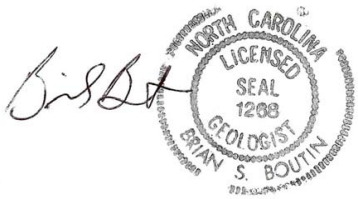
PHASE 3 HYDROGEOLOGIC AND GROUNDWATER QUALITY ASSESSMENT REPORT
Central Carolina Tire Monofill Landfill Phases I/II
Harnett County, North Carolina
Permit # 43-04

May 2013

Prepared by:
Nautilus Geologic Consulting, PLLC (License # C-489)



Brian S. Boutin, PG
NC PG License # 1268

Prepared for:
Central Carolina Holdings, LLC
1616 McKoy Town Road
Cameron, NC 28326

11112 BRANDING IRON PLACE, WENDELL, NC 27591
919-366-3663 Office ● 919-995-0363 Cell ● bboutinpg@bellsouth.net

Contents

1.0 INTRODUCTION 1

2.0 SITE DESCRIPTION AND BACKGROUND 2

3.0 SCOPE OF INVESTIGATION 3

3.1 Installation of Groundwater Monitoring Wells 3

3.2 Soil Sampling and Laboratory Analysis 3

3.3 Groundwater Gauging 4

3.4 Groundwater Sampling and Laboratory Analysis 4

3.5 Aquifer Characterization 4

3.6 Potential Receptor Survey ..... **Error! Bookmark not defined.**

4.0 REGIONAL GEOLOGY AND HYDROGEOLOGY 6

5.0 RESULTS OF HYDROGEOLOGIC INVESTIGATION 8

5.1 Site Reconnaissance 8

5.1.1 Topographic Setting and Drainage 8

5.1.2 Groundwater Discharge Features 8

5.2 Monitoring Well Boring and Geotechnical Laboratory Data 8

5.2.1 Monitoring Well Boring Data 8

5.2.2 Geotechnical Laboratory Data 9

5.3 Site Geology and Hydrogeology 9

5.3.1 Site Geology 9

5.3.2 Site Hydrogeology 10

6.0 RESULTS OF GROUNDWATER QUALITY ASSESSMENT 12

6.1 Results of Media Sampling and Analysis 12

6.1.1 Soil Samples ..... **Error! Bookmark not defined.**

6.2.1 Groundwater Samples ..... **Error! Bookmark not defined.**

6.2 Evaluation of Natural Attenuation Potential ..... **Error! Bookmark not defined.**

6.2.1 Evidence from the Scientific Literature ..... **Error! Bookmark not defined.**

6.2.2 Evidence from Empirical Site Data ..... **Error! Bookmark not defined.**

6.3 Results of Potential Receptor Survey ..... **Error! Bookmark not defined.**

7.0 CONCLUSIONS AND RECOMMENDATIONS 15

Figures

1 Site Location Map
2 Site Map
3 Excerpt from 1985 Geologic Map of North Carolina (In Text)
4 Locations of Geologic Cross Sections
5 Geologic Cross Section A-A'
6 Geologic Cross Section B-B'
7 Geologic Cross Section C-C'
8 Geologic Cross Section D-D'
9 Groundwater Elevation Contour Map: Shallow Surficial Aquifer April 2013
10 Groundwater Elevation Contour Map: Deep Aquifer April 2013
11 Tetrachloroethene Isoconcentration Contour Map: Shallow Surficial Aquifer April 2013
12 Total Chlorinated Ethenes Isoconcentration Contour Map: Shallow Surficial Aquifer April 2013

Tables

1 Monitoring Well Construction Data
2 Geotechnical Data
3 Hydrogeologic Properties of Lithologic Units
4 Horizontal Groundwater Gradient and Horizontal Flow: Shallow Surficial Aquifer
5 Groundwater Field Data
6 Summarized Laboratory Analytical Results for Groundwater Samples

Appendices

A Boring Logs and Well Construction Schematics
B Slug Test Data
C Laboratory Reports and Chain-of-Custody Forms
D Groundwater Sample Collection Forms

1.0 INTRODUCTION

This report presents the results of Phase 3 of a hydrogeologic and groundwater quality assessment conducted at the Central Carolina Tire Phase I/II Monofill landfill facility in Harnett County, North Carolina in March and April 2013 (**Figure 1**). Tetrachloroethene (PCE) has been detected in groundwater samples collected from monitoring well MW-8 at the Phase I/II landfill during semi-annual sampling conducted over the last several years (**Figure 2**). The concentrations of PCE are now in excess of the North Carolina 15A NCAC 2L .0202 groundwater quality standard.

The results of a previous assessment activities conducted at the site indicate that an elongated plume of dissolved PCE originates within the shallow surficial aquifer in the vicinity of the facility maintenance shelter and extends to the south under the Phase I/II monofill landfill. These results further indicate that the source of PCE in groundwater is likely located at the site maintenance shelter. The maintenance shelter is used to maintain and repair equipment for the landfill, and the interior of the shelter is unpaved (it is noted that equipment maintenance is now mainly conducted inside a garage at another area of the facility). Equipment maintenance and repair includes the use of parts cleaning solutions that contain PCE. Low volume incidental spills of parts cleaning solution onto the ground surface over time are likely the source of PCE in groundwater at the site. The dissolved PCE plume is confined to the shallow surficial aquifer and is not present in the deeper zone of groundwater occurrence monitored by the deep monitoring wells installed as part of the assessment. The results of the previous assessments are presented in the January 2011 *Preliminary Site Assessment Report* and the June 2012 *Phase 2 Hydrogeologic and Groundwater Quality Assessment Report* previously submitted to the NCDENR Division of Waste Management.

Based on the results of the previous assessments, a Phase 3 hydrogeologic and groundwater quality assessment was conducted to further delineate the extent and magnitude of PCE and associated environmental breakdown products in groundwater. The assessment included sampling and analysis of groundwater samples collected from four additional groundwater monitoring wells, and aquifer testing to further assess the hydraulic properties of the surficial aquifer.

2.0 SITE DESCRIPTION AND BACKGROUND

The Central Carolina Tire facility is located approximately 10 miles southeast of Cameron, North Carolina on McKoy Town Road (NC Highway 1105), approximately 8,500 feet south of the intersection with NC Highway 24/27 (**Figure 1**). The topography at the area of investigation varies in elevation from approximately 340 feet msl in the southern area to approximately 355 msl feet in the western and northern areas (**Figure 2**). On-site surface drainage is primarily to the east-southeast and is conveyed by an east-southeast trending drainage feature to the north of the access road on the northern perimeter of the Phase I/II landfill to an unnamed creek surrounded by wetlands to the west and south of the landfill. The unnamed creek drains to an unnamed stream which borders the site approximately ¾-mile to the east and flows south. Site drainage ultimately discharges to the Cape Fear River.

Phase I/II of the Central Carolina Tire Monofill landfill is operated in accordance with Solid Waste Permit #43-04. The Phase I Area of the Central Carolina Tire Monofill landfill began operation in 1992 and the Phase II Area began operation in 1997. The combined footprint of the Phase I/II Monofill is approximately 37-acres. The Phase I/II Area reached capacity in the fall of 2008, and closure activities have been completed and approved.

3.0 SCOPE OF INVESTIGATION

3.1 Installation of Groundwater Monitoring Wells

Four additional Type II groundwater monitoring wells (designated GW-9 through GW-12) were installed to further assess the magnitude and extent of dissolved PCE in groundwater in the vicinity of the maintenance shelter. The locations and designations of the monitoring wells are shown in **Figure 2**. Monitoring wells GW-1S/1D (installed during the Phase 2 assessment) serve as up-gradient wells to monitor the quality of groundwater in the shallow and deep surficial aquifer entering the area of the maintenance shelter. The remaining monitoring wells are intended to delineate the horizontal and vertical extent of dissolved PCE and associated environmental breakdown products in groundwater in the vicinity of the maintenance shelter and monitoring well MW-8. All drilling locations were approved by the client prior to drilling.

The additional Type II monitoring wells were installed using a hollow-stem auger drilling rig to depths ranging from 15 to 25 feet below grade and are constructed of 2-inch ID Schedule 40 PVC well casing and 10 feet of machine-slotted well screen with 0.010" slots. The wells are finished with solid PVC risers extending approximately 2 to 3 feet above grade within steel, stickup protective casings with hinged, locking lids. All wells were installed and constructed in accordance with 15A NCAC 2C Well Construction Standards. Boring logs and well construction schematics are presented in **Appendix A**.

The augers, drill pipe and drill rig were decontaminated using a pressure washer prior to drilling at each location. Split-spoon samplers were decontaminated prior to and following each use with a non-phosphate soap and water wash followed by multiple rinses with distilled water. An area was set aside in the immediate vicinity of the maintenance shed for decontamination of the drilling equipment. Each well was developed after installation using a down hole pump until the discharge water appeared to be free of suspended sediments or for a maximum of one hour.

Each well was surveyed relative to the existing site datum for horizontal position and elevation by a North Carolina licensed surveyor. At each well, elevations were measured of the ground surface and top of the solid PVC riser. A permanent mark was made on the top of the PVC riser at the point where the elevation measurement was made for future reference when collecting depth to water data.

3.2 Soil Sampling

Soil samples were collected at each drilling location for lithologic descriptions using the standard penetration test (SPT) method with a 140-lb sliding hammer and steel split-spoon samplers. Samples were collected in 2-feet intervals every five feet to the completion depth of the boring.

The soil retained in each split-spoon sampler was logged by a geologist with respect to texture, composition, color and moisture content.

3.3 Groundwater Gauging

Prior to well purging and groundwater sampling, groundwater levels were measured in the assessment monitoring wells (designated with a "GW-" prefix), as well as existing detection monitoring well MW-8, using an electronic water level meter which was thoroughly decontaminated before use at each well. The results of the groundwater gauging were used to develop a conceptual model of groundwater flow within the surficial aquifer in the study area, including groundwater recharge and discharge zones and zones of preferential groundwater flow.

3.4 Groundwater Sampling and Laboratory Analysis

Groundwater samples were collected for laboratory analysis from the shallow assessment monitoring wells and MW-8 using a low flow/low stress sampling technique, and from the deep assessment monitoring wells using disposable bailers (the latter due to low yield). Prior to sampling, the wells were purged of stagnant water and the pH, temperature, specific conductance, turbidity, dissolved oxygen and oxidation-reduction potential (ORP) of the purge water was measured using a flow-through cell and a multi-parameter meter for the shallow wells and a dedicated sampling cup for the deep wells. With respect to the groundwater chemistry, an adequate purge was considered to have been achieved when the pH, specific conductance, and temperature of the groundwater have stabilized within 10% for three consecutive readings and the turbidity had either stabilized or is below 10 Nephelometric Turbidity Units (NTUs).

Following purging, groundwater samples were collected using the low-flow assembly directly into laboratory-prepared containers for the shallow wells and disposable bailers for the deep wells. All groundwater samples were analyzed at a DENR-approved laboratory for VOCs by SW 846 Method 8260B. This analytical method allows for the detection of PCE and its primary environmental breakdown products.

3.5 Aquifer Characterization

Following groundwater sampling and return of groundwater levels to static conditions, rising-head permeability ("slug") tests were conducted in the new monitoring wells. Static water level measurements were made at each well prior to beginning the slug tests. The slug tests were conducted by placing a combined data recorder-pressure transducer (In-Situ Mini Troll™) at the bottom of the well and rapidly removing a volume (slug) of water from the well using a submersible pump or centrifugal pump (whichever was appropriate given the depth to groundwater and yield) to lower the level of the water table below the level measured at static conditions. The data logger was used to measure the rate of influx of groundwater until water

level equilibrium is reestablished. The measured rate of recovery of the water level is a function of the hydraulic conductivity of the aquifer material in the vicinity of the well. The slug test data were analyzed using the HydroSOLVE, Inc. AQTESOLV for Windows™ program according to the Bouwer-Rice procedure.

4.0 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Central Carolina Tire landfill facility is located in the Atlantic Coastal Plain physiographic province in North Carolina (**Figure 3**). The area of the site is underlain by sediments of the Late Creataceous age Middendorf Formation, which are predominantly fluvial-deltaic intercalated, lensing, thick-bedded micaceous quartz sands and clays with local concentrations of clay clast conglomerates.[1] The sediments of the Middendorf Formation are typical of those deposited in a deltaic environment and commonly include cross-bedding, lenses, pinch-outs and facies changes. The Middendorf Formation deposits unconformably overlie sands and clays of the Late Cretaceous age Cape Fear Formation, which outcrop in primary stream valleys in Harnett County. The Cape Fear Formation sediments unconformably overlie crystalline basement rocks, the surface of which occurs at a depth of approximately 200 to 250 feet below grade near the site. Thin, discontinuous Neogene and Quaternary age sediments overlie the Cretaceous age deposits at some locations. Subsurface materials encountered during the preliminary environmental assessment and drilling conducted as part of the Phase 2 and Phase 3 assessments are consistent with descriptions of Middendorf Formation sediments mapped in the area of the site.

Groundwater within the surficial aquifer at the site occurs under unconfined conditions within sandier zones of appreciable thickness of the Middendorf Formation sediments. Laterally extensive and thick clay beds within the Middendorf Formation form confining to semi-confining layers separating the surficial aquifer from deeper occurrences of groundwater. The surficial aquifer, which extends over a large part of the Coastal Plain, discharges water laterally to streams and rivers and provides the bulk of recharge to deeper aquifers. Recharge to the surficial aquifer occurs via rainfall. As discussed in Section *5.3.2*, shallow groundwater flow at the site is generally to the southeast toward unnamed streams and associated wetlands that surround the eastern and southern boundaries of the landfill.

[1] Sohl, Norman F. and James P. Owens, 1991; Cretaceous stratigraphy of the Carolina coastal plain, in *The Geology of the Carolinas*, J. W. Horton, Jr. and V. A. Zullo, eds., The University of Tennessee Press, pp. 191-220.

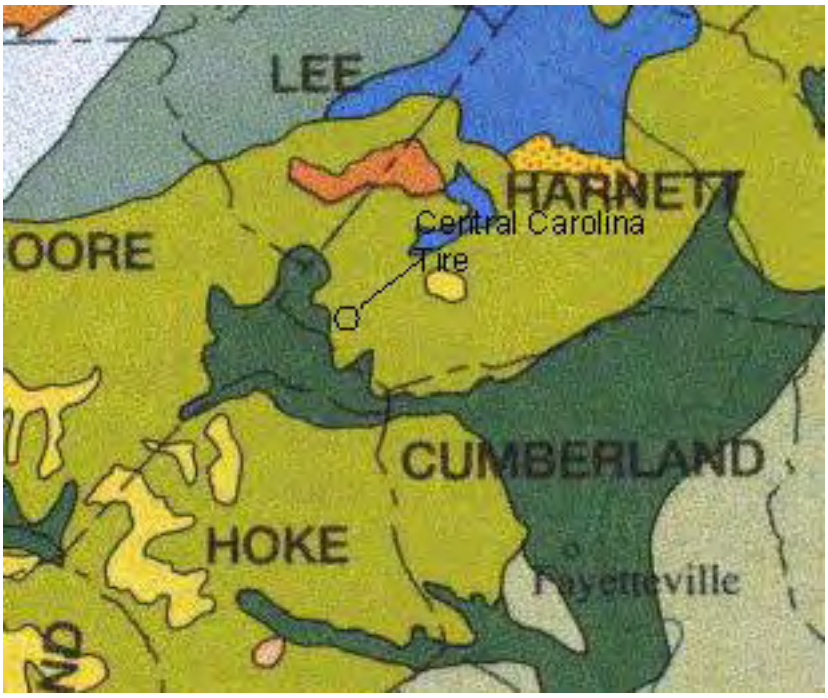


Figure 3. Excerpt from Generalized Geologic Map of North Carolina (1985)

5.0 RESULTS OF HYDROGEOLOGIC INVESTIGATION

5.1 Site Reconnaissance

5.1.1 Topographic Setting and Drainage

Land surface elevations in the vicinity of the assessment area range from approximately 340 feet msl in the southern area to approximately 355 feet msl in the western and northern areas (**Figure 2**). Surface drainage in the area follows the land surface contours. The main topographic features controlling the bulk of surface drainage in the assessment area are the topographically high ground in the immediate vicinity of the maintenance shelter and to the west along the main access road, and an east-southeastward sloping drainage feature that separates the assessment area to the north from the Phase I/II landfill to the south. The majority of surface drainage in the assessment area flows southeastward from the topographic upland area near the maintenance shelter to the southeast toward the east-southeast trending drainage feature. Surface drainage in the drainage feature is conveyed to an unnamed creek surrounded by wetlands to the west and south of the landfill. The unnamed creek drains to an unnamed stream which borders the site approximately ¾-mile to the east and flows south. Site drainage ultimately discharges to the Cape Fear River.

5.1.2 Groundwater Discharge Features

The primary groundwater discharge features in the Coastal Plain are dendritic streams that dissect the terrain and the associated wetlands within the floodplains of the streams. Other groundwater discharge occurs through evapotranspiration in areas where the water table is located in close proximity to the land surface and in topographically low features such as ponds, lakes, and wetlands. Additionally, groundwater may discharge through springs or seeps that occur in upland areas resulting from the presence of low permeability strata that divert groundwater flow laterally to areas where the strata intersect the land surface.

Ponds, lakes, springs, and seeps were not observed in the broader area of assessment. An unnamed creek surrounded by wetlands is present to the east and south of the Phase I/II landfill. The unnamed creek drains to an unnamed stream with associated wetlands which borders the landfill property approximately ¾-mile to the east and flows south. Groundwater discharge likely provides base flow to the unnamed creek and stream. In addition, groundwater discharge via evapotranspiration likely occurs in the immediate vicinity of the wetlands.

5.2 Monitoring Well Boring and Geotechnical Laboratory Data

5.2.1 Monitoring Well Boring Data

The Phase 3 hydrogeologic and groundwater quality assessment drilling program was conducted in accordance with the November 2012 work plan that was approved by the NCDENR Division

of Waste Management. Details of the drilling program, including monitoring well installations and soil sampling are presented in *Sections 3.1 and 3.2*.

Summaries of the test boring data, including completion depth, monitoring well construction specifications, ground surface elevations, top of casing elevations, and top and bottom of well screen elevations are presented in **Table 1**. Drilling logs for the borings that include relative density data (SPT), sample recovery, lithologic descriptions of soils encountered during drilling, USCS classifications, groundwater depths and well construction information are included in **Appendix A**. Standard penetration tests were performed at designated intervals in the well borings in accordance with ASTM D 1586-84 to provide an index for estimating soil strength and relative density.

5.2.2 Geotechnical Laboratory Data

Grain size analyses of soil samples collected from the saturated zone of the well borings for monitoring wells GW-1S/D through GW-7S/D and GW-8 were conducted as part of the Phase 2 assessment. The results of the grain size analyses were used to estimate specific yield of the unconsolidated sediments in the surficial aquifer. The results of the grain size analyses conducted as part of the Phase 2 assessment are summarized in **Table 2**.

5.3 Site Geology and Hydrogeology

The evaluation of subsurface geology and hydrogeology presented below is based on published information regarding the regional geological and hydrogeological framework (discussed in **Section 4.0**) in conjunction with the descriptions of subsurface materials recorded in the drilling logs for the site monitoring wells (**Appendix A**) and the results of rising-head permeability ("slug") tests.

5.3.1 Site Geology

Natural subsurface materials encountered during drilling of the site monitoring wells are consistent with descriptions of the regional geology presented in the published literature (see **Section 4.0**) and descriptions of soils encountered during previous drilling conducted at the site. The locations of the site monitoring wells are shown in **Figure 2**. A geologic cross section location map is presented as **Figure 4**, and geologic cross sections through the site are presented as **Figures 5** through **8**. In general, based on the drilling logs, the shallow subsurface lithology is composed of an upper complex of interbedded layers of sandy clay and clayey sand (Unit 1), overlying micaceous variably sandy clay and very stiff to hard clay (Unit 2), which in turn overlies medium dense to very dense sandy clay (Unit 3).

The upper sandy clay and clayey sand unit comprises the surficial aquifer at the site, contains frequent lenses and pinch-outs, and includes thin lenses of silty clay and relatively clean sand, typical of a deltaic environment. The underlying sandy clay and clay unit frequently contains abundant mica, and varies in color from tan-orange-gray-brown (sandy clay) to gray and mottled gray-red-purple (clay). The sandy clay and clay unit appears to form a semi-confining to confining layer separating the surficial unconfined aquifer from deeper occurrences of groundwater and appears to be continuous under the entire area of assessment. Underlying the sandy clay and clay unit is generally dense sandy clay that frequently contains abundant weathered white feldspar and other weathered mineral grains. This unit comprises a deeper groundwater-bearing unit at the site, although groundwater yield from the unit is very low. The lower unit was not fully penetrated during drilling so the thickness of the unit is not known based on available site data.

5.3.2 Site Hydrogeology

Measured depths to groundwater in the Type II monitoring wells at the site on April 2, 2013 ranged from 2.77 feet (MW-8) to 15.20 feet (GW-4S) below grade. The depths to groundwater measured in the Type III wells ranged from 12.39 feet (GW-5D) to 17.67 feet (GW-6D) below grade. Depths to groundwater measured in the site monitoring wells are included on the Groundwater Sample Collection Forms presented in **Appendix D** and groundwater elevation data are presented in **Table 5**.

Groundwater within the surficial unconfined aquifer at the site occurs under water-table (unconfined) conditions within the interstitial pore spaces of the sediments in the upper sandy clay and clayey sand unit (Unit 1). A water-table elevation contour map based on the April 2013 groundwater gauging data for the shallow monitoring wells is presented as **Figure 9**. The geometric configuration of the water-table elevation contours presented in **Figure 9** indicate that shallow groundwater flow at the site is generally to the southeast, which is consistent with the overall topography in the assessment area. A groundwater mound appears to encompass the area including the maintenance shelter and monitoring wells GW-2S and GW-10, indicating possible groundwater recharge and radial groundwater flow from this area. However, bulk shallow groundwater flow appears to be toward the southeast. The hydraulic gradient of the water table averages approximately 0.036 ft/ft in the assessment area based on the water-table elevations measured at the shallow monitoring wells in April 2013 (see **Table 5**).

Deeper groundwater at the site is present in the sandy clay unit (Unit 3) underlying the sandy clay and clay semi-confining to confining unit (Unit 2). A groundwater elevation contour map based on the April 2013 groundwater gauging data for the deep monitoring wells is presented as **Figure 10**. The geometric configuration of the water-table elevation contours presented in **Figure 10** indicate that groundwater flow in the deep water-bearing unit at the site is generally to

the southeast, consistent with the flow direction in the shallow aquifer. The hydraulic gradient of the potentiometric surface of the deeper water-bearing zone varies from approximately 0.025 ft/ft in the northeast portion of the assessment area to approximately 0.034 ft/ft in the southwest portion of the assessment area based on the groundwater elevations measured at the deep monitoring wells in April 2013 (see **Table 5**). With respect to vertical potentiometric gradients, downward gradients are observed at all shallow and deep well pairs based on the April 2, 2013 groundwater elevation data, with pronounced gradients at all well pairs except GW-1S/D and GW-4S/D

Estimates of the hydraulic conductivity (K) of the shallow aquifer at the locations of the shallow monitoring wells were made based on analyses of the water level versus time data collected during the slug tests conducted in April 2012 and 2013. The data analysis was conducted by the Bouwer and Rice (1976) solution method using AQTESOLV™ for Windows, an aquifer test data analysis program developed by HydroSOLVE, Inc. of Reston, Virginia. The data output and graphs generated by AQTESOLV™ for monitoring wells GW-9 through GW-12 are provided in **Appendix C**. Calculated values of K based on the slug test data for all shallow site assessment monitoring wells (GW-1S through GW-7S and GW-9 through GW-12) and detection monitoring well MW-8 are presented in **Table 3**. The calculated values of K for the shallow surficial aquifer (Unit 1) ranged from 0.88 ft/day (GW-10) to 42.3 ft/day (GW-5S). The geometric mean value of K for the shallow surficial aquifer is 8.54 ft/day.

It is noted that the yield of groundwater to the deep monitoring wells (GW-1D through GW-8D) was observed to be extremely slow. Recovery of water levels to greater than 80% of static conditions required several days to achieve. Consequently, slug tests were not completed in the deep monitoring wells in April 2012 due to the slow rate of recovery and apparent very low permeability of the deep aquifer sediments. Based on the observed rate of recovery, it is estimated that the hydraulic conductivity of the deep aquifer sediments is less than 10^{-6} cm/sec.

The average interstitial groundwater flow velocity (v_w) can be expressed according the relation $v_w = Ki/\eta$, where i is the hydraulic gradient, and η is the effective porosity of the aquifer material. Estimates of the effective porosity (specific yield) of the surficial aquifer sediments were made based on the results of the grain size analyses conducted for the Phase 2 assessment using the method of Johnson (1967).[2] Calculations of the horizontal groundwater flow velocity are presented in **Table 4**. Based on the calculations presented in **Table 4**, the average interstitial groundwater flow velocity in the shallow aquifer is estimated to range from 0.03 ft/day (10.96 ft/yr) to 1.54 ft/day (562.49 ft/yr), with a geometric average of 0.23 ft/day (84 ft/yr).

[2] Johnson, A. I., 1967. Specific Yields for Geologic Materials. USGS Water Supply Paper 1662-D.

6.0 RESULTS OF GROUNDWATER QUALITY ASSESSMENT

6.1 Results of Groundwater Sampling and Analysis

During purging of groundwater from the monitoring wells and prior to sampling, measurements were made in the field of the pH, temperature, specific conductance, turbidity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) concentrations. The results of the field analyses of these parameters are presented in **Table 5**. Copies of Groundwater Sample Collection Forms containing pertinent information recorded in the field during purging and sampling at each groundwater monitoring well are presented in **Appendix D**.

