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Site Name PLANTER'S WAREHOUSE

DocumentType Progress/Monitoring Rpt (PRGMON)

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AccessLevel PUBLIC

Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY

Geological Resources, Inc.

June 24, 2008

Ms. Genny Henderson
North Carolina Department of Environment
and Natural Resources
Division of Waste Management
127 Cardinal Drive
Wilmington, North Carolina 28405

RECEIVED
JUN 26 2008
BY:_____

RECEIVED
JUN 26 2008
SUPERFUND SECTION

Re: Ground Water Sampling Report
Planter's Warehouse
1003 Pireway Road
Tabor City, Columbus County
Incident No. Pending

Dear Ms. Henderson:

The purpose of this report is to present the results of ground water recovery and sampling activities conducted from April to June 2008 at the above referenced site (**Figure 1**). The activities were conducted as directed by the April 1, 2003 NCDENR correspondence from Mr. Charles Stehman to Mr. Trent Burroughs. The following Figures, Tables, and Appendices have been attached:

Figure 1: USGS Topographic Map
Figure 2: Site Map
Table 1: Summary of Well Construction Information
Table 2: Summary of Ground Water Sample Analytical Results – Base Line Sampling
Table 3: Summary of Ground Water Sample Analytical Results – Follow-up Sampling
Appendix A: Laboratory Reports – Ground Water Samples
Appendix B: April 2003 DWQ Letter
Appendix C: Water Manifest

Monitoring wells MW-1 through MW-3, MW-5 and deep well DW-1 were gauged, developed and sampled on April 16, 2008 to evaluate current ground water quality conditions at that time. Please note that MW-4, MW-6 and DW-2 had been destroyed and were not gauged or sampled. The depths to ground water in the wells ranged from 2.67 to 4.74 feet.

Laboratory analyses of the ground water samples were performed for ammonia as nitrogen using EPA Method 350.1, for TKN using EPA Method 351.2 and for nitrate and nitrite using EPA Method 353.2. A concentration of nitrate/nitrite that exceeded the 2 L standard was reported in the ground water sample collected from MW-2. Detectable concentrations of nitrate/nitrite, ammonia and/or TKN were reported in all of the ground water

2301 Crown Point Executive Drive Suite F Charlotte, NC 28227
Phone: (704) 845-4010 / (888) 870-4133 Fax: (704) 845-4012

samples collected. Based on these analytical results, the wells (MW-1 through MW-3, MW-5 and DW-1) were pumped in May 2008. Subsequent to the ground water pumping activities, the wells were re-sampled on May 27, 2008. Laboratory analytical results indicated that nitrate concentrations exceeded the 2L standard in ground water samples collected from MW-1 and MW-2.

Based on this information the wells were pumped again in June 2008 and subsequently re-sampled. The concentration of nitrate reported in MW-1 was less than the 2 L Standard on June 5, 2008. The concentration of nitrate reported in MW-2 on June 16, 2008 was less than the 2L Standard. Approximately 2,575-gallons of water has been removed from the site and distributed on adjacent farmland at agronomic rates as suggested in the April 2003 letter.

Based on this information the current concentrations of target analytes are much lower than those reported during the 2002 sampling event. Since the current concentrations are below the NCDENR regulatory standards, GRI recommends that the incident be closed out with a no further action.

Please do not hesitate to contact the undersigned at (704) 845-4010 if you have any questions or require additional information.

Sincerely,
Geological Resources, Inc.

