September 3, 2015

Mr. Keith Huff.
Storm Water & Erosion Control Director
City of Winston-Salem
P.O. Box 2511
Winston-Salem, NC. 27102

Subject: Results of Additional Environmental Site Assessment
City of Winston-Salem 28th Street Project
Winston Salem, North Carolina

Dear Mr. Huff:

The enclosed environmental assessment report presents the results of Phase 2 and Phase 3 soil, soil vapor and ground water sampling that was completed along the City of Winston-Salem Right of Way (ROW) utility corridors, and within the neighborhood section of Winston-Salem that is located to the south of the Hanes/Lowrance School campus between Patterson Avenue and Patrick Avenue as shown in Figure 1.

The Phase 2 and Phase 3 environmental site assessment work was completed in order to further delineate the aerial extent of the tetrachloroethene (PCE) and trichloroethene (TCE) vapor phase and ground water plumes that were identified in our company's Environmental Media Sampling Report, dated May 21, 2015.

Based on the results of the environmental investigation that is contained herein, we are recommending that the City of Winston-Salem undertake the following actions:

1. Forward this report to a qualified Toxicologist for a health risk assessment in order to determine if identified groundwater and soil vapor COC concentrations constitute a potential health risk to the effected 28th Street residential community. The health risk assessment should also address the number of potential structures that are recommended for the next phase of sub-slab/indoor air vapor testing.

GRIFFITH ENTERPRISES, INC.
353 JONESTOWN ROAD, #312 WINSTON-SALEM, NC. 27104
TELEPHONE (336) 712-0290 FAX (336) 712-0884
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2. Submit in writing, a request to NCDENR that the identified boundary of "The Site" under the existing Administrative Agreement for this incident be expanded to the areas that are identified in Figures 5-8 in this report, and that a Remedial Action Plan for the remediation of "all contaminated media within The Site boundaries", be developed using the Superfund Section's remediation goals as set out in the current Inactive Hazardous Sites Program Guidelines for Assessment and Cleanup.

3. Submit in writing, a request to NCDENR that additional deep wells be completed to define the vertical extent of ground water contamination in accordance with the executed Administrative Agreement for this incident. Also request from NCDENR that ground water capture zone pump test data be provided for the existing remediation system and/or future expansion of the remediation system showing that hydraulic control of the ground water COCs either has been achieved, or will be achieved in the future in accordance with the terms stipulated in the Administrative Agreement.

4. Submit in writing, a request to NCDENR that data be provided that shows that the existing remediation system and/or future expansion of the treatment system will effectively remediate the current reported ground water contamination levels in accordance with the terms of the existing Administrative Agreement.

5. The City, as an independent party, continue with semi-annual sampling of all thirty-six (36) ground water monitoring wells and all thirty-six (36) permanent soil vapor points to in order to effectively monitor the ground water and vapor phase COCs in the subsurface. We recommend that the first semi-annual event be completed during November of 2015, and a second follow-up event be performed in April of 2016.

If you have any questions regarding any of the contents that are contained in this report, please feel free to contact me immediately at (336) 712-0290.

Sincerely,

NORTH CAROLINA LICENSED SEAL 2052 GEOLOGIST MARSHALL ALAN GRIFFITH

9/3/15

M. Alan Griffith, L.G.
Licensed Geologist

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1.0 Introduction and Purpose of the Investigation

This environmental assessment report presents the results of Phase 2 and Phase 3 soil, soil vapor and ground water sampling that was completed along the City of Winston-Salem Right of Way (ROW) utility corridors, and within the neighborhood section of Winston-Salem that is located to the south of the Hanes/Lowrance School campus between Patterson Avenue and Patrick Avenue as shown in Figure 1.

The Phase 2 and Phase 3 environmental site assessment work was completed in order to further delineate the aerial extent of the tetrachloroethene (PCE) and trichloroethene (TCE) vapor phase and ground water plumes that were identified in our company's Environmental Media Sampling Report, dated May 21, 2015.