The results of the field-measured water-quality parameters indicate that the values measured in groundwater collected from the site monitoring wells were generally within applicable stabilization criteria (see Groundwater Sample Collection Forms). Shallow groundwater at the site is acidic to slightly acidic based on the pH values measured in the field (3.55 to 6.39), and groundwater within the deeper water-bearing unit is acidic to neutral (4.54 to 7.33). Specific conductance values ranged from 19.2 (GW-6D) to 517 (GW-12) µS/cm in groundwater at the monitoring wells. Turbidity values ranged from 0.81 (GW-12) to 7.22 (MW-6S) NTUs. ORP values ranged from -53.3 (GW-12) to 136.3 mV (GW-7S), with higher values generally observed in the shallow groundwater. DO concentrations ranged from 0.81 (GW-12) to 7.22 (GW-6S) mg/L, with all values except at GW-12 exceeding 2.0 mg/L, indicating relatively oxidizing conditions in groundwater at the site.

Benzene was detected at a concentration of 1.9 µg/L in the groundwater sample collected from monitoring well GW-12, which exceeds the 15A NCAC 2L groundwater quality standard of 1.0 µg/L. Benzene was not detected in any other groundwater samples collected for the Phase 3 assessment. Chloroethane was detected at a concentration of 1.4 µg/L in the groundwater sample collected from monitoring well GW-12, which is well below the NCAC 2L groundwater quality standard of 3,000 µg/L. Chloroethane was not detected in any other groundwater samples collected for the Phase 3 assessment.

Several trihalomethanes (THMs) were detected at low concentrations in 10 of the 16 groundwater samples collected from the site during the Phase 2 assessment in April 2012. The THMs detected include bromodichloromethane, bromoform, chloroform, and dibromochloromethane. THMs are a common byproduct of disinfection of potable water in municipal water treatment plants. Potable water is provided to the Central Carolina facility by the Harnett County Water System. Potable water from the site was used to mix mud for mud rotary drilling used to install the deep monitoring wells, to mix grout to secure the well casings, and to provide hydraulic ballast during hollow stem auger drilling during installation of the shallow monitoring wells to prevent the influx of sand into the auger flight. Moreover, the total

concentrations of THMs detected in the groundwater samples collected from the site fall well within the range to total THM concentrations reported in the 2011 Harnett County Water Quality Report (individual concentrations of THMs were not reported). Consequently, the presence of THMs in the groundwater samples collected from the site during the Phase 2 assessment are attributed to the use of potable water from the site during drilling.

Chloroform was detected at low concentrations (1.0 to 1.7 µg/L) in the groundwater samples collected from deep monitoring wells GW-1D, GW-3D, GW-4D and GW-7D during the Phase 3 assessment. The concentrations of chloroform detected are well below the 15A NCAC 2L groundwater quality standard of 70 µg/L and considerably lower than the concentrations detected during the Phase 2 assessment. These results further support the conclusion that the THMs detected in groundwater are attributable to the use of potable water from the site during drilling. It is anticipated that the concentrations of chloroform detected in groundwater will continue to decline over time.

The groundwater analytical data indicate that PCE was detected in the groundwater sample collected from background shallow monitoring well GW-1S at a concentration of 0.82 µg/L, which marginally exceeds the 15A NCAC 2L groundwater quality standard of 0.7 µg/L. No other VOCs were detected in the groundwater sample from GW-1S. With the exception of the trace concentration of chloroform discussed above, no other VOCs were detected in the groundwater sample collected from background deep monitoring well GW-1D. It is noted that chloroform is the only analyte that was detected in groundwater samples collected from the deep monitoring wells, indicating that the Unit 2 clay layer is acting as an effective confining unit between the shallow aquifer and deeper zones of groundwater occurrence.

The groundwater laboratory analytical results further indicate that PCE, trichloroethene (TCE), and cis 1,2-dichloroethene (cis 1,2-DCE) were detected in shallow groundwater samples collected from the site (chloroform was the only VOC detected in groundwater samples collected from the deep monitoring wells). The latter 2 compounds are environmental transformation products of the sequential anaerobic reductive biotransformation of PCE. Of these compounds, PCE was detected at the most well locations (8) and is the most widespread chlorinated ethene at the site. The concentrations of PCE detected in shallow groundwater ranged from 0.82 µg/L (GW-1S) to 54 µg/L (GW-10) and were all in excess of the 15A NCAC 2L groundwater quality standard (0.7µg/L). The concentrations of cis-1,2-DCE detected in shallow groundwater were all well below the corresponding NCAC 2L groundwater quality standards (60 µg/L). TCE was detected at a concentration of 4.0 µg/L in the groundwater sample collected from shallow monitoring well GW-2S, which exceeds the 15A NCAC 2L groundwater quality standard of 3.0 µg/L. All other concentrations of TCE detected in shallow groundwater at the site were below the 15A NCAC 2L standard.

Isoconcentration contour maps of PCE and total chlorinated ethenes (i.e., total concentrations of PCE, TCE and cis-1,2-DCE) in shallow groundwater, based on the April 2013 groundwater analytical data, are presented as **Figures 11** and **12**. The configuration of the isoconcentration contours indicate that the dissolved chlorinated hydrocarbon plume appears to emanate from the general area of the maintenance shelter and extends along two distinct axes: 1) to the south in the general direction of monitoring well GW-7S and the Phase I/II landfill; and 2) to the east toward and beyond the location of monitoring well GW-10. The general configuration of the plume appears to form a bow shape, extending around the margins of the general area encompassing monitoring wells GW-8D, GW-11 and GW-12, where a considerable thickness of dense clay (Unit 2) is present beginning at approximately 6 to 8 feet below grade, thereby providing an impediment to shallow groundwater flow. The arm of the plume extending to the east of the maintenance shelter was not apparent from the results of previous assessment activities conducted at the site.

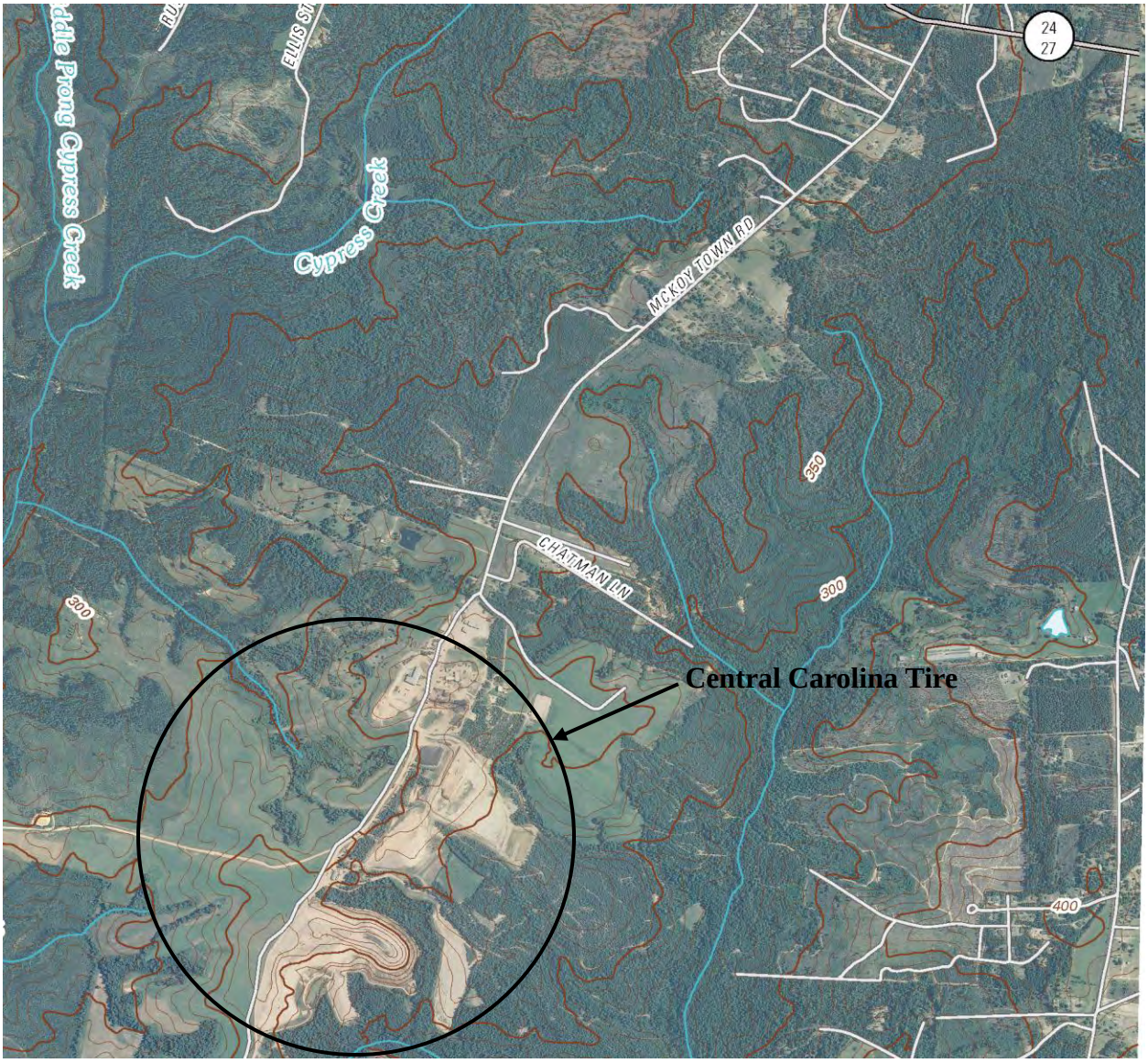
7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase 3 Hydrogeologic and Groundwater Quality Assessment, a bow-shaped plume of dissolved chlorinated ethenes (including PCE, TCE and cis-1,2-DCE) originates within the shallow surficial aquifer in the vicinity of the facility maintenance shelter and extends along two distinct axes to the south in the general direction of monitoring well GW-7S and the Phase I/II landfill and to the east toward and beyond the location of monitoring well GW-10. These results further indicate that the source of dissolved chlorinated ethenes in groundwater is likely located at the maintenance shelter. The maintenance shelter is used to maintain and repair equipment for the landfill, and the interior of the shelter is unpaved. Equipment maintenance and repair includes the use of parts cleaning solutions that contain PCE. Low volume incidental spills of parts cleaning solution onto the ground surface over time are likely the source of PCE in groundwater at the site.

The dissolved chlorinated ethenes plume is confined to the shallow surficial aquifer and is not present in the deeper zone of groundwater occurrence monitored by the deep monitoring wells. The chlorinated ethenes plume has been adequately delineated up gradient of the source area (north), as well as to the west and south of the source area, by the existing monitoring well network. However, the plume has not been delineated to the east of the maintenance shelter beyond the location of monitoring well MW-10. Inasmuch as the plume extends beneath the closed Phase I/II landfill, delineation of the down gradient extent of the plume will be challenging if not impractical as it would require installation of monitoring wells through the landfill.

Based on the results of the site assessment presented herein, it is recommended that an additional phase of assessment be conducted at the site to complete delineation of the horizontal extent of dissolved chlorinated ethenes plume in shallow groundwater east of the maintenance shelter. As part of the additional phase of assessment, it is recommended that permanent shallow monitoring wells be installed to the east monitoring well MW-10. A site assessment work plan that presents the details of the proposed additional phase of assessment will be prepared and submitted to the NCDENR Solid Waste Section for review and approval following receipt of comments on this report and acceptance of the recommendations presented herein.

FIGURES AND TABLES



N

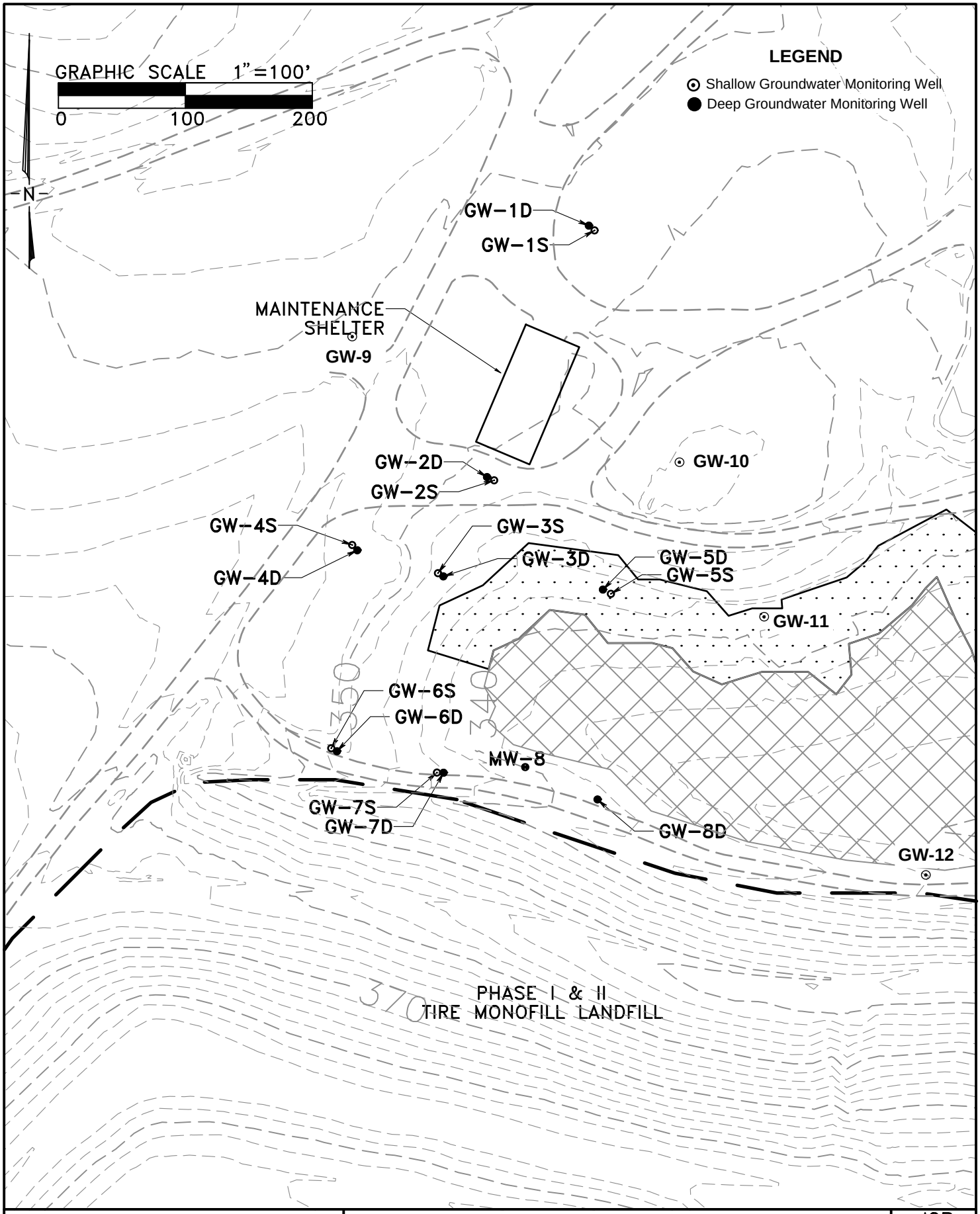
Source: USGS 7.5' Topographic Quadrangle Series
Murchisontown, NC 2010

Nautilus Geologic Consulting, PLLC
11112 Branding Iron Place
Wendell, NC 27591
Office: (919) 366-3663
Cell: (919) 995-0363

SITE LOCATION MAP

Central Carolina Tire Monofill Landfill
Harnett County, North Carolina

Drawn by:	Reviewed by:	Project #:	Drawing #:	Figure No.
USGS		Scale: 1:24,000	Drawing Date: 05/31/2012	1



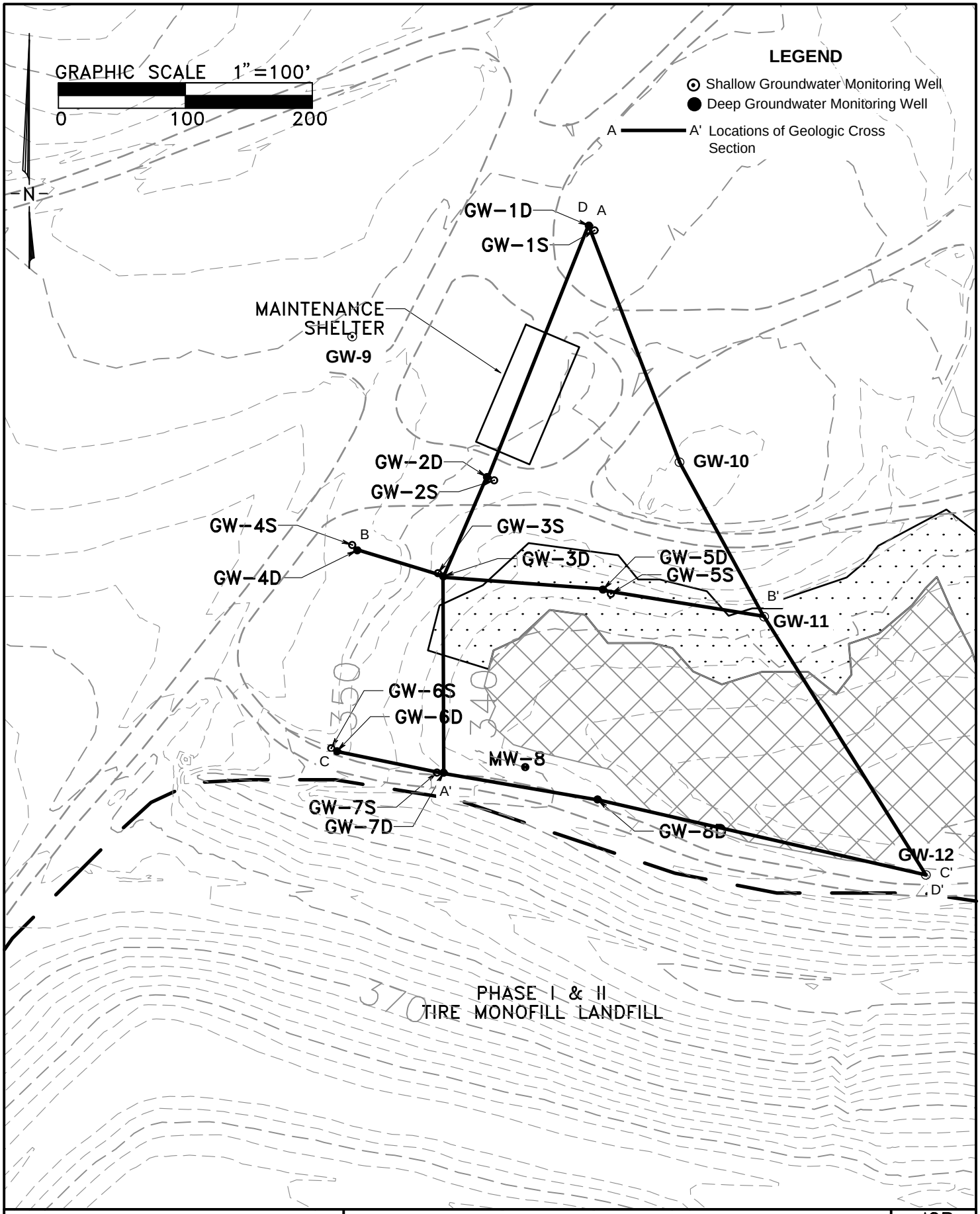
Nautilus Geologic Consulting, PLLC

SITE MAP
Central Carolina Tire Monofill Landfill
Harnett County, NC
Permit #43-04

JOB

FIG
2

C:\Documents and Settings\cfortner\Desktop\transfer\PH I-II GW ASSESSMENT figures.pro
Tue May 22, 2012 8:18:07AM



Nautilus Geologic Consulting, PLLC

Locations of Geologic Cross Sections
Central Carolina Tire Monofill Landfill
Harnett County, NC
Permit #43-04

JOB

FIG
4

C:\Documents and Settings\cfortner\Desktop\transfer\PH I-II GW ASSESSMENT figures.pro
Tue May 22, 2012 8:18:07AM

Figure 5
Geologic Cross-Section A-A'

Nautilus Geologic Consulting, PLLC

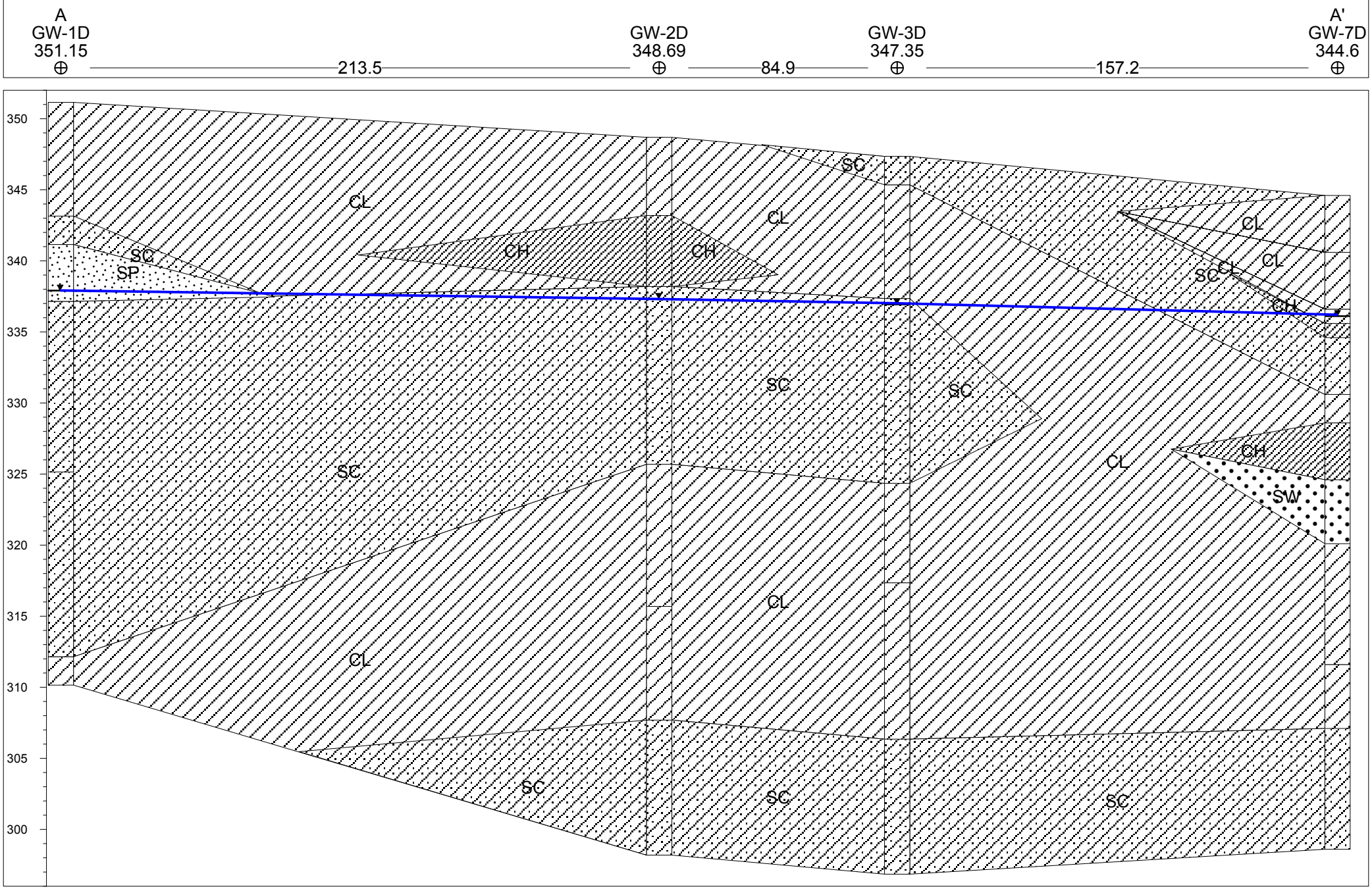


Figure 6
Cross-Section B-B'

Nautilus Geologic Consulting, PLLC

Water-table elevation in shallow aquifer as measured on 4/2/2013.

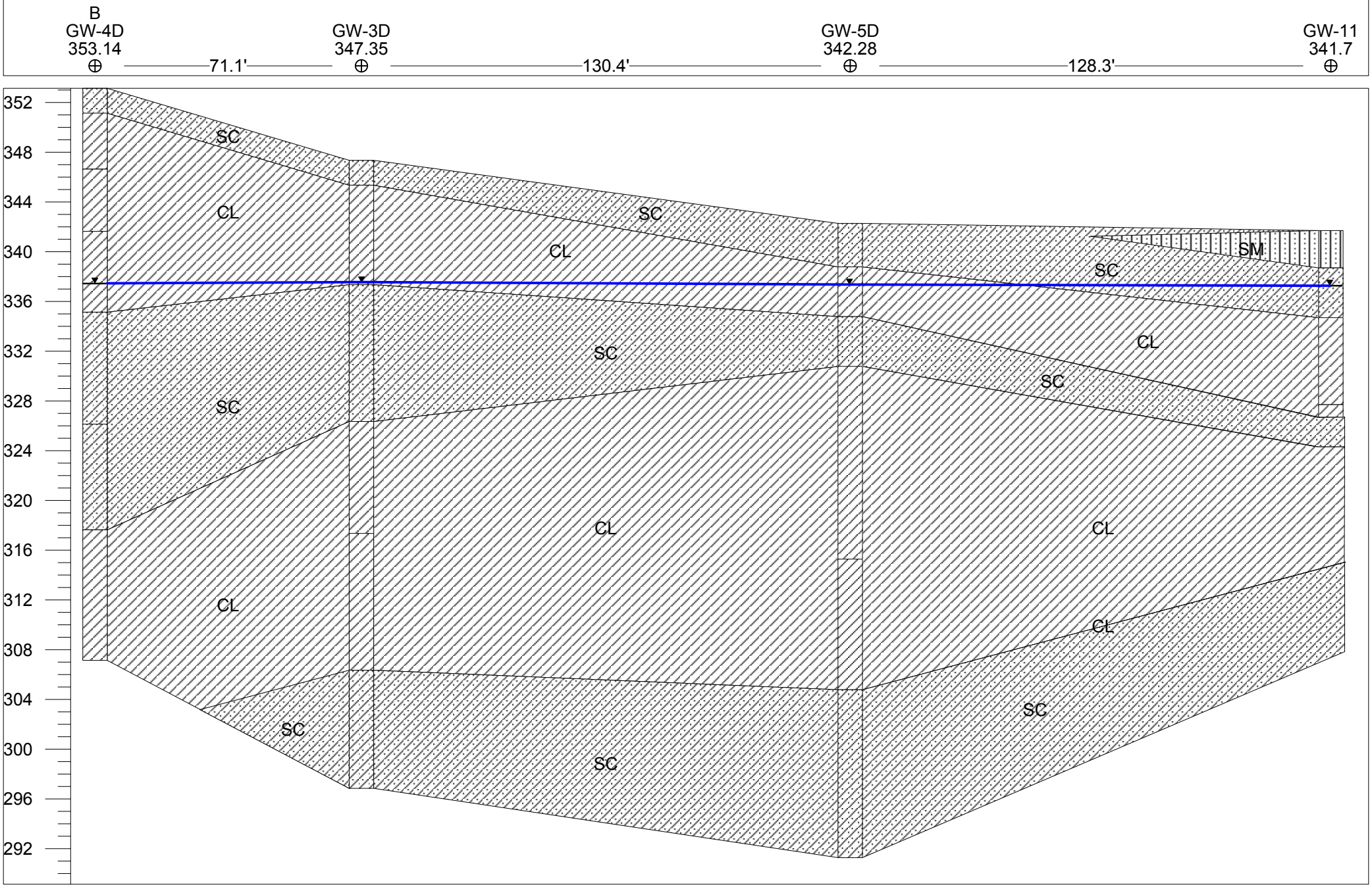


Figure 7
Cross-Section C-C'

Nautilus Geologic Consulting, PLLC

Water-table elevation in shallow aquifer as measured on 4/2/2013.