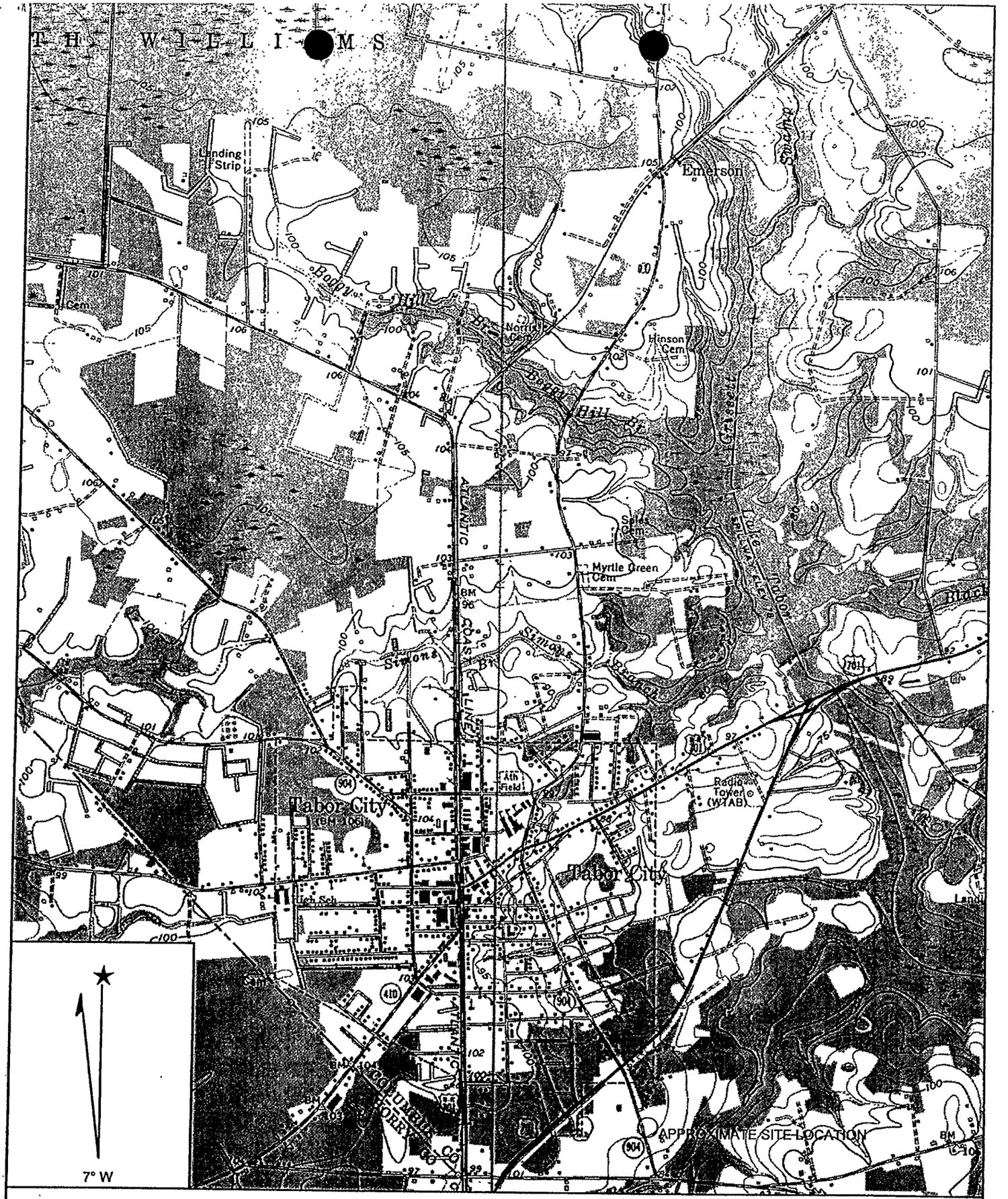
Katherine Lawther for

Nicole Long
Project Manager

NORTH CAROLINA LICENSED SEAL 1013 GEOLOGIST JOHN M. BROWN

John M. Brown, P.G.
License No. 1013

cc: Mr. Kyle Cox
file



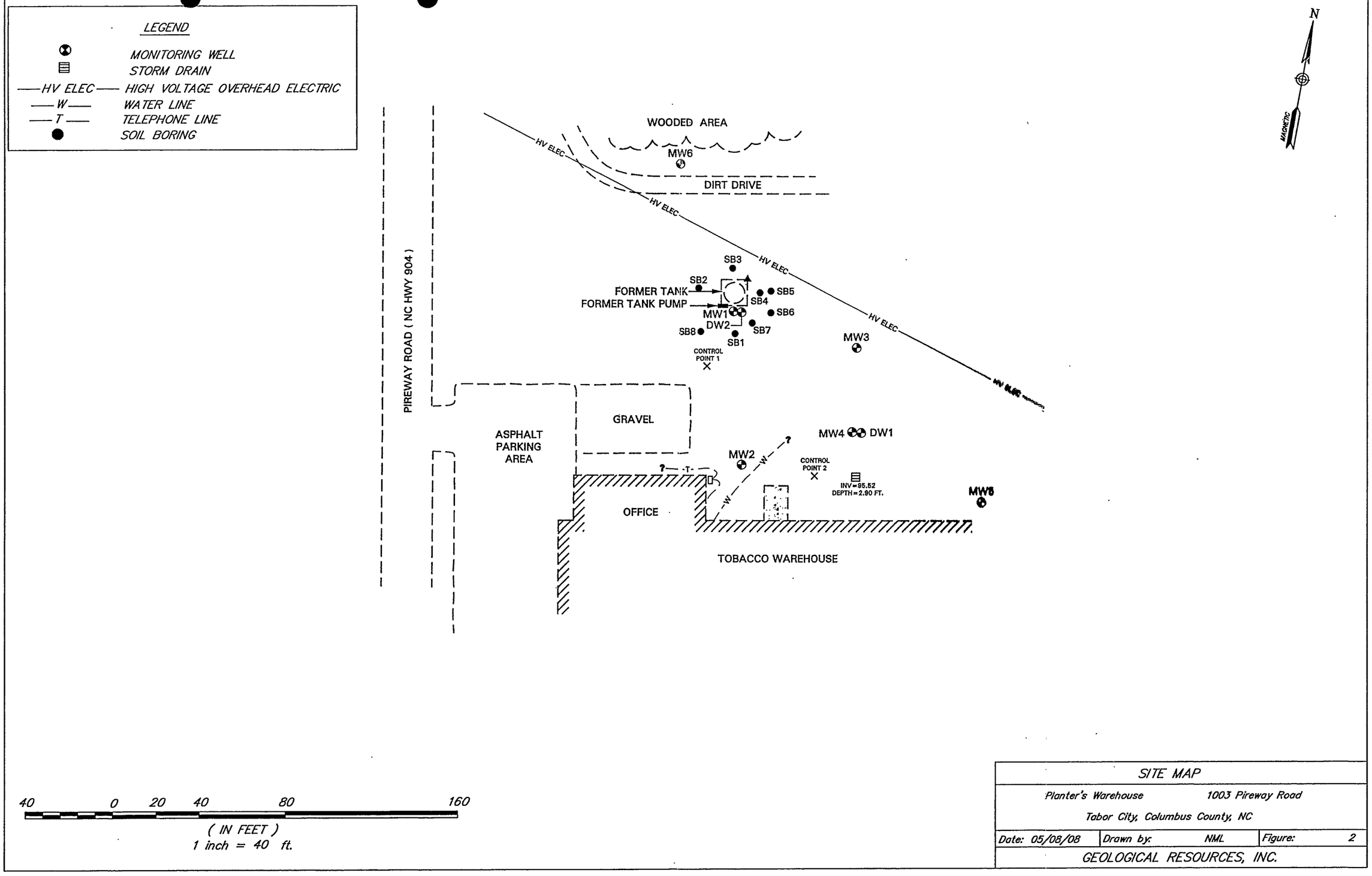
Name: TABOR CITY EAST
Date: 5/7/108
Scale: 1 inch equals 2000 feet

Location: 034° 09' 42.2" N 078° 52' 29.5" W
Caption: FIGURE 1
PLANTERS WAREHOUSE
SITE LOCATION MAP

Copyright (C) 1997, Maptech, Inc.

