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Site Name	NCDOT ASPHALT TESTING SITE #70
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Division	WASTE MANAGEMENT
Section	SUPERFUND
Program	IHS (IHS)
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Centennial Campus
900 Main Campus Drive, Suite 141
Raleigh, NC 27606
Telephone: (919) 838-2875
Fax: (919) 838-6682

September 27, 2006

Mr. Thomas C. Niver, P.G., CHMM
NCDOT - Roadside Environmental Unit
Environmental Operations Section
4809 Beryl Road
Raleigh, North Carolina 27606

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Re: Summary of Field Activities - Report of Findings
NCDOT Site #70
APAC-Carolina, Inc., Crowell Constructors
Robeson County, Lumberton, North Carolina
Groundwater Incident No. Pending
CATLIN Project No. 206-020

Dear Mr. Niver:

Enclosed is one copy of the finalized *"Summary of Field Activities – Report of Findings"* dated September 27, 2006 for your files. We have also forwarded a copy of this report to Mr. Sean Boyles with the NCDENR – Fayetteville Regional Office (FaRO) on your behalf.

If you should have any questions or concerns, please contact us at your convenience. CATLIN Engineers and Scientists appreciate the opportunity to provide engineering services for the North Carolina Department of Transportation.

Sincerely,

Jacob C. Wessell for
Thomas W. Landis, P.G.
Project Manager

Jacob C. Wessell
Jacob C. Wessell, P.E.
Project Engineer

Enclosure

cc: Mr. Sean Boyles; NCDENR-FaRO (Letter Only)

JCW/jcw

206020ROF_Sep06.LTR.doc

- They Need to do More drilling Site Recon
- Possible Well Sampling

www.p2pays.org/esi

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September 27, 2006

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DENR – FAYETTEVILLE REGIONAL OFFICE

North Carolina Department of Environment
and Natural Resources
Fayetteville Regional Office
Attn.: Mr. Sean Boyles
Systel Building, 225 Green Sreet, Suite 714
Fayetteville, North Carolina 28301-5094

Re: Summary of Field Activities - Report of Findings
NCDOT Site #70
APAC-Carolina, Inc., Crowell Constructors
Robeson County, Lumberton, North Carolina
Groundwater Incident No. Pending
CATLIN Project No. 206-020

Dear Mr. Boyles:

Enclosed for the above referenced site is one copy of the finalized *"Summary of Field Activities – Report of Findings"* dated September 27, 2006 for your review.

If you should require additional information or need to discuss these findings further, please do not hesitate to call CATLIN at (910) 452-5861 or Chris Niver with the NCDOT at (919) 835-8481.

Sincerely,

Jacob C Wessell for
Thomas W. Landis, P.G.
Project Manager

Jacob C Wessell
Jacob C. Wessell, P.E.
Project Engineer

Enclosure

cc: Mr. Thomas C. Niver, P.G., CHMM; NCDOT (Letter Only)

JCW/jcw

206020ROF_Sep06.LTR.Boyles.doc

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SUMMARY OF FIELD ACTIVITIES
REPORT OF FINDINGS

FOR

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
FORMER ASPHALTIC MATERIAL TESTING
LABORATORY SITES – STATEWIDE

NCDOT SITE #70
APAC-CAROLINA, INC., CROWELL CONSTRUCTORS
1156 US HIGHWAY 74
ROBESON COUNTY
LUMBERTON, NORTH CAROLINA
CATLIN PROJECT NO. 206-020
GROUNDWATER INCIDENT NO. PENDING

Issued: September 27, 2006

PREPARED FOR:

John Kirby/Thomas C. Niver, P.G., CHMM
North Carolina Department of Transportation
NCDOT Roadside Environmental Unit
Environmental Operations Section
4809 Beryl Road
Raleigh, North Carolina 27606

NORTH CAROLINA PROFESSIONAL SEAL 030395 ENGINEER JACOB C. WESSELL
9-27-06

PREPARED BY:

Catlin Engineers and Scientists
220 Old Dairy Road
Wilmington, North Carolina 28405
(910) 452-5861

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APPENDIX A	SAMPLING FIELD DATA WORKSHEETS
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SUMMARY OF FIELD ACTIVITIES
REPORT OF FINDINGS

NCDOT SITE #70
APAC-CAROLINA, INC., CROWELL CONSTRUCTORS
1156 US HIGHWAY 74
ROBESON COUNTY
LUMBERTON, NORTH CAROLINA
GROUNDWATER INCIDENT NO. PENDING

September 27, 2006

1.0 INTRODUCTION
(Refer to Figure 1)

CATLIN Engineers and Scientists (CATLIN) recently completed field activities at the North Carolina Department of Transportation (NCDOT) Site #70 in Lumberton, North Carolina (refer to Figure 1). Field activities were conducted on April 4, 2006 and included an initial evaluation of the existing monitoring well network status and the gauging and sampling of all accessible monitoring wells located on site. Groundwater samples were collected and delivered to SGS/Paradigm Analytical Laboratories, Inc. (NC Certification No. 481) of Wilmington, North Carolina, to be analyzed per EPA Method 6230D. This work was conducted in general accordance with a cost estimate prepared by CATLIN and authorized by the NCDOT.

2.0 INITIAL SITE INSPECTION/MONITORING WELL NETWORK STATUS
(Refer to Figure 2 and Table 1)

An initial site inspection and monitoring well network survey was conducted on April 4, 2006. During this recent investigation, monitoring wells 70MW-02, 70MW-07, 70MW-10, and 70MW-11 were located and found to be functional. Monitoring wells 70MW-01, 70MW-03, 70MW-04, 70MW-05, 70MW-06, 70MW-08, 70MW-09, and 70DW-01 could not be located and are presumed destroyed. The monitoring wells located during this site reconnaissance, as well as the surrounding buildings, stockpiles, and site features have been professionally surveyed and horizontally located in the field by a NCDOT approved land surveying contractor, GeoInnovation, PC. Existing monitoring well locations are illustrated on Figure 2, and a summary of the status of each monitoring well is provided in Table 1.

3.0 GROUNDWATER INVESTIGATION

3.1 DETERMINATION OF GROUNDWATER TABLE ELEVATIONS
(Refer to Table 1 and Figure 3)

Monitoring wells 70MW-02, 70MW-07, 70MW-10, and 70MW-11 were gauged for depth to water (DTW). Depth to groundwater measurements were then referenced to top of casing (TOC) elevations of the monitoring

wells. Groundwater table elevations are summarized in Table 1, and groundwater contours are illustrated in Figure 3. The general direction of groundwater flow across the subject site is towards the east-northeast.

3.2 *PURGING/SAMPLING OF GROUNDWATER MONITORING WELLS*
(Refer to Appendix A)

Prior to obtaining representative groundwater samples, each monitoring well was gauged for depth to groundwater and purged of a minimum of three well volumes using a new disposable bailer. The latest groundwater samples were obtained on April 4, 2006. A table summarizing sampling field data with purge volume calculations is included in Appendix A. After purging, a groundwater sample was collected from each monitoring well using new, disposable nitrile gloves and a bailer. Groundwater samples were collected in accordance with the following procedures:

- Chemical preservatives, where applicable, were added to sample bottles by the laboratory;
- Sample bottles were labeled prior to sample collection;
- Caps were secured on bottles;
- Sample containers were placed in plastic bags and the bags sealed. The bags were then kept on ice (<4ºC) during transportation to the laboratory.

Groundwater samples were transported under the appropriate Chain-of-Custody documentation to SGS/Paradigm Analytical Laboratories Inc. (NC Certification No. 481) in Wilmington, North Carolina, where they were analyzed per EPA method 6230D.

3.3 *GROUNDWATER ANALYTICAL RESULTS – EPA METHOD 6230D*
(Refer to Table 2, Figure 4, and Appendix B)

Based upon a review of laboratory results, target chlorinated degradation compound concentrations were identified above current North Carolina Administrative Code (NCAC) 15A:02L Groundwater Quality Standards (2L GWQS) in monitoring well 70MW-02.

Monitoring well 70MW-02 contained a non-compliant concentration of dissolved Vinyl Chloride (VC) at 1.58 µg/L. Additionally, laboratory test results from monitoring well 70MW-02 indicated concentrations of 1,1-Dichloroethane at 9.32 µg/L, cis-1,2-Dichloroethene at 3.96 µg/L, 1,1-Dichloroethene at 0.887 µg/L, sec-Butylbenzene at 0.481 µg/L, Naphthalene at 2.42 µg/L, 1,1,1-Trichloroethane at 0.606 µg/L, and Trichloroethene at 1.17 µg/L, which are below their respective 2L GWQS. All remaining groundwater samples were reported as BQL for target chlorinated solvent compounds from the EPA 6230D analyte list.

Groundwater analytical results are summarized in Table 2 and the estimated horizontal extent of dissolved VC concentrations is illustrated in Figure 4. Laboratory reports and Chain-of-Custody documentation are included in Appendix B.