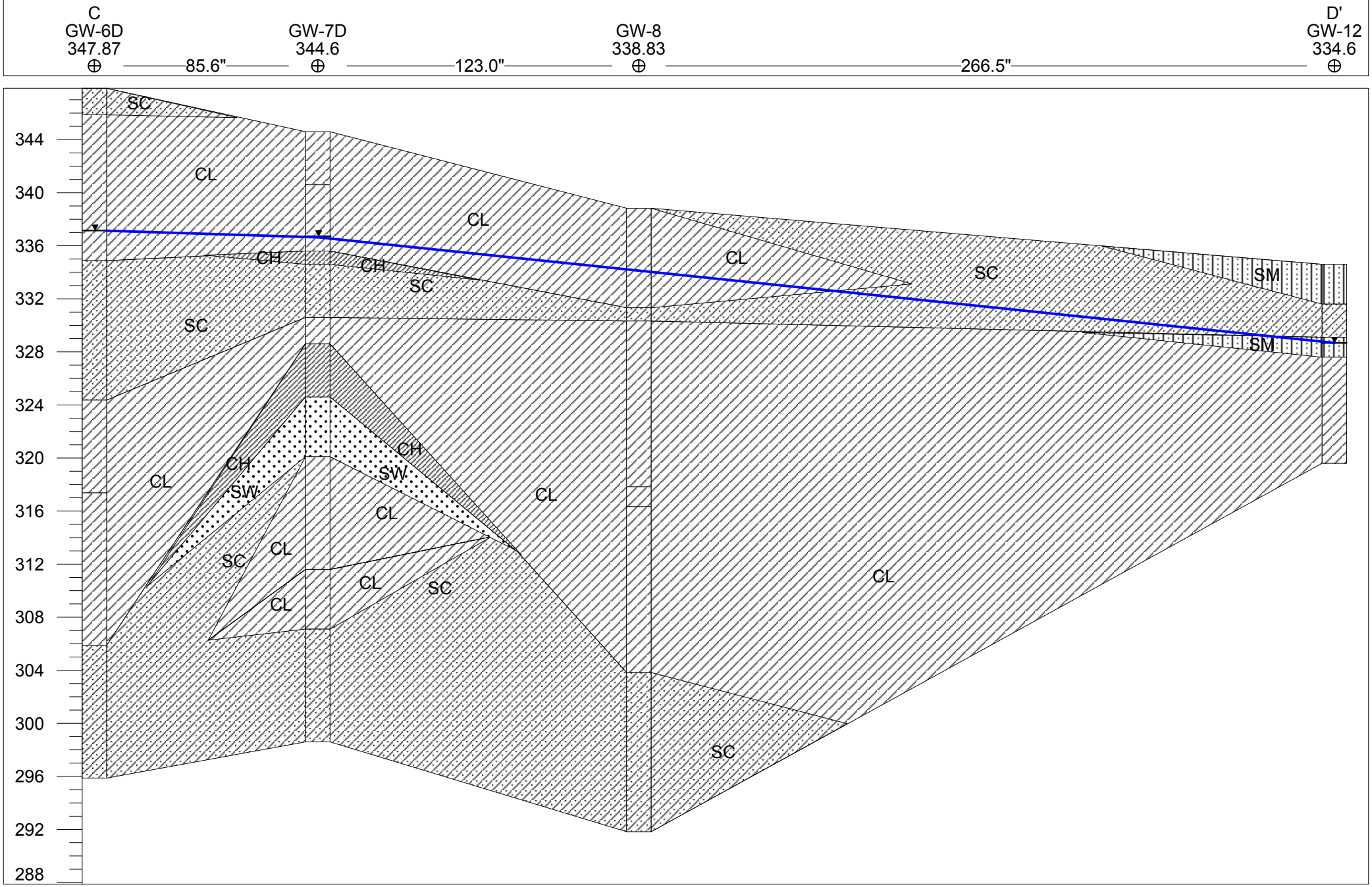
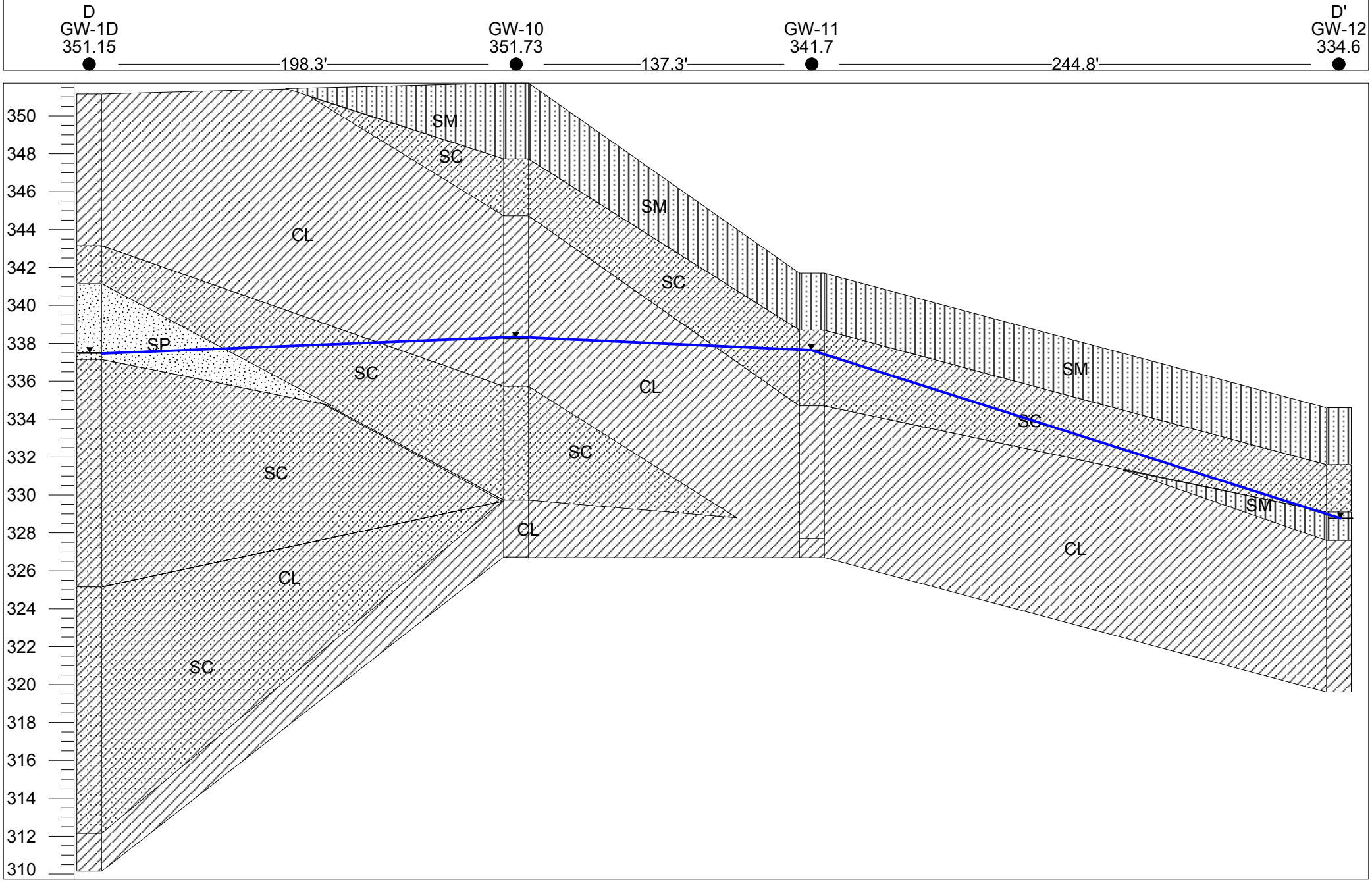
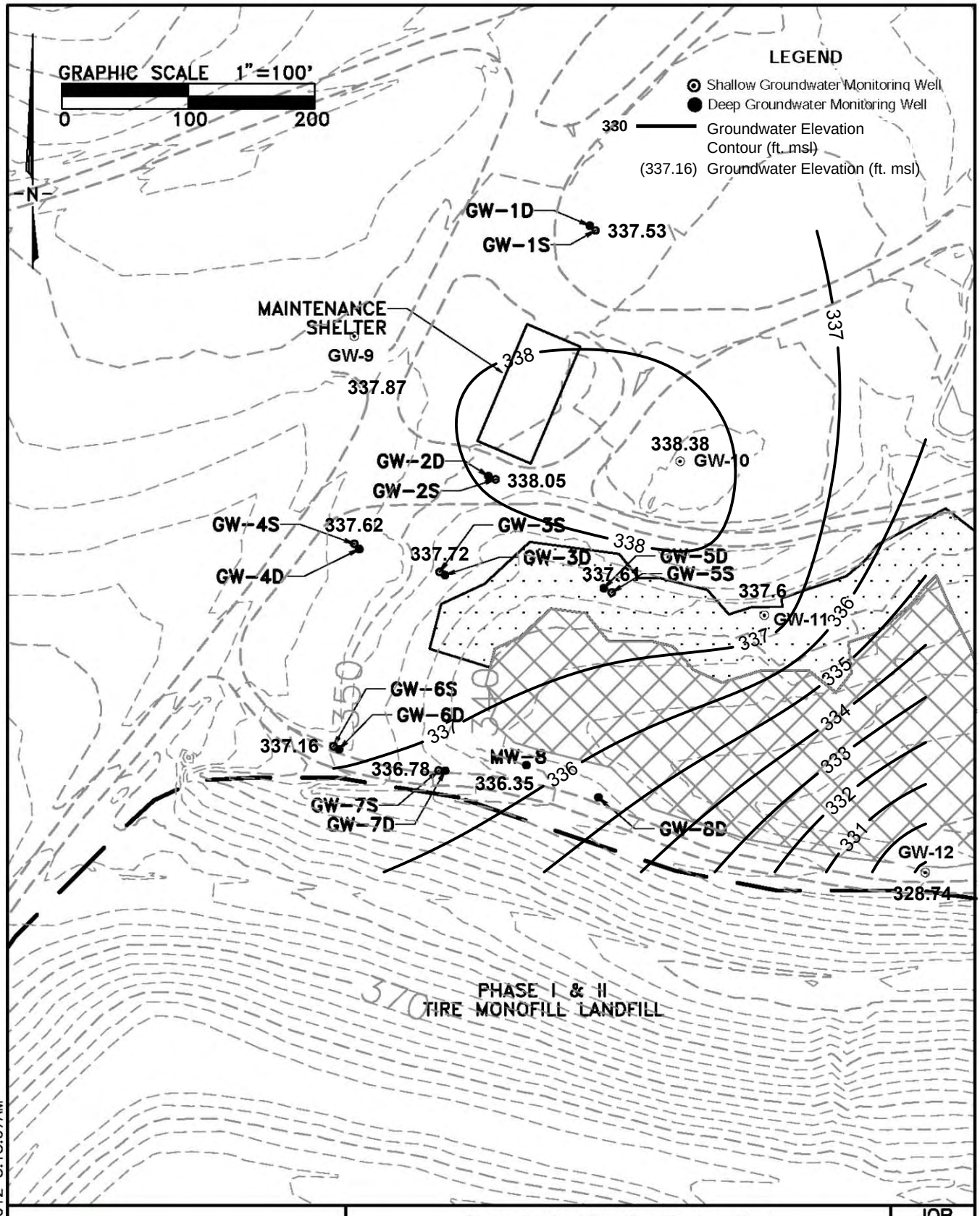


Figure 8
Cross-Section D-D'

Nautilus Geologic Consulting, PLLC

Water-table elevation in shallow aquifer as measured on 4/2/2013.





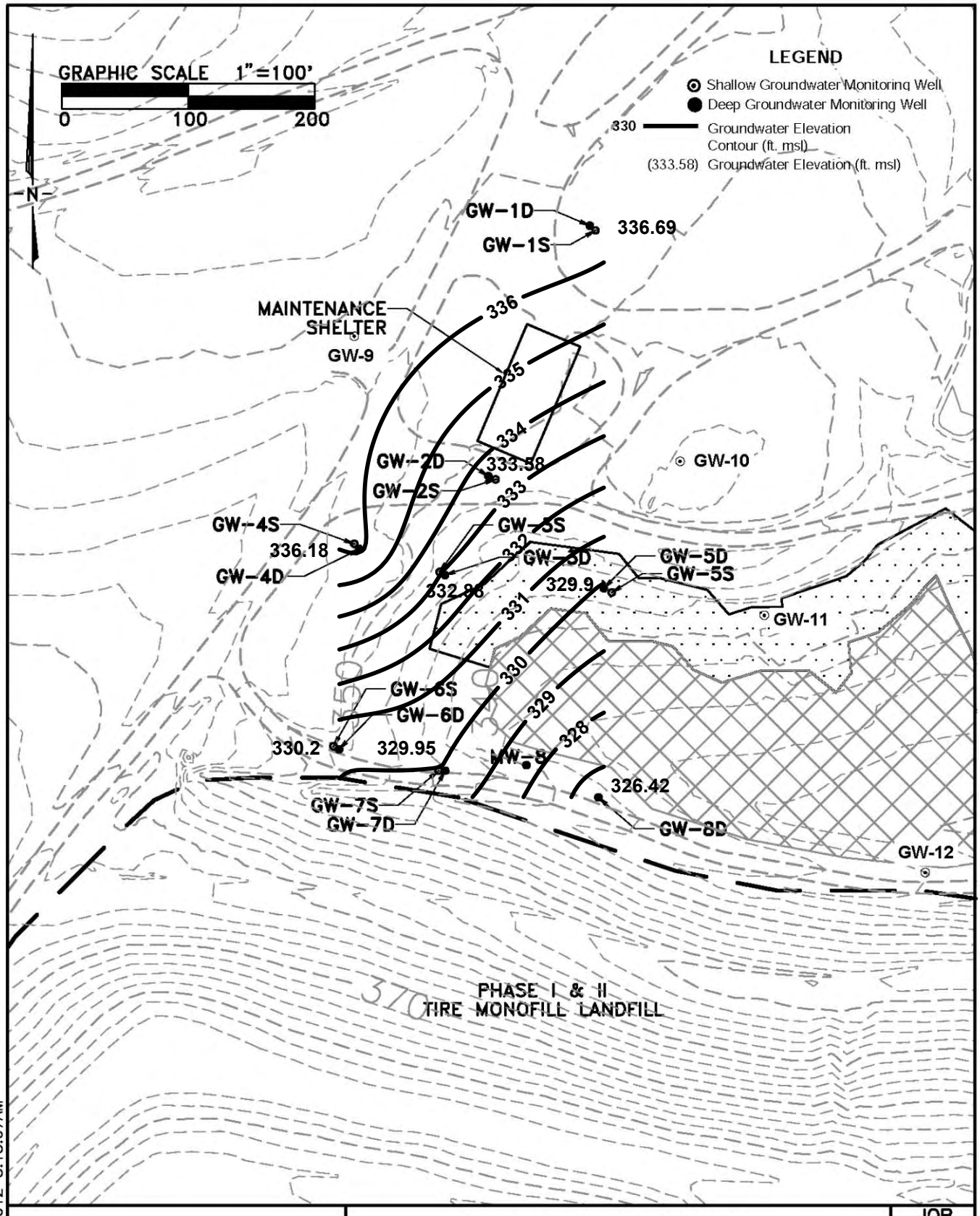
C:\Documents and Settings\cfortner\Desktop\transfer\PH I-II GW ASSESSMENT figures.pro
Tue May 22, 2012 8:18:07AM

Nautilus Geologic Consulting, PLLC

Groundwater Elevation Contour Map:
Shallow Surficial Aquifer April 2013
Central Carolina Tire Monofill Landfill
Harnett County, NC
Permit #43-04

JOB

FIG
9



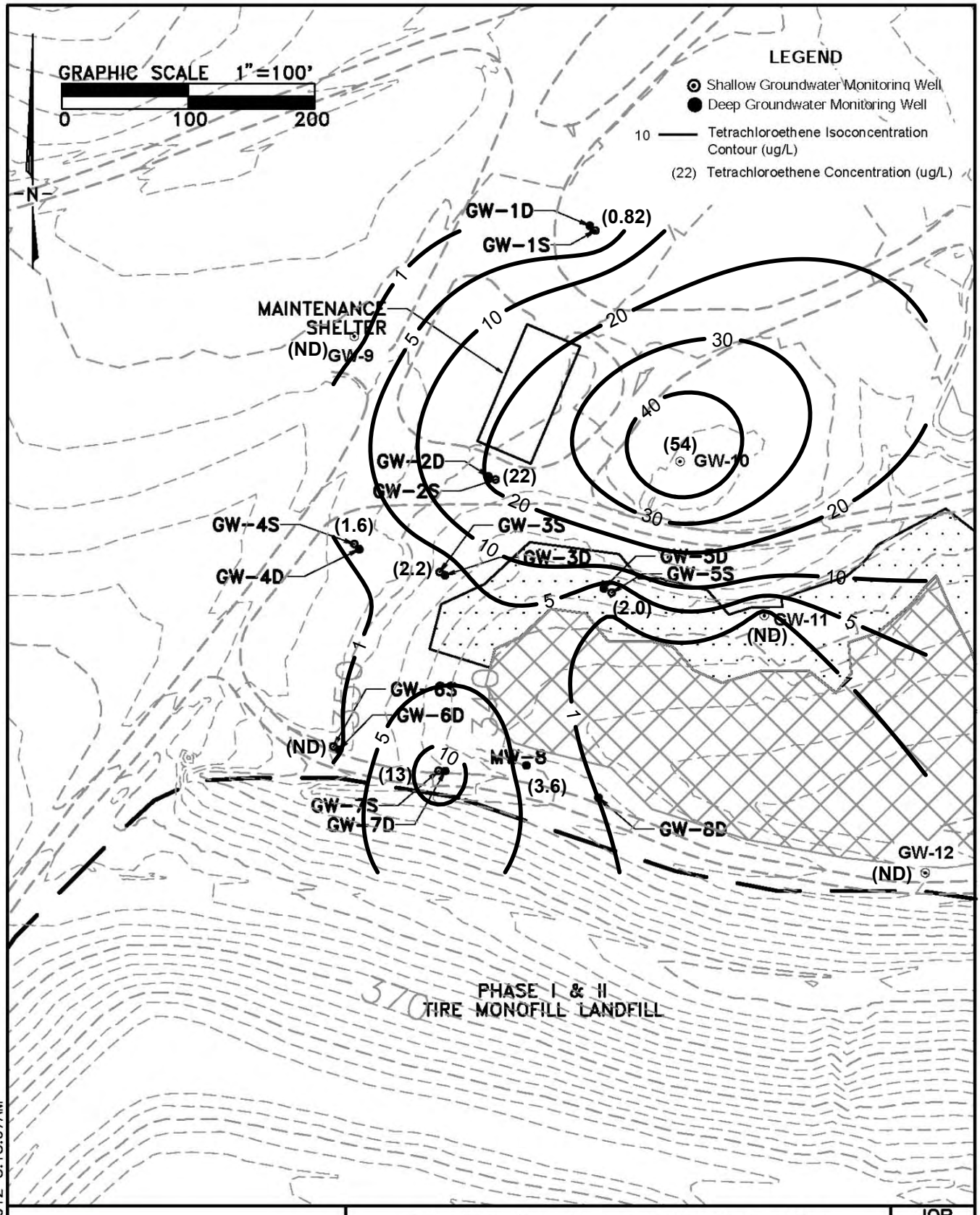
Nautilus Geologic Consulting, PLLC

Groundwater Elevation Contour Map:
Deep Aquifer April 2013
Central Carolina Tire Monofill Landfill
Harnett County, NC
Permit #43-04

JOB

FIG 10

C:\Documents and Settings\cfortner\Desktop\transfer\PH I-II GW ASSESSMENT figures.pro
Tue May 22, 2012 8:18:07AM



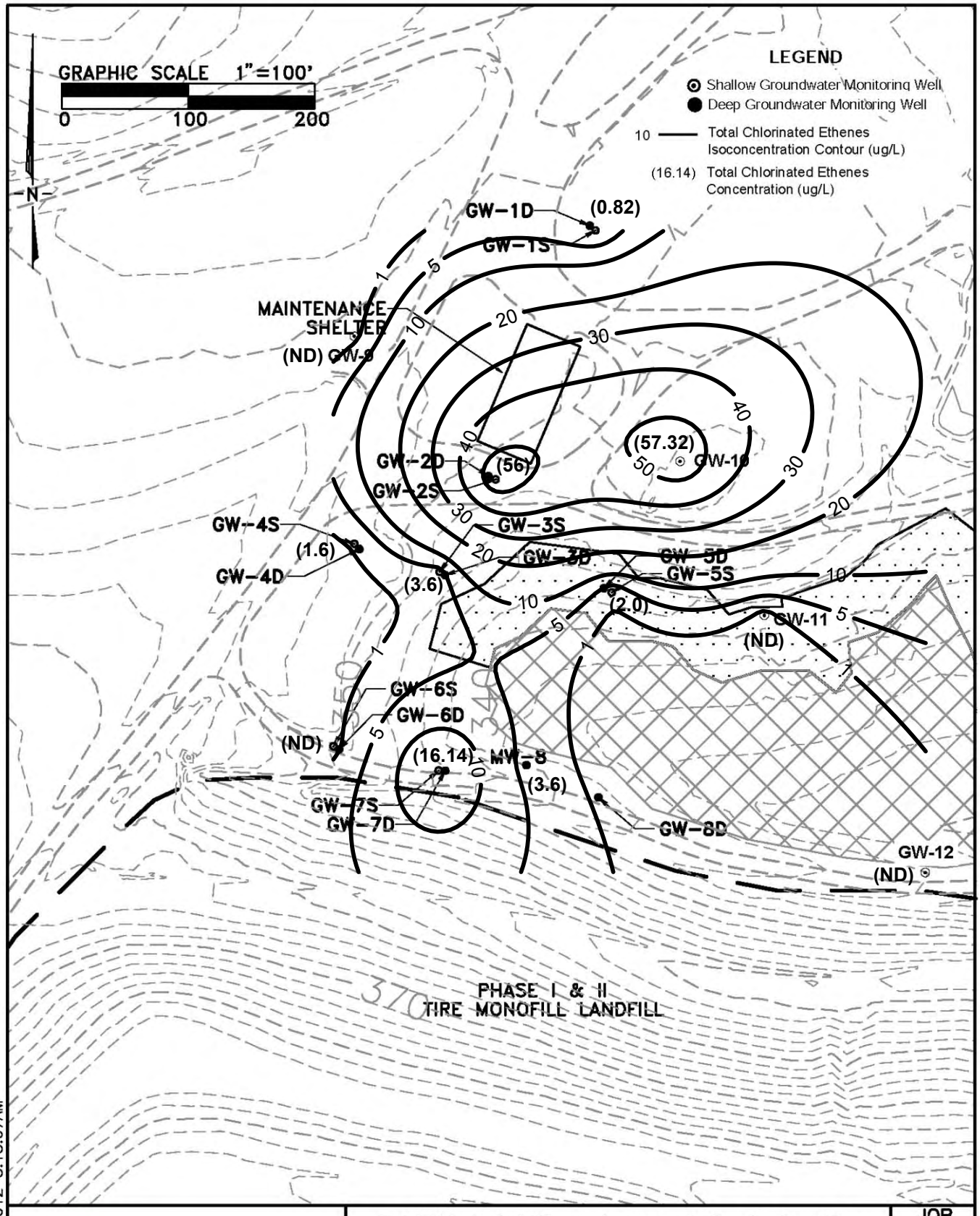
C:\Documents and Settings\cfortner\Desktop\transfer\PH I-II GW ASSESSMENT figures.pro
Tue May 22, 2012 8:18:07AM

Nautilus Geologic Consulting, PLLC

Tetrachloroethene Isoconcentration Contour Map:
Shallow Surficial Aquifer April 2013
Central Carolina Tire Monofill Landfill
Harnett County, NC
Permit #43-04

JOB

FIG
11



C:\Documents and Settings\cfortner\Desktop\transfer\PH I-II GW ASSESSMENT figures.pro
Tue May 22, 2012 8:18:07AM

Nautilus Geologic Consulting, PLLC

Total Chlorinated Ethenes Isoconcentration Contour Map:
Shallow Surficial Aquifer April 2013
Central Carolina Tire Monofill Landfill
Harnett County, NC
Permit #43-04

JOB

FIG
12

Table 1
Monitoring Well Data
Phase 3 Hydrogeologic and Groundwater Quality Assessment
Central Carolina Tire Monofill Landfill
Harnett County, North Carolina
Permit # 43-04

		Elevation Data			Test Boring Data		Monitoring Well Construction Data				Hydrogeological Unit
Boring Number	Boring Date	PVC Pipe Elev.	Ground Elev.	Stickup feet	Total Depth, ft.	Bottom Elevation	Top of Well Screen		Bottom of Well Screen		
							Depth, ft.	Elev.	Depth, ft.	Elev.	
GW-1S	4/10/2012	352.95	351.15	1.80	22.0	329.15	12.0	339.15	22.0	329.15	1
GW-1D	4/13/2012	353.30	351.15	2.15	40.0	311.15	30.0	321.15	40.0	311.15	3
GW-2S	4/10/2012	350.26	348.47	1.79	20.0	328.47	10.0	338.47	20.0	328.47	1
GW-2D	4/16/2012	350.63	348.69	1.94	50.0	298.69	40.0	308.69	50.0	298.69	3
GW-3S	4/10/2012	348.93	346.97	1.95	18.0	328.97	8.0	338.97	18.0	328.97	1
GW-3D	4/17/2012	349.45	347.35	2.10	50.0	297.35	40.0	307.35	50.0	297.35	3
GW-4S	4/11/2012	354.80	352.82	1.98	24.0	328.82	14.0	338.82	24.0	328.82	1
GW-4D	4/18/2012	355.00	353.14	1.86	44.0	309.14	34.0	319.14	44.0	309.14	3
GW-5S	4/11/2012	344.36	342.19	2.17	16.0	326.19	6.0	336.19	16.0	326.19	1
GW-5D	4/17/2012	345.42	342.28	3.14	49.0	293.28	39.0	303.28	20.0	322.28	3
GW-6S	4/11/2012	349.48	348.07	1.41	20.0	328.07	10.0	338.07	20.0	328.07	1
GW-6D	4/19/2012	349.65	347.87	1.78	52.0	295.87	42.0	305.87	52.0	295.87	3
GW-7S	4/12/2012	346.76	344.76	2.00	17.0	327.76	7.0	337.76	17.0	327.76	1
GW-7D	4/18/2012	346.58	344.60	1.98	45.0	299.60	35.0	309.60	45.0	299.60	3
GW-8D	4/13/2012	340.69	338.83	1.86	47.0	291.83	37.0	301.83	47.0	291.83	3
MW-8	ca. 10/2002	342.80	339.12	3.68	20.0	319.12	10.0	329.12	20.0	319.12	1
GW-9	3/19/2013	353.73	351.14	2.59	22.5	328.64	12.5	338.64	22.5	328.64	1
GW-10	3/19/2013	354.33	351.73	2.60	25.0	326.73	15.0	336.73	25.0	326.73	1
GW-11	3/20/2013	343.85	341.70	2.15	15.0	326.70	5.0	336.70	15.0	326.70	1
GW-12	3/20/2013	337.11	334.60	2.51	15.0	319.60	5.0	329.60	15.0	319.60	1

Notes:
1. All depths referenced from ground surface
2. Monitoring wells designated with "S" are shallow Type II wells; monitoring wells designated with "D" are deep Type III wells, with the exception of GW-8D which is a deep Type II well.