LEGEND

- MONITORING WELL
- STORM DRAIN
- HV ELEC — HIGH VOLTAGE OVERHEAD ELECTRIC
- W — WATER LINE
- T — TELEPHONE LINE
- SOIL BORING



SITE MAP		
Planter's Warehouse	1003 Pireway Road	
Tabor City, Columbus County, NC		
Date: 05/08/08	Drawn by: NML	Figure: 2
GEOLOGICAL RESOURCES, INC.		

TABLES

TABLE 1
SUMMARY OF WELL CONSTRUCTION INFORMATION
PLANTER'S WAREHOUSE (INCIDENT NO. PENDING)

Date: 05/07/08

Well ID	Date Installed (m/dd/yy)	Date Water Level Measured (m/dd/yy)	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation* (ft.)	Depth to Water from Top of Casing (ft.)	Free Product Thickness** (ft.)	Groundwater Elevation* (ft.)
MW-1	Unknown	4/16/2008	1.7	1.7-11.7	12	99.12	2.69	0.00	96.43
MW-2	Unknown	4/16/2008	2.0	2.0-12.0	12	98.63	3.04	0.00	95.59
MW-3	Unknown	4/16/2008	2.0	2.0-12.0	12	98.66	2.71	0.00	95.95
MW-4	Unknown	4/16/2008	2.0	2.0-12.0	12	98.32	Destroyed	0.00	NA
MW-5	Unknown	4/16/2008	2.0	2.0-12.0	12	98.27	2.67	0.00	95.60
MW-6	Unknown	4/16/2008	2.0	2.0-12.0	12	99.55	Destroyed	0.00	NA
DW-1	Unknown	4/16/2008	20.0	20.0-25.0	25	98.60	4.74	0.00	93.86
DW-2	Unknown	4/16/2008	20.0	20.0-25.0	25	98.69	Destroyed	0.00	NA

Notes:

- * : Reference point for elevation measurements, Assumed elevation 100.00 ft.
- ** : If free product is present in a well, groundwater elevation should be calculated by: [Top of Casing Elevation - Depth to Water] + [free product thickness x 0.8581]
- ft BGS : feet below ground surface

TABLE 2
SUMMARY OF GROUND WATER SAMPLE ANALYTICAL RESULTS
BASELINE SAMPLING
PLANTER'S WAREHOUSE (INCIDENT NO. PENDING)
Date : 06/23/08

Analytical Method (e.g., VOC by EPA 601) →			EPA 353.2	EPA 350.1	EPA 351.2
Contaminant of Concern →			Nitrate/Nitrite	Ammonia	TKN
Well ID	Sample ID	Date Collected (m/dd/yy)			
MW-1	MW-1	4/16/08	2.64	0.0884	1.25
MW-2	MW-2	4/16/08	**19.3**	1.46	7.91
MW-3	MW-3	4/16/08	0.651	<0.050	25.5
MW-5	MW-5	4/16/08	<0.050	<0.050	8.86
DW-1	DW-1	4/16/08	<0.050	<0.050	1.13
2L Standard (mg/l)			10	NS	NS

Notes:
- < : Less than the reporting limit specified in the laboratory report
- Results reported in mg/l
- mg/l: milligrams per liter
- NS = Not specified

TABLE 3
SUMMARY OF GROUND WATER SAMPLE ANALYTICAL RESULTS
FOLLOW-UP SAMPLING
PLANTER'S WAREHOUSE (INCIDENT NO. PENDING)

Date : 06/23/08

Analytical Method (e.g., VOC by EPA 601) →			EPA 300.3	EPA 300.0	EPA 350.2	EPA 351.2
Contaminant of Concern →			Nitrate	Nitrite	Ammonia	TKN
Well ID	Sample ID	Date Collected (m/dd/yy)				
MW-1	MW-1	5/27/08	**18.8**	0.276	17.4	26.0
		6/5/08	4.64	NR	NR	NR
MW-2	MW-2	5/27/08	**18.9**	<0.50	6.31	8.26
		6/16/08	4.31	NR	NR	NR
MW-3	MW-3	5/27/08	9.73	<0.50	0.439	<0.40
MW-5	MW-5	5/27/08	1.27	<0.50	0.0842	<0.40
DW-1	DW-1	5/27/08	0.962	<0.50	0.0531	<0.40
2L Standard (mg/l)			10	10	NS	NS

Notes:
- < : Less than the reporting limit specified in the laboratory report
- Results reported in mg/l
- mg/l: milligrams per liter
- NS = Not specified
- NR = Not requested

APPENDICES

APPENDIX A
Laboratory Reports – Ground Water Samples

Genapure Analytical Services, Inc.

ANALYTICAL RESULTS

Printed: 04/24/08 11:20am

LAURA MINOR
GEOLOGICAL RESOURCES
2301-F CROWN POINT EXECUTIVE DRIVE
CHARLOTTE, NC 28227

Regarding:

LAURA MINOR
GEOLOGICAL RESOURCES
2301-F CROWN POINT EXECUTIVE DRIVE
CHARLOTTE, NC 28227

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: NCDENR

Inv. No: 211187

Collected by: Customer Sampled

Laboratory Sample #	Client Sample ID
L251975-1	MW-1
L251975-2	MW-2
L251975-3	MW-3
L251975-4	MW-5
L251975-5	DW-1

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below PQL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL and PQL;
Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ FL014;PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.
EPA 18 is a non-NELAC certifiable parameter.