4.0 WASTE MANAGEMENT

All purge water was collected and was containerized in 55-gallon drums. All drums were then labeled, dated, and temporarily stored on site at the corner of the lube building area with the permission of the property owner. CATLIN is currently arranging removal and disposal of the Investigative Derived Waste (IDW) by an approved North Carolina certified waste disposal firm.

5.0 CONCLUSIONS/ RECOMMENDATIONS

Four monitoring wells were located during the April 2006 initial site inspection. Eight other monitoring wells were unable to be located for sampling. Four monitoring wells currently remain for continued monitoring.

Based on the results reported herein, a review of the previous documents associated with the site, and our recent site reconnaissance, it appears that additional monitoring wells are necessary to replace those that have been presumed destroyed and to more accurately define the contaminant plume. Sufficient data does not exist to determine if natural attenuation remains a viable remedial option for this site.

With regard to these conclusions, CATLIN proposes the following recommendations:

- Install eight (8) Type II monitoring wells, designated 70MW-12, 70MW-13, 70MW-14, 70MW-15, 70MW-16, 70MW-17, 70MW-18, and 70MW-19 to better define the horizontal and vertical extent of contamination in the shallow aquifer zone across the site. Locations of the proposed wells are shown on Figure 2.

- Install two (2) Type III monitoring wells, designated 70DW-02 and 70DW-03, to better define the horizontal and vertical extent of contamination in the deep aquifer zone across the site. Locations of the proposed wells are shown on Figure 2.

- Obtain a surface water sample from the pond that is northwest of the scale and silos. The location of the surface water sample is shown on Figure 2.

- Once the extent of groundwater contamination has been established, prepare a Corrective Action Plan (CAP) to evaluate and provide an outline for the implementation of the best remedial approach.

6.0 REFERENCES

GERAGHTY & MILLER, INC., *Comprehensive Site Assessment Report – NCDOT Site #70*, April 1997.

NCDENR Division of Environmental Management, *Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater*, March 1993 (Revised June 1993).

TABLES

TABLES

TABLE 1

MONITORING WELL CONSTRUCTION AND WATER LEVEL GAUGING DATA - (APRIL 4, 2006)

NCDOT SITE #70
APAC-CAROLINA, INC., CROWELL CONSTRUCTORS
1156 US HIGHWAY 74
ROBESON COUNTY
LUMBERTON, NORTH CAROLINA

WELL I.D.	DATE CONSTRUCTED	CASING (FT.)	SCREEN INTERVAL (FT.)	TOTAL DEPTH (FT.)	TOP OF CASING ELEVATION* (FT.)	DEPTH TO WATER (FT.)	FREE PRODUCT THICKNESS (FT.)	GROUNDWATER ELEVATION (FT.)
SHALLOW MONITORING WELLS								
70MW-01	11/6/1996	0-5	5-15	15	1,002.45	Could Not Locate/Presumed Destroyed		
70MW-02	11/6/1996	0-5	5-15	15	1,001.33	7.16		994.17
70MW-03	11/7/1996	0-5	5-15	15	1,001.67	Could Not Locate/Presumed Destroyed		
70MW-04	11/7/1996	0-5	5-15	15	1,001.16	Could Not Locate/Presumed Destroyed		
70MW-05	11/6/1996	0-5	5-15	15	1,001.55	Could Not Locate/Presumed Destroyed		
70MW-06	11/7/1996	0-5	5-15	15	1,002.09	Could Not Locate/Presumed Destroyed		
70MW-07	12/19/1996	0-10	10-20	20	1,000.69	6.77		993.92
70MW-08	12/19/1996	0-5	5-15	15	998.00	Could Not Locate/Presumed Destroyed		
70MW-09	12/19/1996	0-5	5-15	15	1,000.00	Could Not Locate/Presumed Destroyed		
70MW-10	12/19/1996	0-5	5-15	15	999.16	4.50		994.66
70MW-11	12/19/1996	0-5	5-15	15	1,000.02	5.24		994.78
DEEP MONITORING WELLS								
70DW-01	11/8/1996	0-42	42-52	52	1,002.09	Could Not Locate/Presumed Destroyed		

NOTES:
* Top of casing elevation based on an assumed datum of 1,000.00 feet.

TABLE 2

SUMMARY OF GROUNDWATER LABORATORY RESULTS - EPA METHOD 6230D

NCDOT SITE #70
APAC-CAROLINA, INC., CROWELL CONSTRUCTORS
1156 US HIGHWAY 74
ROBESON COUNTY
LUMBERTON, NORTH CAROLINA

WELL ID	Date Sampled	ANALYTE												
		1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Carbon Tetrachloride	Chloroethane	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Methylene Chloride	Chloroform	Chloromethane (Methyl Chloride)	All other 6230D listed compounds*
2L GWQS		200	7	70**	0.269**	2,800	2.8	70	100**	0.015	4.6**	70**	2.6	VARIES
SHALLOW MONITORING WELLS														
70MW-01	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-02	4/4/2006	0.606	0.887	9.32	<0.5	<0.5	1.17	3.96	<0.5	1.58	<5.0	<0.5	<0.5	2.90 J
70MW-03	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-04	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-05	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-06	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-07	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
70MW-08	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-09	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-10	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
70MW-11	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
70MW-11 DUP	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
DEEP MONITORING WELLS														
70DW-01	4/4/2006	Could Not Locate/Presumed Destroyed												
GRAB SAMPLES														
POND-01	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
POND-02	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
TRIP BLANK	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL

NOTES:
All results in µg/L (parts per billion).
* All other compounds listed in Laboratory Reports in Appendix B.
**** As of January 2005, 2L GWQS have been modified according to NCDENR. Groundwater concentrations identified since this time have been compared to these most recent 2L GWQS.**
Shaded areas indicate detectable concentrations above 2L GWQS.
J = Estimated concentration, below calibration range and above the Method Detection Limit
BQL = Below Quantitation Limits. Quantitation Limit may exceed 2L GWQS.

TABLE 3

SUMMARY OF CURRENT AND HISTORICAL GROUNDWATER LABORATORY RESULTS - EPA METHOD 6230D

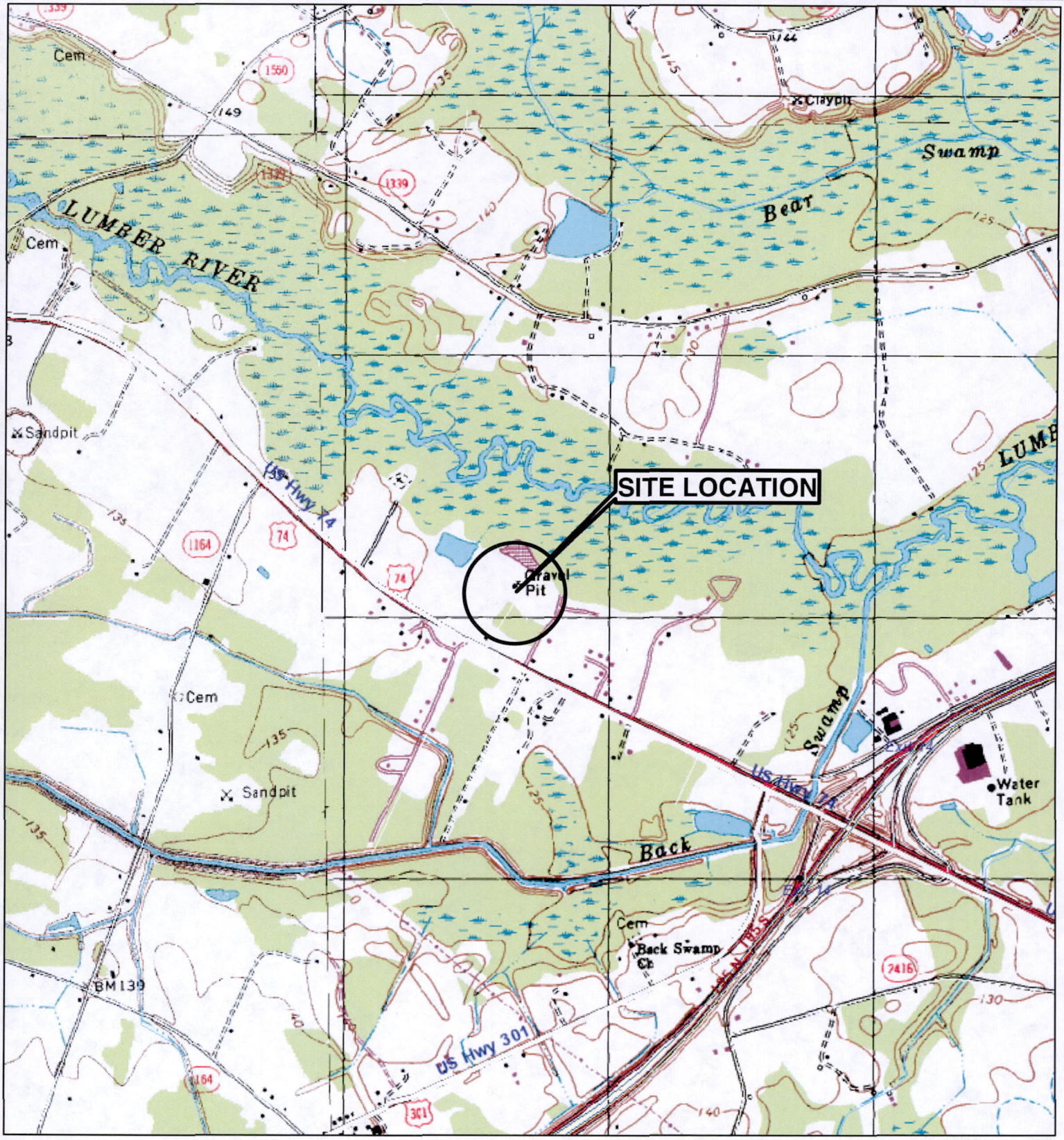
NCDOT SITE #70
APAC-CAROLINA, INC., CROWELL CONSTRUCTORS
1156 US HIGHWAY 74
ROBESON COUNTY
LUMBERTON, NORTH CAROLINA