Table 2
Geotechnical Laboratory Data
Grain Size Distribution and Soil Classification
Phase 2 Hydrogeologic and Groundwater Quality Assessment
Central Carolina Tire Monofill Landfill
Harnett County, North Carolina
Permit # 43-04

Boring Number	Sample Depth, ft.	% Gravel >4.5 mm	%Sand 4.5 -- 0.075 mm	%Fines 0.075 mm>	%Silt 0.075 -- 0.005 mm	%Clay 0.005 mm>	Effective Porosity	USCS Class	Hydrogeologic Description
GW-1S	18.5-20	1.76	85.68	12.56	4.56	8.00	31%	SC	Clayey Sand
GW-2S	13-15	0.26	81.31	18.44	5.44	13.00	23%	SC	Clayey Sand
GW-3S	18-20	2.80	85.41	11.79	4.79	7.00	33%	SC	Clayey Sand
GW-4S	18-20	0.00	84.41	15.59	5.59	10.00	27%	SC	Clayey Sand
GW-5S	8-10	0.00	86.43	13.57	4.57	9.00	26%	SC	Clayey Sand
GW-6S	16-18	0.14	84.94	14.92	5.92	9.00	28%	SC	Clayey Sand
GW-7S	10-12	0.00	90.16	9.84	2.34	7.50	32%	SC	Clayey Sand
GW-8D	40-42	0.00	71.86	28.14	12.14	16.00	15%	SC	Clayey Sand
GW-1D	34-36	0.00	74.41	25.59	4.59	21.00	13.5%	SC	Clayey Sand
GW-2D	41.5-43.5	0.00	65.91	34.09	8.59	25.50	8%	SC	Clayey Sand
GW-3D	43.5-45.5	0.00	76.55	23.45	3.95	19.50	14%	SC	Clayey Sand
GW-4D	34-36	0.18	70.05	29.77	6.77	23.00	12%	SC	Clayey Sand
GW-5D	44-46	0.13	66.57	33.30	10.30	23.00	10%	SC	Clayey Sand
GW-6D	44-46	0.30	73.17	26.53	5.03	21.50	13%	SC	Clayey Sand
GW-7D	39-41	0.12	70.58	29.30	9.30	20.00	12.5%	SC	Clayey Sand

Notes to Above: Effective porosity values calculated from Textural Classification Triangle method referenced to A.I. Johnson, US Geological Survey Water Supply Paper 1662-D, 1967 (after C.W. Fetter, Applied Hydrogeology, 3rd ed. 1988)
Hydrogeologic descriptions based on field observations.

Table 3
Hydrogeologic Properties of Surficial Aquifer Sediments
Phase 2 Hydrogeologic and Groundwater Quality Assessment
Central Carolina Tire Monofill Landfill
Harnett County, North Carolina
Permit # 43-04

Piezometer Number	Hydrological Unit	Hydrogeologic Description (1)	Effective Porosity (2)	Hydraulic Conductivity (k)		
				ft/min	ft/day	cm/sec
GW-1S	1	Surficial Aquifer	31%	1.51E-02	2.17E+01	7.67E-03
GW-2S	1	Surficial Aquifer	23%	2.00E-02	2.88E+01	1.02E-02
GW-3S	1	Surficial Aquifer	33%	2.12E-02	3.05E+01	1.08E-02
GW-4S	1	Surficial Aquifer	27%	4.50E-03	6.48E+00	2.29E-03
GW-5S	1	Surficial Aquifer	26%	2.94E-02	4.23E+01	1.49E-02
GW-6S	1	Surficial Aquifer	28%	2.40E-03	3.46E+00	1.22E-03
GW-7S	1	Surficial Aquifer	32%	1.64E-02	2.36E+01	8.33E-03
MW-8	1	Surficial Aquifer	29%	2.70E-03	3.89E+00	1.37E-03
GW-9	1	Surficial Aquifer	29%	2.14E-03	3.08E+00	1.09E-03
GW-10	1	Surficial Aquifer	29%	6.14E-04	8.84E-01	3.12E-04
GW-11	1	Surficial Aquifer	29%	3.31E-03	4.77E+00	1.68E-03
GW-12	1	Surficial Aquifer	29%	4.86E-03	7.00E+00	2.47E-03
			Geometric Mean:	**5.93E-03**	**8.54E+00**	**3.01E-03**

Notes
(1) Surficial Aquifer (Middendorf Formation) - very fine to medium variably clayey sand
(2,3) Effective porosity values for soils assigned based on laboratory testing (see Table 2)

Table 4
Horizontal Ground Water Gradient and Velocity Calculations
Phase 2 Hydrogeologic and Groundwater Quality Assessment
Central Carolina Tire Monofill Landfill
Harnett County, North Carolina
Permit # 43-04

Well/Piez. No.	Hydrologic Unit	Hydraulic Conductivity (k) ft/min	ft/day	cm/sec	Top of PVC Elevation	Depth to Groundwater*	Grd. Water Elevation*	Reference Elevation*	delta-Elev. in feet	Map Length in feet	Hydraulic Gradient (I)	Effective Porosity (n)	GW Velocity (V), ft/day	Geometric Mean Velocity, ft/day
GW-1S	Surficial Aq.	1.51E-02	2.17E+01	7.67E-03	352.95	15.42	337.53	338.0	0.47	94.73	0.005	0.31	0.35	
GW-2S	Surficial Aq.	2.00E-02	2.88E+01	1.02E-02	350.26	12.21	338.05	338.0	0.05	13.2	0.004	0.23	0.47	
GW-3S	Surficial Aq.	2.12E-02	3.05E+01	1.08E-02	348.93	11.21	337.72	338.0	0.28	72.15	0.004	0.33	0.37	
GW-4S	Surficial Aq.	4.50E-03	6.48E+00	2.29E-03	354.80	17.18	337.62	338.0	0.38	106.84	0.004	0.27	0.09	
GW-5S	Surficial Aq.	2.94E-02	4.23E+01	1.49E-02	344.36	6.75	337.61	338.0	0.39	41.07	0.009	0.26	1.54	
GW-6S	Surficial Aq.	2.40E-03	3.46E+00	1.22E-03	349.48	12.32	337.16	337.0	0.16	17.79	0.009	0.28	0.11	
GW-7S	Surficial Aq.	1.64E-02	2.36E+01	8.33E-03	346.76	9.98	336.78	337.0	0.22	27.15	0.008	0.32	0.60	
MW-8	Surficial Aq.	2.70E-03	3.89E+00	1.37E-03	342.80	6.45	336.35	336.0	0.35	20.01	0.017	0.29	0.23	
GW-9	Surficial Aq.	2.14E-03	3.08E+00	1.09E-03	353.73	15.86	337.87	338.0	0.13	97.53	0.001	0.29	0.01	
GW-10	Surficial Aq.	6.14E-04	8.84E-01	3.12E-04	354.33	15.95	338.38	338.0	0.38	45.08	0.008	0.29	0.03	
GW-11	Surficial Aq.	3.31E-03	4.77E+00	1.68E-03	343.85	6.25	337.60	337.0	0.60	16.03	0.037	0.29	0.62	
GW-12	Surficial Aq.	4.86E-03	7.00E+00	2.47E-03	337.11	8.37	328.74	330.0	1.26	33.01	0.038	0.29	0.92	0.23

Notes: Ground Water Velocity Calculated from Equation

V=KI/n where K = Hydraulic Conductivity in units of ft/day
I = Hydraulic Gradient in units of ft/ft
n = Effective Porosity (unitless)

Hydraulic Conductivity values from aquifer slug testing using the Bouwer-Rice method
Hydraulic Gradient values were calculated from the potentiometric surface map
Effective Porosity values derived from Table 2
*Ground water elevations and potentiometric surfaces for reference elevations derived from water level observations made 4/02/2013.

Table 5
Groundwater Field Data
Phase 3 Hydrogeologic and Groundwater Quality Assessment
April 2 and 3, 2013
Central Carolina Tire Monofill Landfill
Harnett County, North Carolina
Permit # 43-04

Well Identity	Well Depth (Feet BGS)	Well Diameter (Inches)	Top of Casing Elevation (Feet MSL)	Ground Surface Elevation (Feet MSL)	Depth to Groundwater (Feet BTOC)	Groundwater Elevation (Feet MSL)	Field Parameters					
							Temp. C°	pH	S.C. umhos/cm	Turbidity (ntu)	ORP (mV)	DO (mg/L)
GW-1S	22.0	2.0	352.95	351.15	15.42	337.53	13.6	4.69	41	23.7	110.1	6.01
GW-1D	40.0	2.0	353.30	351.15	16.61	336.69	15.8	5.30	91	86.5	67.4	3.35
GW-2S	20.0	2.0	350.26	348.47	12.21	338.05	16.0	4.41	81	8.99	101.2	5.37
GW-2D	50.0	2.0	350.63	348.69	17.05	333.58	15.7	4.89	93	40.1	86.1	4.48
GW-3S	18.0	2.0	348.93	346.97	11.21	337.72	15.4	4.33	61	7.94	105.7	5.7
GW-3D	50.0	2.0	349.45	347.35	16.57	332.88	16.3	5.12	87	23	75.6	4.96
GW-4S	24.0	2.0	354.80	352.82	17.18	337.62	15.8	4.79	23	8.91	91.1	6.67
GW-4D	44.0	2.0	355.00	353.14	18.82	336.18	16.4	6.28	106	19.6	19.6	3.85
GW-5S	16.0	2.0	344.36	342.19	6.75	337.61	12.9	3.55	233	7.01	92.4	3.84
GW-5D	49.0	2.0	345.42	342.28	15.52	329.90	16.2	4.54	227	10.5	42.4	2.64
GW-6S	20.0	2.0	349.48	348.07	12.32	337.16	13.7	4.40	346	28	90.3	7.22
GW-6D	52.0	2.0	349.65	347.87	19.45	330.20	16.9	7.33	319	248	2.1	3.67
GW-7S	17.0	2.0	346.76	344.76	9.98	336.78	15.3	3.59	75	9.66	136.3	6.61
GW-7D	45.0	2.0	346.58	344.60	16.63	329.95	16.5	5.27	19.2	56.1	30.8	3.52
GW-8D	47.0	2.0	340.69	338.83	14.27	326.42	16.5	5.72	253	28.7	33.9	3.95
MW-8	20.0	2.0	342.80	339.12	6.45	336.35	14.2	4.61	68	7.2	73.2	2.97
GW-9	22.5	2.0	353.73	351.14	15.86	337.87	15.5	4.46	88	8.89	100.1	6.33
GW-10	25.0	2.0	354.33	351.73	15.95	338.38	15.7	5.30	43	9.41	61.9	6.17
GW-11	15.0	2.0	343.85	341.70	6.25	337.60	14.1	3.55	66	4.91	93	5.38
GW-12	15.0	2.0	337.11	334.60	8.37	328.74	15.7	6.39	517	17.9	-53.3	0.81

Notes: BGS = Below Ground Surface
MSL = Mean Sea Level
BTOC = Below Top of Casing
GW = Groundwater
mV = millivolts
S.C. = Specific Conductance
ntu = Nephelometric Turbidity Units
Monitoring wells designated with "S" are shallow Type II wells; monitoring wells designated with "D" are deep Type III wells.
ORP = Oxidation-Reduction Potential
DO = Dissolved Oxygen

Table 6
Summarized Historical Laboratory Analytical Results for Groundwater Samples
Phase 3 Hydrogeologic and Groundwater Quality Assessment
April 2013
Central Carolina Tire Monofill Landfill
Harnett County, North Carolina
Permit # 43-04

Well ID	Sampling Date	Volatile Organic Compounds by SW 846 8260B (ug/L)											
		Acetone	Benzene	Bromodichloromethane	Bromoform	Carbon Disulfide	Chloroethane	Chloroform	Dibromochloromethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Trichlorofluoromethane
GW-1S	4/30/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.82**	ND	ND
GW-1D	5/1/2012	5	ND	**0.885**	1.96	0.641	ND	12.9	**6.5**	ND	ND	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND
GW-2S	4/30/2012	ND	ND	ND	ND	ND	ND	ND	ND	8.01	**8.82**	1.33	0.439
	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	30	**22**	**4.0**	ND
GW-2D	5/1/2012	4.31	ND	**0.885**	ND	ND	ND	4.79	**0.763**	ND	ND	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-3S	5/1/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.869 J**	ND	ND
	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	1.4	**2.2**	ND	ND
GW-3D	5/1/2012	5.09	ND	**2.04**	1.08	ND	ND	4.61	ND	ND	ND	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
GW-4S	4/30/2012	ND	ND	**5.29**	0.831	ND	ND	5.94	**3.94**	ND	**1.7**	ND	ND
	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.6**	ND	ND
GW-4D	5/1/2012	ND	ND	**1.92**	ND	0.823	ND	4.08	**1.54**	ND	ND	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND
GW-5S	4/30/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.07**	ND	ND
	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.0**	ND	ND
GW-5D	5/1/2012	4.36	ND	**6.55**	1.68	0.71	ND	11.5	**5.46**	ND	ND	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-6S	4/30/2012	ND	ND	**5.9**	0.871	ND	ND	6.09	**4.59**	ND	ND	ND	ND
	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-6D	5/1/2012	3.08	ND	**1.01**	0.937	0.811	ND	2.86	**1.08**	ND	ND	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-7S	4/30/2012	ND	ND	ND	ND	ND	ND	ND	ND	1.83	**7.37**	0.43	ND
	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	2.6	**13**	0.54	ND
GW-7D	5/1/2012	2.59	ND	**3.63**	1.22	ND	ND	7.17	**3.07**	ND	ND	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND
GW-8D	5/1/2012	ND	ND	0.403	ND	ND	ND	0.716	**0.592**	ND	ND	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	5/1/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.32**	ND	ND
	4/3/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.6**	ND	ND
GW-9	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-10	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	2.4	**54**	0.92	ND
GW-11	4/2/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GW-12	4/2/2013	ND	**1.9**	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND
NCAC 2L Std. (ug/L)		**6000**	**1.0**	**0.6**	**4.0**	**700**	**3000**	**70**	**0.4**	**60**	**0.7**	**3.0**	**2000**

Notes:
Values in boldface exceed the corresponding 15A NCAC 2L .0202 groundwater quality standard for Class GA groundwater.
NCAC 2L STD = North Carolina Groundwater Standard established in Title 15A of North Carolina Administrative Code Subchapter 2L
J = Estimated value above laboratory method detection limit.
ND = None detected above laboratory method detection limit.

APPENDIX A

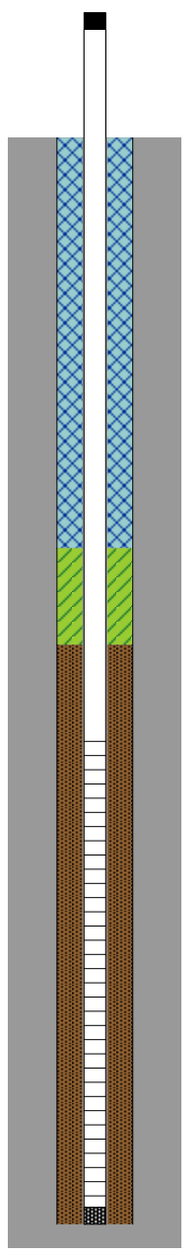
Boring Logs and Well Construction Schematics

Nautilus Geologic Consulting, PLLC
11112 Branding Iron Pl
Wendell, NC 27591
919-366-3663 (Office)
919-995-0363 (Cell)
bboutinpg@bellsouth.net

PROJECT: Central Carolina Tire		Well ID: GW-9	
LOCATION: Cameron, NC		Client: Central Carolina Tire	
DRILLING CONTRACTOR: Red Dog Drilling		NORTHING: 548081.19	EASTING: 1953414.83
DRILLING EQUIPMENT: CME 55		GROUND SURFACE ELEV.: 351.14	TOC ELEVATION: 353.73
DRILLING METHOD: Hollow stem auger		TOTAL DEPTH: 22.5	DEPTH TO WATER: 15.86
LOGGED BY: BSB	SAMPLING METHOD: 2-foot every 5 feet	DATE STARTED: 3/19/13	DATE COMPLETED: 3/19/13

Depth (feet)	USCS	Graphic Log	Description	REC (in)	# Blows/ft
0–4	SM		Silty SAND: very fine to fine; little to some silt; micaceous; lt. brown.		
4–12	SC		Clayey SAND: fine to medium; some clay; plastic; micaceous; red-br. to 7'; becomes fine to coarse, porrly sorted; mottled red-br-or; sl. wet with depth.	9	12
				16	21
12–18	CL		Sandy CLAY: little to some fine to coarse sand; slightly stiff; highly micaceous; few appr. 1" clayey sand seams; mottled tan-pur-or-br; wet.	18	22
18–24	SC		Clayey SAND: vf to coarse; porrly sorted; little to some clay; alt. purple, red, or, tan layers; wet, saturated.	18	12

Well Construction



Finished within 4" steel, stickup well protector with hinged, locking lid.

2" ID Sch 40 PVC solid riser.

Cement/bentonite grout

Bentonite seal

No. 2 Sand Filter Pack

Depth to GW measured on 4/2/2013

2" ID Sch 40 PVC 0.010" machine slotted well screen.

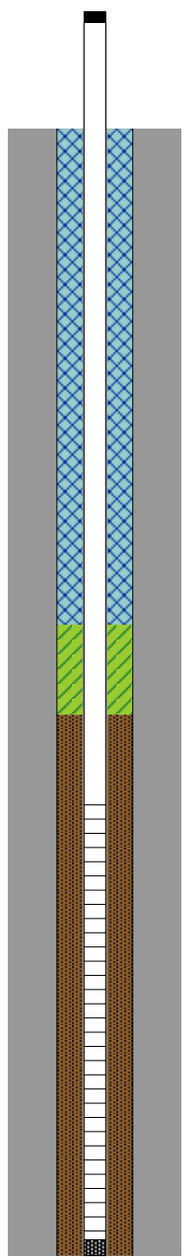
NOTES: Type II Well

Nautilus Geologic Consulting, PLLC
11112 Branding Iron Pl
Wendell, NC 27591
919-366-3663 (Office)
919-995-0363 (Cell)
bboutinpg@bellsouth.net

PROJECT: **Central Carolina Tire**	Well ID: **GW-10**		
LOCATION: **Cameron, NC**	Client: **Central Carolina Tire**		
DRILLING CONTRACTOR: **Red Dog Drilling**	NORTHING: **547982.75**	EASTING: **1953666.09**	
DRILLING EQUIPMENT: **CME 55**	GROUND SURFACE ELEV.: **351.73**	TOC ELEVATION: **354.33**	
DRILLING METHOD: **Hollow stem auger**	TOTAL DEPTH: **25**	DEPTH TO WATER: **15.95**	
LOGGED BY: **BSB**	SAMPLING METHOD: **2-foot every 5 feet**	DATE STARTED: **3/19/13**	DATE COMPLETED: **3/19/13**

Depth (feet)	USCS	Description	REC (in)	# Blows/ft
0	SM	Silty SAND: very fine to fine; some silt; loose; br.		
4	SC	Clayey SAND: very fine to fine; some clay; slightly micaceous; loose to sl. stiff; or-br; moist.	8	3
8	CL	Sandy CLAY: little to some fine to medium sand; micaceous; plastic; stiff; sand becomes fine to coarse with weathered feldspar with depth, including rock frags.; mottled or-gray-tan-pur-br; sl. wet.	12	26
14			16	40
16	SC	Clayey SAND: fine to coarse poorly sorted sand with rock frags. to 0.5"; little to some clay; alt. pur-red-tan-gray layers; wet, saturated.	18	5
22	CL	CLAY: trace to little fine to medium sand; micaceous; very stiff; mottled or-tan-pur-br-gray.	18	50
26				

Well Construction



Finished within 4" steel, stickup well protector with hinged, locking lid.

2" ID Sch 40 PVC solid riser.

Cement/bentonite grout

Bentonite seal

Depth to GW measured on 4/2/2013

No. 2 Sand Filter Pack

2" ID Sch 40 PVC 0.010" machine slotted well screen.

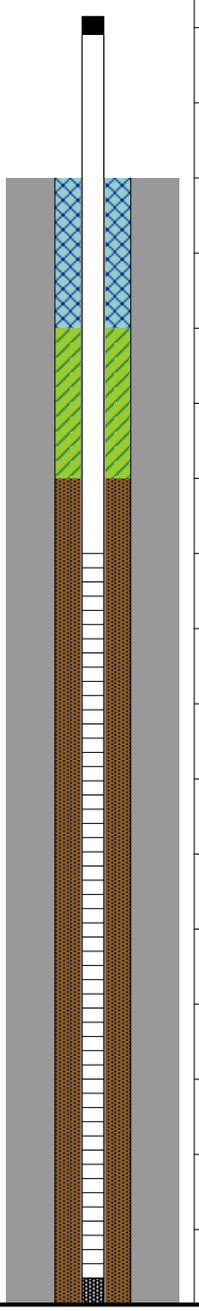
NOTES: Type II Well

Nautilus Geologic Consulting, PLLC
11112 Branding Iron Pl
Wendell, NC 27591
919-366-3663 (Office)
919-995-0363 (Cell)
bboutinpg@bellsouth.net

PROJECT: Central Carolina Tire		Well ID: GW-11	
LOCATION: Cameron, NC		Client: Central Carolina Tire	
DRILLING CONTRACTOR: Red Dog Drilling		NORTHING: 547863.4	EASTING: 1953734.01
DRILLING EQUIPMENT: CME 55		GROUND SURFACE ELEV.: 341.7	TOC ELEVATION: 343.85
DRILLING METHOD: Hollow stem auger		TOTAL DEPTH: 15	DEPTH TO WATER: 6.25
LOGGED BY: BSB	SAMPLING METHOD: 2-foot every 5 feet	DATE STARTED: 3/20/13	DATE COMPLETED: 3/20/13

Depth (feet)	USCS	Graphic Log	Description	REC (in)	# Blows/ft
0	SM		Silty SAND: very fine to medium; some silt; trace clay; red-br to tan.		
2					
4	SC		Clayey SAND: very fine to fine; little to some clay; trace silt; loose; or-br-tan; moist.	15	20
6					
8	CL		Sandy CLAY: some very fine to coarse sand; micaceous; loose; plastic; alt. or-tan-br-pur-gray layers; wet, saturated.	18	6
10					
12					
14	CL		CLAY: little to some very fine to medium sand; micaceous; weathered feldspar; stiff; mottled pur-tan-br-gray.	18	36

Well Construction



Finished within 4" steel, stickup well protector with hinged, locking lid.

2" ID Sch 40 PVC solid riser.

Cement/bentonite grout

Bentonite seal

No. 2 Sand Filter Pack

Depth to GW measured on 4/2/2013

2" ID Sch 40 PVC 0.010" machine slotted well screen.