Serial Number: 669961

Respectfully submitted,

Tiffany Mackie

Tiffany Mackie
Project Manager

ANALYTICAL RESULTS
Printed: 04/24/08 11:20am

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: NCDENR

Inv. No: 211187

Sample Number: L251975-1
Sample Description: MW-1
Samp. Date/Time/Temp: 04/16/08 12:15pm NA C
Receive Date: 04/18/08
Sampled by: Customer Sampled
Received Temp: 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analyst
Total Kjeldahl Nitrogen KJELDAHL NITROGEN	351.2	1.25	mg/l	1	0.40	N/A	04/23/08	SA
Ammonia AMMONIA	350.1	0.0884	mg/l	1	0.050	N/A	04/23/08	SA
Nitrate/Nitrite NITRATE/NITRITE	353.2	2.64	mg/l	2	0.10	N/A	04/22/08	ZE

Serial Number: 669961

ANALYTICAL RESULTS
Printed: 04/24/08 11:20am

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: NCDENR

Inv. No: 211187

Sample Number	L251975-2
Sample Description	MW-2
Samp. Date/Time/Temp	04/16/08 12:25pm NA C
Receive Date	04/18/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date, Analyst
Total Kjeldahl Nitrogen							
KJELDAHL NITROGEN	351.2	7.91	mg/l	1	0.40	N/A	04/23/08 SA
Ammonia							
AMMONIA	350.1	1.46	mg/l	1	0.050	N/A	04/23/08 SA
Nitrate-Nitrite							
NITRATE/NITRITE	353.2	19.3	mg/l	20	1.0	N/A	04/22/08 ZE

Serial Number: 669961

ANALYTICAL RESULTS
Printed: 04/24/08 11:20am

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: NCDENR

Inv. No: 211187

Sample Number	L251975-3
Sample Description	MW-3
Samp. Date/Time/Temp	04/16/08 12:40pm NA C
Receive Date	04/18/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date	Analyst
Total Kjeldahl Nitrogen								
KJELDAHL NITROGEN	351.2	25.2	mg/l	10	4.0	N/A	04/23/08	SA
Ammonia								
AMMONIA	350.1	U	mg/l	1	0.050	N/A	04/23/08	SA
Nitrate-Nitrite								
NITRATE/NITRITE	353.2	0.651	mg/l	1	0.050	N/A	04/22/08	ZE

Serial Number: 669961

ANALYTICAL RESULTS
Printed: 04/24/08 11:20am

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: NCDENR

Inv. No: 211187

Sample Number L251975-4
Sample Description MW-5
Samp. Date/Time/Temp 04/16/08 01:25pm NA C
Receive Date 04/18/08
Sampled by Customer Sampled
Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date, Analyst
Total Kjeldahl Nitrogen							
KJELDAHL NITROGEN	351.2	8.86	mg/l	1	0.40	N/A	04/23/08 SA
Ammonia							
AMMONIA	350.1	U	mg/l	1	0.050	N/A	04/23/08 SA
Nitrate-Nitrite							
NITRATE/NITRITE	353.2	U	mg/l	1	0.050	N/A	04/22/08 ZE

Serial Number: 669961

ANALYTICAL RESULTS
Printed: 04/24/08 11:20am

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: NCDENR

Inv. No: 211187

Sample Number L251975-5
Sample Description DW-1
Samp. Date/Time/Temp 04/16/08 01:00pm NA C
Receive Date 04/18/08
Sampled by Customer Sampled
Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date, Analyst	
Total Kjeldahl Nitrogen								
KJELDAHL NITROGEN	351.2	1.13	mg/l	1	0.40	N/A	04/23/08	SA
Ammonia								
AMMONIA	350.1	U	mg/l	1	0.050	N/A	04/23/08	SA
Nitrate-Nitrite								
NITRATE/NITRITE	353.2	U	mg/l	1	0.050	N/A	04/22/08	ZE

Serial Number: 669961

Genapure Analytical Services, Inc.

CHAIN OF CUSTODY RECORD

3231 NW 7th Ave., Boca Raton, FL 33431
www.genapure.com

Log# L251975 T#s 5 Quote: _____ Page 1 of 1

Company Name: GRL PO# 071
Address: 2331 E Crown Point Rd Ste
City: Charlotte State: NC Zip: 28227
Attn: K. Sloan Phone:
email:
Project Name: Winter Haven Prop NCDOT
Sampler Signature: Phone: 704-875-4616

LAB ANALYSIS

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	Parameters: 8330 Nitrate/Nitrite	8260 Ammonia	351.2 TKN	EXAMPLE Diss.8RCRA 6010
i.e.	MW-1	6/16/04	11:35	GW	X		1				# of Containers / Size/Type: 1 / 16ozP
1	MW-1	4/1/08	12:25	GW			2	X	X	X	8P 6P
2	MW-2		12:35					X	X	X	
3	MW-3		12:40					X	X	X	
4	MW-5		13:25					X	X	X	
5	DW-1		13:00					X	X	X	
6											
7											
8											
9											
10											

REMARKS

T.A.T. REQUEST Standard	RUSH	Short Hold	QA/QC Report Level	COC OK	Initials	Required State Certification
X	5 Days 4/8/08 Date Required		None 1 2 Other	Y N	SD	

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1		GRL	4/4/08	1700	SD	GAS	4/8/08	1000

Genapure Telephone 888-862-1 ABS or 561-447-7373 Fax: 888-456-4846 or 561-447-6136 Revision G101007

Container Type Codes

AV	Amber Vial	ES	Encore Sampler
CV	Clear Vial	PPV	Prepreserved vial
P	Plastic	PL C	Plastic container
AL	Amber Liter	PL J	Plastic Jar
CL	Clear Liter	Ziploc	Ziploc bag
AP	Amber Plastic	TEDLAR B	Tedlar bag
AG	Amber Glass	WhirlPak P	Whirl pak
SJ	Soil Jar	G	Gallon Jug

Other
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, 40ml other
Example: 4ozP = 4oz Plastic, 8oxSJ=8oz Soil Jar

Matrix Codes*

SD	Solid Waste	WW	Waste Water
SD	Soil	AFW	Aqueous Free Water
SE	Sediment	DW	Drinking Water
OL	Oil	SU	Surface Water
PE	Petroleum	AQ	Aqueous
NA	Nonaqueous	SW	Source Water
ML	Misc. Liquid	A	Air
GW	Ground Water	O	Other (Please Specify)
EFF	Effluent		
INF	Influent		

Pres/Codes

A. None	E. HCL	I. Ice
B. HNO3	F. MeOH	J. MCAA
C. H2SO4	G. Na2S2O3	K. Zn Acetate
D. NaOH	H. NaHSO4	O. Other

Coolers #'s

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?			
Received on Wet Ice? Temp. 4°c			
Proper Preservatives Indicated?			
Received within holding time?			
Custody seals intact?			✓
Volatile rec'd without headspace?			
Proper Containers Used?			