WELL ID	Date Sampled	ANALYTE												
		1,1,1-Trichloroethane	1,1-Dichloroethene	1,1-Dichloroethane	Carbon Tetrachloride	Chloroethane	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Methylene Chloride	Chloroform	Chloromethane (Methyl Chloride)	All other 6230D listed compounds*
2L GWQS		200	7	70**	0.269**	2,800	2.8	70	100**	0.015	4.6**	70**	2.6	VARIES
SHALLOW MONITORING WELLS														
70MW-01	11/12/1996	1,200 D	83 D	300 D	NA	48 DJ[1]	200 D	130 D	NA	7 J[2]	NA	NA	NA	6
	11/12/1996	990 D	70 DJ[1]	250 D	NA	38 DJ[1]	210 D	100 D	NA	10 J[2]	NA	NA	NA	7
	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-02	11/12/1996	57	17	84	NA	13	<4.0	28	<4.0	<4.0	NA	NA	NA	BQL
	4/4/2006	0.606	0.887	9.32	<0.5	<0.5	1.17	3.96	<0.5	1.58	<5.0	<0.5	<0.5	2.90 J
70MW-03	11/12/1996	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	BQL
	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-04	11/13/1996	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	BQL
	11/13/1996	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	BQL
	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-05	11/13/1996	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	3	NA	NA	NA	BQL
	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-06	11/12/1996	5	7	28	NA	3	31	92	1	11	NA	NA	NA	BQL
	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-07	1/8/1997	<1.0	NA	<1.0	NA	NA	<1.0	<1.0	NA	NA	NA	NA	NA	NA
	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
70MW-08	1/7/1997	<1.0	NA	<1.0	NA	NA	<1.0	<1.0	NA	NA	NA	NA	NA	NA
	1/7/1997 DUP	<1.0	NA	<1.0	NA	NA	<1.0	<1.0	NA	NA	NA	NA	NA	NA
	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-09	1/7/1997	<1.0	NA	<1.0	NA	NA	16	4	NA	NA	NA	NA	NA	NA
	4/4/2006	Could Not Locate/Presumed Destroyed												
70MW-10	1/8/1997	<1.0	NA	<1.0	NA	NA	<1.0	<1.0	NA	NA	NA	NA	NA	NA
	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
70MW-11	1/8/1997	<1.0	NA	<1.0	NA	NA	<1.0	<1.0	NA	NA	NA	NA	NA	NA
	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	BQL
	4/4/2006 DUP	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	BQL
DEEP MONITORING WELLS														
70DW-01	11/12/1996	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	BQL
	4/4/2006	Could Not Locate/Presumed Destroyed												
GRAB SAMPLES														
POND-01	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL
POND-02	4/4/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	BQL

NOTES:
Results obtained by one of the following test methods: 6230D, 8260B, 601, or 602
All results in µg/L (parts per billion).
* All other compounds listed in Laboratory Reports in Appendix B.
** As of January 2005, 2L GWQS have been modified according to NCDENR. Groundwater concentrations identified since this time have been compared to these most recent 2L GWQS.
Shaded areas indicate detectable concentrations above 2L GWQS.
NS = Not Sampled
BQL = Below Quantitation Limits. Quantitation Limit may exceed 2L GWQS
D = Constituent concentration is was quantitated using a secondary dilution.
NA = Not Analyzed
J[1] = Constituent concentration was detected between the method detection limit and quantitation limit and is qualified as estimated
J[2] = Constituent concentration is qualified as estimated because the field duplicate sample criteria were not met.

FIGURES

FIGURES



N
W E
S

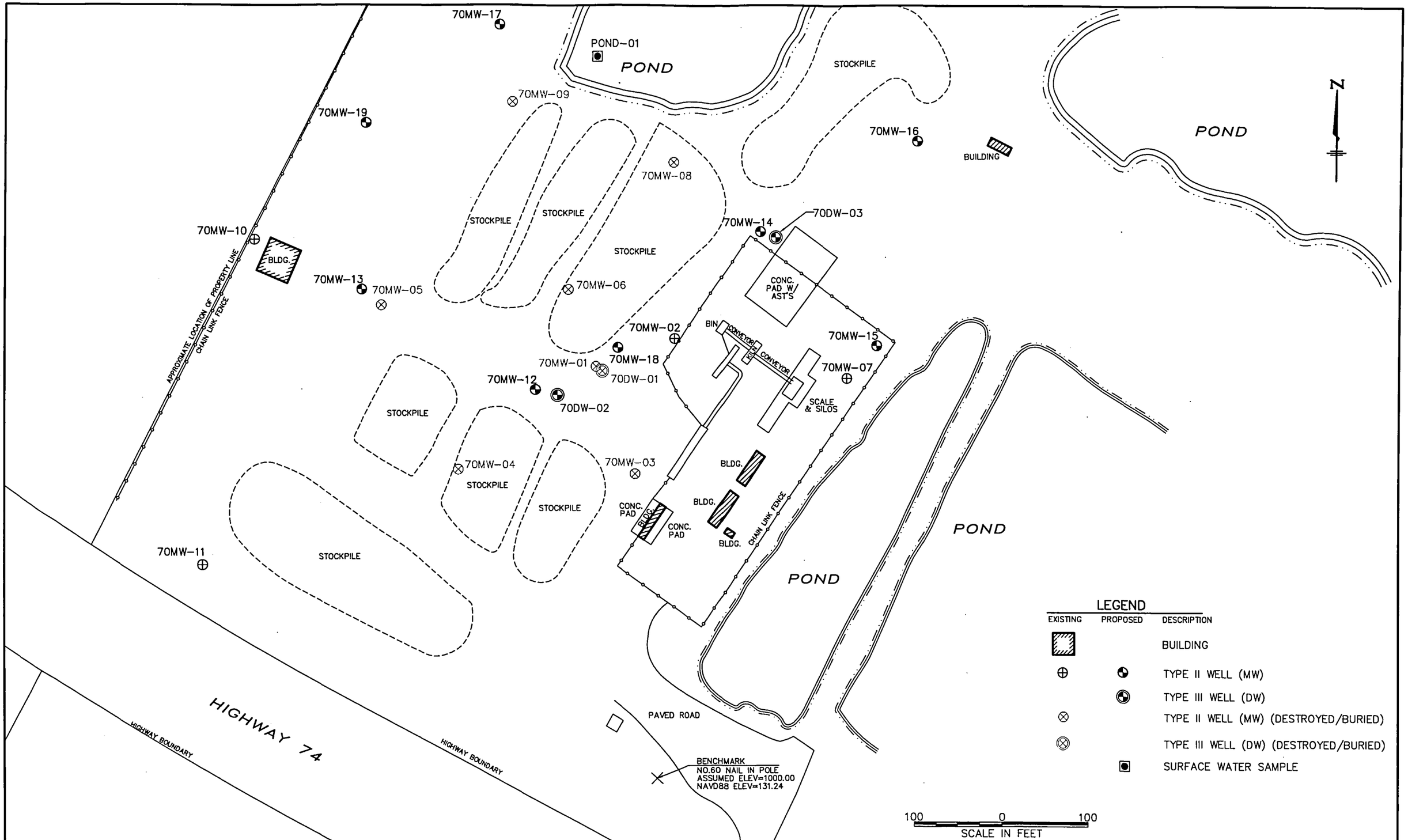
500 250 0 500 1,000 Feet
SCALE

From: USGS Southwest Lumberton, N.C. Topographic Quadrangle, dated 1997

CATLIN ENGINEERS and SCIENTISTS

PROJECT	TITLE	FIGURE
NCDOT SITE #70 1156 US HIGHWAY 74 ROBESON COUNTY LUMBERTON, N.C.	GENERAL LOCATION USGS TOPOGRAPHIC QUADRANGLE	1

JOB NO.	DATE	SCALE	DRAWN BY	CHECKED BY
206-020	SEP 2006	1" = 500'	LCJ	TWL



NOTE:
1. BENCHMARK ELEVATION IS BASED ON AN ASSUMED DATUM OF 1,000.00 FEET.

CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT: NCDOT SITE #70 1156 US HIGHWAY 74 ROBESON COUNTY LUMBERTON, N.C.	TITLE: SITE PLAN WITH MONITORING WELL NETWORK STATUS AND PROPOSED WELL LOCATIONS AS OF APRIL 4, 2006		FIGURE 2
JOB NO. 206-020 / DATE: SEP 2006	SCALE: 1"=100'	DRAWN BY: SJO	CHECKED BY: JCW

206020-ROF-02

POND
STOCKPILE
70MW-09
70MW-08
BUILDING
POND
N
70MW-10
(994.66)
BLDG.
APPROXIMATE LOCATION OF PROPERTY LINE
CHAIN LINK FENCE
STOCKPILE
STOCKPILE
STOCKPILE
70MW-05
70MW-06
CONC. PAD W/ AST'S
70MW-02
(994.17)
BIN
CONVEYOR
CONVEYOR
994.00
70MW-07
(993.92)
70MW-01
70DW-01
994.70
994.60
994.50
994.40
994.30
994.20
994.10
SCALE & SILOS
STOCKPILE
70MW-04
STOCKPILE
70MW-03
BLDG.
STOCKPILE
CONC. PAD
BLDG.
CONC. PAD
BLDG.
BLDG.
CHAIN LINK FENCE
POND
POND
70MW-11
(994.78)
STOCKPILE
PAVED ROAD
HIGHWAY 74
HIGHWAY BOUNDARY

LEGEND

SYMBOL	DESCRIPTION
	BUILDING
⊕	TYPE II WELL (MW)
⊗	TYPE II WELL (MW) (DESTROYED/BURIED)
	TYPE III WELL (DW) (DESTROYED/BURIED)
→	GROUNDWATER FLOW DIRECTION
- - -	GROUNDWATER CONTOUR

100 0 100
SCALE IN FEET

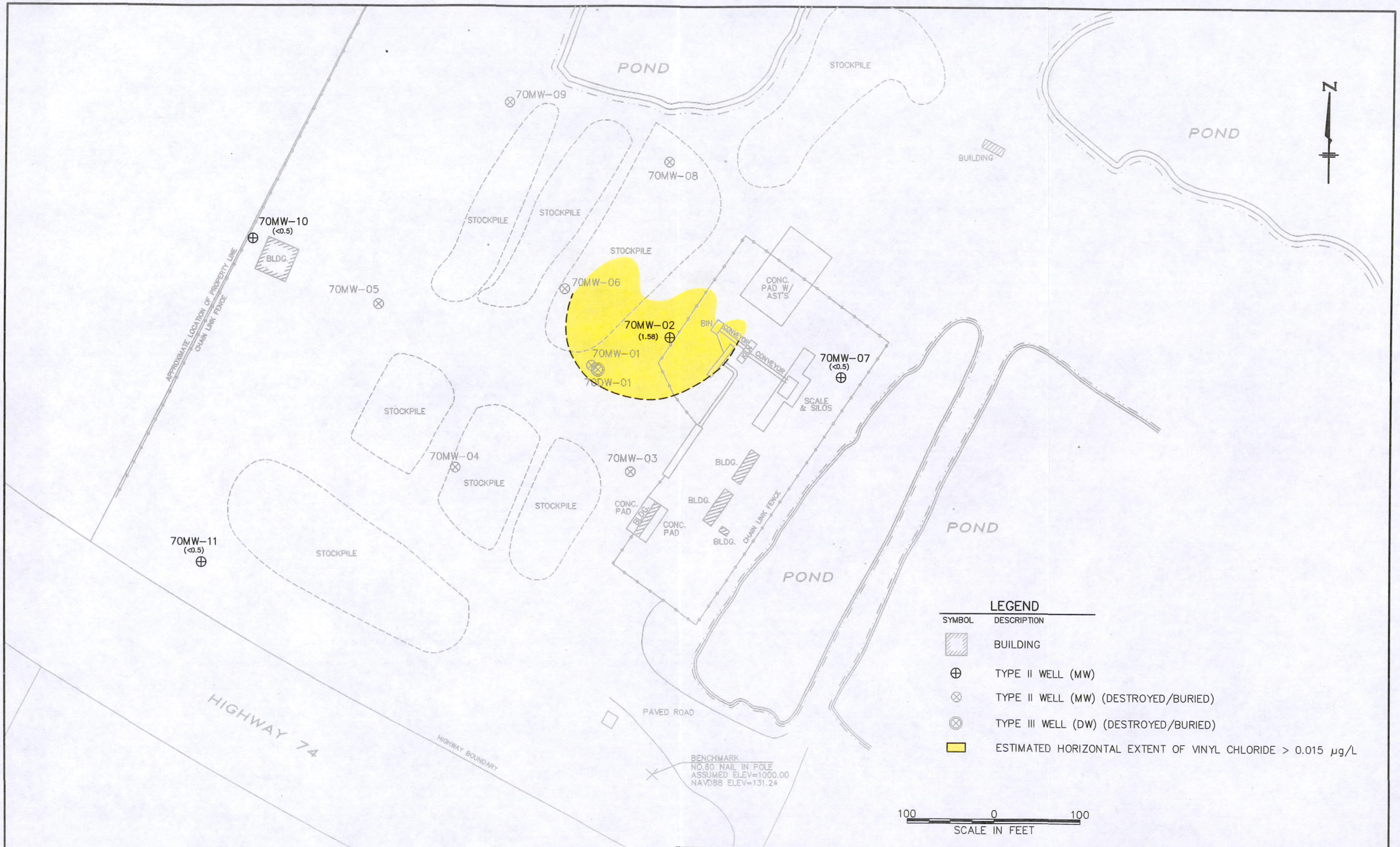
NOTE:
1. BENCHMARK ELEVATION IS BASED ON AN ASSUMED DATUM OF 1,000.00 FEET.
2. CONTOUR INTERVAL = 0.10 FEET.

CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT	TITLE	FIGURE
NCDOT SITE #70 1156 US HIGHWAY 74 ROBESON COUNTY LUMBERTON, N.C.	GROUNDWATER CONTOURS AS OF APRIL 4, 2006	3

JOB NO.	DATE	SCALE	DRAWN BY	CHECKED BY
206-020	SEP 2006	1"=100'	SJO	JCW

206020-ROF-03



NOTE:
1. BENCHMARK ELEVATION IS BASED ON AN ASSUMED DATUM OF 1,000.00 FEET.
2. ALL RESULTS IN µg/L.
3. 2L GWQS FOR VINYL CHLORIDE = 0.015 µg/L.

CATLIN ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

PROJECT: NCDOT SITE #70, 1156 US HIGHWAY 74, ROBESON COUNTY, LUMBERTON, N.C.	TITLE: ESTIMATED HORIZONTAL EXTENT OF DISSOLVED VINYL CHLORIDE WITHIN SHALLOW AQUIFER ZONE AS OF APRIL 4, 2006		FIGURE 4
JOB NO. 206-020 / DATE: SEP 2006	SCALE: 1"=100'	DRAWN BY: SJO	CHECKED BY: JCW

206020-ROF-04

APPENDICES

APPENDIX A

APPENDIX A

SAMPLING FIELD DATA WORKSHEETS

APPENDIX A

SAMPLING FIELD DATA WORKSHEET

NCDOT SITE #70
APAC-CAROLINA, INC., CROWELL CONSTRUCTORS
1156 US HIGHWAY 74
ROBESON COUNTY
LUMBERTON, NORTH CAROLINA

WELL I.D.	DATE SAMPLED	TIME SAMPLED	WELL DIAMETER (IN.)	WELL DEPTH (FT.)	DEPTH TO WATER (FT.)	FEET OF WATER IN WELL	GAL/FOOT	ONE VOLUME (GALS.)	THREE VOLUMES (GALS.)	VOLUME OF BAILER (GALS.)	NO. BAILS REQUIRED	NO. BAILS TAKEN	VOLUME REMOVED (GALS.)
SHALLOW MONITORING WELLS													
70MW-01	4/4/2006	NS	2.0	15	Could Not Locate/Presumed Destroyed								
70MW-02	4/4/2006	13:30	2.0	15	7.16	7.84	0.163	1.28	3.83	0.24	16	16	3.8
70MW-03	4/4/2006	NS	2.0	15	Could Not Locate/Presumed Destroyed								
70MW-04	4/4/2006	NS	2.0	15	Could Not Locate/Presumed Destroyed								
70MW-05	4/4/2006	NS	2.0	15	Could Not Locate/Presumed Destroyed								
70MW-06	4/4/2006	NS	2.0	15	Could Not Locate/Presumed Destroyed								
70MW-07	4/4/2006	13:45	2.0	20	6.77	13.23	0.163	2.16	6.47	0.24	27	28	6.7
70MW-08	4/4/2006	NS	2.0	15	Could Not Locate/Presumed Destroyed								
70MW-09	4/4/2006	NS	2.0	15	Could Not Locate/Presumed Destroyed								
70MW-10	4/4/2006	13:00	2.0	15	4.50	10.50	0.163	1.71	5.13	0.24	21	22	5.3
70MW-11	4/4/2006	12:30	2.0	15	5.24	9.76	0.163	1.59	4.77	0.24	20	20	4.8
DEEP MONITORING WELLS													
70DW-01	4/4/2006	NS	2.0	54	Could Not Locate/Presumed Destroyed								

NOTES:
NS = Not Sampled

APPENDIX B

APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

206-020

SGS

Ms. Johli Carscallen
Richard Catlin & Associates
220 Old Dairy Rd.
Wilmington NC 28405

Report Number: G128-1746

Client Project: NCDOT #70

Dear Ms. Carscallen:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.