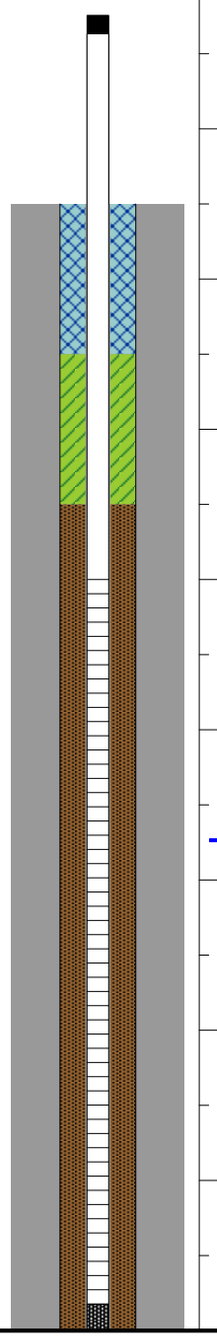
NOTES: Type II Well

Nautilus Geologic Consulting, PLLC
11112 Branding Iron Pl
Wendell, NC 27591
919-366-3663 (Office)
919-995-0363 (Cell)
bboutinpg@bellsouth.net

PROJECT: Central Carolina Tire		Well ID: GW-12	
LOCATION: Cameron, NC		Client: Central Carolina Tire	
DRILLING CONTRACTOR: Red Dog Drilling		NORTHING: 547654.85	EASTING: 1953862.13
DRILLING EQUIPMENT: CME 55		GROUND SURFACE ELEV.: 334.6	TOC ELEVATION: 337.11
DRILLING METHOD: Hollow stem auger		TOTAL DEPTH: 15	DEPTH TO WATER: 8.37
LOGGED BY: BSB	SAMPLING METHOD: 2-foot every 5 feet	DATE STARTED: 3/20/13	DATE COMPLETED: 3/20/13

Depth (feet)	USCS	Graphic Log	Description	REC (in)	# Blows/ft
0	SM		Silty SAND: fine to medium; some silt; loose; br.		
2					
4	SC		Clayey SAND: very fine to medium; some clay; little silt; micaceous; or-br.	10	4
6	SM		Silty SAND: fine to medium; some silt; very loose; abundant organic matter; dk. br.; wet.		
8	CL		Sandy CLAY: some fine t medium sand; very loose; sl. plastic; micaceous; weathered feldspar; gray-br.; wet.	18	2
10					
12					
14				18	9

Well Construction



Finished within 4" steel, stickup well protector with hinged, locking lid.

2" ID Sch 40 PVC solid riser.

Cement/bentonite grout

Bentonite seal

No. 2 Sand Filter Pack

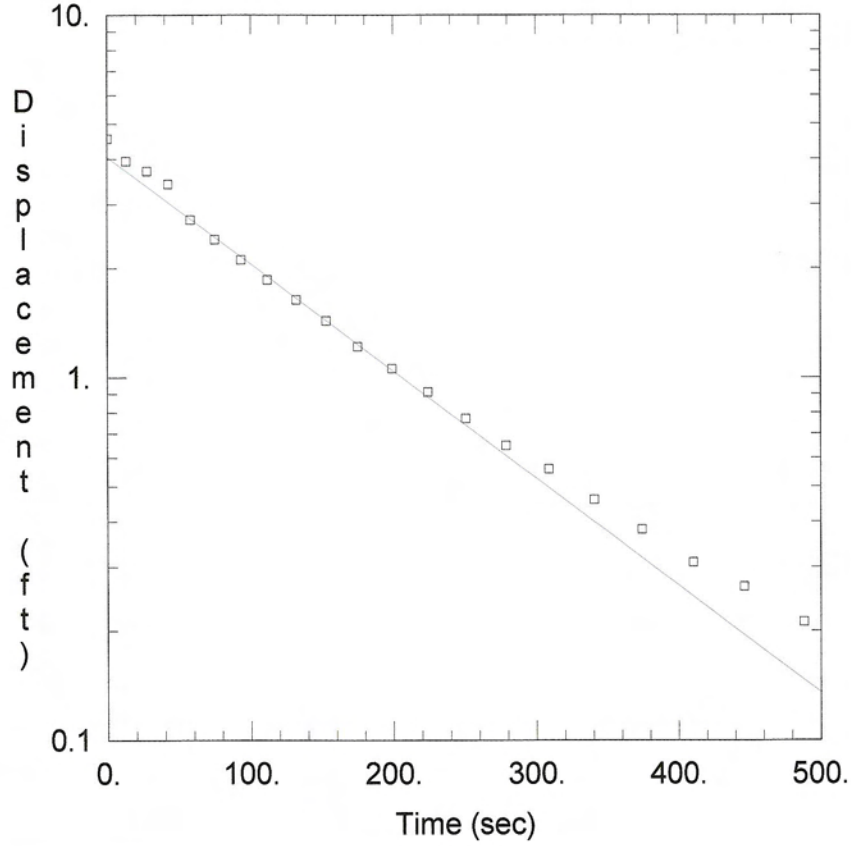
Depth to GW measured on 4/2/2013

2" ID Sch 40 PVC 0.010" machine slotted well screen.

NOTES: Type II Well

APPENDIX B

Slug Test Data



GW-9 SLUG TEST

Data Set: F:\CCTIRE~1\GW-9.AQT
Date: 04/29/13 Time: 10:58:07

PROJECT INFORMATION

Company: Nautilus Geologic Consulting
Client: Central Carolina Tire
Test Location: Cameron, NC
Test Well: GW-9
Test Date: 4/4/2013

SOLUTION

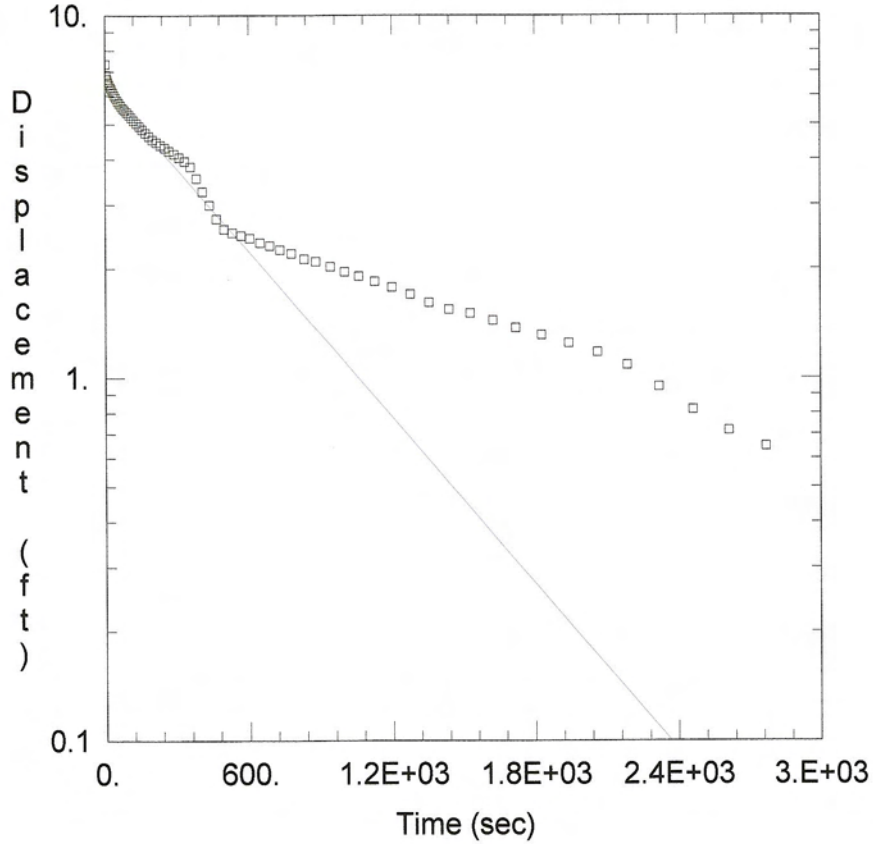
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 3.574E-05 ft/sec
y0 = 4.053 ft

AQUIFER DATA

Saturated Thickness: 13. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 4.554 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 10.25 ft
Wellbore Radius: 0.2604 ft
Gravel Pack Porosity: 0.39



GW-10 SLUG TEST

Data Set: F:\CCTIRE~1\GW-10.AQT
Date: 04/29/13 Time: 10:58:37

PROJECT INFORMATION

Company: Nautilus Geologic Consulting
Client: Central Carolina Tire
Test Location: Cameron, NC
Test Well: GW-10
Test Date: 4/4/2013

SOLUTION

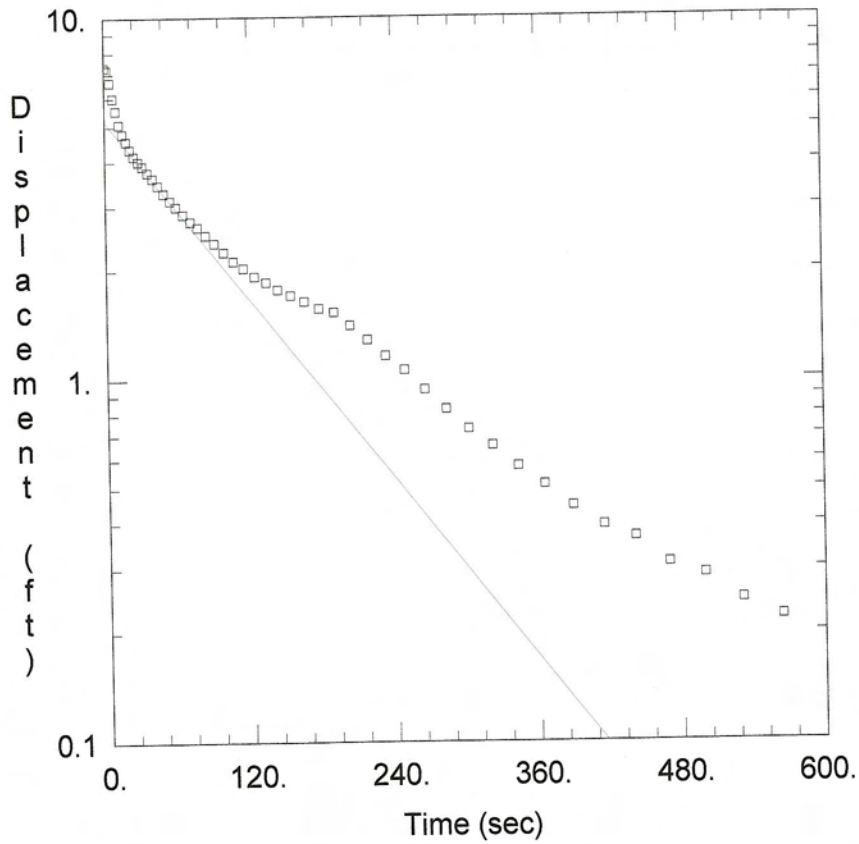
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.023E-05 ft/sec
y0 = 6.397 ft

AQUIFER DATA

Saturated Thickness: 11.6 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 7.327 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 11.6 ft
Wellbore Radius: 0.2604 ft
Gravel Pack Porosity: 0.39



GW-11 SLUG TEST

Data Set: F:\CCTIRE~1\GW-11.AQT
Date: 04/29/13 Time: 10:59:03

PROJECT INFORMATION

Company: Nautilus Geologic Consulting
Client: Central Carolina Tire
Test Location: Cameron, NC
Test Well: GW-11
Test Date: 4/4/2013

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 5.515E-05 ft/sec
y0 = 5.187 ft

AQUIFER DATA

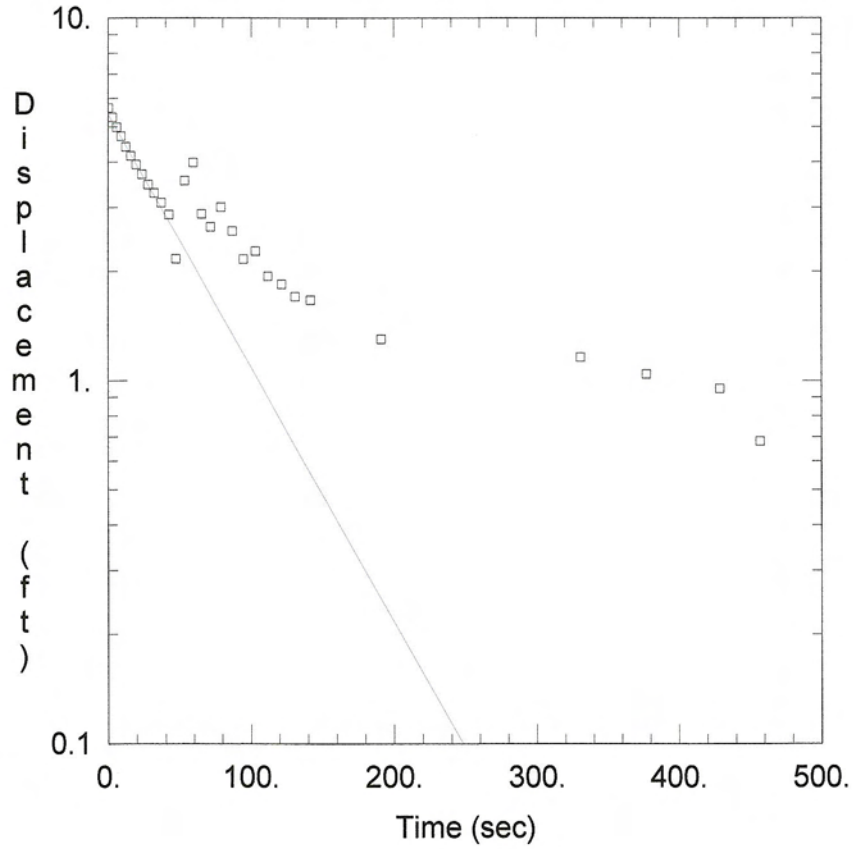
Saturated Thickness: 11.31 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 7.309 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 11.31 ft
Wellbore Radius: 0.2604 ft
Gravel Pack Porosity: 0.39



GW-12 SLUG TEST

Data Set: F:\CCTIRE~1\GW-12.AQT
Date: 04/29/13 Time: 10:59:27

PROJECT INFORMATION

Company: Nautilus Geologic Consulting
Client: Central Carolina Tire
Test Location: Cameron, NC
Test Well: GW-12
Test Date: 4/4/2013

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 8.094E-05 ft/sec
y0 = 5.411 ft

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 5.646 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 9.41 ft
Wellbore Radius: 0.2604 ft
Gravel Pack Porosity: 0.39

APPENDIX C

Laboratory Reports and Chain-of-Custody Forms

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP Certification No. L2307

Case Narrative

04/19/2013

Nautilus Geologic Consulting, PLLC
Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire
Project No.: 43-04
Lab Submittal Date: 04/05/2013
Prism Work Order: 3040245

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW6S
Prism Sample ID: 3040245-01
Prism Work Order: 3040245
Time Collected: 04/02/13 09:54
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 13:45	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 13:45	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 13:45	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 13:45	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 13:45	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 13:45	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 13:45	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 13:45	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 13:45	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 13:45	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 13:45	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 13:45	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 13:45	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 13:45	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 13:45	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 13:45	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 13:45	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 13:45	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 13:45	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 13:45	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 13:45	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 13:45	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 13:45	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 13:45	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 13:45	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 13:45	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 13:45	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 13:45	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 13:45	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 13:45	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 13:45	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 13:45	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 13:45	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 13:45	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 13:45	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 13:45	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 13:45	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 13:45	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 13:45	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 13:45	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 13:45	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 13:45	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW6S
Prism Sample ID: 3040245-01
Prism Work Order: 3040245
Time Collected: 04/02/13 09:54
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 13:45	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 13:45	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 13:45	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 13:45	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 13:45	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 13:45	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 13:45	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 13:45	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*115 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW5S
Prism Sample ID: 3040245-02
Prism Work Order: 3040245
Time Collected: 04/02/13 13:02
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 14:10	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 14:10	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 14:10	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 14:10	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 14:10	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 14:10	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 14:10	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 14:10	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 14:10	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 14:10	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 14:10	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:10	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 14:10	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 14:10	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 14:10	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 14:10	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:10	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 14:10	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 14:10	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 14:10	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 14:10	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 14:10	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 14:10	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:10	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 14:10	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 14:10	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 14:10	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 14:10	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 14:10	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:10	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 14:10	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 14:10	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 14:10	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 14:10	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 14:10	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 14:10	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 14:10	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 14:10	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 14:10	VHL	P3D0182
Tetrachloroethylene	**2.0**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**4/8/13 14:10**	**VHL**	**P3D0182**
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 14:10	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 14:10	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW5S
Prism Sample ID: 3040245-02
Prism Work Order: 3040245
Time Collected: 04/02/13 13:02
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 14:10	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 14:10	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 14:10	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 14:10	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 14:10	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 14:10	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 14:10	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 14:10	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*111 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW11
Prism Sample ID: 3040245-03
Prism Work Order: 3040245
Time Collected: 04/02/13 14:17
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 14:36	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 14:36	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 14:36	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 14:36	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 14:36	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 14:36	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 14:36	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 14:36	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 14:36	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 14:36	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 14:36	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:36	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 14:36	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 14:36	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 14:36	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 14:36	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:36	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 14:36	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 14:36	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 14:36	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 14:36	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 14:36	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 14:36	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:36	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 14:36	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 14:36	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 14:36	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 14:36	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 14:36	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:36	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 14:36	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 14:36	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 14:36	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 14:36	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 14:36	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 14:36	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 14:36	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 14:36	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 14:36	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 14:36	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 14:36	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 14:36	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW11
Prism Sample ID: 3040245-03
Prism Work Order: 3040245
Time Collected: 04/02/13 14:17
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 14:36	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 14:36	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 14:36	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 14:36	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 14:36	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 14:36	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 14:36	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 14:36	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*112 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW12
Prism Sample ID: 3040245-04
Prism Work Order: 3040245
Time Collected: 04/02/13 15:40
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 20:39	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 20:39	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 20:39	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 20:39	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 20:39	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 20:39	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 20:39	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 20:39	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 20:39	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 20:39	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 20:39	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:39	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 20:39	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 20:39	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 20:39	VHL	P3D0182
Benzene	**1.9**	**ug/L**	**0.50**	**0.072**	**1**	**8260B**	**4/8/13 20:39**	**VHL**	**P3D0182**
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:39	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 20:39	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 20:39	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 20:39	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 20:39	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 20:39	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 20:39	VHL	P3D0182
Chloroethane	**1.4**	**ug/L**	**0.50**	**0.13**	**1**	**8260B**	**4/8/13 20:39**	**VHL**	**P3D0182**
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 20:39	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 20:39	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 20:39	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 20:39	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 20:39	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:39	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 20:39	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 20:39	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 20:39	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 20:39	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 20:39	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 20:39	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 20:39	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 20:39	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 20:39	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 20:39	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 20:39	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 20:39	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW12
Prism Sample ID: 3040245-04
Prism Work Order: 3040245
Time Collected: 04/02/13 15:40
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 20:39	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 20:39	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 20:39	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 20:39	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 20:39	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 20:39	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 20:39	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 20:39	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*117 %*	*75-129*
Toluene-d8	*106 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW7S
Prism Sample ID: 3040245-05
Prism Work Order: 3040245
Time Collected: 04/02/13 17:06
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 15:01	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 15:01	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 15:01	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 15:01	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 15:01	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 15:01	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 15:01	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 15:01	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 15:01	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 15:01	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 15:01	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:01	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 15:01	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 15:01	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 15:01	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 15:01	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:01	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 15:01	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 15:01	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 15:01	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 15:01	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 15:01	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 15:01	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:01	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 15:01	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 15:01	VHL	P3D0182
cis-1,2-Dichloroethylene	**2.6**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**4/8/13 15:01**	**VHL**	**P3D0182**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 15:01	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 15:01	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:01	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 15:01	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 15:01	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 15:01	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 15:01	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 15:01	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 15:01	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 15:01	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 15:01	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 15:01	VHL	P3D0182
Tetrachloroethylene	**13**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**4/8/13 15:01**	**VHL**	**P3D0182**
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 15:01	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 15:01	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW7S
Prism Sample ID: 3040245-05
Prism Work Order: 3040245
Time Collected: 04/02/13 17:06
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 15:01	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 15:01	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 15:01	VHL	P3D0182
Trichloroethylene	**0.54**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**4/8/13 15:01**	**VHL**	**P3D0182**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 15:01	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 15:01	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 15:01	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 15:01	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*112 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW9
Prism Sample ID: 3040245-06
Prism Work Order: 3040245
Time Collected: 04/02/13 16:25
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 15:27	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 15:27	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 15:27	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 15:27	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 15:27	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 15:27	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 15:27	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 15:27	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 15:27	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 15:27	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 15:27	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:27	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 15:27	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 15:27	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 15:27	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 15:27	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:27	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 15:27	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 15:27	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 15:27	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 15:27	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 15:27	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 15:27	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:27	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 15:27	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 15:27	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 15:27	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 15:27	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 15:27	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:27	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 15:27	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 15:27	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 15:27	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 15:27	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 15:27	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 15:27	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 15:27	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 15:27	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 15:27	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 15:27	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 15:27	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 15:27	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW9
Prism Sample ID: 3040245-06
Prism Work Order: 3040245
Time Collected: 04/02/13 16:25
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 15:27	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 15:27	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 15:27	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 15:27	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 15:27	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 15:27	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 15:27	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 15:27	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*114 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW10
Prism Sample ID: 3040245-07
Prism Work Order: 3040245
Time Collected: 04/02/13 15:40
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 15:53	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 15:53	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 15:53	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 15:53	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 15:53	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 15:53	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 15:53	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 15:53	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 15:53	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 15:53	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 15:53	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:53	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 15:53	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 15:53	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 15:53	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 15:53	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:53	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 15:53	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 15:53	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 15:53	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 15:53	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 15:53	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 15:53	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:53	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 15:53	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 15:53	VHL	P3D0182
cis-1,2-Dichloroethylene	**2.4**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**4/8/13 15:53**	**VHL**	**P3D0182**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 15:53	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 15:53	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 15:53	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 15:53	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 15:53	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 15:53	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 15:53	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 15:53	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 15:53	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 15:53	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 15:53	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 15:53	VHL	P3D0182
Tetrachloroethylene	**54**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**4/8/13 15:53**	**VHL**	**P3D0182**
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 15:53	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 15:53	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW10
Prism Sample ID: 3040245-07
Prism Work Order: 3040245
Time Collected: 04/02/13 15:40
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 15:53	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 15:53	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 15:53	VHL	P3D0182
Trichloroethylene	**0.92**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**4/8/13 15:53**	**VHL**	**P3D0182**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 15:53	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 15:53	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 15:53	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 15:53	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*116 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW3S
Prism Sample ID: 3040245-08
Prism Work Order: 3040245
Time Collected: 04/02/13 14:55
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 16:18	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 16:18	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 16:18	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 16:18	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 16:18	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 16:18	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 16:18	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 16:18	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 16:18	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 16:18	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 16:18	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 16:18	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 16:18	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 16:18	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 16:18	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 16:18	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 16:18	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 16:18	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 16:18	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 16:18	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 16:18	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 16:18	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 16:18	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 16:18	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 16:18	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 16:18	VHL	P3D0182
cis-1,2-Dichloroethylene	**1.4**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**4/8/13 16:18**	**VHL**	**P3D0182**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 16:18	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 16:18	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 16:18	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 16:18	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 16:18	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 16:18	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 16:18	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 16:18	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 16:18	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 16:18	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 16:18	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 16:18	VHL	P3D0182
Tetrachloroethylene	**2.2**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**4/8/13 16:18**	**VHL**	**P3D0182**
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 16:18	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 16:18	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW3S
Prism Sample ID: 3040245-08
Prism Work Order: 3040245
Time Collected: 04/02/13 14:55
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 16:18	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 16:18	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 16:18	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 16:18	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 16:18	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 16:18	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 16:18	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 16:18	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*117 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW4S
Prism Sample ID: 3040245-09
Prism Work Order: 3040245
Time Collected: 04/02/13 13:55
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 16:44	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 16:44	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 16:44	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 16:44	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 16:44	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 16:44	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 16:44	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 16:44	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 16:44	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 16:44	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 16:44	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 16:44	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 16:44	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 16:44	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 16:44	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 16:44	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 16:44	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 16:44	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 16:44	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 16:44	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 16:44	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 16:44	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 16:44	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 16:44	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 16:44	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 16:44	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 16:44	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 16:44	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 16:44	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 16:44	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 16:44	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 16:44	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 16:44	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 16:44	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 16:44	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 16:44	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 16:44	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 16:44	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 16:44	VHL	P3D0182
Tetrachloroethylene	**1.6**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**4/8/13 16:44**	**VHL**	**P3D0182**
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 16:44	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 16:44	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW4S
Prism Sample ID: 3040245-09
Prism Work Order: 3040245
Time Collected: 04/02/13 13:55
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 16:44	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 16:44	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 16:44	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 16:44	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 16:44	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 16:44	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 16:44	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 16:44	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*111 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW1S
Prism Sample ID: 3040245-10
Prism Work Order: 3040245
Time Collected: 04/02/13 10:05
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 17:11	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 17:11	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 17:11	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 17:11	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 17:11	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 17:11	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 17:11	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 17:11	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 17:11	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 17:11	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 17:11	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 17:11	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 17:11	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 17:11	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 17:11	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 17:11	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 17:11	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 17:11	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 17:11	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 17:11	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 17:11	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 17:11	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 17:11	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 17:11	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 17:11	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 17:11	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 17:11	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 17:11	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 17:11	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 17:11	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 17:11	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 17:11	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 17:11	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 17:11	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 17:11	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 17:11	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 17:11	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 17:11	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 17:11	VHL	P3D0182
Tetrachloroethylene	**0.82**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**4/8/13 17:11**	**VHL**	**P3D0182**
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 17:11	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 17:11	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW1S
Prism Sample ID: 3040245-10
Prism Work Order: 3040245
Time Collected: 04/02/13 10:05
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 17:11	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 17:11	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 17:11	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 17:11	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 17:11	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 17:11	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 17:11	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 17:11	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*99 %*	*80-124*
Dibromofluoromethane	*111 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW2S
Prism Sample ID: 3040245-11
Prism Work Order: 3040245
Time Collected: 04/02/13 17:30
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 17:37	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 17:37	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 17:37	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 17:37	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 17:37	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 17:37	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 17:37	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 17:37	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 17:37	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 17:37	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 17:37	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 17:37	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 17:37	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 17:37	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 17:37	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 17:37	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 17:37	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 17:37	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 17:37	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 17:37	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 17:37	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 17:37	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 17:37	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 17:37	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 17:37	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 17:37	VHL	P3D0182
cis-1,2-Dichloroethylene	**30**	**ug/L**	**0.50**	**0.076**	**1**	**8260B**	**4/8/13 17:37**	**VHL**	**P3D0182**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 17:37	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 17:37	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 17:37	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 17:37	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 17:37	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 17:37	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 17:37	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 17:37	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 17:37	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 17:37	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 17:37	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 17:37	VHL	P3D0182
Tetrachloroethylene	**22**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**4/8/13 17:37**	**VHL**	**P3D0182**
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 17:37	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 17:37	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW2S
Prism Sample ID: 3040245-11
Prism Work Order: 3040245
Time Collected: 04/02/13 17:30
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 17:37	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 17:37	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 17:37	VHL	P3D0182
Trichloroethylene	**4.0**	**ug/L**	**0.50**	**0.054**	**1**	**8260B**	**4/8/13 17:37**	**VHL**	**P3D0182**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 17:37	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 17:37	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 17:37	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 17:37	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*114 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW5D
Prism Sample ID: 3040245-12
Prism Work Order: 3040245
Time Collected: 04/03/13 09:30
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 18:03	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 18:03	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 18:03	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 18:03	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 18:03	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 18:03	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 18:03	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 18:03	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 18:03	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 18:03	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 18:03	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:03	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 18:03	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 18:03	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 18:03	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 18:03	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:03	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 18:03	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 18:03	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 18:03	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 18:03	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 18:03	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 18:03	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:03	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 18:03	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 18:03	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 18:03	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 18:03	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 18:03	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:03	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 18:03	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 18:03	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 18:03	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 18:03	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 18:03	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 18:03	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 18:03	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 18:03	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 18:03	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 18:03	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 18:03	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 18:03	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW5D
Prism Sample ID: 3040245-12
Prism Work Order: 3040245
Time Collected: 04/03/13 09:30
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 18:03	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 18:03	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 18:03	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 18:03	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 18:03	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 18:03	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 18:03	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 18:03	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*114 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW6D
Prism Sample ID: 3040245-13
Prism Work Order: 3040245
Time Collected: 04/03/13 09:10
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 18:29	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 18:29	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 18:29	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 18:29	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 18:29	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 18:29	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 18:29	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 18:29	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 18:29	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 18:29	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 18:29	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:29	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 18:29	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 18:29	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 18:29	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 18:29	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:29	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 18:29	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 18:29	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 18:29	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 18:29	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 18:29	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 18:29	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:29	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 18:29	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 18:29	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 18:29	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 18:29	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 18:29	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:29	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 18:29	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 18:29	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 18:29	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 18:29	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 18:29	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 18:29	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 18:29	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 18:29	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 18:29	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 18:29	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 18:29	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 18:29	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW6D
Prism Sample ID: 3040245-13
Prism Work Order: 3040245
Time Collected: 04/03/13 09:10
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 18:29	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 18:29	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 18:29	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 18:29	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 18:29	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 18:29	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 18:29	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 18:29	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*113 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW7D
Prism Sample ID: 3040245-14
Prism Work Order: 3040245
Time Collected: 04/03/13 08:55
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 18:54	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 18:54	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 18:54	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 18:54	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 18:54	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 18:54	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 18:54	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 18:54	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 18:54	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 18:54	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 18:54	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:54	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 18:54	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 18:54	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 18:54	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 18:54	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:54	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 18:54	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 18:54	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 18:54	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 18:54	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 18:54	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 18:54	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:54	VHL	P3D0182
Chloroform	**1.7**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**4/8/13 18:54**	**VHL**	**P3D0182**
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 18:54	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 18:54	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 18:54	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 18:54	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 18:54	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 18:54	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 18:54	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 18:54	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 18:54	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 18:54	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 18:54	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 18:54	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 18:54	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 18:54	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 18:54	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 18:54	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 18:54	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW7D
Prism Sample ID: 3040245-14
Prism Work Order: 3040245
Time Collected: 04/03/13 08:55
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 18:54	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 18:54	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 18:54	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 18:54	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 18:54	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 18:54	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 18:54	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 18:54	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*116 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW8D
Prism Sample ID: 3040245-15
Prism Work Order: 3040245
Time Collected: 04/03/13 08:40
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 19:20	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 19:20	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 19:20	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 19:20	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 19:20	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 19:20	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 19:20	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 19:20	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 19:20	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 19:20	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 19:20	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 19:20	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 19:20	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 19:20	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 19:20	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 19:20	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 19:20	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 19:20	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 19:20	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 19:20	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 19:20	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 19:20	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 19:20	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 19:20	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 19:20	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 19:20	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 19:20	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 19:20	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 19:20	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 19:20	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 19:20	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 19:20	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 19:20	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 19:20	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 19:20	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 19:20	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 19:20	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 19:20	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 19:20	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 19:20	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 19:20	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 19:20	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW8D
Prism Sample ID: 3040245-15
Prism Work Order: 3040245
Time Collected: 04/03/13 08:40
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 19:20	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 19:20	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 19:20	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 19:20	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 19:20	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 19:20	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 19:20	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 19:20	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*113 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW1D
Prism Sample ID: 3040245-16
Prism Work Order: 3040245
Time Collected: 04/03/13 10:44
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 19:46	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 19:46	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 19:46	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 19:46	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 19:46	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 19:46	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 19:46	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 19:46	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 19:46	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 19:46	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 19:46	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 19:46	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 19:46	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 19:46	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 19:46	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 19:46	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 19:46	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 19:46	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 19:46	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 19:46	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 19:46	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 19:46	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 19:46	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 19:46	VHL	P3D0182
Chloroform	**1.7**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**4/8/13 19:46**	**VHL**	**P3D0182**
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 19:46	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 19:46	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 19:46	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 19:46	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 19:46	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 19:46	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 19:46	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 19:46	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 19:46	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 19:46	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 19:46	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 19:46	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 19:46	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 19:46	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 19:46	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 19:46	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 19:46	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW1D
Prism Sample ID: 3040245-16
Prism Work Order: 3040245
Time Collected: 04/03/13 10:44
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 19:46	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 19:46	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 19:46	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 19:46	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 19:46	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 19:46	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 19:46	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 19:46	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*114 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW2D
Prism Sample ID: 3040245-17
Prism Work Order: 3040245
Time Collected: 04/03/13 09:54
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 20:12	VHL	P3D0182
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 20:12	VHL	P3D0182
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 20:12	VHL	P3D0182
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 20:12	VHL	P3D0182
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 20:12	VHL	P3D0182
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 20:12	VHL	P3D0182
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 20:12	VHL	P3D0182
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 20:12	VHL	P3D0182
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 20:12	VHL	P3D0182
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 20:12	VHL	P3D0182
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 20:12	VHL	P3D0182
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:12	VHL	P3D0182
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 20:12	VHL	P3D0182
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 20:12	VHL	P3D0182
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 20:12	VHL	P3D0182
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 20:12	VHL	P3D0182
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:12	VHL	P3D0182
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 20:12	VHL	P3D0182
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 20:12	VHL	P3D0182
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 20:12	VHL	P3D0182
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 20:12	VHL	P3D0182
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 20:12	VHL	P3D0182
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 20:12	VHL	P3D0182
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:12	VHL	P3D0182
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 20:12	VHL	P3D0182
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 20:12	VHL	P3D0182
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 20:12	VHL	P3D0182
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 20:12	VHL	P3D0182
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 20:12	VHL	P3D0182
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:12	VHL	P3D0182
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 20:12	VHL	P3D0182
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 20:12	VHL	P3D0182
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 20:12	VHL	P3D0182
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 20:12	VHL	P3D0182
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 20:12	VHL	P3D0182
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 20:12	VHL	P3D0182
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 20:12	VHL	P3D0182
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 20:12	VHL	P3D0182
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 20:12	VHL	P3D0182
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 20:12	VHL	P3D0182
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 20:12	VHL	P3D0182
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 20:12	VHL	P3D0182