2.0 Scope of Work

In order to accomplish the aforementioned goals for the subsurface sampling work plan that were outlined above, the following scope of work was performed in general accordance with both the *NCDENR Division of Waste Management Vapor Intrusion Guidance Document* dated April 2004, and the *Supplemental Guidelines for the Evaluation of Structural Vapor Intrusion Potential for Site Assessments and Remedial Actions Under the Inactive Hazardous Sites Branch* dated March 14, 2014.

2.1 Installation of Phase 2 and Phase 3 Soil Vapor Monitoring Points

Twenty (20) additional permanent soil vapor monitoring points (WS-17 through WS-36) were installed at locations that are illustrated in Figure 2 during two separate phases of work. Phase 2 soil vapor monitoring points WS-17 through WS-30 were installed between June 1, 2015 and June 4, 2015. Phase 3 soil vapor monitoring points WS-31 through WS-36 were installed between July 1, 2015 and July 2, 2015.

The permanent soil vapor monitoring points for both additional phases were installed to a depth of ten feet below ground surface, except for locations WS-17, WS-18, WS-35 and WS-36 which were installed at shallower depths due to the presence of an elevated ground water table. The vapor points were installed by advancing Geo-probe direct push tooling and then placing a stainless steel screened point within the borehole that was connected to teflon-lined tubing with a water-tight Swagelock stainless steel sampling port. The stainless steel screened point was then surrounded by fine filter sand upon which hydrated bentonite was placed around the teflon lined tubing that extended to ground surface. Each of the permanent soil vapor monitoring points were protected by being placed inside of a steel 6.0-inch diameter flush-mount well cover that was contained within a concrete pad.

After installation, the permanent soil vapor monitoring points were purged by connecting a field vacuum pump to the implant tubing at a low flow setting of <1 cubic feet per minute. Following the removal of approximately three borehole volumes of air, a soil vapor sample was collected from each permanent soil vapor monitoring point by connecting a 1-liter SUMMA canister containing an in-line sediment filter to the sampling port with a laboratory installed intake regulator set at <200ml/minute.

Quality assurance and quality control (QA/QC) measures were performed during the collection of soil vapor samples from the permanent soil vapor points during this investigation. Leak testing was completed at selected sample locations by utilizing 2-propanol as a liquid shroud tracer in accordance with the methodologies set forth in the guidance document "Vapor Intrusion Pathway: A Practical Guideline; Appendix D. 4.7." Soil vapor samples that exhibited high concentrations of the leak detection tracer compound were resampled until concentrations of the tracer gas were reported to be within acceptable threshold levels. A copy of this leak detection methodology is contained in the appendix of this report.

However, more important though was the collection of duplicate and sometimes triplicate sampling of the soil vapor monitoring points from distinct and separate vapor sampling events that extended from April 1, 2015 through July 22, 2015. The repeated testing and analyses of the soil vapor points during this extended time period provided both data reliability and scientific reproducibility to the soil vapor results that are contained in Table 3 of this report.

Duplicate air samples were also collected and analyzed from vapor monitoring points WS-23, WS-26, WS-34 and WS-36 during the same sample collection events and trip blank samples were included and analyzed in order to complete QA/QC procedures for Phase 2 and Phase 3 soil vapor sampling.

A soil sample was also collected for laboratory analyses at a depth of 5 feet below ground surface from each of the twenty additional permanent soil vapor monitoring points that were installed during Phase 2 and Phase 3 operations. A duplicate soil sample was also collected and analyzed from location WS-35 during the same sampling event, and a trip blank sample was included and analyzed in order to complete QA/QC procedures during Phase 2 and Phase 3 soil sampling. The results of soil sample analyses are listed in Table 1 of this report.

2.2 Installation of Phase 2 and Phase 3 Ground Water Monitoring Wells

Four (4) 2.0-inch inner diameter and sixteen (16) 0.75-inch inner diameter PVC monitoring wells were installed to depths ranging from 15 to 53 feet below ground surface at locations (WS-17 through WS-36) displayed in Figure 2. The wells were completed with either 4.5-inch diameter flight augers or Geo-probe direct push rods and were constructed with of ten feet of .010-inch slot well screens surrounded by a fine stainless steel wire mesh with pre-packed fine filter sand.