ORIGINAL

Genapure Analytical Services, Inc.

Level I QA

FOR

GEOLOGICAL RESOURCES (NC)

GEOLOGICAL RESOURCES (NC)

NCDENR

Field Sample ID	Laboratory Sample ID	Date of Collection
MW-1	L251975-1	04/16/08
MW-2	L251975-2	04/16/08
MW-3	L251975-3	04/16/08
MW-5	L251975-4	04/16/08
DW-1	L251975-5	04/16/08

Log No.L251975

6 pages (including cover sheet)

Qa Information for Login
usb_qa_export.idxl
L251975

)ept	Matrix	Product	Workgroup	RunID	
Inorganics Anal	GW	AMMONIA350.1	04218NH3D	1-04218NH3D	975-1
Inorganics Anal	GW	TKN351.2	04218TKNC	1-04218TKNC	975-1
Inorganics Anal	GW	NITRATE-NITRITE353.2	04228NOXB	13-04228NOXB	975-1
Inorganics Anal	GW	AMMONIA350.1	04218NH3D	1-04218NH3D	975-2
Inorganics Anal	GW	TKN351.2	04218TKNC	1-04218TKNC	975-2
Inorganics Anal	GW	NITRATE-NITRITE353.2	04228NOXB	9-04228NOXB	975-2
Inorganics Anal	GW	AMMONIA350.1	04218NH3D	1-04218NH3D	975-3
Inorganics Anal	GW	TKN351.2	04218TKNC	1-04218TKNC	975-3
Inorganics Anal	GW	NITRATE-NITRITE353.2	04228NOXB	4-04228NOXB	975-3
Inorganics Anal	GW	AMMONIA350.1	04218NH3D	1-04218NH3D	975-4
Inorganics Anal	GW	TKN351.2	04218TKNC	1-04218TKNC	975-4
Inorganics Anal	GW	NITRATE-NITRITE353.2	04228NOXB	4-04228NOXB	975-4
Inorganics Anal	GW	AMMONIA350.1	04218NH3D	1-04218NH3D	975-5
Inorganics Anal	GW	TKN351.2	04218TKNC	1-04218TKNC	975-5
Inorganics Anal	GW	NITRATE-NITRITE353.2	04228NOXB	4-04228NOXB	975-5

GENAPURE

BLANK RESULTS

Test Report No.: L251975

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : PLANTERS WAREHOUSE

Parameter	Method	Units	Result	PQL	MDL	Flags
KJELDAHL NITROGEN	351.2	mg/l	U	0.400	0.22	
AMMONIA	350.1	mg/l	U	0.0500	0.011	
NITRATE/NITRITE	353.2	mg/l	U	0.0500	0.0017	

Form No. WC3

GENAPURE

LABORATORY CONTROL SAMPLE RESULTS

Test Report No.: L251975

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : PLANTERS WAREHOUSE

Parameter	Method	Units	TrueValue	LCS Result	LCS Rec. %	LCS Dup Result	LCS Dup Rec.%	Recovery Limits	% RPD	RPD Limit	Flags
KJELDAHL NITROGEN	351.2	mg/l	5.00	5.10	102	5.10	102	90-110	0.0	20	
AMMONIA	350.1	mg/l	0.500	0.525	105	0.520	104	90-110	1.0	20	
NITRATE/NITRITE	353.2	mg/l	0.500	0.538	108	0.539	108	90-110	0.2	20	

Spike Recovery: 0 out of 6 outside limits

Duplicate RPD: 0 out of 0 outside limits

Form No. WC5

GENAPURE

SPIKE/SPIKE DUPLICATE SAMPLE RESULTS

Test Report No.: L251975

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : PLANTERS WAREHOUSE

Parameter	Sample Number	Method	Units	Sample Result	Spike Conc.	Spiked Result	Spike Rec. %	Spike Dup Result	Spike Dup Rec.%	Recovery Limits	% RPD	RPD Limit	Flags
KJELDAHL NITROGEN	L251141-5	351.2	mg/l	1.44	10.0	11.5	101	11.8	104	90-110	2.6	20	
AMMONIA	L251936-8	350.1	mg/l	0.0595	0.500	0.517	92	0.510	90	90-110	1.4	20	
AMMONIA	L251954-8	350.1	mg/l	0.299	0.500	0.687	78*	0.699	80*	90-110	1.7	20	
NITRATE/NITRITE	L252006-5	353.2	mg/l	0.244	1.00	1.26	102	1.22	98	90-110	3.2	20	
NITRATE/NITRITE	L251141-6	353.2	mg/l	0.0725	1.00	0.978	91	0.998	93	90-110	2.0	20	

Spike Recovery: 2 out of 10 outside limits

Duplicate RPD: 0 out of 5 outside limits

Form No. WC4

Genapure
Analytical Services, Inc.

ANALYTICAL RESULTS

Printed: 05/30/08 05:24pm

LAURA MINOR
GEOLOGICAL RESOURCES
2301-F CROWN POINT EXECUTIVE DRIVE
CHARLOTTE, NC 28227

Regarding:

LAURA MINOR
GEOLOGICAL RESOURCES
2301-F CROWN POINT EXECUTIVE DRIVE
CHARLOTTE, NC 28227

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id:

Inv. No: 213448

Collected by: Customer Sampled

Laboratory Sample #	Client Sample #
L254706-1	MW-1
L254706-2	MW-2
L254706-3	MW-3
L254706-4	DW-1
L254706-5	MW-5

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below MDL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL and PQL;
Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ FL014; PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.
EPA 18 is a non-NELAC certifiable parameter. Estimated uncertainty is available upon request.

