking and other in-home uses. The well is still being used for watering the vegetable garden and washing cars in the driveway. I asked her to advise if this was a safe use of the well.

Lead	0.031 mg/L
Chloroethane	90 ug/L
1,1-Dichloroethene	1287 ug/L
1,1-Dichloroethane	148 ug/L
cis-1,2-Dichloroethene	trace
1,1,1-Trichloroethane	323 ug/L
Benzene	trace
1,2-Dichloroethane	2J
Trichloroethene	1J
Tetrachloroethene	trace

Hanna repsponded by telephone and stated that she was not concerned about using this well for washing cars as this activity was conducted outside. She said that without taking samples of the vegetables in the garden, she could not say with certainty that the lead in the drinking water was not bioaccumulating in the vegetables. She was not concerned about the volatile contaminanants in the water for the vegetable garden. She did say, however, that the relatively low level of lead was probably not accumulating in the vegetables at to a dangerous level.

Ref. 31

MEMO

DATE: July 11, 1996

TO: FILE

FROM: Jeanette Stanley
Environmental Chemist
NC Superfund Section

SITE: Tom Sadler Road Wells
NCD 986 231 967
Charlotte, Mecklenburg, North Carolina

I met with Lisa Corbett, Mecklenburg County Department of Environmental Health (704) 336-5448 on July 10, 1996. She said that she had sampled the two wells in the area that I was concerned about as I had no record of their being tested, the one at 2310 Tom Sadler Road and the other at 1635 Woodlea Road. No chlorinated solvents were detected in either of these wells. The results area attached.