The monitoring well screens were positioned primarily within the bottom ten feet of the saprolitic soil just above the competent bedrock surface in order to more accurately measure the ground water concentrations of the targeted chlorinated compounds in the subsurface, which are known to vertically migrate through the water table. A summary of the monitoring well screen depths and ground water elevation data is summarized in Table 4 of this report.

Located above each well screen was a 2-foot bentonite seal upon which cement/bentonite grout which surrounded the PVC riser pipe extending to ground surface. The monitoring wells were protected with locking and corrosion resistant plugs and steel 6.0-inch diameter flush-mount well covers located within concrete pads. The well construction records for each of the thirty six monitoring wells that were completed for this investigation are located in the appendix of this report.

Upon completion, the monitoring wells were purged prior to groundwater sampling in accordance with NCDENR Division of Waste Management guidelines. Purging and groundwater sampling from each monitoring well was completed by using a peristaltic pump and new polyethylene tubing at each location. All monitoring well purge water, Geo-probe equipment decontamination water and drill cuttings were collected and placed into 55-gallon drums for proper disposal in accordance with NCDENR IHSB Guidelines.

Quality assurance and quality control (QA/QC) measures were performed during the collection of ground water samples during this investigation. Duplicate ground water samples were collected and analyzed from monitoring well locations WS-24, WS-26, WS-34 and WS-36 during the same sample collection event, and trip blank samples were included and analyzed in order to complete QA/QC procedures during Phase 2 and Phase 3 ground water sampling.

However, more important though was the collection of duplicate ground water samples from the monitoring wells during distinct and separate sampling events that extended from April 1, 2015 through July 16, 2015. The repeated testing and analyses of these monitoring wells during this extended time period provided both data reliability and scientific reproducibility to the ground water sampling results that are contained in Table 2 of this report.

2.3 Laboratory Analyses of Collected Samples

Soil vapor samples that were collected from the permanent soil vapor monitoring points were submitted to Pace Analytical Services, Inc in Huntersville, North Carolina and ESC Lab Sciences in Mount Juliet, Tennessee for laboratory analyses by EPA Method TO-15 in accordance with NCDENR Division of Waste Management guidelines. Targeted constituents of concern based on the Stewart-Warner Corp/ Bassick-Sack site were chloroform, tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichoroethylene,

1,1-dichloroethane, cis-1,2-dichloroethylene and methylene chloride. 2-Propanol was also analyzed on selected samples since it was utilized as the leak detection tracer gas for QA/QC purposes.

Soil samples that were collected from the permanent soil vapor monitoring points were submitted to Pace Analytical Services, Inc in Huntersville, North Carolina for laboratory analyses by EPA Method 8260 in accordance with NCDENR Division of Waste Management guidelines. Targeted constituents of concern were chloroform, tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichoroethylene, 1,1-dichloroethane, cis-1,2-dichloroethylene and methylene chloride.

Ground Water samples that were collected from the permanent ground water monitoring wells were submitted to Pace Analytical Services, Inc in Huntersville, North Carolina and ESC lab Sciences in Mount Juliet, Tennessee for laboratory analyses by EPA Method 8260 in accordance with NCDENR Division of Waste Management guidelines. Targeted constituents of concern were chloroform, tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichoroethylene, 1,1-dichloroethane, cis-1,2-dichloroethylene and methylene chloride.

3.0 Results of the Investigation

Listed below in the following sections of this report are the results of soil sample, soil vapor and ground water sampling that was performed in order to complete Phases 2 and 3 of this environmental investigation.

3.1 Results of Soil Sampling

As summarized in Table 1 of this report, there were no soil sample locations that reported identified COC concentrations above the IHSB Residential Health Based PSRG Standards during this investigation.

3.2 Results of Ground Water Sampling

As summarized in Table 2 of this report, a total of five (5) volatile organic compounds have been detected at concentrations above their respective NCAC 2L Ground Water Standard when including all three investigative phases of this environmental assesment. The detected compounds above the 2L Standards were 1,1-dichloroethene, cis-1,2-dichloroethene, methylene chloride, tetrachloroethene (PCE) and trichloroethene (TCE).