Serial Number: 672419

Respectfully submitted,

Tiffany Mackie

Tiffany Mackie
Project Manager

ANALYTICAL RESULTS
Printed: 05/30/08 05:24pm

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: [redacted]

Inv. No: 213448

Sample Number: L254706-1
Sample Description: MW-1
Samp. Date/Time/Temp: 05/27/08 03:19pm NA C
Receive Date: 05/28/08
Sampled by: Customer Sampled
Received Temp: 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
Ion Chromatography								
NITRATE (AS N)	300.0	18.8	mg/l	10	0.074	0.50	N/A	05/28 12:40 LP
NITRITE (AS N)	300.0	0.276 I	mg/l	10	0.053	0.50	N/A	05/28 12:40 LP
Total Kjeldahl Nitrogen								
KJELDAHL NITROGEN	351.2	26.0	mg/l	5	1.1	2.0	N/A	05/29 12:50 SA
Ammonia								
AMMONIA	350.1	17.4	mg/l	10	0.11	0.50	N/A	05/28 15:10 SA

Serial Number: 672419

ANALYTICAL RESULTS
Printed: 05/30/08 05:24pm

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: [redacted]

Inv. No: 213448

Sample Number: L254706-2
Sample Description: MW-2
Samp. Date/Time/Temp: 05/27/08 03:23pm NA C
Receive Date: 05/28/08
Sampled by: Customer Sampled
Received Temp: 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
Ion Chromatography								
NITRATE (AS N)	300.0	18.9	mg/l	10	0.074	0.50	N/A	05/28 13:30 LP
NITRITE (AS N)	300.0	U	mg/l	10	0.053	0.50	N/A	05/28 13:30 LP
Total Kjeldahl Nitrogen								
KJELDAHL NITROGEN	351.2	8.26	mg/l	1	0.22	0.40	N/A	05/30 12:50 SA
Ammonia								
AMMONIA	350.1	6.31	mg/l	5	0.054	0.25	N/A	05/28 15:10 SA

Serial Number: 672419

ANALYTICAL RESULTS
Printed: 05/30/08 05:24pm

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id:

Inv. No: 213448

Sample Number: L254706-3
Sample Description: MW-3
Samp. Date/Time/Temp: 05/27/08 03:31pm NA C
Receive Date: 05/28/08
Sampled by: Customer Sampled
Received Temp: 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
Ion Chromatography								
NITRATE (AS N)	300.0	9.73	mg/l	10	0.074	0.50	N/A	05/28 13:46 LP
NITRITE (AS N)	300.0	U	mg/l	10	0.053	0.50	N/A	05/28 13:46 LP
Total Kjeldahl Nitrogen								
KJELDAHL NITROGEN	351.2	U	mg/l	1	0.22	0.40	N/A	05/29 12:50 SA
Ammonia								
AMMONIA	350.1	0.439	mg/l	1	0.011	0.050	N/A	05/28 15:10 SA

Serial Number: 672419

ANALYTICAL RESULTS
Printed: 05/30/08 05:24pm

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id:

Inv. No: 213448

Sample Number L254706-4
Sample Description DW-1
Samp. Date/Time/Temp 05/27/08 03:40pm NA C
Receive Date 05/28/08
Sampled by Customer Sampled
Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
Ion Chromatography								
NITRATE (AS N)	300.0	0.962	mg/l	10	0.074	0.50	N/A	05/28 14:02 LP
NITRITE (AS N)	300.0	U	mg/l	10	0.053	0.50	N/A	05/28 14:02 LP
Total Kjeldahl Nitrogen								
KJELDAHL NITROGEN	351.2	U	mg/l	1	0.22	0.40	N/A	05/29 12:50 SA
Ammonia								
AMMONIA	350.1	0.0531	mg/l	1	0.011	0.050	N/A	05/28 15:10 SA

Serial Number: 672419

ANALYTICAL RESULTS
Printed: 05/30/08 05:24pm

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: [redacted]

Inv. No: 213448

Sample Number	L254706-5
Sample Description	MW-5
Samp. Date/Time/Temp	05/27/08 03:46pm NA C
Receive Date	05/28/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
Ion Chromatography								
NITRATE (AS N)	300.0	1.27	mg/l	10	0.074	0.50	N/A	05/28 14:19 LP
NITRITE (AS N)	300.0	U	mg/l	10	0.053	0.50	N/A	05/28 14:19 LP
Total Kjeldahl Nitrogen								
KJELDAHL NITROGEN	351.2	U	mg/l	1	0.22	0.40	N/A	05/29 12:50 SA
Ammonia								
AMMONIA	350.1	0.0842	mg/l	1	0.011	0.050	N/A	05/28 15:10 SA

Serial Number: 672419

Genapure Analytical Services, Inc.

3231 NW 7th Ave., Boca Raton, FL 33431
www.genapure.com

CHAIN OF CUSTODY RECORD

Log# 25496 T#S 5 Quote: _____ Page 1 of 1

Company Name: GRE PO#
Address: 2301-P CROWN POINT EXEC DR
City: CHARLOTTE State: NC Zip: 28227
Attn: NICKY LONG Fax# 704-845-4012
email:
Project Name: PLANTSICS WAREHOUSE Proj#
Sampler Signature: Phone#

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK (Y/N)	Total # of containers
i.e.	MW-1	6/16/04	11:35	GW	X		1
1	MW-1	6/27/08	1519	GW			
2	MW-2		1523	GW			
3	MW-3		1531	GW			
4	DW-1		1540	GW			
5	MW-5		1546	GW			
6							
7							
8							
9							
10							

LAB ANALYSIS

Parameters	NITRATE/NITRITE 353.2	AMMONIA 350.2	TKN 351.2						EXAMPLE Diss.8RCRA 6010
Sample									
TRC									
pH	2	2	2						
Pres Codes	A,E	C,E	C,E						
# of Containers Size/Type									1 16ozP
1	X	X	X						
2	X	X	X						
3	X	X	X						
4	X	X	X						
5	X	X	X						
6									
7									
8									
9									
10									