MECKLENBURG COUNTY ENVIRONMENTAL PROTECTION LABORATORY

Field I.D.#: _____ Dept.: HAZ Lab I.D. #: 4299

Site Sampled: Lucille T. Fisher Project: _____ Rec'd By: Garner

Address: 2310 Tom Sadler Rd 392-5838 Date Rec'd: 6-4-96

Source Sampled: Kitchen Faucet Delivered to Lab On: _____ Time: 1610 ☐AM ☐PM

Sampled By: L. Corbitt Date: 6/4/96 Time: 3:40 ☐AM ☒PM

Date Sampled: 6/4/96 Time: 3:00 ☐AM ☒PM Delivered By: L. Corbitt

Chemical Composition

Inorganic ☐ _____ %

Organic ☐ _____ %

Moisture ☐ _____ %

Radioactivity

Air

Gross Alpha ☐ _____ pCi/m³

Gross Beta ☐ _____ pCi/m³

Water

Gross Alpha ☐ _____ pCi/L

Gross Beta ☐ _____ pCi/L

Miscellaneous

Asbestos ☐ _____ %

Chlorophyll a ☐ _____ ppb

Corrosivity ☐ _____ SI

Dissolved Oxygen ☐ _____ ppm

Formaldehyde ☐ _____ ppm

☐ _____ ppm

☐ _____ ppm

☐ _____ ppm

☐ _____ ppm

Fecal Coliform ☐ _____ Colonies/100 mL

Fecal Strep ☐ _____ Colonies/100 mL

Inorganic Non Metals

Acidity ☐ _____ ppm

Alkalinity ☐ _____ ppm

Bicarbonate ☐ _____ ppm

Carbonate ☐ _____ ppm

Chloride ☐ _____ ppm

Chlorine, Residual ☐ _____ ppm

Color ☐ _____ units

Cyanide, Total ☐ _____ ppm

Fluoride ☐ _____ ppm

Hardness ☐ _____ ppm

Nitrogen, Ammonia ☐ _____ ppm

Nitrogen, Nitrate + Nitrite ☐ _____ ppm

Nitrogen, Nitrate ☐ _____ ppm

Nitrogen, Nitrite ☐ _____ ppm

Nitrogen, Total Kjeldahl ☐ _____ ppm

pH ☐ _____ units

Phosphorus, Ortho ☐ _____ ppm

Phosphorus, Total ☐ _____ ppm

Phosphorus, Total Dissolved ☐ _____ ppm

Residue, Filterable ☐ _____ ppm

Residue, Suspended ☐ _____ ppm

Residue, Total ☐ _____ ppm

Specific Conductance ☐ _____ umho/cm

Sulfate ☐ _____ ppm

Sulfide ☐ _____ ppm

Turbidity ☐ _____ NTU

Aggregate Organics

BOD_5 ☐ _____ ppm

COD ☐ _____ ppm

Oil and Grease ☐ _____ ppm

Phenol ☐ _____ ppm

Surfactant ☐ _____ ppm

Organics

Acid Herbicide ☐ Report attached

Organic Acid ☐ _____ ppm

PCB ☐ Report attached

Pesticide ☐ Report attached

Semivolatile ☐ Report attached

TPH ☐ _____ ppm

VOC ☒ Report attached

Mineral Metals

	ppm	ppb
Al ☐		
Ca ☐		
Co ☐		
Cu ☐		
Fe ☐		
Mg ☐		
Mn ☐		
K ☐		
Si ☐		
Na ☐		
Sn ☐		
Zn ☐		
☐		

Toxic Metals

TCLP Metals ☐

	ppb	ppm
Sb ☐		
As ☐		
Ba ☐		
Be ☐		
Cd ☐		
Cr ☐		
Pb ☐		
Hg ☐		
Ni ☐		
Se ☐		
Ag ☐		
Tl ☐		

NOTE: ALL FIELD DATA MUST BE RECORDED TO MAINTAIN CHAIN OF CUSTODY

Remarks: _____

JUN 12 1996

Date Completed: _____

Laboratory Director: James T. Ward

Laboratory

MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
ENVIRONMENTAL LABORATORY

Project: _____ Field I.D.#: _____
Lab I.D.#: 4299
Site Sampled: _____ Date Sampled: _____

Sample Matrix: Water

Volatile Organics

Organics-Volatiles Parameter	Sample Results (ug/l)	Detection Limits (ug/l)	Method
Acetone	< 100	100	8240B (f), 524.1 (i), 624 (g)
Acrolein	< 100	100	8240B (f), 524.1 (i), 624 (g)
Acrylonitrile	< 100	100	8240B (f), 524.1 (i), 624 (g)
Benzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Bromodichloromethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Bromoform	< 5	5	8240B (f), 524.1 (i), 624 (g)
2-Butanone	< 100	100	8240B (f), 524.1 (i), 624 (g)
Carbon Disulfide	< 5	5	8240B (f), 524.1 (i), 624 (g)
Carbon Tetrachloride	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chloroform	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chlorodibromomethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chloroethane	< 10	10	8240B (f), 524.1 (i), 624 (g)
2-Chloroethyl Vinyl Ether	< 10	10	8240B (f), 524.1 (i), 624 (g)
1,2 Dibromoethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,3-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,4-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1-Dichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1-Dichloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
cis-1,2-Dichloroethene	< 5	5	8240B (f), 524.1 (i), 624 (g)
trans-1,2-Dichloroethene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichloropropane	< 5	5	8240B (f), 524.1 (i), 624 (g)
cis-1,3-Dichloropropene	< 5	5	8240B (f), 524.1 (i), 624 (g)
trans-1,3-Dichloropropene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Ethylbenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
2-Hexanone	< 50	50	8240B (f), 524.1 (i), 624 (g)
4-Methyl-2-Pentanone	< 50	50	8240B (f), 524.1 (i), 624 (g)
Methyl Bromide	< 10	10	8240B (f), 524.1 (i), 624 (g)
Methyl Chloride	< 10	10	8240B (f), 524.1 (i), 624 (g)

(f) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846
(g) 40 CFR, part 136
(i) Methods for the Determination of Organic Compounds (EPA 1988)

MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
ENVIRONMENTAL LABORATORY

Project: _____ Field I.D.#: _____
Lab I.D.#: 7299
Site Sampled: _____ Date Sampled: _____

Sample Matrix: Water

Volatile Organics(cont)

Organics-Volatiles Parameter	Sample Results (ug/l)	Detection Limits (ug/l)	Method
Methylene Chloride	< 5	5	8240B (f), 524.1 (i), 624 (g)
MTBE	< 5	5	8240B (f), 524.1 (i), 624 (g)
Styrene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,2,2 Tetrachloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Tetrachloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Toluene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,1-Trichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,2-Trichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Trichloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Trichlorofluoromethane	< 10	10	8240B (f), 524.1 (i), 624 (g)
Vinyl Acetate	< 5	5	8240B (f), 524.1 (i), 624 (g)
Vinyl Chloride	< 10	10	8240B (f), 524.1 (i), 624 (g)
Xylenes (total)	< 5	5	8240B (f), 524.1 (i), 624 (g)