4/21/2006

Laboratory Director — Date
J. Patrick Weaver

Paradigm Analytical Laboratories, Inc. | 5500 Business Dr., Wilmington, NC 28405 t (910) 350-1903 f (910) 350-1557 www.sgs.com

Member of the SGS Group

SGS

Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-2
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-1A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:30
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	0.500	0.161	1	4/13/2006	
Bromobenzene	BQL	0.500	0.929	1	4/13/2006	
Bromochloromethane	BQL	0.500	0.171	1	4/13/2006	
Bromodichloromethane	BQL	0.500	0.213	1	4/13/2006	
Bromoform	BQL	0.500	0.197	1	4/13/2006	
Bromomethane	BQL	0.500	0.405	1	4/13/2006	
n-Butylbenzene	BQL	0.500	0.376	1	4/13/2006	
sec-Butylbenzene	**0.481**	0.500	0.185	1	4/13/2006	J
tert-Butylbenzene	BQL	0.500	0.175	1	4/13/2006	
Carbon tetrachloride	BQL	0.500	0.41	1	4/13/2006	
Chlorobenzene	BQL	0.500	0.177	1	4/13/2006	
Chloroethane	BQL	0.500	0.384	1	4/13/2006	
Chloroform	BQL	0.500	0.179	1	4/13/2006	
Chloromethane	BQL	0.500	0.38	1	4/13/2006	
2-Chlorotoluene	BQL	0.500	0.207	1	4/13/2006	
4-Chlorotoluene	BQL	0.500	0.377	1	4/13/2006	
Dibromochloromethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dibromo-3-chloropropane	BQL	0.500	0.233	1	4/13/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.208	1	4/13/2006	
Dibromomethane	BQL	0.500	0.207	1	4/13/2006	
1,2-Dichlorobenzene	BQL	0.500	0.195	1	4/13/2006	
1,3-Dichlorobenzene	BQL	0.500	0.218	1	4/13/2006	
1,4-Dichlorobenzene	BQL	0.500	0.211	1	4/13/2006	
Dichlorodifluoromethane	BQL	0.500	0.407	1	4/13/2006	
1,1-Dichloroethane	**9.32**	0.500	0.177	1	4/13/2006	
1,2-Dichloroethane	BQL	0.500	0.19	1	4/13/2006	
1,1-Dichloroethene	**0.887**	0.500	0.14	1	4/13/2006	
cis-1,2-Dichloroethene	**3.96**	0.500	0.423	1	4/13/2006	
trans-1,2-Dichloroethene	BQL	0.500	0.186	1	4/13/2006	
1,2-Dichloropropane	BQL	0.500	0.187	1	4/13/2006	
2,2-Dichloropropane	BQL	0.500	0.423	1	4/13/2006	
cis-1,3-Dichloropropene	BQL	0.500	0.21	1	4/13/2006	
trans-1,3-Dichloropropene	BQL	0.500	0.205	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.176	1	4/13/2006	
Ethylbenzene	BQL	0.500	0.166	1	4/13/2006	
Hexachlorobutadiene	BQL	0.500	0.188	1	4/13/2006	
Isopropylbenzene	BQL	0.500	0.18	1	4/13/2006	
p-Isopropyltoluene	BQL	0.500	0.383	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	0.500	0.347	1	4/13/2006	

Reviewed By: _____
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SGS

Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-2
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-1A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:30
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Methylene Chloride	BQL	5.00	0.464	1	4/13/2006	
Naphthalene	**2.42**	0.500	0.2	1	4/13/2006	
n-Propylbenzene	BQL	0.500	0.176	1	4/13/2006	
Styrene	BQL	1.00	0.348	1	4/13/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.198	1	4/13/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.929	1	4/13/2006	
Tetrachloroethene	BQL	0.500	0.445	1	4/13/2006	
Toluene	BQL	0.500	0.187	1	4/13/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.237	1	4/13/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.2	1	4/13/2006	
1,1,1-Trichloroethane	**0.606**	0.500	0.177	1	4/13/2006	
1,1,2-Trichloroethane	BQL	0.500	0.252	1	4/13/2006	
Trichloroethene	**1.17**	0.500	0.266	1	4/13/2006	
Trichlorofluoromethane	BQL	0.500	0.402	1	4/13/2006	
1,2,3-Trichloropropane	BQL	0.500	0.929	1	4/13/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.174	1	4/13/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.374	1	4/13/2006	
Vinyl Chloride	**1.58**	0.500	0.424	1	4/13/2006	
m/p-Xylene	BQL	1.00	0.35	1	4/13/2006	
o-Xylene	BQL	1.00	0.348	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.8	99.6
1,4-Dichlorobutane	40	41.8	105

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: BLP

SGS

Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-7
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-2A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:45
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	0.500	0.161	1	4/13/2006	
Bromobenzene	BQL	0.500	0.929	1	4/13/2006	
Bromochloromethane	BQL	0.500	0.171	1	4/13/2006	
Bromodichloromethane	BQL	0.500	0.213	1	4/13/2006	
Bromoform	BQL	0.500	0.197	1	4/13/2006	
Bromomethane	BQL	0.500	0.405	1	4/13/2006	
n-Butylbenzene	BQL	0.500	0.376	1	4/13/2006	
sec-Butylbenzene	BQL	0.500	0.185	1	4/13/2006	
tert-Butylbenzene	BQL	0.500	0.175	1	4/13/2006	
Carbon tetrachloride	BQL	0.500	0.41	1	4/13/2006	
Chlorobenzene	BQL	0.500	0.177	1	4/13/2006	
Chloroethane	BQL	0.500	0.384	1	4/13/2006	
Chloroform	BQL	0.500	0.179	1	4/13/2006	
Chloromethane	BQL	0.500	0.38	1	4/13/2006	
2-Chlorotoluene	BQL	0.500	0.207	1	4/13/2006	
4-Chlorotoluene	BQL	0.500	0.377	1	4/13/2006	
Dibromochloromethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dibromo-3-chloropropane	BQL	0.500	0.233	1	4/13/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.208	1	4/13/2006	
Dibromomethane	BQL	0.500	0.207	1	4/13/2006	
1,2-Dichlorobenzene	BQL	0.500	0.195	1	4/13/2006	
1,3-Dichlorobenzene	BQL	0.500	0.218	1	4/13/2006	
1,4-Dichlorobenzene	BQL	0.500	0.211	1	4/13/2006	
Dichlorodifluoromethane	BQL	0.500	0.407	1	4/13/2006	
1,1-Dichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dichloroethane	BQL	0.500	0.19	1	4/13/2006	
1,1-Dichloroethene	BQL	0.500	0.14	1	4/13/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.423	1	4/13/2006	
trans-1,2-Dichloroethene	BQL	0.500	0.186	1	4/13/2006	
1,2-Dichloropropane	BQL	0.500	0.187	1	4/13/2006	
2,2-Dichloropropane	BQL	0.500	0.423	1	4/13/2006	
cis-1,3-Dichloropropene	BQL	0.500	0.21	1	4/13/2006	
trans-1,3-Dichloropropene	BQL	0.500	0.205	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.176	1	4/13/2006	
Ethylbenzene	BQL	0.500	0.166	1	4/13/2006	
Hexachlorobutadiene	BQL	0.500	0.188	1	4/13/2006	
Isopropylbenzene	BQL	0.500	0.18	1	4/13/2006	
p-Isopropyltoluene	BQL	0.500	0.383	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	0.500	0.347	1	4/13/2006	

Reviewed By: _____

SGS

Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-7
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-2A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:45
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Methylene Chloride	BQL	5.00	0.464	1	4/13/2006	
Naphthalene	BQL	0.500	0.2	1	4/13/2006	
n-Propylbenzene	BQL	0.500	0.176	1	4/13/2006	
Styrene	BQL	1.00	0.348	1	4/13/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.198	1	4/13/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.929	1	4/13/2006	
Tetrachloroethene	BQL	0.500	0.445	1	4/13/2006	
Toluene	BQL	0.500	0.187	1	4/13/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.237	1	4/13/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.2	1	4/13/2006	
1,1,1-Trichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,1,2-Trichloroethane	BQL	0.500	0.252	1	4/13/2006	
Trichloroethene	BQL	0.500	0.266	1	4/13/2006	
Trichlorofluoromethane	BQL	0.500	0.402	1	4/13/2006	
1,2,3-Trichloropropane	BQL	0.500	0.929	1	4/13/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.174	1	4/13/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.374	1	4/13/2006	
Vinyl Chloride	BQL	0.500	0.424	1	4/13/2006	
m/p-Xylene	BQL	1.00	0.35	1	4/13/2006	
o-Xylene	BQL	1.00	0.348	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100
1,4-Dichlorobutane	40	41.3	103