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW2D
Prism Sample ID: 3040245-17
Prism Work Order: 3040245
Time Collected: 04/03/13 09:54
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 20:12	VHL	P3D0182
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 20:12	VHL	P3D0182
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 20:12	VHL	P3D0182
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 20:12	VHL	P3D0182
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 20:12	VHL	P3D0182
Vinyl acetate	BRL CCV	ug/L	2.0	0.10	1	8260B	4/8/13 20:12	VHL	P3D0182
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 20:12	VHL	P3D0182
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 20:12	VHL	P3D0182

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*115 %*	*75-129*
Toluene-d8	*105 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW3D
Prism Sample ID: 3040245-18
Prism Work Order: 3040245
Time Collected: 04/03/13 10:14
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/9/13 2:28	VHL	P3D0181
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/9/13 2:28	VHL	P3D0181
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/9/13 2:28	VHL	P3D0181
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/9/13 2:28	VHL	P3D0181
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/9/13 2:28	VHL	P3D0181
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/9/13 2:28	VHL	P3D0181
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/9/13 2:28	VHL	P3D0181
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/9/13 2:28	VHL	P3D0181
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/9/13 2:28	VHL	P3D0181
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/9/13 2:28	VHL	P3D0181
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/9/13 2:28	VHL	P3D0181
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/9/13 2:28	VHL	P3D0181
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/9/13 2:28	VHL	P3D0181
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/9/13 2:28	VHL	P3D0181
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/9/13 2:28	VHL	P3D0181
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/9/13 2:28	VHL	P3D0181
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/9/13 2:28	VHL	P3D0181
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/9/13 2:28	VHL	P3D0181
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/9/13 2:28	VHL	P3D0181
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/9/13 2:28	VHL	P3D0181
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/9/13 2:28	VHL	P3D0181
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/9/13 2:28	VHL	P3D0181
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/9/13 2:28	VHL	P3D0181
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/9/13 2:28	VHL	P3D0181
Chloroform	**1.0**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**4/9/13 2:28**	**VHL**	**P3D0181**
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/9/13 2:28	VHL	P3D0181
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/9/13 2:28	VHL	P3D0181
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/9/13 2:28	VHL	P3D0181
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/9/13 2:28	VHL	P3D0181
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/9/13 2:28	VHL	P3D0181
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/9/13 2:28	VHL	P3D0181
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/9/13 2:28	VHL	P3D0181
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/9/13 2:28	VHL	P3D0181
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/9/13 2:28	VHL	P3D0181
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/9/13 2:28	VHL	P3D0181
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/9/13 2:28	VHL	P3D0181
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/9/13 2:28	VHL	P3D0181
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/9/13 2:28	VHL	P3D0181
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/9/13 2:28	VHL	P3D0181
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/9/13 2:28	VHL	P3D0181
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/9/13 2:28	VHL	P3D0181
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/9/13 2:28	VHL	P3D0181

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW3D
Prism Sample ID: 3040245-18
Prism Work Order: 3040245
Time Collected: 04/03/13 10:14
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/9/13 2:28	VHL	P3D0181
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/9/13 2:28	VHL	P3D0181
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/9/13 2:28	VHL	P3D0181
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/9/13 2:28	VHL	P3D0181
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/9/13 2:28	VHL	P3D0181
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	4/9/13 2:28	VHL	P3D0181
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/9/13 2:28	VHL	P3D0181
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/9/13 2:28	VHL	P3D0181

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*112 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW4D
Prism Sample ID: 3040245-19
Prism Work Order: 3040245
Time Collected: 04/03/13 10:30
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/9/13 2:59	VHL	P3D0181
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/9/13 2:59	VHL	P3D0181
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/9/13 2:59	VHL	P3D0181
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/9/13 2:59	VHL	P3D0181
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/9/13 2:59	VHL	P3D0181
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/9/13 2:59	VHL	P3D0181
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/9/13 2:59	VHL	P3D0181
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/9/13 2:59	VHL	P3D0181
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/9/13 2:59	VHL	P3D0181
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/9/13 2:59	VHL	P3D0181
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/9/13 2:59	VHL	P3D0181
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/9/13 2:59	VHL	P3D0181
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/9/13 2:59	VHL	P3D0181
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/9/13 2:59	VHL	P3D0181
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/9/13 2:59	VHL	P3D0181
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/9/13 2:59	VHL	P3D0181
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/9/13 2:59	VHL	P3D0181
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/9/13 2:59	VHL	P3D0181
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/9/13 2:59	VHL	P3D0181
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/9/13 2:59	VHL	P3D0181
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/9/13 2:59	VHL	P3D0181
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/9/13 2:59	VHL	P3D0181
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/9/13 2:59	VHL	P3D0181
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/9/13 2:59	VHL	P3D0181
Chloroform	**1.2**	**ug/L**	**0.50**	**0.089**	**1**	**8260B**	**4/9/13 2:59**	**VHL**	**P3D0181**
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/9/13 2:59	VHL	P3D0181
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/9/13 2:59	VHL	P3D0181
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/9/13 2:59	VHL	P3D0181
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/9/13 2:59	VHL	P3D0181
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/9/13 2:59	VHL	P3D0181
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/9/13 2:59	VHL	P3D0181
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/9/13 2:59	VHL	P3D0181
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/9/13 2:59	VHL	P3D0181
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/9/13 2:59	VHL	P3D0181
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/9/13 2:59	VHL	P3D0181
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/9/13 2:59	VHL	P3D0181
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/9/13 2:59	VHL	P3D0181
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/9/13 2:59	VHL	P3D0181
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/9/13 2:59	VHL	P3D0181
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/9/13 2:59	VHL	P3D0181
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/9/13 2:59	VHL	P3D0181
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/9/13 2:59	VHL	P3D0181

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-GW4D
Prism Sample ID: 3040245-19
Prism Work Order: 3040245
Time Collected: 04/03/13 10:30
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/9/13 2:59	VHL	P3D0181
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/9/13 2:59	VHL	P3D0181
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/9/13 2:59	VHL	P3D0181
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/9/13 2:59	VHL	P3D0181
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/9/13 2:59	VHL	P3D0181
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	4/9/13 2:59	VHL	P3D0181
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/9/13 2:59	VHL	P3D0181
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/9/13 2:59	VHL	P3D0181

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*80-124*
Dibromofluoromethane	*111 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: Trip Blank 01
Prism Sample ID: 3040245-20
Prism Work Order: 3040245
Time Collected: 04/03/13 00:00
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 14:15	VHL	P3D0181
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 14:15	VHL	P3D0181
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 14:15	VHL	P3D0181
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 14:15	VHL	P3D0181
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 14:15	VHL	P3D0181
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 14:15	VHL	P3D0181
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 14:15	VHL	P3D0181
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 14:15	VHL	P3D0181
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 14:15	VHL	P3D0181
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 14:15	VHL	P3D0181
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 14:15	VHL	P3D0181
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:15	VHL	P3D0181
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 14:15	VHL	P3D0181
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 14:15	VHL	P3D0181
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 14:15	VHL	P3D0181
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 14:15	VHL	P3D0181
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:15	VHL	P3D0181
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 14:15	VHL	P3D0181
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 14:15	VHL	P3D0181
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 14:15	VHL	P3D0181
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 14:15	VHL	P3D0181
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 14:15	VHL	P3D0181
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 14:15	VHL	P3D0181
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:15	VHL	P3D0181
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 14:15	VHL	P3D0181
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 14:15	VHL	P3D0181
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 14:15	VHL	P3D0181
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 14:15	VHL	P3D0181
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 14:15	VHL	P3D0181
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:15	VHL	P3D0181
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 14:15	VHL	P3D0181
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 14:15	VHL	P3D0181
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 14:15	VHL	P3D0181
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 14:15	VHL	P3D0181
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 14:15	VHL	P3D0181
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 14:15	VHL	P3D0181
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 14:15	VHL	P3D0181
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 14:15	VHL	P3D0181
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 14:15	VHL	P3D0181
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 14:15	VHL	P3D0181
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 14:15	VHL	P3D0181
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 14:15	VHL	P3D0181

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: Trip Blank 01
Prism Sample ID: 3040245-20
Prism Work Order: 3040245
Time Collected: 04/03/13 00:00
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 14:15	VHL	P3D0181
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 14:15	VHL	P3D0181
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 14:15	VHL	P3D0181
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 14:15	VHL	P3D0181
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 14:15	VHL	P3D0181
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	4/8/13 14:15	VHL	P3D0181
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 14:15	VHL	P3D0181
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 14:15	VHL	P3D0181

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-EB01
Prism Sample ID: 3040245-21
Prism Work Order: 3040245
Time Collected: 04/03/13 13:20
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Arsenic	BRL	ug/L	1.0	0.37	1	6020A	4/11/13 16:33	LTB	P3D0150
Barium	**1.8 J**	**ug/L**	**5.2**	**0.15**	**1**	**6020A**	**4/10/13 16:56**	**LTB**	**P3D0150**
Cadmium	BRL	ug/L	1.0	0.039	1	6020A	4/10/13 16:56	LTB	P3D0150
Chromium	**1.4 B**	**ug/L**	**1.0**	**0.084**	**1**	**6020A**	**4/10/13 16:56**	**LTB**	**P3D0150**
Lead	BRL	ug/L	1.0	0.15	1	6020A	4/10/13 16:56	LTB	P3D0150
Selenium	**0.52 J**	**ug/L**	**1.0**	**0.19**	**1**	**6020A**	**4/11/13 16:33**	**LTB**	**P3D0150**
Silver	BRL	ug/L	1.0	0.022	1	6020A	4/10/13 16:56	LTB	P3D0150
Total Metals									
Mercury	BRL	ug/L	0.20	0.041	1	7470A	4/10/13 12:56	MEH	P3D0207
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 14:47	VHL	P3D0181
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 14:47	VHL	P3D0181
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 14:47	VHL	P3D0181
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 14:47	VHL	P3D0181
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 14:47	VHL	P3D0181
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 14:47	VHL	P3D0181
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 14:47	VHL	P3D0181
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 14:47	VHL	P3D0181
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 14:47	VHL	P3D0181
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 14:47	VHL	P3D0181
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 14:47	VHL	P3D0181
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:47	VHL	P3D0181
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 14:47	VHL	P3D0181
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 14:47	VHL	P3D0181
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 14:47	VHL	P3D0181
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 14:47	VHL	P3D0181
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:47	VHL	P3D0181
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 14:47	VHL	P3D0181
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 14:47	VHL	P3D0181
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 14:47	VHL	P3D0181
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 14:47	VHL	P3D0181
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 14:47	VHL	P3D0181
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 14:47	VHL	P3D0181
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:47	VHL	P3D0181
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 14:47	VHL	P3D0181
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 14:47	VHL	P3D0181
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 14:47	VHL	P3D0181
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 14:47	VHL	P3D0181
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 14:47	VHL	P3D0181
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 14:47	VHL	P3D0181
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 14:47	VHL	P3D0181

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-EB01
Prism Sample ID: 3040245-21
Prism Work Order: 3040245
Time Collected: 04/03/13 13:20
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 14:47	VHL	P3D0181
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 14:47	VHL	P3D0181
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 14:47	VHL	P3D0181
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 14:47	VHL	P3D0181
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 14:47	VHL	P3D0181
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 14:47	VHL	P3D0181
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 14:47	VHL	P3D0181
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 14:47	VHL	P3D0181
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	8260B	4/8/13 14:47	VHL	P3D0181
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 14:47	VHL	P3D0181
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 14:47	VHL	P3D0181
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 14:47	VHL	P3D0181
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 14:47	VHL	P3D0181
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 14:47	VHL	P3D0181
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 14:47	VHL	P3D0181
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 14:47	VHL	P3D0181
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	4/8/13 14:47	VHL	P3D0181
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 14:47	VHL	P3D0181
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 14:47	VHL	P3D0181

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

04/19/2013

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-MW8
Prism Sample ID: 3040245-32
Prism Work Order: 3040245
Time Collected: 04/03/13 10:05
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
3030C Metals									
Arsenic	BRL	ug/L	1.0	0.37	1	6020A	4/11/13 15:41	LTB	P3D0150
Barium	**61**	**ug/L**	**5.2**	**0.15**	**1**	**6020A**	**4/10/13 16:06**	**LTB**	**P3D0150**
Cadmium	**0.12 J**	**ug/L**	**1.0**	**0.039**	**1**	**6020A**	**4/10/13 16:06**	**LTB**	**P3D0150**
Chromium	**1.2 B**	**ug/L**	**1.0**	**0.084**	**1**	**6020A**	**4/10/13 16:06**	**LTB**	**P3D0150**
Lead	**0.94 J**	**ug/L**	**1.0**	**0.15**	**1**	**6020A**	**4/10/13 16:06**	**LTB**	**P3D0150**
Selenium	**0.33 J**	**ug/L**	**1.0**	**0.19**	**1**	**6020A**	**4/11/13 15:41**	**LTB**	**P3D0150**
Silver	BRL	ug/L	1.0	0.022	1	6020A	4/10/13 16:06	LTB	P3D0150
Total Metals									
Mercury	BRL	ug/L	0.20	0.041	1	7470A	4/10/13 13:54	MEH	P3D0207
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	8260B	4/8/13 20:38	VHL	P3D0181
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	8260B	4/8/13 20:38	VHL	P3D0181
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	8260B	4/8/13 20:38	VHL	P3D0181
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	8260B	4/8/13 20:38	VHL	P3D0181
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	8260B	4/8/13 20:38	VHL	P3D0181
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	4/8/13 20:38	VHL	P3D0181
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 20:38	VHL	P3D0181
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	8260B	4/8/13 20:38	VHL	P3D0181
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 20:38	VHL	P3D0181
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 20:38	VHL	P3D0181
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	8260B	4/8/13 20:38	VHL	P3D0181
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:38	VHL	P3D0181
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	8260B	4/8/13 20:38	VHL	P3D0181
Acetone	BRL	ug/L	5.0	0.62	1	8260B	4/8/13 20:38	VHL	P3D0181
Acrylonitrile	BRL	ug/L	20	0.86	1	8260B	4/8/13 20:38	VHL	P3D0181
Benzene	BRL	ug/L	0.50	0.072	1	8260B	4/8/13 20:38	VHL	P3D0181
Bromochloromethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:38	VHL	P3D0181
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	4/8/13 20:38	VHL	P3D0181
Bromoform	BRL	ug/L	1.0	0.27	1	8260B	4/8/13 20:38	VHL	P3D0181
Bromomethane	BRL	ug/L	1.0	0.47	1	8260B	4/8/13 20:38	VHL	P3D0181
Carbon disulfide	BRL	ug/L	5.0	1.4	1	8260B	4/8/13 20:38	VHL	P3D0181
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 20:38	VHL	P3D0181
Chlorobenzene	BRL	ug/L	0.50	0.061	1	8260B	4/8/13 20:38	VHL	P3D0181
Chloroethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:38	VHL	P3D0181
Chloroform	BRL	ug/L	0.50	0.089	1	8260B	4/8/13 20:38	VHL	P3D0181
Chloromethane	BRL	ug/L	0.50	0.11	1	8260B	4/8/13 20:38	VHL	P3D0181
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	8260B	4/8/13 20:38	VHL	P3D0181
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	8260B	4/8/13 20:38	VHL	P3D0181
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	8260B	4/8/13 20:38	VHL	P3D0181
Dibromomethane	BRL	ug/L	0.50	0.13	1	8260B	4/8/13 20:38	VHL	P3D0181
Ethylbenzene	BRL	ug/L	0.50	0.067	1	8260B	4/8/13 20:38	VHL	P3D0181

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No.: 43-04
Sample Matrix: Water

Client Sample ID: 4304-MW8
Prism Sample ID: 3040245-32
Prism Work Order: 3040245
Time Collected: 04/03/13 10:05
Time Submitted: 04/05/13 17:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	8260B	4/8/13 20:38	VHL	P3D0181
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	8260B	4/8/13 20:38	VHL	P3D0181
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	8260B	4/8/13 20:38	VHL	P3D0181
Methyl Iodide	BRL	ug/L	5.0	0.45	1	8260B	4/8/13 20:38	VHL	P3D0181
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	8260B	4/8/13 20:38	VHL	P3D0181
Methylene Chloride	BRL	ug/L	1.0	0.44	1	8260B	4/8/13 20:38	VHL	P3D0181
o-Xylene	BRL	ug/L	0.50	0.046	1	8260B	4/8/13 20:38	VHL	P3D0181
Styrene	BRL	ug/L	0.50	0.047	1	8260B	4/8/13 20:38	VHL	P3D0181
Tetrachloroethylene	**3.6**	**ug/L**	**0.50**	**0.069**	**1**	**8260B**	**4/8/13 20:38**	**VHL**	**P3D0181**
Tetrahydrofuran	BRL	ug/L	10	1.5	1	8260B	4/8/13 20:38	VHL	P3D0181
Toluene	BRL	ug/L	0.50	0.042	1	8260B	4/8/13 20:38	VHL	P3D0181
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	8260B	4/8/13 20:38	VHL	P3D0181
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	8260B	4/8/13 20:38	VHL	P3D0181
trans-1,4-Dichloro-2-butene	BRL	ug/L	10	0.51	1	8260B	4/8/13 20:38	VHL	P3D0181
Trichloroethylene	BRL	ug/L	0.50	0.054	1	8260B	4/8/13 20:38	VHL	P3D0181
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	8260B	4/8/13 20:38	VHL	P3D0181
Vinyl acetate	BRL	ug/L	2.0	0.10	1	8260B	4/8/13 20:38	VHL	P3D0181
Vinyl chloride	BRL	ug/L	0.50	0.16	1	8260B	4/8/13 20:38	VHL	P3D0181
Xylenes, total	BRL	ug/L	3.0	0.13	1	8260B	4/8/13 20:38	VHL	P3D0181

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*111 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0181 - 5030B										
Blank (P3D0181-BLK1)				Prepared & Analyzed: 04/08/13						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Iodide	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Tetrahydrofuran	BRL	10	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
trans-1,4-Dichloro-2-butene	BRL	10	ug/L							
Trichloroethylene	BRL	0.50	ug/L							