(f) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846
(g) 40 CFR, part 136
(i) Methods for the Determination of Organic Compounds (EPA 1988)

MECKLENBURG COUNTY ENVIRONMENTAL PROTECTION LABORATORY

Field I.D.#: 19267 Dept.: HAZ Lab I.D. #: 4300

Site Sampled: Glenn Gurley Project: Rec'd By: Garner

Address: 1635 Woodlea Rd. Date Rec'd: 6-4-96

Source Sampled: Kitchen Faucet Delivered to Lab On: Time: 1610 ☐AM ☐PM

Sampled By: L. Corbitt Date: 6/4/96 Time: 3:40 ☐AM ☒PM

Date Sampled: 6/4/96 Time: 3:10 ☐AM ☒PM Delivered By: L. Corbitt

Chemical Composition

Inorganic ☐ _____ %

Organic ☐ _____ %

Moisture ☐ _____ %

Radioactivity

Air

Gross Alpha ☐ _____ pCi/m³

Gross Beta ☐ _____ pCi/m³

Water

Gross Alpha ☐ _____ pCi/L

Gross Beta ☐ _____ pCi/L

Miscellaneous

Asbestos ☐ _____ %

Chlorophyll a ☐ _____ ppb

Corrosivity ☐ _____ SI

Dissolved Oxygen ☐ _____ ppm

Formaldehyde ☐ _____ ppm

☐ _____ ppm

☐ _____ ppm

☐ _____ ppm

☐ _____ ppm

Fecal Coliform ☐ _____ Colonies/100 mL

Fecal Strep ☐ _____ Colonies/100 mL

Inorganic Non Metals

Acidity ☐ _____ ppm

Alkalinity ☐ _____ ppm

Bicarbonate ☐ _____ ppm

Carbonate ☐ _____ ppm

Chloride ☐ _____ ppm

Chlorine, Residual ☐ _____ ppm

Color ☐ _____ units

Cyanide, Total ☐ _____ ppm

Fluoride ☐ _____ ppm

Hardness ☐ _____ ppm

Nitrogen, Ammonia ☐ _____ ppm

Nitrogen, Nitrate + Nitrite ☐ _____ ppm

Nitrogen, Nitrate ☐ _____ ppm

Nitrogen, Nitrite ☐ _____ ppm

Nitrogen, Total Kjeldahl ☐ _____ ppm

pH ☐ _____ units

Phosphorus, Ortho ☐ _____ ppm

Phosphorus, Total ☐ _____ ppm

Phosphorus, Total Dissolved ☐ _____ ppm

Residue, Filterable ☐ _____ ppm

Residue, Suspended ☐ _____ ppm

Residue, Total ☐ _____ ppm

Specific Conductance ☐ _____ umho/cm

Sulfate ☐ _____ ppm

Sulfide ☐ _____ ppm

Turbidity ☐ _____ NTU

Aggregate Organics

BOD_5 ☐ _____ ppm

COD ☐ _____ ppm

Oil and Grease ☐ _____ ppm

Phenol ☐ _____ ppm

Surfactant ☐ _____ ppm

Organics

Acid Herbicide ☐ Report attached

Organic Acid ☐ _____ ppm

PCB ☐ Report attached

Pesticide ☐ Report attached

Semivolatile ☐ Report attached

TPH ☐ _____ ppm

VOC ☒ Report attached

Mineral Metals

Al ☐	ppm	ppb
Ca ☐	ppm	ppb
Co ☐	ppm	ppb
Cu ☐	ppm	ppb
Fe ☐	ppm	ppb
Mg ☐	ppm	ppb
Mn ☐	ppm	ppb
K ☐	ppm	ppb
Si ☐	ppm	ppb
Na ☐	ppm	ppb
Sn ☐	ppm	ppb
Zn ☐	ppm	ppb
☐	ppm	ppb