One (1) out of the thirty-six (36) ground water monitoring wells reported a concentration of 1,1-dichloroethene above the 7 ug/l NCAC 2L Standard. Monitoring well WS-4 had a reported 1,1-dichloroethene ground water concentration of 10.2 ug/l on April 30, 2015.

One (1) out of the thirty-six (36) ground water monitoring wells reported a concentration of cis-1,2-dichloroethene above the 60 ug/l NCAC 2L Standard. Monitoring well WS-2 reported a cis-1,2-dichloroethene ground water concentration of 62.8 ug/l on April 29, 2015.

Seven (7) out of the thirty-six (36) ground water monitoring wells reported concentrations of methylene chloride above the 5 ug/l NCAC 2L Standard. Monitoring wells WS-11, WS-12, WS-13, WS-14, WS-15, WS-16 and WS-19 reported methylene chloride ground water concentrations ranging from 16.1 ug/l to 30.9 ug/l from April 1, 2015 through July 16, 2015.

Eighteen (18) out of the thirty-six (36) ground water monitoring wells reported concentrations of tetrachloroethene (PCE) above the 0.7 ug/l NCAC 2L Standard. Monitoring wells WS-2, WS-3, WS-4, WS-5, WS-6, WS-8, WS-9, WS-10, WS-18, WS-19, WS-20, WS-23, WS-31, WS-32, WS-33, WS-34, WS-35 and WS-36 reported PCE ground water concentrations ranging from 1.1 ug/l to 849 ug/l from April 1, 2015 through July 16, 2015. A graphic representation of the denoted PCE ground water concentrations is illustrated in Figure 5.

Fourteen (14) out of the thirty-six (36) ground water monitoring wells reported concentrations of trichloroethene (TCE) above the 3 ug/l NCAC 2L Standard. Monitoring wells WS-2, WS-3, WS-4, WS-5, WS-8, WS-9, WS-10, WS-14, WS-18, WS-19, WS-23, WS-31, WS-32, and WS-36 reported TCE ground water concentrations ranging from 3.9 ug/l to 231 ug/l from April 1, 2015 through July 16, 2015. A graphic representation of the denoted TCE ground water concentrations is displayed in Figure 6.

Based on the ground water level measurements that were observed during this investigation from April 29, 2015 through July 16, 2015, the ground water flow direction through the residential neighborhood that is located to the south of 28th Street and between Patrick and Patterson Avenues was calculated to be flowing toward the south and southwest as depicted in Figure 9. Water level gauging data from the permanent monitoring wells is summarized in Table 4. Well construction records for the permanent ground water monitoring wells are contained in the appendix of this report.

3.3 Results of Soil Vapor Sampling

With respect to the soil vapor samples that were collected from the permanent soil vapor monitoring points, Table 3 shows that nine (9) out of the thirty-six (36) soil vapor samples that were collected from the permanent soil vapor monitoring points reported concentrations of PCE above the NCDENR Residential Sub-Slab and Exterior Soil Gas Screening Level of 278 ug/m3.

Permanent soil vapor monitoring points WS-2, WS-5, WS-8, WS-18, WS-19, WS-23, WS-31, WS-32 and WS-35 reported PCE soil vapor concentrations ranging from 346 ug/m3 to 60,000 ug/m3 from April 1, 2015 through July 22, 2015. As shown in Table 3, the maximum PCE soil vapor concentration of 60,000 ug/m3 was reported to be at soil vapor monitoring point WS-5 on July, 21, 2015. The elevated increase in soil vapor PCE at this location, compared to levels that were previously measured on April 30, 2015, may be attributed to the excavation and installation of water and sewer infrastructure that was completed along Ivy Avenue during early July of 2015. These new utility trenches may have created a preferential pathway for soil vapor concentrations to migrate within in this area of the project.