Container Type Codes

AV	Amber Vial	EB	Encore Sampler
CV	Clear Vial	PRV	Prepreserved vial
P	Plastic	PLC	Plastic container
AL	Amber Liter	PLJ	Plastic Jar
CL	Clear Liter	Ziploc	Ziploc bag
AP	Amber Plastic	TEDLAR B	Tedlar bag
AG	Amber Glass	WHIRL P	Whirl pak
SJ	Soil Jar	G	Gallon Jug
Other			

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, 40ml other____
Example: 4oz P = 4oz Plastic, 8oz SJ = 8oz Soil Jar

Matrix Codes*

SD	Solid Waste	WW	Waste Water
SO	Soil	AFW	Analyte Free Water
SE	Sediment	DW	Drinking Water
OL	Oil	SU	Surface Water
PE	Paint	AQ	Aqueous
WI	Wipe	SW	Source Water
			Air
			Other____
			(Please Specify)

Pres/Codes

A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. Zn Acetate
D. NaOH	H. $NaHSO_4$	O. Other

REMARKS

T.A.T. REQUEST Standard	10 BUS	Short Hold	QA/QC Report Level	COC OK	Initials	Required State Certification
N	5/30 Date Required	Y N	Note: 1 2 3 Other	Y N	KM	

Coolers #'s

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
			6/27/08	1730		GRE	6/28/08	9:41

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?	✓		
Received on Wet Ice? Temp. ___°C			
Proper Preservatives Indicated?			
Received within holding time?			
Custody seals intact?			
Volatile rec'd without headspace?			
Proper Containers Used?			

ORIGINAL

173858

Genapure
Analytical Services, Inc.

ANALYTICAL RESULTS
Printed: 06/10/08 01:37pm

LAURA MINOR
GEOLOGICAL RESOURCES
2301-F CROWN POINT EXECUTIVE DRIVE
CHARLOTTE, NC 28227

Regarding:

LAURA MINOR
GEOLOGICAL RESOURCES
2301-F CROWN POINT EXECUTIVE DRIVE
CHARLOTTE, NC 28227

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: [redacted]

Inv. No: 214114

Collected by: Customer Sampled

Laboratory Sample #:	Client Sample #:
L255430-1	MW-1

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below MDL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL and PQL;
Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ FL014; PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.
EPA 18 is a non-NELAC certifiable parameter. Estimated uncertainty is available upon request.

Serial Number: 673138

Respectfully submitted,

Tiffany Mackie

Tiffany Mackie
Project Manager

ANALYTICAL RESULTS
Printed: 06/10/08 01:37pm

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id: [redacted]

Inv. No: 214114

Sample Number	L255430-1
Sample Description	MW-1
Samp. Date/Time/Temp	06/05/08 12:45pm NA C
Receive Date	06/06/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
Ion Chromatography								
NITRATE (AS N)	300.0	4.64	mg/l	50	0.37	2.5	N/A	06/06 14:55 LP

Serial Number: 673138

Genapure

Analytical Services, Inc.

3231 NW 7th Ave., Boca Raton, FL 33431
www.genapure.com

CHAIN OF CUSTODY RECORD

Log# 25543 D T#S___ Quote:_____ Page 1 of 1

Container Type Codes

AV	Amber Vial	ES	Encore Sampler
CV	Clear Vial	PPV	Prepreserved vial
P	Plastic	PLC	Plastic container
AL	Amber Liter	PLJ	Plastic Jar
CL	Clear Liter	Ziploc	Ziploc bag
AP	Amber Plastic	TEDLAR B	Tedlar bag
AG	Amber Glass	WHIRL P.	Whirl pak
SJ	Soil Jar	G	Gallon Jug
O	Other:		

Company Name: Geotechnical Resources PO#

Address: 3301-F Mount Point Executive Dr

City: Charlotte State: NC Zip: 28227

Attn: Nikki Long Fax#

email:

Project Name: Planters Warehouse Proj#

Sampler Signature: Jim Pontello Phone#

LAB ANALYSIS

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK? Y/N	Total # of containers	Parameters
	Sample							
	TRC							
	pH							
	Pres Codes							
i.e.	MW-1	6/16/04	11:35	GW	X		1	
	# of Containers Size/Type							EXAMPLE Diss.8RCRA 6010
1	MW-1	6/5/08	1245	GW				X
2								
3								
4								
5								
6								
7								
8								
9								
10								

Nitrates

1 16ozP

Matrix Codes*

SD	Solid Waste	WW	Waste Water
SO	Soil	AFW	Analyte Free Water
SE	Sediment	DW	Drinking Water
OL	Oil	SU	Surface Water
PE	Petroleum	AQ	Aqueous
NA	Nonaqueous	SW	Source Water
ML	Misc. Liquid	A	Air
GW	Ground Water	O	Other_____
EFF	Effluent		(Please Specify)
INF	Influent		

Pres/Codes

A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. Zn Acetate
D. NaOH	H. $NaHSO_4$	O: Other

REMARKS

ORIGINAL

TAT Required		Short Hold	QA/QC Report Level	COC OK	Initials	Required State Certification
Normal	RUSH					
	5-7 Days Date Required	Y N	None 1 2 3 Other	Y N		

Coolers #'s

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	Jim Pontello	GRT	6/5/08	2000		GA	6/6	10:30

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?	✓		
Received on Wet Ice? Temp 4°C	✓		
Proper Preservatives Indicated?	✓		
Received within holding time?	✓		
Custody seals intact?			✓
Volatile rec'd without headspace?			✓
Proper Containers Used?	✓		

173868

Genapure
Analytical Services, Inc.

ANALYTICAL RESULTS

Printed: 06/19/08 07:13pm

LAURA MINOR
GEOLOGICAL RESOURCES
2301-F CROWN POINT EXECUTIVE DRIVE
CHARLOTTE, NC 28227

Regarding:

LAURA MINOR
GEOLOGICAL RESOURCES
2301-F CROWN POINT EXECUTIVE DRIVE
CHARLOTTE, NC 28227

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id:

Inv. No: 214749

Collected by: Customer Sampled

Laboratory Sample #	Client Sample #
L256423-1	MW-2

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below MDL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL and PQL;
Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ FL014; PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.
EPA 18 is a non-NELAC certifiable parameter. Estimated uncertainty is available upon request.