Toxic Metals

TCLP Metals ☐

Sb ☐	ppb	ppm
As ☐	ppb	ppm
Ba ☐	ppb	ppm
Be ☐	ppb	ppm
Cd ☐	ppb	ppm
Cr ☐	ppb	ppm
Pb ☐	ppb	ppm
Hg ☐	ppb	ppm
Ni ☐	ppb	ppm
Se ☐	ppb	ppm
Ag ☐	ppb	ppm
Tl ☐	ppb	ppm

NOTE: **ALL FIELD DATA MUST BE RECORDED TO MAINTAIN CHAIN OF CUSTODY**

Remarks: _____

Date Completed: JUN 18 1996

Laboratory Director: James T. Hand

MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
ENVIRONMENTAL LABORATORY

Project: _____ Field I.D.#: _____
Lab I.D.#: 4300
Site Sampled: _____ Date Sampled: _____

Sample Matrix: Water

Volatile Organics

Organics-Volatiles Parameter	Sample Results (ug/l)	Detection Limits (ug/l)	Method
Acetone	< 100	100	8240B (f), 524.1 (i), 624 (g)
Acrolein	< 100	100	8240B (f), 524.1 (i), 624 (g)
Acrylonitrile	< 100	100	8240B (f), 524.1 (i), 624 (g)
Benzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Bromodichloromethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Bromoform	< 5	5	8240B (f), 524.1 (i), 624 (g)
2-Butanone	< 100	100	8240B (f), 524.1 (i), 624 (g)
Carbon Disulfide	< 5	5	8240B (f), 524.1 (i), 624 (g)
Carbon Tetrachloride	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chloroform	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chlorodibromomethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Chloroethane	< 10	10	8240B (f), 524.1 (i), 624 (g)
2-Chloroethyl Vinyl Ether	< 10	10	8240B (f), 524.1 (i), 624 (g)
1,2 Dibromoethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,3-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,4-Dichlorobenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1-Dichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1-Dichloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
cis-1,2-Dichloroethene	< 5	5	8240B (f), 524.1 (i), 624 (g)
trans-1,2-Dichloroethene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,2-Dichloropropane	< 5	5	8240B (f), 524.1 (i), 624 (g)
cis-1,3-Dichloropropene	< 5	5	8240B (f), 524.1 (i), 624 (g)
trans-1,3-Dichloropropene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Ethylbenzene	< 5	5	8240B (f), 524.1 (i), 624 (g)
2-Hexanone	< 50	50	8240B (f), 524.1 (i), 624 (g)
4-Methyl-2-Pentanone	< 50	50	8240B (f), 524.1 (i), 624 (g)
Methyl Bromide	< 10	10	8240B (f), 524.1 (i), 624 (g)
Methyl Chloride	< 10	10	8240B (f), 524.1 (i), 624 (g)

(f) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846
(g) 40 CFR, part 136
(i) Methods for the Determination of Organic Compounds (EPA 1988)

MECKLENBURG COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
ENVIRONMENTAL LABORATORY

Project: _____

Site Sampled: _____

Field I.D.#: _____
Lab I.D.#: 4300
Date Sampled: _____

Sample Matrix: Water

Volatile Organics(cont)

Organics-Volatiles Parameter	Sample Results (ug/l)	Detection Limits (ug/l)	Method
Methylene Chloride	< 5	5	8240B (f), 524.1 (i), 624 (g)
MTBE	< 5	5	8240B (f), 524.1 (i), 624 (g)
Styrene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,2,2 Tetrachloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Tetrachloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Toluene	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,1-Trichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
1,1,2-Trichloroethane	< 5	5	8240B (f), 524.1 (i), 624 (g)
Trichloroethylene	< 5	5	8240B (f), 524.1 (i), 624 (g)
Trichlorofluoromethane	< 10	10	8240B (f), 524.1 (i), 624 (g)
Vinyl Acetate	< 5	5	8240B (f), 524.1 (i), 624 (g)
Vinyl Chloride	< 10	10	8240B (f), 524.1 (i), 624 (g)
Xylenes (total)	< 5	5	8240B (f), 524.1 (i), 624 (g)

(f) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846
(g) 40 CFR, part 136
(i) Methods for the Determination of Organic Compounds (EPA 1988)