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0181 - 5030B										
Blank (P3D0181-BLK1)				Prepared & Analyzed: 04/08/13						
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*25.4*		*ug/L*	*25.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*25.6*		*ug/L*	*25.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*25.4*		*ug/L*	*25.00*		*102*	*77-123*			
LCS (P3D0181-BS1)				Prepared & Analyzed: 04/08/13						
1,1-Dichloroethylene	20.4	0.50	ug/L	20.00		102	70-154			
Benzene	20.7	0.50	ug/L	20.00		103	77-128			
Chlorobenzene	20.5	0.50	ug/L	20.00		102	78-119			
Tetrahydrofuran	19.0	10	ug/L	20.00		95	70-130			
Toluene	21.1	0.50	ug/L	20.00		106	76-131			
Trichloroethylene	19.5	0.50	ug/L	20.00		97	77-133			
Surrogate: 4-Bromofluorobenzene	*25.0*		*ug/L*	*25.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/L*	*25.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*25.1*		*ug/L*	*25.00*		*101*	*77-123*			
LCS Dup (P3D0181-BSD1)				Prepared & Analyzed: 04/08/13						
1,1-Dichloroethylene	21.5	0.50	ug/L	20.00		108	70-154	5	20	
Benzene	21.6	0.50	ug/L	20.00		108	77-128	4	20	
Chlorobenzene	21.0	0.50	ug/L	20.00		105	78-119	2	20	
Tetrahydrofuran	20.1	10	ug/L	20.00		101	70-130	6	20	
Toluene	21.9	0.50	ug/L	20.00		109	76-131	4	20	
Trichloroethylene	20.6	0.50	ug/L	20.00		103	77-133	5	20	
Surrogate: 4-Bromofluorobenzene	*24.5*		*ug/L*	*25.00*		*98*	*80-124*			
Surrogate: Dibromofluoromethane	*24.9*		*ug/L*	*25.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*24.9*		*ug/L*	*25.00*		*100*	*77-123*			

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0181 - 5030B										
Matrix Spike (P3D0181-MS1)	**Source: 3040245-22**			Prepared: 04/08/13	Analyzed: 04/09/13					
1,1-Dichloroethylene	223	5.0	ug/L	200.0	BRL	112	65-162			
Benzene	224	5.0	ug/L	200.0	BRL	112	73-131			
Chlorobenzene	215	5.0	ug/L	200.0	BRL	107	76-119			
Tetrahydrofuran	184	100	ug/L	200.0	BRL	92	70-130			
Toluene	229	5.0	ug/L	200.0	BRL	114	72-135			
Trichloroethylene	194	5.0	ug/L	200.0	BRL	97	72-133			
Surrogate: 4-Bromofluorobenzene	*236*		*ug/L*	*250.0*		*94*	*80-124*			
Surrogate: Dibromofluoromethane	*270*		*ug/L*	*250.0*		*108*	*75-129*			
Surrogate: Toluene-d8	*251*		*ug/L*	*250.0*		*100*	*77-123*			
Matrix Spike Dup (P3D0181-MSD1)	**Source: 3040245-22**			Prepared: 04/08/13	Analyzed: 04/09/13					
1,1-Dichloroethylene	217	5.0	ug/L	200.0	BRL	108	65-162	3	20	
Benzene	218	5.0	ug/L	200.0	BRL	109	73-131	3	17	
Chlorobenzene	208	5.0	ug/L	200.0	BRL	104	76-119	3	20	
Tetrahydrofuran	178	100	ug/L	200.0	BRL	89	70-130	3	20	
Toluene	218	5.0	ug/L	200.0	BRL	109	72-135	5	18	
Trichloroethylene	193	5.0	ug/L	200.0	BRL	96	72-133	0.8	17	
Surrogate: 4-Bromofluorobenzene	*239*		*ug/L*	*250.0*		*96*	*80-124*			
Surrogate: Dibromofluoromethane	*263*		*ug/L*	*250.0*		*105*	*75-129*			
Surrogate: Toluene-d8	*250*		*ug/L*	*250.0*		*100*	*77-123*			
Batch P3D0182 - 5030B										
Blank (P3D0182-BLK1)				Prepared & Analyzed: 04/08/13						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0182 - 5030B										
Blank (P3D0182-BLK1)				Prepared & Analyzed: 04/08/13						
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Iodide	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Tetrahydrofuran	BRL	10	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
trans-1,4-Dichloro-2-butene	BRL	10	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.0*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*56.2*		*ug/L*	*50.00*		*112*	*75-129*			
Surrogate: Toluene-d8	*51.7*		*ug/L*	*50.00*		*103*	*77-123*			

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0182 - 5030B										
LCS (P3D0182-BS1)				Prepared & Analyzed: 04/08/13						
1,1-Dichloroethylene	18.2	0.50	ug/L	20.00		91	70-154			
Benzene	20.7	0.50	ug/L	20.00		104	77-128			
Chlorobenzene	19.0	0.50	ug/L	20.00		95	78-119			
Tetrahydrofuran	17.9	10	ug/L	20.00		90	70-130			
Toluene	20.5	0.50	ug/L	20.00		103	76-131			
Trichloroethylene	18.0	0.50	ug/L	20.00		90	77-133			
Surrogate: 4-Bromofluorobenzene	*47.0*		*ug/L*	*50.00*		*94*	*80-124*			
Surrogate: Dibromofluoromethane	*56.3*		*ug/L*	*50.00*		*113*	*75-129*			
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50.00*		*102*	*77-123*			
LCS Dup (P3D0182-BSD1)				Prepared & Analyzed: 04/08/13						
1,1-Dichloroethylene	18.7	0.50	ug/L	20.00		93	70-154	3	20	
Benzene	19.1	0.50	ug/L	20.00		95	77-128	8	20	
Chlorobenzene	19.7	0.50	ug/L	20.00		99	78-119	4	20	
Tetrahydrofuran	20.0	10	ug/L	20.00		100	70-130	11	20	
Toluene	19.0	0.50	ug/L	20.00		95	76-131	8	20	
Trichloroethylene	18.3	0.50	ug/L	20.00		92	77-133	2	20	
Surrogate: 4-Bromofluorobenzene	*49.6*		*ug/L*	*50.00*		*99*	*80-124*			
Surrogate: Dibromofluoromethane	*56.4*		*ug/L*	*50.00*		*113*	*75-129*			
Surrogate: Toluene-d8	*51.8*		*ug/L*	*50.00*		*104*	*77-123*			
Matrix Spike (P3D0182-MS1)		**Source: 3040245-01**		Prepared & Analyzed: 04/08/13						
1,1-Dichloroethylene	180	5.0	ug/L	200.0	BRL	90	65-162			
Benzene	183	5.0	ug/L	200.0	BRL	92	73-131			
Chlorobenzene	185	5.0	ug/L	200.0	BRL	93	76-119			
Tetrahydrofuran	196	100	ug/L	200.0	BRL	98	70-130			
Toluene	181	5.0	ug/L	200.0	BRL	91	72-135			
Trichloroethylene	170	5.0	ug/L	200.0	BRL	85	72-133			
Surrogate: 4-Bromofluorobenzene	*485*		*ug/L*	*500.0*		*97*	*80-124*			
Surrogate: Dibromofluoromethane	*567*		*ug/L*	*500.0*		*113*	*75-129*			
Surrogate: Toluene-d8	*517*		*ug/L*	*500.0*		*103*	*77-123*			

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0182 - 5030B										
Matrix Spike Dup (P3D0182-MSD1)		**Source: 3040245-01**		Prepared & Analyzed: 04/08/13						
1,1-Dichloroethylene	190	5.0	ug/L	200.0	BRL	95	65-162	6	20	
Benzene	188	5.0	ug/L	200.0	BRL	94	73-131	3	17	
Chlorobenzene	191	5.0	ug/L	200.0	BRL	95	76-119	3	20	
Tetrahydrofuran	200	100	ug/L	200.0	BRL	100	70-130	2	20	
Toluene	187	5.0	ug/L	200.0	BRL	94	72-135	3	18	
Trichloroethylene	180	5.0	ug/L	200.0	BRL	90	72-133	6	17	
Surrogate: 4-Bromofluorobenzene	*476*		*ug/L*	*500.0*		*95*	*80-124*			
Surrogate: Dibromofluoromethane	*561*		*ug/L*	*500.0*		*112*	*75-129*			
Surrogate: Toluene-d8	*505*		*ug/L*	*500.0*		*101*	*77-123*			
Batch P3D0186 - 5030B										
Blank (P3D0186-BLK1)				Prepared & Analyzed: 04/08/13						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0186 - 5030B										
Blank (P3D0186-BLK1)				Prepared & Analyzed: 04/08/13						
Methyl Iodide	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
o-Xylene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Tetrahydrofuran	BRL	10	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
trans-1,4-Dichloro-2-butene	BRL	10	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*59.3*		*ug/L*	*50.00*		*119*	*80-124*			
Surrogate: Dibromofluoromethane	*53.9*		*ug/L*	*50.00*		*108*	*75-129*			
Surrogate: Toluene-d8	*57.0*		*ug/L*	*50.00*		*114*	*77-123*			
LCS (P3D0186-BS1)				Prepared & Analyzed: 04/08/13						
1,1-Dichloroethylene	19.7	0.50	ug/L	20.00		99	70-154			
Benzene	20.6	0.50	ug/L	20.00		103	77-128			
Chlorobenzene	21.0	0.50	ug/L	20.00		105	78-119			
Tetrahydrofuran	17.2	10	ug/L	20.00		86	70-130			
Toluene	20.8	0.50	ug/L	20.00		104	76-131			
Trichloroethylene	18.9	0.50	ug/L	20.00		95	77-133			
Surrogate: 4-Bromofluorobenzene	*58.2*		*ug/L*	*50.00*		*116*	*80-124*			
Surrogate: Dibromofluoromethane	*54.7*		*ug/L*	*50.00*		*109*	*75-129*			
Surrogate: Toluene-d8	*57.1*		*ug/L*	*50.00*		*114*	*77-123*			

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0186 - 5030B										
LCS Dup (P3D0186-BSD1)				Prepared & Analyzed: 04/08/13						
1,1-Dichloroethylene	20.0	0.50	ug/L	20.00		100	70-154	2	20	
Benzene	21.1	0.50	ug/L	20.00		105	77-128	2	20	
Chlorobenzene	21.5	0.50	ug/L	20.00		107	78-119	2	20	
Tetrahydrofuran	17.4	10	ug/L	20.00		87	70-130	1	20	
Toluene	21.4	0.50	ug/L	20.00		107	76-131	3	20	
Trichloroethylene	19.5	0.50	ug/L	20.00		98	77-133	3	20	
Surrogate: 4-Bromofluorobenzene	*59.5*		*ug/L*	*50.00*		*119*	*80-124*			
Surrogate: Dibromofluoromethane	*54.2*		*ug/L*	*50.00*		*108*	*75-129*			
Surrogate: Toluene-d8	*57.5*		*ug/L*	*50.00*		*115*	*77-123*			

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0207 - 7470A										
Blank (P3D0207-BLK1)				Prepared: 04/09/13		Analyzed: 04/10/13				
Mercury	BRL	0.20	ug/L							
LCS (P3D0207-BS1)				Prepared: 04/09/13		Analyzed: 04/10/13				
Mercury	10.3	0.20	ug/L	9.375		110	80-120			
Matrix Spike (P3D0207-MS1)		**Source: 3040245-21**		Prepared: 04/09/13		Analyzed: 04/10/13				
Mercury	10.2	0.20	ug/L	9.375	BRL	108	80-120			
Matrix Spike Dup (P3D0207-MSD1)		**Source: 3040245-21**		Prepared: 04/09/13		Analyzed: 04/10/13				
Mercury	10.1	0.20	ug/L	9.375	BRL	107	80-120	1	20	

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Nautilus Geologic Consulting, PLLC
Attn: Brian S. Boutin
11112 Branding Iron Place
Wendell, NC 27591

Project: Central Carolina Tire

Project No: 43-04

Prism Work Order: 3040245
Time Submitted: 4/5/2013 5:35:00PM

3030C Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3D0150 - SM3030 C										
Blank (P3D0150-BLK1)				Prepared: 04/05/13	Analyzed: 04/11/13					
Arsenic	BRL	1.0	ug/L							
Barium	0.174	5.2	ug/L							J
Cadmium	BRL	1.0	ug/L							
Chromium	1.32	1.0	ug/L							B
Lead	BRL	1.0	ug/L							
Selenium	BRL	1.0	ug/L							
Silver	BRL	1.0	ug/L							
LCS (P3D0150-BS1)				Prepared: 04/05/13	Analyzed: 04/11/13					
Arsenic	250	1.0	ug/L	250.0		100	80-120			
Barium	244	5.2	ug/L	250.0		98	80-120			
Cadmium	248	1.0	ug/L	250.0		99	80-120			
Chromium	243	1.0	ug/L	250.0		97	80-120			B
Lead	242	1.0	ug/L	250.0		97	80-120			
Selenium	245	1.0	ug/L	250.0		98	80-120			
Silver	248	1.0	ug/L	250.0		99	80-120			
Matrix Spike (P3D0150-MS1)	**Source: 3040245-26**			Prepared: 04/05/13	Analyzed: 04/11/13					
Arsenic	252	1.1	ug/L	250.0	BRL	101	75-125			
Barium	370	5.3	ug/L	250.0	131	95	75-125			
Cadmium	244	1.1	ug/L	250.0	0.166	98	75-125			
Chromium	232	1.1	ug/L	250.0	1.23	92	75-125			B
Lead	245	1.1	ug/L	250.0	1.45	97	75-125			
Selenium	241	1.1	ug/L	250.0	0.510	96	75-125			
Silver	224	1.1	ug/L	250.0	0.0407	90	75-125			
Matrix Spike Dup (P3D0150-MSD1)	**Source: 3040245-26**			Prepared: 04/05/13	Analyzed: 04/11/13					
Arsenic	251	1.0	ug/L	250.0	BRL	100	75-125	0.3	20	
Barium	369	5.2	ug/L	250.0	131	95	75-125	0.1	20	
Cadmium	242	1.0	ug/L	250.0	0.166	97	75-125	0.7	20	
Chromium	233	1.0	ug/L	250.0	1.23	93	75-125	0.6	20	B
Lead	245	1.0	ug/L	250.0	1.45	97	75-125	0.08	20	
Selenium	247	1.0	ug/L	250.0	0.510	99	75-125	2	20	
Silver	224	1.0	ug/L	250.0	0.0407	89	75-125	0.2	20	

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Sample Extraction Data

Prep Method: SM3030 C

Lab Number	Batch	Initial	Final	Date/Time
3040245-21	P3D0150	50 mL	51.74 mL	04/05/13 18:17
3040245-21	P3D0150	50 mL	51.74 mL	04/05/13 18:17
3040245-22	P3D0150	50 mL	52.08 mL	04/05/13 18:17
3040245-22	P3D0150	50 mL	52.08 mL	04/05/13 18:17
3040245-23	P3D0150	50 mL	51.31 mL	04/05/13 18:17
3040245-23	P3D0150	50 mL	51.31 mL	04/05/13 18:17
3040245-24	P3D0150	50 mL	51.82 mL	04/05/13 18:17
3040245-24	P3D0150	50 mL	51.82 mL	04/05/13 18:17
3040245-25	P3D0150	50 mL	51.85 mL	04/05/13 18:17
3040245-25	P3D0150	50 mL	51.85 mL	04/05/13 18:17
3040245-26	P3D0150	50 mL	50.93 mL	04/05/13 18:17
3040245-26	P3D0150	50 mL	50.93 mL	04/05/13 18:17
3040245-27	P3D0150	50 mL	51.73 mL	04/05/13 18:17
3040245-27	P3D0150	50 mL	51.73 mL	04/05/13 18:17
3040245-28	P3D0150	50 mL	51.83 mL	04/05/13 18:17
3040245-28	P3D0150	50 mL	51.83 mL	04/05/13 18:17
3040245-29	P3D0150	50 mL	52.44 mL	04/05/13 18:17
3040245-29	P3D0150	50 mL	52.44 mL	04/05/13 18:17
3040245-30	P3D0150	50 mL	51.44 mL	04/05/13 18:17
3040245-30	P3D0150	50 mL	51.44 mL	04/05/13 18:17
3040245-31	P3D0150	50 mL	51.08 mL	04/05/13 18:17
3040245-31	P3D0150	50 mL	51.08 mL	04/05/13 18:17
3040245-32	P3D0150	50 mL	51.78 mL	04/05/13 18:17
3040245-32	P3D0150	50 mL	51.78 mL	04/05/13 18:17
3040245-33	P3D0150	50 mL	51.73 mL	04/05/13 18:17
3040245-33	P3D0150	50 mL	51.73 mL	04/05/13 18:17
3040245-34	P3D0150	50 mL	52.1 mL	04/05/13 18:17
3040245-34	P3D0150	50 mL	52.1 mL	04/05/13 18:17
3040245-35	P3D0150	50 mL	51.34 mL	04/05/13 18:17
3040245-35	P3D0150	50 mL	51.34 mL	04/05/13 18:17
3040245-36	P3D0150	50 mL	51.95 mL	04/05/13 18:17
3040245-36	P3D0150	50 mL	51.95 mL	04/05/13 18:17
3040245-37	P3D0150	50 mL	51.51 mL	04/05/13 18:17
3040245-37	P3D0150	50 mL	51.51 mL	04/05/13 18:17
3040245-38	P3D0150	50 mL	51.74 mL	04/05/13 18:17
3040245-38	P3D0150	50 mL	51.74 mL	04/05/13 18:17
3040245-39	P3D0150	50 mL	51.57 mL	04/05/13 18:17
3040245-39	P3D0150	50 mL	51.57 mL	04/05/13 18:17
3040245-40	P3D0150	50 mL	51.37 mL	04/05/13 18:17
3040245-40	P3D0150	50 mL	51.37 mL	04/05/13 18:17

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
3040245-21	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-22	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-23	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-24	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-25	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-26	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-27	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-28	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-29	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-30	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-31	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-32	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-33	P3D0207	20 mL	30 mL	04/09/13 9:50

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

Sample Extraction Data

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
3040245-34	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-35	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-36	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-37	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-38	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-39	P3D0207	20 mL	30 mL	04/09/13 9:50
3040245-40	P3D0207	20 mL	30 mL	04/09/13 9:50

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
3040245-01	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-02	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-03	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-04	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-05	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-06	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-07	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-08	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-09	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-10	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-11	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-12	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-13	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-14	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-15	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-16	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-17	P3D0182	10 mL	10 mL	04/08/13 8:16
3040245-18	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-19	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-20	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-21	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-22	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-23	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-24	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-25	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-26	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-27	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-28	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-29	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-30	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-31	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-32	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-33	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-34	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-35	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-36	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-37	P3D0181	10 mL	10 mL	04/08/13 8:07
3040245-38	P3D0186	10 mL	10 mL	04/08/13 8:55
3040245-39	P3D0186	10 mL	10 mL	04/08/13 8:55
3040245-40	P3D0186	10 mL	10 mL	04/08/13 8:55

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

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

CHAIN OF CUSTODY RECORD

PAGE 1 OF 4 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: NAUTILUS GEOLOGIC
Report To/Contact Name: BRIAN S. BOUTIN, PG
Reporting Address: 1112 BRANCH IRON PL
WENDEL, NC 27591
Phone: 919-366-3663 Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF____ Excel____ Other_____
Site Location Name: CENTRAL CAROLINA LF
Site Location Physical Address: CAMERON, NC
PERMIT # 4304

Project Name: CENTRAL CAROLINA LF
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NAUTILUS GEOLOGIC
Address: SAME

Purchase Order No./Billing Reference _____
Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 4.0°	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ USACE____ FL____ NC X
SC____ OTHER _____ N/A _____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: APP. I 8260						REMARKS	PRISM LAB ID NO.
4304-GW6s	4/2/13	0954	GW	VOA	4	40 mL	HCl / none	X							01
4304-GW5s		1302													02
4304-GW11		1417													03
4304-GW12		1540													04
4304-GW7s		1706													05
4304-GW9		1625													06
4304-GW10		1540													07
4304-GW3s		1455													08
4304-GW4s		1355													09
4304-GW15		1005													10

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Jeff Heare R. Lane Sampled By (Print Name) JEFF HEARE, RICH LANE Affiliation EFM, INC.

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Rich Lane	David Moi	4-5-13	1245
Relinquished By: (Signature) David Moi 4-5-13 1735	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 4-5-13	1735

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
❑ Fed Ex ❑ UPS ❑ Hand-delivered ☒ Prism Field Service ❑ Other _____
COC Group No. 304024S

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

DES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
C ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC
	❑	❑	❑	❑	❑	❑	❑	❑

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

ORIGINAL

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

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

CHAIN OF CUSTODY RECORD

PAGE 2 OF 4 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: NAUTILUS GEOLOGIC
Report To/Contact Name: BRIAN S. BOUTIN, PE
Reporting Address: 1112 BRAWING IRON R
WENDELL NC 27591
Phone: 919-366-3663 Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF____ Excel____ Other_____
Site Location Name: CENTRAL CAROLINA LF
Site Location Physical Address: CAMERON, NC
PERMIT #4304

Project Name: CENTRAL CAROLINA LF
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NAUTILUS GEOLOGIC
Address: SAME

Purchase Order No./Billing Reference _____
Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 4.0°	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ USACE____ FL____ NC X
SC____ OTHER _____ N/A _____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: APPX 8260						REMARKS	PRISM LAB ID NO.
4304-GW2S	4/2/13	1730	GW	VOA	4	40 mL	2-HCl/2-vial	X							11
4304-GW5D	4/3/13	0930													12
4304-GW6D		0910													13
4304-GW7D		0855													14
4304-GW8D		0840													15
4304-GW1D		1044													16
4304-GW2D		0954													17
4304-GW3D		1014													18
4304-GW-4D		1030													19
TRIP BLANK 01	—	—			2		HCl								20

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Jeff Leaver, R Lane Sampled By (Print Name) JEFF LEAVER, RICH LANE Affiliation EFM, INC.

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Rich Lane	David Moi	4-5-13	1245
Relinquished By: (Signature) David Moi 4-5-13 1735	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 4-5-13	1735

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
❑ Fed Ex ❑ UPS ❑ Hand-delivered ☒ Prism Field Service ❑ Other _____
COC Group No. 304024S

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

DES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
C ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC
	❑	❑	❑	❑	❑	❑	❑	❑

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

ORIGINAL

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

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

CHAIN OF CUSTODY RECORD

PAGE 3 OF 4 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: CENTRAL CAROLINA LF
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NAUTILUS GEOLOGIC
Address: SAME

Purchase Order No./Billing Reference _____
Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

Client Company Name: NAUTILUS GEOLOGIC
Report To/Contact Name: BRIAN S. BOUTIN, PG
Reporting Address: 1112 BRANDING IRON PL WENDELL, NC 27591
Phone: 919-366-3663 Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF____ Excel____ Other_____
Site Location Name: CENTRAL CAROLINA LF
Site Location Physical Address: CAMERON, NC PERMIT #4304

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 4.0°	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ USACE____ FL____ NC X
SC____ OTHER _____ N/A _____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	APP. I 8260	RCRA METALS					REMARKS	PRISM LAB ID NO.
4304-EB01	4/3/13	1320	DI	VOA / P	4 / 1	40mL / 250	HCL UP / HNO3	X	X						21
4304-MW18		1302	GW												22
4304-MW11		1402													23
4304-MW13		1507													24
4304-MW12		1643													25
4304-MW17R		1744													26
4304-MW10		1440													27
4304-MW16		1530													28
4304-MW14		1630													29
4304-SW1(EXP.)		1630													30
TRIP BLANK-02			DI	VOA	2		HCL	HCL	X → DID NOT RECEIVE						

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Jeff Leaver / Rich Lane Sampled By (Print Name) JEFF LEAVER, RICH LANE Affiliation EFM, INC.

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Rich Lane	David Mo	4-5-13	1245
Relinquished By: (Signature) David Mo 4-5-13 1735	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 4-5-13	1735

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
❑ Fed Ex ❑ UPS ❑ Hand-delivered ☒ Prism Field Service ❑ Other _____

COC Group No. 304245

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

DES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
C ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC
	❑	❑	❑	❑	❑	❑	❑	❑

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

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

CHAIN OF CUSTODY RECORD

PAGE 4 OF 4 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Nautilus GEOLOGIC
Report To/Contact Name: Brian S. Boutin, PG
Reporting Address: 11114 Branding Iron Place
Wendell, NC 27591
Phone: 919-366-3663 Fax (Yes) (No): _____
Email (Yes) (No) Email Address _____
EDD Type: PDF X Excel ___ Other _____
Site Location Name: CC Tire Landfill
Site Location Physical Address: Permit # 43-04

Project Name: CC Tire LF
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Nautilus GEOLOGIC
Address: Same

Purchase Order No./Billing Reference _____
Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 4.0°	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ____ USACE ____ FL ____ NC ✓
SC ____ OTHER ____ N/A ____
Water Chlorinated: YES ___ NO ✓
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSES REQUESTED: API VOCs	RCRA Metals					REMARKS	PRISM LAB ID NO.
4304-MW9	4/3/13	0915	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						31
4304-MW8	4/3/13	1005	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						32
4304-MW4	4/3/13	1100	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						33
4304 MW3	4/3/13	1235	WT	Voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						34
4304-SW2	4/3/13	1250	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						35
4304-MW2	4/3/13	1335	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						36
4304-MW7	4/3/13	1425	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						37
4304-MW6	4/3/13	1525	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						38
4304-SW1	4/3/13	1545	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						39
4304-MW5	4/3/13	1630	WT	voa/p	4/1	40 ml/250 ml	None/HCL/HNO3	4	1						40

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) Aaron Hill Affiliation EFM, INC.