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____
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SGS

Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-10
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-3A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:00
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	0.500	0.161	1	4/13/2006	
Bromobenzene	BQL	0.500	0.929	1	4/13/2006	
Bromochloromethane	BQL	0.500	0.171	1	4/13/2006	
Bromodichloromethane	BQL	0.500	0.213	1	4/13/2006	
Bromoform	BQL	0.500	0.197	1	4/13/2006	
Bromomethane	BQL	0.500	0.405	1	4/13/2006	
n-Butylbenzene	BQL	0.500	0.376	1	4/13/2006	
sec-Butylbenzene	BQL	0.500	0.185	1	4/13/2006	
tert-Butylbenzene	BQL	0.500	0.175	1	4/13/2006	
Carbon tetrachloride	BQL	0.500	0.41	1	4/13/2006	
Chlorobenzene	BQL	0.500	0.177	1	4/13/2006	
Chloroethane	BQL	0.500	0.384	1	4/13/2006	
Chloroform	BQL	0.500	0.179	1	4/13/2006	
Chloromethane	BQL	0.500	0.38	1	4/13/2006	
2-Chlorotoluene	BQL	0.500	0.207	1	4/13/2006	
4-Chlorotoluene	BQL	0.500	0.377	1	4/13/2006	
Dibromochloromethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dibromo-3-chloropropane	BQL	0.500	0.233	1	4/13/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.208	1	4/13/2006	
Dibromomethane	BQL	0.500	0.207	1	4/13/2006	
1,2-Dichlorobenzene	BQL	0.500	0.195	1	4/13/2006	
1,3-Dichlorobenzene	BQL	0.500	0.218	1	4/13/2006	
1,4-Dichlorobenzene	BQL	0.500	0.211	1	4/13/2006	
Dichlorodifluoromethane	BQL	0.500	0.407	1	4/13/2006	
1,1-Dichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dichloroethane	BQL	0.500	0.19	1	4/13/2006	
1,1-Dichloroethene	BQL	0.500	0.14	1	4/13/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.423	1	4/13/2006	
trans-1,2-Dichloroethene	BQL	0.500	0.186	1	4/13/2006	
1,2-Dichloropropane	BQL	0.500	0.187	1	4/13/2006	
2,2-Dichloropropane	BQL	0.500	0.423	1	4/13/2006	
cis-1,3-Dichloropropene	BQL	0.500	0.21	1	4/13/2006	
trans-1,3-Dichloropropene	BQL	0.500	0.205	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.176	1	4/13/2006	
Ethylbenzene	BQL	0.500	0.166	1	4/13/2006	
Hexachlorobutadiene	BQL	0.500	0.188	1	4/13/2006	
Isopropylbenzene	BQL	0.500	0.18	1	4/13/2006	
p-Isopropyltoluene	BQL	0.500	0.383	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	0.500	0.347	1	4/13/2006	

Reviewed By: _____

SGS

Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-10
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-3A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:00
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Methylene Chloride	BQL	5.00	0.464	1	4/13/2006	
Naphthalene	BQL	0.500	0.2	1	4/13/2006	
n-Propylbenzene	BQL	0.500	0.176	1	4/13/2006	
Styrene	BQL	1.00	0.348	1	4/13/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.198	1	4/13/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.929	1	4/13/2006	
Tetrachloroethene	BQL	0.500	0.445	1	4/13/2006	
Toluene	BQL	0.500	0.187	1	4/13/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.237	1	4/13/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.2	1	4/13/2006	
1,1,1-Trichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,1,2-Trichloroethane	BQL	0.500	0.252	1	4/13/2006	
Trichloroethene	BQL	0.500	0.266	1	4/13/2006	
Trichlorofluoromethane	BQL	0.500	0.402	1	4/13/2006	
1,2,3-Trichloropropane	BQL	0.500	0.929	1	4/13/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.174	1	4/13/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.374	1	4/13/2006	
Vinyl Chloride	BQL	0.500	0.424	1	4/13/2006	
m/p-Xylene	BQL	1.00	0.35	1	4/13/2006	
o-Xylene	BQL	1.00	0.348	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100
1,4-Dichlorobutane	40	41.1	103

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

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Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-11
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-4A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 12:30
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	0.500	0.161	1	4/13/2006	
Bromobenzene	BQL	0.500	0.929	1	4/13/2006	
Bromochloromethane	BQL	0.500	0.171	1	4/13/2006	
Bromodichloromethane	BQL	0.500	0.213	1	4/13/2006	
Bromoform	BQL	0.500	0.197	1	4/13/2006	
Bromomethane	BQL	0.500	0.405	1	4/13/2006	
n-Butylbenzene	BQL	0.500	0.376	1	4/13/2006	
sec-Butylbenzene	BQL	0.500	0.185	1	4/13/2006	
tert-Butylbenzene	BQL	0.500	0.175	1	4/13/2006	
Carbon tetrachloride	BQL	0.500	0.41	1	4/13/2006	
Chlorobenzene	BQL	0.500	0.177	1	4/13/2006	
Chloroethane	BQL	0.500	0.384	1	4/13/2006	
Chloroform	BQL	0.500	0.179	1	4/13/2006	
Chloromethane	BQL	0.500	0.38	1	4/13/2006	
2-Chlorotoluene	BQL	0.500	0.207	1	4/13/2006	
4-Chlorotoluene	BQL	0.500	0.377	1	4/13/2006	
Dibromochloromethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dibromo-3-chloropropane	BQL	0.500	0.233	1	4/13/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.208	1	4/13/2006	
Dibromomethane	BQL	0.500	0.207	1	4/13/2006	
1,2-Dichlorobenzene	BQL	0.500	0.195	1	4/13/2006	
1,3-Dichlorobenzene	BQL	0.500	0.218	1	4/13/2006	
1,4-Dichlorobenzene	BQL	0.500	0.211	1	4/13/2006	
Dichlorodifluoromethane	BQL	0.500	0.407	1	4/13/2006	
1,1-Dichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dichloroethane	BQL	0.500	0.19	1	4/13/2006	
1,1-Dichloroethene	BQL	0.500	0.14	1	4/13/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.423	1	4/13/2006	
trans-1,2-Dichloroethene	BQL	0.500	0.186	1	4/13/2006	
1,2-Dichloropropane	BQL	0.500	0.187	1	4/13/2006	
2,2-Dichloropropane	BQL	0.500	0.423	1	4/13/2006	
cis-1,3-Dichloropropene	BQL	0.500	0.21	1	4/13/2006	
trans-1,3-Dichloropropene	BQL	0.500	0.205	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.176	1	4/13/2006	
Ethylbenzene	BQL	0.500	0.166	1	4/13/2006	
Hexachlorobutadiene	BQL	0.500	0.188	1	4/13/2006	
Isopropylbenzene	BQL	0.500	0.18	1	4/13/2006	
p-Isopropyltoluene	BQL	0.500	0.383	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	0.500	0.347	1	4/13/2006	

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Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-11
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-4A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 12:30
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Methylene Chloride	BQL	5.00	0.464	1	4/13/2006	
Naphthalene	BQL	0.500	0.2	1	4/13/2006	
n-Propylbenzene	BQL	0.500	0.176	1	4/13/2006	
Styrene	BQL	1.00	0.348	1	4/13/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.198	1	4/13/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.929	1	4/13/2006	
Tetrachloroethene	BQL	0.500	0.445	1	4/13/2006	
Toluene	BQL	0.500	0.187	1	4/13/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.237	1	4/13/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.2	1	4/13/2006	
1,1,1-Trichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,1,2-Trichloroethane	BQL	0.500	0.252	1	4/13/2006	
Trichloroethene	BQL	0.500	0.266	1	4/13/2006	
Trichlorofluoromethane	BQL	0.500	0.402	1	4/13/2006	
1,2,3-Trichloropropane	BQL	0.500	0.929	1	4/13/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.174	1	4/13/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.374	1	4/13/2006	
Vinyl Chloride	BQL	0.500	0.424	1	4/13/2006	
m/p-Xylene	BQL	1.00	0.35	1	4/13/2006	
o-Xylene	BQL	1.00	0.348	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100
1,4-Dichlorobutane	40	38.6	96.5