Genapure Analytical Services, Inc. 3231 NW 7th Avenue Boca Raton, FL 33431 (888)862-5227

Serial Number: 673873

Respectfully submitted,

Tiffany Mackie

Tiffany Mackie
Project Manager

ANALYTICAL RESULTS
Printed: 06/19/08 07:13pm

Project No: 003967 PLANTERS WARE, PLANTERS WAREHOUSE
Job Name: PLANTERS WAREHOUSE
Job Id:

Inv. No: 214749

Sample Number	L256423-1
Sample Description	MW-2
Samp. Date/Time/Temp	06/16/08 03:55pm NA C
Receive Date	06/18/08
Sampled by	Customer Sampled
Received Temp	4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	MDL	PQL	Prep Date,Time	Test Date, Time,Analyst
Ion Chromatography								
NITRATE (AS N)	300.0	4.31	mg/l	10	0.074	0.50	N/A	06/18 11:40 LP

Serial Number: 673873

USBIOSYSTEMS

3231NW 7th Ave, Boca Raton, FL 33431
www.usbiosystems.com

CHAIN OF CUSTODY RECORD

Log# 25604/3 T#S 1 Quote: _____ Page 1 of 1

Company Name: GRI PO#
Address: 2301 F Crown Pt Exec Dr.
City: Charlotte State: NC Zip:
Attn: N. Kline Fax#
email:
Project Name: Planters Warehouse Proj #
Sampler Signature Phone#

Container Type Codes

AV	Amber Vial	ES	Encore Sampler
CV	Clear Vial	PPV	Prepreserved vial
P	Plastic	PL C	Plastic container
AL	Amber Liter	PL J	Plastic Jar
CL	Clear Liter	Ziploc	Ziploc bag
AP	Amber Plastic	TEDLAR B	Tedlar bag
AG	Amber Glass	WHIRL P	Whirl pak
SJ	Soil Jar	G	Gallon Jug

Other_____
Size(s): 2oz, 4oz 8oz, 16oz 32oz or 1L, 40ml other____
Example: 4ozP = 4oz Plastic, 8ozSJ= 8oz Soil Jar

Matrix Codes*

SD	Solid Waste	WW	Waste Water
SO	Soil	AFW	Analyte Free Water
SE	Sediment	DW	Drinking Water
OL	Oil	SU	Surface Water
PE	Petroleum	AQ	Aqueous
NA	Nonaqueous	SW	Source Water
ML	Misc. Liquid	A	Air
GW	Ground Water	O	Other _____ (Please Specify)
EFF	Effluent		
INF	Influent		

Pres/Codes

A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. Zn Acetate
D. NaOH	H. $NaHSO_4$	O. Other

LAB ANALYSIS

#	Sample Label (Client ID)	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	Parameters	EXAMPLE Diss.6RCRA 6010
								Sample	
								TRC	
								pH	
								Pres Codes	
								Waste 300	
e.	MW-1	6/16/04	11:35	GW	X		1	# of Containers / Size/Type	1 / 16ozP
1	MW-2	6/16/04	13:55	GW			1	X	X
2									
3									
4									
5									
6									
7									
8									
9									
0									

REMARKS

TURN AROUND TIME		Short Hold	QA/QC Report Level	COC OK	Initials	Required State Certification	Coolers #'s
Standard	RUSH						
Y/N	Date Required	Y N	None 1 2 3 Other	Y N			

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
	[signature]		6/16/04		[signature]	GRI	6/18	10:00

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?			
Received on Wet Ice? Temp 4°			
Proper Preservatives Indicated?			
Received within holding time?			
Custody seals Intact?			
Volatile rec'd without headspace?			
Proper Containers Used?			

17 2799

APPENDIX B
April 2003 DWQ Letter

Michael F. Easley, Governor
William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources
Alan W. Klimek, P.E. Director
Division of Water Quality

April 1, 2003

Mr. G. Trent Burroughs
ABCD Enterprises, LLC
200 Fowler Street
Tabor City, North Carolina 28463

Subject: Proposed Remedial Action
Watson Property
Tabor City
Columbus County

Dera Mr. Burroughs:

On January 7, 2003, I met with you and your consultant, Paul Clark, to discuss a proposed strategy to remediate soil and groundwater impacted by liquid fertilizer which had been spilled from a storage tank on a tobacco warehouse property near Tabor City, North Carolina. In that meeting and subsequently in an environmental report submitted by Clark Environmental Services, P.C., it was proposed that the contaminated media would be excavated or pumped from the area of spillage and distributed on adjacent farmland at agronomic rates. I have consulted with my counterpart in the Water Quality Section and we have come to the conclusion that the Division of Water Quality has no objection to what has been proposed.

Please proceed with the proposed activity. The Division would appreciate a short report documenting the remedial activities. If you have further questions please feel free to call me at (910)-395-3900.

Yours very truly,

Charles F. Stehman, Ph.D., P.G.
Environmental Regional Supervisor

cc: Paul Clark, Clark Environmental Services
Wiro File
s:\gws\cfs\burroughs.apr03.ltr

APPENDIX C
Water Manifest

Nikki -GRI

Wednesday June 11, 2008

Geological Resources Inc.
2301F Crown Point Executive Dr.
Charlotte, NC 28227

Re: Planter's Warehouse/ Vac truck services

HERR provided vacuum truck services at Planter's Warehouse in Tabor City, NC on the following dates:

Date	*Water/ product removed(gallons)*
May 16, 2008	800
May 27, 2008	1,000
June 4, 2008	200
June 5, 2008	500
June 13, 2008	75

If questions, give me a call.

Sincerely,

Marc Cox
HERR Project Manager