The NCDENR Residential Standard for PCE was used for comparison due to the fact that reported concentrations were located in the residential neighborhood south of 28th Street. In particular, five (5) of the permanent soil vapor points (WS-2, WS-5, WS-19, WS-31 and WS-32) reported soil vapor concentrations that were in excess of an order of magnitude above the referenced residential standard. A graphic representation of the denoted PCE soil vapor concentrations is presented in Figure 7.

TCE was detected in six (6) out of the thirty-six (36) permanent soil vapor monitoring points above the NCDENR Residential Sub-Slab and Exterior Soil Gas Screening Level of 13.9 ug/m3. Permanent soil vapor monitoring points WS-4, WS-8, WS-19, WS-23, WS-31, WS-32 and WS-36 reported TCE soil vapor concentrations ranging from 16 ug/m3 to 178 ug/m3 from April 1, 2015 through July 22, 2015.

The NCDENR Residential Standard for TCE was used for comparison due to the fact that reported concentrations were located in the residential neighborhood south of 28th Street. In particular, three (3) of the permanent soil vapor points (WS-4, WS-19, and WS-32) historically have reported soil vapor concentrations that were in excess of an order of magnitude above the referenced residential standard. A graphic representation of the denoted TCE soil vapor concentrations is projected in Figure 8.

Chloroform was detected in seven (7) out of the thirty-six (36) permanent soil vapor monitoring points above the NCDENR Residential Sub-Slab and Exterior Soil Gas Screening Level of 40.7 ug/m3. Permanent soil vapor monitoring points WS-5, WS-14, WS-15, WS-23, WS-24, WS-28, and WS-35 reported chloroform soil vapor concentrations ranging from 41 ug/m3 to 5,400 ug/m3 from April 1, 2015 through July 22, 2015.

The NCDENR Residential Standard for chloroform was used for comparison due to the fact that reported concentrations were located in the residential neighborhood south of 28th Street. In particular, three (3) of the permanent soil vapor points (WS-5, WS-24, and WS-35) reported soil vapor concentrations that were in excess of an order of magnitude above the referenced residential standard.

4.0 Conclusions and Recommendations

The Phase 2 and Phase 3 environmental site assessment work that has been described in this report was successful in further delineating the horizontal geometry of the tetrachloroethene (PCE) and trichloroethene (TCE) ground water and soil vapor plumes that were identified in our company's Environmental Media Sampling Report, dated May 21, 2015. However, vertical delineation of the PCE and TCE plumes has not been achieved as of the completion date of this report.

The results of this investigation can be summarized as follows:

1. As shown in Figure 5, the PCE ground water plume was found to extend south to the intersection of Patterson Avenue and Glenn Avenue, and extend in an east-west direction primarily between Patrick Avenue (east) and Patterson Avenue (west). The PCE ground water impact was detected beneath approximately ten (10) square city blocks and also the northwest section of Blum Park. Four (4) areas of elevated ground water PCE concentrations were detected within the over-all plume geometry. The first location is the area surrounding monitoring well WS-2, which is situated near the corner of 28th Street and Stokes Avenue. The second location is the area surrounding monitoring well WS-8, which is situated on Ivy Avenue between 25th and 27th Streets. The third area of concern encompasses monitoring wells WS-18, WS-19, WS-31 and WS-32, which are located in the vicinity of Ivy Avenue and 24th Street. The fourth area is located at monitoring well WS-36, which is situated on Glenn Avenue, south of 24th Street.
2. As shown in Figure 6, the TCE ground water plume was found to extend south to monitoring well WS-36, which is located south of 24th Street, and also extend in an east-west direction primarily between Patrick Avenue (east) and Glenn Avenue (west). The TCE ground water impact was detected beneath approximately six (6) square city blocks and also the northwest section of Blum Park. Three (3) areas of elevated ground water TCE concentrations were detected within the over-all plume geometry. The first location is the area surrounding monitoring well WS-4, which is situated on Stokes Avenue between 25th and 27th Streets. The second area of concern encompasses monitoring wells WS-18 and WS-32, which are located in the vicinity of Ivy Avenue and 24th Street. The third identified area is located at monitoring well WS-36, which is situated on Glenn Avenue, south of 24th Street.
3. As shown in Figure 7, the PCE soil vapor plume was found to extend south to the intersection of Patterson Avenue and Glenn Avenue, and extend in an east-west direction primarily between Patrick Avenue (east) and Glenn Avenue (west). The PCE soil vapor impact was detected beneath approximately nine (9) square city blocks and also the northwest section of Blum Park. Three (3) areas of soil vapor PCE concentrations were reported to be over an order of magnitude above the NCDENR Residential Standard within the over-all plume geometry. The first location is the area surrounding soil vapor point WS-2, which is situated near the corner of 28th Street and Stokes Avenue. The second location is the area surrounding soil vapor point WS-5, which is situated at the corner of Ivy