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature] 4-5-13	4/4/13	1245
Relinquished By: (Signature) [signature] 4-5-13 1735	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 4-5-13	1735

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
❑ Fed Ex ❑ UPS ❑ Hand-delivered ☒ Prism Field Service ❑ Other _____
COC Group No. 304245

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC

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

ORIGINAL

APPENDIX D

Groundwater Sample Collection Forms

Well/Piezo ID: GW-25

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 50's Collector(s) Rich Lane

Date: 4/ 2 /13
Time: Start 1635 am/pm
Finish 1735 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 22.18 c. Casing Material PVC e. Length of Water Column 9.97 (a-b)

b. Water Table Depth 12.21 d. Casing Diameter 2" f. Calculated Well Volume (see back) 1.62

WELL PURGING DATA

a. Purge Method Low Flow Peristaltic Pump

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) _____ N/A Pumping Rate: 150 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100942
HACH	2100P	28073

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1640	Int	15.93	4.44	81	39.3	12.25	cloudy	97.5	9.63
1650	2250	16.08	4.40	81	25.4	12.26	clear	102.1	5.77
1700	3750	15.97	4.39	82	17.6	12.26	clear	102.4	5.69
1710	5250	15.98	4.41	81	10.1	12.27	clear	101.4	5.48
1720	6750	16.02	4.42	82	9.47	12.27	clear	100.6	5.42
1725	7500	16.04	4.41	81	8.99	12.27	clear	101.2	5.37

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Low Flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW25	VOA	2/2	HCL / none	8260	1730

Comments

Signature Rich Lane Date 4/ 2/13

Well/Piezo ID: GW-65

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: SUNNY 46° Collector(s) JEFF LEAMER

Date: 4/2/13
Time: Start 0840 am/pm
Finish 1000 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 20.94 c. Casing Material PVC e. Length of Water Column 8.62 (a-b)

b. Water Table Depth 12.32 d. Casing Diameter 2" f. Calculated Well Volume (see back) 1.4

WELL PURGING DATA

a. Purge Method Low Flow

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) _____ N/A Pumping Rate: 100 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09K101305
HACH	2100P	09120C

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
0844	INITIAL	13.22	5.94	546	491	12.51	WHITE	114.5	8.22
0850	1,000	13.29	5.38	501	224	12.54	WHITE	105.6	7.80
0855	1,500	13.31	4.61	469	103	12.56	WHITE	97.2	7.59
0900	2,000	13.50	4.51	417	43	12.59	CLOUDY	97.5	7.65
0910	3,000	13.54	4.48	370	30	12.60	CLOUDY	93.0	7.63
0920	4,000	13.59	4.45	354	28	12.62	CLEAR	92.4	7.44
0930	5,000	13.60	4.43	350	26	12.63	CLEAR	91.7	7.30
0950	7,000	13.66	4.40	346	28	12.65	CLEAR	90.3	7.22

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW65	VOA	2+2 ~~3~~	HCL / UP	8260	0959

Comments _____

Signature Jeff Leamer Date 4/2/13

Well/Piezo ID: GW-5S

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: SUNNY/WINDY 52° Collector(s) JEFF LEAVELL

Date: 4/2/13
Time: Start 1235 am/pm
Finish 1315 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length 18.22 c. Casing Material PVC e. Length of Water Column 11.47 (a-b)

b. Water Table Depth 6.75 d. Casing Diameter 2" f. Calculated Well Volume (see back) 1.9

WELL PURGING DATA

a. Purge Method LOW FLOW

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) _____ N/A Pumping Rate: 200 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09A101305
HACH	2100P	09120C

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1228	INITIAL	13.32	5.23	137	17.1	6.82	CLEAR	31.4	7.17
1235	2,000	13.09	4.41	240	14.0	6.84	CLEAR	68.9	4.75
1240	3,000	12.99	3.31	245	11.8	6.85	CLEAR	100.1	4.13
1245	4,000	12.91	3.40	240	9.81	6.85	CLEAR	98.7	4.02
1250	5,000	12.89	3.52	236	9.22	6.86	CLEAR	94.5	3.93
1255	6,000	12.87	3.54	235	8.63	6.86	CLEAR	93.0	3.87
1300	7,000	12.86	3.55	233	7.01	6.87	CLEAR	92.4	3.84

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PERISTALTIC PUMP

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW5S	VOA	2+2 ~~3~~	HCL/ice	8260	1302

Comments

Signature Jeff Leavell Date 4/2/13

Well/Piezo ID: GW-11

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: SUNNY/WINDY 56° Collector(s) JEFF CLEAVER

Date: 4/2/13
Time: Start 1340 am/pm
Finish 1433 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 17.56 c. Casing Material PVC e. Length of Water Column 11.31 (a-b)

b. Water Table Depth 6.25 d. Casing Diameter 2" f. Calculated Well Volume (see back) 1.8

WELL PURGING DATA

a. Purge Method Low Flow

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) _____ N/A Pumping Rate: 100 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09K0130J
HACH	2100P	0/120C

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1345	INITIAL	14.89	5.13	84	12.3	6.34	CLEAR	39.2	8.11
1350	1,000	14.60	4.77	75	10.0	6.36	CLEAR	51.5	6.23
1355	1,500	14.33	4.06	72	8.77	6.37	CLEAR	69.3	5.77
1400	2,000	14.18	3.80	69	7.20	6.37	CLEAR	87.7	5.56
1405	2,500	14.13	3.61	67	6.45	6.38	CLEAR	91.1	5.50
1410	3,000	14.11	3.57	67	6.04	6.38	CLEAR	92.4	5.44
1415	3,500	14.10	3.55	66	4.91	6.39	CLEAR	93.0	5.38

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PERISTALTIC PUMP

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW11	VOA	2+2 ~~3~~	HCL/ICE	8260	1417

Comments

Signature Jeff Cleaver Date 4/2/13

Well/Piezo ID: GW-12

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny/windy 58° Collector(s) JEFF LEAVER

Date: 4/2/13
Time: Start 1450 am/pm
Finish 1550 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 17.78
b. Water Table Depth 8.37
c. Casing Material PVC
d. Casing Diamete r 2"
e. Length of Water Column 9.41 (a-b)
f. Calculated Well Volume (see back) 1.5

WELL PURGING DATA

a. Purge Method Low Flow

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) _____ N/A
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

Pumping Rate: 140 ml/min.

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09K101305
HACH	2100P	091200

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1454	INITIAL	14.40	6.37	497	22.7	8.44	CLEAR	-59.5	5.44
1500	1,400	14.45	6.05	504	44.9	8.46	CLOUDY	-47.0	2.15
1505	2,100	15.22	6.11	512	35.1	8.47	CLOUDY	-47.2	1.60
1510	2,800	15.60	6.15	515	34.6	8.47	CLEAR	-47.9	1.22
1520	4,200	15.64	6.31	516	21.4	8.48	CLEAR	-50.1	0.99
1530	5,600	15.69	6.37	516	20.2	8.48	CLEAR	-52.2	0.90
1535	6,300	15.71	6.39	517	19.6	8.49	CLEAR	-52.9	0.85
1539	7,900	15.73	6.39	517	17.9	8.49	CLEAR	-53.3	0.81

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PERISTALTIC PUMP

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW12	VOA	2+2 3	HCL / UP	8260	1540

Comments

Signature Jeff Leaver Date 4/2/13

Well/Piezo ID: GW-7s

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: SUNNY/WINDY 58° Collector(s) JEFF LEAVER

Date: 4/2/13
Time: Start 1608 am/pm
Finish 1717 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 19.06 c. Casing Material PVC e. Length of Water Column 9.08 (a-b)

b. Water Table Depth 9.98 d. Casing Diameter 2" f. Calculated Well Volume (see back) 1.5

WELL PURGING DATA

a. Purge Method LOW FLOW

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) _____ N/A Pumping Rate: 200 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09K101805
HACH	2100P	09120C

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1606	INITIAL	15.97	6.43	111	62.6	10.00	CLOUDY	34.6	8.21
1613	2,000	15.78	4.93	98	44.2	10.00	CLOUDY	104.4	7.17
1618	3,000	15.39	4.22	90	30.7	10.01	CLOUDY	122.9	6.93
1623	4,000	15.20	3.77	88	22.0	10.01	CLEAR	125.1	6.88
1628	6,000	15.15	3.48	84	16.9	10.01	CLEAR	127.8	6.80
1633	8,000	15.26	3.54	81	12.3	10.02	CLEAR	133.6	6.73
1653	10,000	15.30	3.57	77	10.8	10.02	CLEAR	135.0	6.64
1703	12,000	15.33	3.59	75	9.66	10.03	CLEAR	136.3	6.61

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: PERISTALTIC PUMP

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW7s	VOA	2+2 .3	HCL / ice	8260	1706

Comments

Signature Jeff Leaver Date 4/2/13

Well/Piezo ID: GW-9

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 50's Collector(s) Rich Lane

Date: 4/ 2 /13
Time: Start 1550 am/pm
Finish 1630 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 26.11 c. Casing Material PVC e. Length of Water Column 10.25 (a-b)

b. Water Table Depth 15.86 d. Casing Diameter 2" f. Calculated Well Volume (see back) 1.67

WELL PURGING DATA

a. Purge Method Low Flow Peristaltic Pump

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) _____ N/A Pumping Rate: 100 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100442
HACH	2100P	28078

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1555	Int	15.70	4.65	87	29.1	15.91	clear	89.2	10.35
1600	1000	15.61	4.52	88	16.0	15.93	clear	98.9	7.45
1605	1500	15.55	4.48	89	11.4	15.93	clear	101.9	6.70
1610	2000	15.53	4.46	88	10.1	15.95	clear	103.2	6.42
1615	2500	15.49	4.47	81	9.21	15.95	clear	101.4	6.35
1620	3000	15.47	4.46	88	8.39	15.95	clear	100.1	6.33

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Low Flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW 9	VOA	2/2	HCL / ice	8260	1625

Comments

Signature Rich Lane Date 4/ 2 /13

Well/Piezo ID: GW-10

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 50's Collector(s) Rich Lane

Date: 4/2/13
Time: Start 1505 am/pm
Finish 1545 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 27.55 c. Casing Material PVC e. Length of Water Column 11.6 (a-b)

b. Water Table Depth 15.95 d. Casing Diameter 2" f. Calculated Well Volume (see back) 1.89

WELL PURGING DATA

a. Purge Method Low Flow Peristaltic Pump

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) _____ N/A Pumping Rate: 100 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100442
HACH	2100P	28078

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1510	Int	15.33	5.23	41	20.9	16.01	clear	60.5	9.31
1515	1000	15.76	5.19	41	13.3	16.03	clear	65.1	6.24
1520	1500	15.80	5.22	41	11.4	16.03	clear	62.0	6.22
1525	2000	15.79	5.26	42	10.2	16.04	clear	61.1	6.27
1530	2500	15.71	5.28	42	9.76	16.04	clear	61.5	6.21
1535	3000	15.68	5.30	43	9.41	16.04	clear	61.9	6.17

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Low Flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW10	VOA	2/2	HCL / none	8260	1540

Comments

Signature Rich Lane Date 4/2/13

Well/Piezo ID: GW-35

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 50's Collector(s) Rich Lane

Date: 4/ 2 /13
Time: Start 1405 am/pm
Finish 1500 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 19.61 c. Casing Material PVC e. Length of Water Column 8.4 (a-b)

b. Water Table Depth 11.21 d. Casing Diamete r 2" f. Calculated Well Volume (see back) 1.36

WELL PURGING DATA

a. Purge Method Low Flow Pesistaltic Pump

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ n/A well volumes) _____ N/A Pumping Rate: 125 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100442
HACH	2100P	28078

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1410	Int	15.29	4.29	54	42.7	11.24	cloudy	111.1	9.55
1415	1250	15.27	4.22	55	33.0	11.24	clear	115.3	7.04
1420	1875	15.30	4.26	55	19.8	11.24	clear	108.4	6.41
1430	3125	15.33	4.28	56	10.9	11.25	clear	107.6	6.24
1440	4375	15.37	4.31	60	9.11	11.25	clear	105.1	5.73
1450	5625	15.39	4.33	61	7.94	11.25	clear	105.7	5.70

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Low Flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW35	VOA	2/2	HCL/none	8260	1455

Comments

Signature Rich Lane Date 4/ 2 /13

Well/Piezo ID: GW-45

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: SUNNY 50'S Collector(s) RICHARD CAVE

Date: 4/ 2 /13
Time: Start 1300 am/pm
Finish 1400 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 26.40 c. Casing Material PVC e. Length of Water Column 9.22 (a-b)

b. Water Table Depth 17.18 d. Casing Diameter 2" f. Calculated Well Volume (see back) 1.50

WELL PURGING DATA

a. Purge Method Low Flow Peristaltic Pump

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ N/A well volumes) _____ N/A Pumping Rate: 200 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100942
HACH	2100P	28018

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1305	Int	15.77	4.98	30	37.1	17.21	cloudy	80.6	10.41
1315	3000	15.72	4.73	27	17.3	17.21	clear	96.8	7.36
1325	5000	15.70	4.78	28	9.27	17.22	clear	90.9	7.02
1335	7000	15.74	4.79	26	9.63	17.22	clear	89.3	6.81
1345	9000	15.78	4.80	24	9.14	17.22	clear	88.1	6.63
1350	10000	15.82	4.79	23	8.91	17.22	clear	91.1	6.67

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Low Flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW-45	VOA	2/2	HCL / None	8260	1355

Comments

Signature Richard Cave Date 4/ 2 /13

Well/Piezo ID: GW-15

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 40's Collector(s) Rich Lane

Date: 4/2/13
Time: Start 0915 am/pm
Finish 1010 am/pm

WATER LEVEL DATA: (measured from Top of Casing)

Well ☒ Piezometer ☐

a. Total Well Length 23.36
b. Water Table Depth 15.42
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 7.94 (a-b)
f. Calculated Well Volume (see back) 1.29

WELL PURGING DATA

a. Purge Method Low Flow Peristaltic Pump

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) _____ N/A
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

Pumping Rate: 125 ml/min.

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100942
HACH	2100P	29073

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
0920	Int	13.65	7.29	054	36.4	15.46	clear	-30.5	11.42
0930	1875	13.47	5.86	050	27.7	15.48	clear	61.3	6.25
0940	3125	13.43	5.16	045	25.4	15.48	clear	30.1	6.31
0945	3750	13.57	4.88	042	23.9	15.49	clear	106.5	6.03
0950	4375	13.54	4.73	042	24.4	15.49	clear	104.9	6.17
0955	5000	13.56	4.72	041	24.1	15.50	clear	108.4	6.06
1000	5625	13.58	4.69	041	23.7	15.50	clear	110.1	6.01

2L

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Low Flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW-15	VOA	2/2	HCL/none	8260	1005

Comments

Signature Rich Lane

Date 4/2/13

Well/Piezo ID: GW-80

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Date: 4/2/13
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Time: Start 1115 am/pm
Site Location: CAMERON, NC
Finish 1140 am/pm
Weather Conds: SUNNY 52° Collector(s) JEFF LEAVER

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length 41.45 c. Casing Material PVC e. Length of Water Column 27.18 (a-b)

b. Water Table Depth 14.27 d. Casing Diameter 2" f. Calculated Well Volume (see back) 4.4

WELL PURGING DATA

a. Purge Method 3 VOLUME

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ 3 well volumes) 13.3 ~~N/A~~ Pumping Rate: N/A ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09K101305
HACH	2100P	09120 C

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ~~ml~~ GAL	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1117	INITIAL	15.21	5.56	256	19.3	—	CLEAR	32.4	6.91
1125	2.0	16.24	5.54	262	60.5	—	SUNNY	36.2	5.22
1133	5.0	16.49	5.72	253	291.7	—	WHITE	22.1	3.95
1135	DRY	—	—	—	—	—	—	—	—
4/3/13 0536	—	—	—	—	28.7	33.90	—	—	—

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: HAND BAILER / DISPOSABLE BAILER

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW80	VOA	2+2 3	HCL	8260	0840 4/3/13

Comments WELL WENT DRY AT 50 GALLONS. LET WELL RECHARGE OVERNIGHT THEN TAKE SAMPLE.

Signature Jeff Leaver Date 4/2/13

Well/Piezo ID: GW-7D

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: SUNNY 50° Collector(s) JEFF CLEAVER

Date: 4/2/13
Time: Start 1040 am/pm
Finish 1110 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☑ Piezometer ☐

a. Total Well Length 47.50 c. Casing Material PVC e. Length of Water Column 30.87 (a-b)

b. Water Table Depth 16.63 d. Casing Diameter 2" f. Calculated Well Volume (see back) 5.0

WELL PURGING DATA

a. Purge Method 3 VOLUME

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ 3 well volumes) 15.0 ~~N/A~~ Pumping Rate: N/A ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09K101305
HACH	2100P	09120C

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ~~ml~~ GAL	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1043	INITIAL	15.36	6.79	.205	41.7	—	CLEAR	11.5	7.83
1050	2.5	16.16	5.53	.205	60.2	—	CLEAR	40.2	5.91
1057	5.0	16.45	5.27	.192	622.4	—		30.8	3.52
1100	DRY	—	—	—	—	—	—	—	—
4/2/13 0853	—	—	—	—	56.1	13.48	—	—	—

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: HAND BAILED / DISPOSABLE BAILER

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW7D	VOA	2+2 ~~3~~	HCL / ICE	8260	0855 4/3/13

Comments WELL WENT DRY AT 5.0 GALLONS, LET WELL RECHARGE OVERNIGHT THEN TAKE SAMPLE.

Signature Jeff Cleaver Date 4/2/13

Well/Piezo ID: GW-6D

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: SUNNY 52° Collector(s) JEFF LEAVER

Date: 4/2/13
Time: Start 1006 am/pm
Finish 1035 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 54.00 c. Casing Material PVC e. Length of Water Column 34.55 (a-b)

b. Water Table Depth 19.45 d. Casing Diameter 2" f. Calculated Well Volume (see back) 5.6

WELL PURGING DATA

a. Purge Method 3 VOLUME

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ 3 well volumes) 16.8 ~~N/A~~ Pumping Rate: N/A ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09K-101305
HACH	2100P	09120C

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ~~mL~~ GAL	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1010	INITIAL	19.91	6.65	335	20.4	—	CLEAR	19.6	5.88
1017	2.0	16.65	6.87	350	31.9	—	CLEAR	23.4	4.20
1025	6.0	16.90	7.33	319	491.7	—	WHITE	2.1	3.67
1027	DRY	—							
4/3/13 0904	—	—	—	—	248.0	48.10	—	—	—

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: HAND BAIL / DISPOSABLE BAILER

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW60	VOA	~~2~~ 3	HCL / ice	8260	0910 4/3/13

Comments WELL WENT DRY AT 6.0 GALLONS, ALLOW WELL TO RECHARGE OVERNIGHT THEN TAKE SAMPLE

Signature Jeff Leaver Date 4/2/13

Well/Piezo ID: GW-5D

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Date: 4/2/13
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Time: Start 1154 am/pm
Site Location: CAMERON, NC
Finish 1220 am/pm
Weather Conds: SUNNY 52°C Collector(s) JEFF LEAVER

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 51.45 c. Casing Material PVC e. Length of Water Column 35.93 (a-b)

b. Water Table Depth 15.52 d. Casing Diameter 2" f. Calculated Well Volume (see back) 5.86

WELL PURGING DATA

a. Purge Method 3 VOLUME / HAND BAIL

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) 17.6 ~~N/A~~ Pumping Rate: N/A ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	09H101305
HACH	2100P	091200

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ~~ml~~ GAL	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1158	INITIAL	14.15	3.87	236	9.7	—	CLEAR	61.0	5.46
1205	3.0	15.04	4.31	238	41.8	—	CLOUDY	50.1	5.39
1210	6.5	16.20	4.54	227	324.5	—	TAN	42.4	3.64
1212	DRY								
4/3/13 0925	—	—	—	—	16.5	46.46	—	—	—

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: DISPOSABLE BAILER

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW5D	VOA	2+2 ~~3~~	HCL	8260	0930 4/3/13

Comments WELL WENT DRY AT 6 GALLONS, ALLOW WELL TO RECHARGE OVERNIGHT THEN TAKE SAMPLE.

Signature Jeff Leaver Date 4/2/13

Well/Piezo ID: GW-2D

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 50 Collector(s) Rich Lane

Date: 4/ 2 /13
Time: Start 10:10 am/pm
Finish 1115 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 52.80
b. Water Table Depth 17.05
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 35.75 (a-b)
f. Calculated Well Volume (see back) 5.82

WELL PURGING DATA

a. Purge Method 3 Volume

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ 3 well volumes) 17.46 ~~N/A~~ Pumping Rate: n/a ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100442
HACH	2100P	28075

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ~~ml~~ gal	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1045	Int	15.30	5.14	94	280.1	—	cloudy	79.9	5.21
1100	6.0	15.73	4.89	93	1000+	—	brown	86.1	4.48
1110	Dry	—	—	—	—	—	—	—	—
4/3/13 0952	—	—	—	—	40.1	49.36	—	—	—

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Hand Bail / Disposable Bailer

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW20	VOA	3	HCL	8260	0959 4/3/13

Comments well went dry at ~~5.85~~ 6.0 gallons, allow well to recharge overnight, then sample

Signature Rich Lane Date 4/ 2 /13

Well/Piezo ID: GW-3D

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 50's Collector(s) Rich Lane

Date: 4/ 2 /13
Time: Start 1120 am/pm
Finish 1146 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 52.50 c. Casing Material PVC e. Length of Water Column 35.93 (a-b)

b. Water Table Depth 16.57 d. Casing Diamete r 2" f. Calculated Well Volume (see back) 5.85

WELL PURGING DATA

a. Purge Method 3 volume

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ 3 well volumes) 17.55 ~~N/A~~ Pumping Rate: n/a ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100442
HACH	2100P	28078

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ~~ml~~ GAL	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1125	Int	16.18	5.01	82	300.4	—	cloudy	80.3	5.81
1135	6.0	16.30	5.12	87	1000+	-	lt. Brown	75.6	4.96
1140	Dry	—	—	—	—	—	—	—	—
4/3/13 1012	—	—	—	—	23.0	16.70	—	—	—

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Hand Bail / Disposable Bailer

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW 3D	VOA	3	HCL	8260	1014 4/3/13

Comments Well went dry at 6.0 gallons allow well to recharge overnight, Then sample

Signature R. Lane Date 4/ 2/13

Well/Piezo ID: GW-4D

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 50's Collector(s) Rich Lane

Date: 4/ 2 /13
Time: Start 1240 am/pm
Finish 1255 am/pm

WATER LEVEL DATA: (measured from Top of Casing)

Well ☒ Piezometer ☐

a. Total Well Length 45.35
b. Water Table Depth 18.82
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 26.53 (a-b)
f. Calculated Well Volume (see back) 4.32

WELL PURGING DATA

a. Purge Method 3 Volume

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) 12.96 ~~N/A~~ Pumping Rate: n/H ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100442
HACH	2100P	28078

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ~~ml~~ GAL	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1245	Int	15.35	5.30	103	164	—	Cloudy	411.5	4.87
1250	4.5	16.43	6.28	106	1000+	—	Lt Brown	19.6	3.85
1255	Dry	—	—	—	—	—	—	—	—
4/3/13 10:27	—	—	—	—	19.6	42.32	—	—	—

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Hand Bail / Disposable Bailer

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW	VOA	2/2	HCL / none	8260	1030 4/3/13

Comments well went dry at 4.5 gallons, allow well to recharge overnight, then sample

Signature Rich Lane

Date 4/ 2 /13

Well/Piezo ID: GW-1D

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Sunny 50's Collector(s) Rick Lane

Date: 4/2/13
Time: Start 10:00 am/pm
Finish 10:35 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 42.95 c. Casing Material PVC e. Length of Water Column 26.34 (a-b)

b. Water Table Depth 16.61 d. Casing Diameter 2" f. Calculated Well Volume (see back) 4.29

WELL PURGING DATA

a. Purge Method 3 volume

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ 3 well volumes) 12.87 ~~N/A~~ Pumping Rate: n/a ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100442
HACH	2100P	28078

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume ~~ml~~ Removed	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
1015	Int	15.41	5.16	97	131	—	cloudy	78.6	4.93
1025	4.5	15.80	5.30	91	10000	—	Lt Brown	67.4	3.35
1030	Dry	—	—	—	—	—	—	—	—
4/2/13 1040	—	—	—	—	86.5	39.60	—	—	—

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☑	☐	☐
Has required turbidity been reached	☑	☐	☐
Have parameters stabilized	☑	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Hand Bail / Disposable Bailer

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-GW1D	VOA	2/2	HCL/none	8260	1044 4/2/13

Comments well went dry at 4.5 gallons allow well to recharge overnight, Then sample

Signature Rick Lane Date 4/2/13

Well/Piezo ID: MW-8

Ground Water Sample Collection Record

Client: BRIAN S. BOUTIN, PG
Project No: CENTRAL CAROLINA TIRE, PERMIT #4304
Site Location: CAMERON, NC
Weather Conds: Partly Cloudy, 50's Collector(s) A. Hill

Date: 4/ /13
Time: Start 0930 am/pm
Finish 1015 am/pm

WATER LEVEL DATA: (measured from Top of Casing) Well ☒ Piezometer ☐

a. Total Well Length 20.00
b. Water Table Depth 6.45
c. Casing Material PVC
d. Casing Diameter 2"
e. Length of Water Column 13.55 (a-b)
f. Calculated Well Volume (see back) 2.2

WELL PURGING DATA

a. Purge Method _____ LOW FLOW

b. Acceptance Criteria defined (from workplan)
- Minimum Required Purge Volume (@ _____ well volumes) _____ N/A Pumping Rate: 100 ml/min.
- Maximum Allowable Turbidity N/A NTUs
- Stabilization of parameters 10 %

c. Field Testing Equipment Used:

Make	Model	Serial Number
YSI	556	10H100442
HACH	2100P	28076

d. Field Testing Equipment Calibration Documentation Found on Separate Form

Time	Volume Removed ml	T° (C/F)	pH	Spec. Cond (umhos)	TURBIDITY	DTW	Color	ORP	D.O. mg/l
0935	FNT	10.94	4.61	69	1000+	6.47	Tan	74.9	7.41
0940	1000	13.89	4.58	68	34.8	6.49	Tan	72.4	2.87
0945	1500	14.07	4.59	68	14.5	6.50	clear	72.6	2.89
0950	2000	14.16	4.60	68	11.2	6.50	clear	72.8	2.90
0955	2500	14.22	4.61	68	9.6	6.51	clear	73.0	2.95
1000	3000	14.24	4.61	68	7.2	6.52	clear	73.2	2.97

e. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	☒	☐	☐
Has required turbidity been reached	☒	☐	☐
Have parameters stabilized	☒	☐	☐

If no or N/A - Explain below.

SAMPLE COLLECTION: Method: Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis	Time
4304-MW8	VOA	3	HCL	8260	1005
4304-MW8	500 ml PLASTIC	1	HN03	RCRA METALS	"

Comments

Signature [signature] Date 4/3/13