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

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Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-11 Duplicate
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-5A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 12:30
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	0.500	0.161	1	4/13/2006	
Bromobenzene	BQL	0.500	0.929	1	4/13/2006	
Bromochloromethane	BQL	0.500	0.171	1	4/13/2006	
Bromodichloromethane	BQL	0.500	0.213	1	4/13/2006	
Bromoform	BQL	0.500	0.197	1	4/13/2006	
Bromomethane	BQL	0.500	0.405	1	4/13/2006	
n-Butylbenzene	BQL	0.500	0.376	1	4/13/2006	
sec-Butylbenzene	BQL	0.500	0.185	1	4/13/2006	
tert-Butylbenzene	BQL	0.500	0.175	1	4/13/2006	
Carbon tetrachloride	BQL	0.500	0.41	1	4/13/2006	
Chlorobenzene	BQL	0.500	0.177	1	4/13/2006	
Chloroethane	BQL	0.500	0.384	1	4/13/2006	
Chloroform	BQL	0.500	0.179	1	4/13/2006	
Chloromethane	BQL	0.500	0.38	1	4/13/2006	
2-Chlorotoluene	BQL	0.500	0.207	1	4/13/2006	
4-Chlorotoluene	BQL	0.500	0.377	1	4/13/2006	
Dibromochloromethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dibromo-3-chloropropane	BQL	0.500	0.233	1	4/13/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.208	1	4/13/2006	
Dibromomethane	BQL	0.500	0.207	1	4/13/2006	
1,2-Dichlorobenzene	BQL	0.500	0.195	1	4/13/2006	
1,3-Dichlorobenzene	BQL	0.500	0.218	1	4/13/2006	
1,4-Dichlorobenzene	BQL	0.500	0.211	1	4/13/2006	
Dichlorodifluoromethane	BQL	0.500	0.407	1	4/13/2006	
1,1-Dichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dichloroethane	BQL	0.500	0.19	1	4/13/2006	
1,1-Dichloroethene	BQL	0.500	0.14	1	4/13/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.423	1	4/13/2006	
trans-1,2-Dichloroethene	BQL	0.500	0.186	1	4/13/2006	
1,2-Dichloropropane	BQL	0.500	0.187	1	4/13/2006	
2,2-Dichloropropane	BQL	0.500	0.423	1	4/13/2006	
cis-1,3-Dichloropropene	BQL	0.500	0.21	1	4/13/2006	
trans-1,3-Dichloropropene	BQL	0.500	0.205	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.176	1	4/13/2006	
Ethylbenzene	BQL	0.500	0.166	1	4/13/2006	
Hexachlorobutadiene	BQL	0.500	0.188	1	4/13/2006	
Isopropylbenzene	BQL	0.500	0.18	1	4/13/2006	
p-Isopropyltoluene	BQL	0.500	0.383	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	0.500	0.347	1	4/13/2006	

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Results for Volatiles
by GC 6230D

Client Sample ID: 70MW-11 Duplicate
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-5A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 12:30
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Methylene Chloride	BQL	5.00	0.464	1	4/13/2006	
Naphthalene	BQL	0.500	0.2	1	4/13/2006	
n-Propylbenzene	BQL	0.500	0.176	1	4/13/2006	
Styrene	BQL	1.00	0.348	1	4/13/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.198	1	4/13/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.929	1	4/13/2006	
Tetrachloroethene	BQL	0.500	0.445	1	4/13/2006	
Toluene	BQL	0.500	0.187	1	4/13/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.237	1	4/13/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.2	1	4/13/2006	
1,1,1-Trichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,1,2-Trichloroethane	BQL	0.500	0.252	1	4/13/2006	
Trichloroethene	BQL	0.500	0.266	1	4/13/2006	
Trichlorofluoromethane	BQL	0.500	0.402	1	4/13/2006	
1,2,3-Trichloropropane	BQL	0.500	0.929	1	4/13/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.174	1	4/13/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.374	1	4/13/2006	
Vinyl Chloride	BQL	0.500	0.424	1	4/13/2006	
m/p-Xylene	BQL	1.00	0.35	1	4/13/2006	
o-Xylene	BQL	1.00	0.348	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100
1,4-Dichlorobutane	40	38.9	97.3

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

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Results for Volatiles
by GC 6230D

Client Sample ID: Pond #1
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-6A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:05
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	0.500	0.161	1	4/13/2006	
Bromobenzene	BQL	0.500	0.929	1	4/13/2006	
Bromochloromethane	BQL	0.500	0.171	1	4/13/2006	
Bromodichloromethane	BQL	0.500	0.213	1	4/13/2006	
Bromoform	BQL	0.500	0.197	1	4/13/2006	
Bromomethane	BQL	0.500	0.405	1	4/13/2006	
n-Butylbenzene	BQL	0.500	0.376	1	4/13/2006	
sec-Butylbenzene	BQL	0.500	0.185	1	4/13/2006	
tert-Butylbenzene	BQL	0.500	0.175	1	4/13/2006	
Carbon tetrachloride	BQL	0.500	0.41	1	4/13/2006	
Chlorobenzene	BQL	0.500	0.177	1	4/13/2006	
Chloroethane	BQL	0.500	0.384	1	4/13/2006	
Chloroform	BQL	0.500	0.179	1	4/13/2006	
Chloromethane	BQL	0.500	0.38	1	4/13/2006	
2-Chlorotoluene	BQL	0.500	0.207	1	4/13/2006	
4-Chlorotoluene	BQL	0.500	0.377	1	4/13/2006	
Dibromochloromethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dibromo-3-chloropropane	BQL	0.500	0.233	1	4/13/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.208	1	4/13/2006	
Dibromomethane	BQL	0.500	0.207	1	4/13/2006	
1,2-Dichlorobenzene	BQL	0.500	0.195	1	4/13/2006	
1,3-Dichlorobenzene	BQL	0.500	0.218	1	4/13/2006	
1,4-Dichlorobenzene	BQL	0.500	0.211	1	4/13/2006	
Dichlorodifluoromethane	BQL	0.500	0.407	1	4/13/2006	
1,1-Dichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dichloroethane	BQL	0.500	0.19	1	4/13/2006	
1,1-Dichloroethene	BQL	0.500	0.14	1	4/13/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.423	1	4/13/2006	
trans-1,2-Dichloroethene	BQL	0.500	0.186	1	4/13/2006	
1,2-Dichloropropane	BQL	0.500	0.187	1	4/13/2006	
2,2-Dichloropropane	BQL	0.500	0.423	1	4/13/2006	
cis-1,3-Dichloropropene	BQL	0.500	0.21	1	4/13/2006	
trans-1,3-Dichloropropene	BQL	0.500	0.205	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.176	1	4/13/2006	
Ethylbenzene	BQL	0.500	0.166	1	4/13/2006	
Hexachlorobutadiene	BQL	0.500	0.188	1	4/13/2006	
Isopropylbenzene	BQL	0.500	0.18	1	4/13/2006	
p-Isopropyltoluene	BQL	0.500	0.383	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	0.500	0.347	1	4/13/2006	

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Results for Volatiles
by GC 6230D

Client Sample ID: Pond #1
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-6A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:05
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Methylene Chloride	BQL	5.00	0.464	1	4/13/2006	
Naphthalene	BQL	0.500	0.2	1	4/13/2006	
n-Propylbenzene	BQL	0.500	0.176	1	4/13/2006	
Styrene	BQL	1.00	0.348	1	4/13/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.198	1	4/13/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.929	1	4/13/2006	
Tetrachloroethene	BQL	0.500	0.445	1	4/13/2006	
Toluene	BQL	0.500	0.187	1	4/13/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.237	1	4/13/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.2	1	4/13/2006	
1,1,1-Trichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,1,2-Trichloroethane	BQL	0.500	0.252	1	4/13/2006	
Trichloroethene	BQL	0.500	0.266	1	4/13/2006	
Trichlorofluoromethane	BQL	0.500	0.402	1	4/13/2006	
1,2,3-Trichloropropane	BQL	0.500	0.929	1	4/13/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.174	1	4/13/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.374	1	4/13/2006	
Vinyl Chloride	BQL	0.500	0.424	1	4/13/2006	
m/p-Xylene	BQL	1.00	0.35	1	4/13/2006	
o-Xylene	BQL	1.00	0.348	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100
1,4-Dichlorobutane	40	40.3	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

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Results for Volatiles
by GC 6230D