Avenue and 27th Street. The third area of concern encompasses soil vapor points WS-19, WS-31 and WS-32, which are located in the vicinity of Ivy Avenue and 24th Street.

4. As shown in Figure 8, the TCE soil vapor plume was found to extend south to the vicinity of 24th Street, and extend in an east-west direction primarily between Patrick Avenue (east) and Glenn Avenue (west). The TCE soil vapor impact was detected beneath approximately four (4) square city blocks and also the northwest section of Blum Park. Two (2) areas of soil vapor TCE concentrations were reported to be over an order of magnitude above the NCDENR Residential Standard within the over-all plume geometry. The first location is the area surrounding soil vapor point WS-4, which is situated on Stokes Avenue between 25th and 27th Streets. The second location is the area surrounding soil vapor point WS-32, which is situated on 24th Street between Ivy and Glenn Avenues.
5. Elevated areas of PCE and TCE ground water concentrations that are illustrated in Figures 5 and 6, correlate with the elevated areas of PCE and TCE soil vapor concentrations in the subsurface that are depicted in Figures 7 and 8.
6. The ground water flow direction toward the south-southwest that is illustrated in Figure 9 confirms that PCE and TCE are being transported down gradient via ground water flow from the north to the south beneath the neighborhood that is located to the south of 28th Street that was investigated during this environmental site assessment.

In addition to the environmental assessment that was completed as described herein, Griffith Enterprises, Inc also reviewed the incident files that were contained on the NCDENR CARA Portal 3 for Incident Number NCD024895864 corresponding to the Former Stewart-Warner Corp/Bassick-Sack Site that is currently owned by the Kaba ILCO Corporation. Based on the files that were available for review on the portal, we offer the following additional information that is of significant importance to the neighborhood area that is located to the south of 28th Street.

1. In May of 2007, five (5) soil borings were advanced at the request of NCDENR in order to delineate soil vapor and ground water conditions in the area of the 28th Street neighborhood that is located down gradient of the Hanes-Lowrance Middle School complex. A report that was prepared by Piedmont Geologic, P.C. (July 6, 2007) identified the presence of PCE in soil vapor samples collected that were collected in the neighborhood ranging from 4.8 ug/m3 up to a maximum of 2,500 ug/m3. PCE was also detected in two of the ground water samples that were collected during this 2007 investigation ranging from 74 ug/l up to a maximum of 280 ug/l. Both of these PCE concentrations are above the NCDENR NCAC 2L Ground Water Standard of 0.7 ug/l. Furthermore, TCE, cis-1,2-dichoroethene and chloroform were also detected in the ground water during the 2007 investigation by Piedmont Geologic. The recommendations contained in the report at that time recommend that indoor air samples be collected from residences located at 2721 Ivy Avenue and 2717 Ivy Avenue. On September 12, 2007 Piedmont Geologic submitted documentation to NCDENR stating that indoor air quality sampling could not be performed due to the fact that the targeted residences were unresponsive to their request for testing. In addition, subsurface assessment work of the

identified ground water and soil vapor PCE and TCE plumes were also not completed in 2007.

2. On February 17, 2014, NCDENR in a letter that was addressed to Kaba ILCO, commented that the operating Air Sparge/SVE system appeared to be limited in containing the migration of the PCE contaminant plume. The letter went on to state that contingent upon establishing hydraulic control of the site, further investigations to delineate the containment plume in both the shallow (saprolite) and deep (bedrock) aquifers, and vapor intrusion investigations for residences located between 27th and 28th Streets may be warranted.
3. On May 5, 2014 NCDENR executed an Administrative Agreement (AA) for "The Site" (Docket Number 14-SF-3777), that defined "The Site" as the property currently owned by Kaba ILCO at 2941 Indiana Avenue and any additional area which has become contaminated as a result of hazardous waste substances or waste disposal at that property. Located in Section V.B. of the document on page 3, the AA clearly stipulates that within 90 days of execution of the Agreement, Kaba ILCO shall submit to NCDENR a Remedial Action Plan for the remediation of "all contaminated media at The Site", developed using the Superfund Section's remediation goals as set out in the current Inactive Hazardous Sites Program Guidelines for Assessment and Cleanup.
4. Piedmont Geologic submitted a Remedial Action Plan (RAP) dated May 23, 2014 to NCDENR in response to the AA which stated that the potential route of human exposure to site ground water COCs was from indoor inhalation due to the volatilization of dissolved COCs from the water table. The RAP also identified a second human exposure pathway originating from impacted ground water containing COCs being discharged into surface waters located to the southwest of the present day Kaba facility. The objective of the RAP was to cut off and contain the distribution of ground water COCs in both the (shallow) saprolite and (deep) bedrock aquifer zones, and reduce the COCs levels to North Carolina ground water standards. In order to achieve these objectives, the RAP recommended utilizing ground water pump and treat technology.
5. A Remedial Action Plan Implementation Report was submitted to NCDENR on February 11, 2015 by Piedmont Geologic which outlined the installation and activation of five (5) ground water pump and treat wells ranging in depth from 65 to 183 feet below ground surface. Two of the recovery wells GWE-3S and GWE-3D appear to be located on the property owned by Kaba ILCO. Recovery wells GWE-2S, GWE-2D and GWE-1 are located on the campus of the Hanes Lowrance Middle School complex that is located north of the 28th Street neighborhood. The closest recovery well to the 28th Street residential neighborhood is well GWE-1, which is reported to be 113 feet deep with a pump intake depth of 105 feet below ground surface. This recovery well is located off of the southwest corner of the Hanes Middle School building between Stokes and Ivy Avenues (if these avenues were to extend north onto the school campus).

Based on our company's review of these referenced documents and other documents that are contained on the NCDENR CARA Portal 3 for this incident, we offer the following observations and opinion:

1. We could not find information from the documents listed on the portal that provide capture zone data for the five (5) active ground water pump and treat wells that show that the currently active groundwater treatment system could accomplish the RAP goals of achieving hydraulic control of ground water COCs in both the (shallow) saprolite and (deep) bedrock aquifer zones, and reduce the COCs levels to North Carolina ground water standards.
2. It is our opinion that the delay in completing the additional ground water and soil vapor assessment work south of 28th Street, as well as potentially needed remedial activities from 2007 to 2015 within the residential neighborhood south of 28th Street, has resulted in the continued subsurface migration of the COCs southward through that neighborhood.
3. Furthermore, it is our opinion that based on the language that is contained within the Administrative Agreement dated May 5, 2014, the identified boundary of "The Site" should now be expanded to the areas that are identified in Figures 5-8 that are contained in this report.
4. If in fact NCDENR agrees with our recommendation to expand the boundaries of the Site under the Administrative Agreement, it is our opinion that additional remediation infrastructure will most likely need to be installed within the residential neighborhood south of 28th Street.