Client Sample ID: Pond #2
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-7A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:15
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	0.500	0.161	1	4/14/2006	
Bromobenzene	BQL	0.500	0.929	1	4/14/2006	
Bromochloromethane	BQL	0.500	0.171	1	4/14/2006	
Bromodichloromethane	BQL	0.500	0.213	1	4/14/2006	
Bromoform	BQL	0.500	0.197	1	4/14/2006	
Bromomethane	BQL	0.500	0.405	1	4/14/2006	
n-Butylbenzene	BQL	0.500	0.376	1	4/14/2006	
sec-Butylbenzene	BQL	0.500	0.185	1	4/14/2006	
tert-Butylbenzene	BQL	0.500	0.175	1	4/14/2006	
Carbon tetrachloride	BQL	0.500	0.41	1	4/14/2006	
Chlorobenzene	BQL	0.500	0.177	1	4/14/2006	
Chloroethane	BQL	0.500	0.384	1	4/14/2006	
Chloroform	BQL	0.500	0.179	1	4/14/2006	
Chloromethane	BQL	0.500	0.38	1	4/14/2006	
2-Chlorotoluene	BQL	0.500	0.207	1	4/14/2006	
4-Chlorotoluene	BQL	0.500	0.377	1	4/14/2006	
Dibromochloromethane	BQL	0.500	0.177	1	4/14/2006	
1,2-Dibromo-3-chloropropane	BQL	0.500	0.233	1	4/14/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.208	1	4/14/2006	
Dibromomethane	BQL	0.500	0.207	1	4/14/2006	
1,2-Dichlorobenzene	BQL	0.500	0.195	1	4/14/2006	
1,3-Dichlorobenzene	BQL	0.500	0.218	1	4/14/2006	
1,4-Dichlorobenzene	BQL	0.500	0.211	1	4/14/2006	
Dichlorodifluoromethane	BQL	0.500	0.407	1	4/14/2006	
1,1-Dichloroethane	BQL	0.500	0.177	1	4/14/2006	
1,2-Dichloroethane	BQL	0.500	0.19	1	4/14/2006	
1,1-Dichloroethene	BQL	0.500	0.14	1	4/14/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.423	1	4/14/2006	
trans-1,2-Dichloroethene	BQL	0.500	0.186	1	4/14/2006	
1,2-Dichloropropane	BQL	0.500	0.187	1	4/14/2006	
2,2-Dichloropropane	BQL	0.500	0.423	1	4/14/2006	
cis-1,3-Dichloropropene	BQL	0.500	0.21	1	4/14/2006	
trans-1,3-Dichloropropene	BQL	0.500	0.205	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.176	1	4/14/2006	
Ethylbenzene	BQL	0.500	0.166	1	4/14/2006	
Hexachlorobutadiene	BQL	0.500	0.188	1	4/14/2006	
Isopropylbenzene	BQL	0.500	0.18	1	4/14/2006	
p-Isopropyltoluene	BQL	0.500	0.383	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	0.500	0.347	1	4/14/2006	

Reviewed By: _____

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Results for Volatiles
by GC 6230D

Client Sample ID: Pond #2
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-7A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 13:15
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Methylene Chloride	BQL	5.00	0.464	1	4/14/2006	
Naphthalene	BQL	0.500	0.2	1	4/14/2006	
n-Propylbenzene	BQL	0.500	0.176	1	4/14/2006	
Styrene	BQL	1.00	0.348	1	4/14/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.198	1	4/14/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.929	1	4/14/2006	
Tetrachloroethene	BQL	0.500	0.445	1	4/14/2006	
Toluene	BQL	0.500	0.187	1	4/14/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.237	1	4/14/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.2	1	4/14/2006	
1,1,1-Trichloroethane	BQL	0.500	0.177	1	4/14/2006	
1,1,2-Trichloroethane	BQL	0.500	0.252	1	4/14/2006	
Trichloroethene	BQL	0.500	0.266	1	4/14/2006	
Trichlorofluoromethane	BQL	0.500	0.402	1	4/14/2006	
1,2,3-Trichloropropane	BQL	0.500	0.929	1	4/14/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.174	1	4/14/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.374	1	4/14/2006	
Vinyl Chloride	BQL	0.500	0.424	1	4/14/2006	
m/p-Xylene	BQL	1.00	0.35	1	4/14/2006	
o-Xylene	BQL	1.00	0.348	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.2	100
1,4-Dichlorobutane	40	41.5	104

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____
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Results for Volatiles
by GC 6230D

Client Sample ID: Trip Blank
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-8A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 0:00
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	0.500	0.161	1	4/13/2006	
Bromobenzene	BQL	0.500	0.929	1	4/13/2006	
Bromochloromethane	BQL	0.500	0.171	1	4/13/2006	
Bromodichloromethane	BQL	0.500	0.213	1	4/13/2006	
Bromoform	BQL	0.500	0.197	1	4/13/2006	
Bromomethane	BQL	0.500	0.405	1	4/13/2006	
n-Butylbenzene	BQL	0.500	0.376	1	4/13/2006	
sec-Butylbenzene	BQL	0.500	0.185	1	4/13/2006	
tert-Butylbenzene	BQL	0.500	0.175	1	4/13/2006	
Carbon tetrachloride	BQL	0.500	0.41	1	4/13/2006	
Chlorobenzene	BQL	0.500	0.177	1	4/13/2006	
Chloroethane	BQL	0.500	0.384	1	4/13/2006	
Chloroform	BQL	0.500	0.179	1	4/13/2006	
Chloromethane	BQL	0.500	0.38	1	4/13/2006	
2-Chlorotoluene	BQL	0.500	0.207	1	4/13/2006	
4-Chlorotoluene	BQL	0.500	0.377	1	4/13/2006	
Dibromochloromethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dibromo-3-chloropropane	BQL	0.500	0.233	1	4/13/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.208	1	4/13/2006	
Dibromomethane	BQL	0.500	0.207	1	4/13/2006	
1,2-Dichlorobenzene	BQL	0.500	0.195	1	4/13/2006	
1,3-Dichlorobenzene	BQL	0.500	0.218	1	4/13/2006	
1,4-Dichlorobenzene	BQL	0.500	0.211	1	4/13/2006	
Dichlorodifluoromethane	BQL	0.500	0.407	1	4/13/2006	
1,1-Dichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,2-Dichloroethane	BQL	0.500	0.19	1	4/13/2006	
1,1-Dichloroethene	BQL	0.500	0.14	1	4/13/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.423	1	4/13/2006	
trans-1,2-Dichloroethene	BQL	0.500	0.186	1	4/13/2006	
1,2-Dichloropropane	BQL	0.500	0.187	1	4/13/2006	
2,2-Dichloropropane	BQL	0.500	0.423	1	4/13/2006	
cis-1,3-Dichloropropene	BQL	0.500	0.21	1	4/13/2006	
trans-1,3-Dichloropropene	BQL	0.500	0.205	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.176	1	4/13/2006	
Ethylbenzene	BQL	0.500	0.166	1	4/13/2006	
Hexachlorobutadiene	BQL	0.500	0.188	1	4/13/2006	
Isopropylbenzene	BQL	0.500	0.18	1	4/13/2006	
p-Isopropyltoluene	BQL	0.500	0.383	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	0.500	0.347	1	4/13/2006	

Reviewed By: _____

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Results for Volatiles
by GC 6230D

Client Sample ID: Trip Blank
Client Project ID: NCDOT #70
Lab Sample ID: G128-1746-8A
Lab Project ID: G128-1746

Analyzed By: MJC
Date Collected: 4/4/2006 0:00
Date Received: 4/5/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Methylene Chloride	BQL	5.00	0.464	1	4/13/2006	
Naphthalene	BQL	0.500	0.2	1	4/13/2006	
n-Propylbenzene	BQL	0.500	0.176	1	4/13/2006	
Styrene	BQL	1.00	0.348	1	4/13/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.198	1	4/13/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.929	1	4/13/2006	
Tetrachloroethene	BQL	0.500	0.445	1	4/13/2006	
Toluene	BQL	0.500	0.187	1	4/13/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.237	1	4/13/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.2	1	4/13/2006	
1,1,1-Trichloroethane	BQL	0.500	0.177	1	4/13/2006	
1,1,2-Trichloroethane	BQL	0.500	0.252	1	4/13/2006	
Trichloroethene	BQL	0.500	0.266	1	4/13/2006	
Trichlorofluoromethane	BQL	0.500	0.402	1	4/13/2006	
1,2,3-Trichloropropane	BQL	0.500	0.929	1	4/13/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.174	1	4/13/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.374	1	4/13/2006	
Vinyl Chloride	BQL	0.500	0.424	1	4/13/2006	
m/p-Xylene	BQL	1.00	0.35	1	4/13/2006	
o-Xylene	BQL	1.00	0.348	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100
1,4-Dichlorobutane	40	40.0	100

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____
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List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

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054641

(1)

CLIENT: CATLIN

CONTACT: (SW) ~~John Wassell~~ Jolli Caseville PHONE NO: (910) 452-5861

PROJECT: NCDOT #70 SITE/PWSID#:

REPORTS TO: Jolli C CATLIN FAX NO.: (910) 452-7563

INVOICE TO: NCDOT QUOTE # WBS# 34613.1.43

PROJECT NO. NUMBER 206-020-2750

SGS Reference: G128-1746

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used: HCl	Analysis Required (3): VOC 8260									REMARKS
	70MW-2	4/4/06	1330	GW	3	G	X										Report in EDD
	70MW-7	↓	1345	GW	3	G	X										format
	70MW-10		1300	GW	3	G	X										
	70MW-11		1230	GW	3	G	X										Report lowest
	70MW-11 Duplicate		1230	GW	3	G	X										Runs
	Pond #1		1305	Surface	3	G	X										
	Pond #2		1315	H2O	3	G	X										
	Trip Blank	↓	—	—	3	G	X										

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Jolli Caseville	4/5/06	1500	Jolli Johnson
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature |C: ambient 1 5.8°C

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

STANDARD