Based on the results of this environmental investigation we are recommending that the City of Winston-Salem undertake the following actions:

1. Forward this report to a qualified Toxicologist for a health risk assessment in order to determine if identified groundwater and soil vapor COC concentrations constitute a potential health risk to the effected 28th Street residential community. The health risk assessment should also address the number of potential structures that are recommended for the next phase of sub-slab/indoor air vapor testing.
2. Submit in writing, a request to NCDENR that the identified boundary of "The Site" under the existing Administrative Agreement for this incident be expanded to the areas that are identified in Figures 5-8 in this report, and that a Remedial Action Plan for the remediation of "all contaminated media within The Site boundaries", be developed using the Superfund Section's remediation goals as set out in the current Inactive Hazardous Sites Program Guidelines for Assessment and Cleanup.
3. Submit in writing, a request to NCDENR that additional deep wells be completed to define the vertical extent of ground water contamination in accordance with the executed Administrative Agreement for this incident. Also request from NCDENR that ground water capture zone pump test data be provided for the existing remediation system and/or future expansion of the remediation system showing that hydraulic control of the ground water COCs either has been achieved, or will be achieved in the future in accordance with the terms stipulated in the Administrative Agreement.

4. Submit in writing, a request to NCDENR that data be provided that shows that the existing remediation system and/or future expansion of the treatment system will effectively remediate the current reported ground water contamination levels in accordance with the terms of the existing Administrative Agreement.
5. The City continue with semi-annual sampling of all thirty-six (36) ground water monitoring wells and all thirty-six (36) permanent soil vapor points to in order to effectively monitor the ground water and vapor phase COCs in the subsurface. We recommend that the first semi-annual event be completed during November of 2015, and a second follow-up event be performed in April of 2016.

5.0 Report Qualifications

The evaluation of site conditions is based on our understanding of the site and the project information and other data provided to us. The general subsurface conditions portrayed in this report have been based on interpolation of subsurface data between discrete sampling points. The preparers of this report and the City of Winston-Salem make no representations as to conditions after the date of this report, as they may have changed. This report is provided for the sole use of the City of Winston-Salem, North Carolina. Use of this report in whole or in part by any other parties will be at such parties' sole risk. The preparers of this report disclaim liability for any use or reliance on this report by any additional parties.

6.0 References

NCDENR Division of Waste Management Vapor Intrusion Guidance Document dated April 2004.

Supplemental Guidelines for the Evaluation of Structural Vapor Intrusion Potential for Site Assessments and Remedial Actions Under the Inactive Hazardous Sites Branch dated March 14, 2014.

"Vapor Intrusion Pathway: A Practical Guideline; Appendix D. 4.7." Interstate Technology & Regulatory Council Vapor Intrusion Team dated January 2007.

NCDENR CARA Portal 3 Incident Files: Incident Number NCD024895864.

GRIFFITH ENTERPRISES

TABLES

Table 1
28th Street Investigation
Summary of EPA 8260 Soil Sample Analyses Collected At Permanent Monitoring Well Locations

Sample ID	Depth	Collected Date	Matrix	Units	Chloroform	Methylene Chloride	Tetrachloroethene	Trichloroethene
Soil Samples Collected At Permanent Monitoring Well Locations During Phase 1								
WS-1	5 feet	04/01/2015 10:20	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-2	5 feet	04/01/2015 11:45	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-3	5 feet	04/01/2015 15:40	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-4	5 feet	04/02/2015 08:30	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-5	5 feet	04/02/2015 11:40	Solid	mg/kg	0.0105	BDL	BDL	BDL
WS-6	5 feet	04/02/2015 14:56	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-7	5 feet	04/02/2015 16:40	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-8	5 feet	04/07/2015 11:15	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-9	5 feet	04/07/2015 12:40	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-10	5 feet	04/07/2015 14:30	Solid	mg/kg	BDL	0.0256	BDL	BDL
WS-11	5 feet	04/07/2015 16:40	Solid	mg/kg	BDL	0.0211	BDL	BDL
WS-12	5 feet	04/07/2015 17:50	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-13	5 feet	04/08/2015 09:15	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-14	5 feet	04/08/2015 12:45	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-15	5 feet	04/08/2015 16:00	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-16	5 feet	04/08/2015 18:30	Solid	mg/kg	BDL	0.0371	BDL	BDL
Soil Samples Collected At Permanent Monitoring Well Locations During Phase 2								
WS-17	5 feet	06/01/2015 10:30	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-18	5 feet	06/01/2015 12:30	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-19	5 feet	06/01/2015 14:10	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-20	5 feet	06/01/2015 17:35	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-21	5 feet	06/02/2015 10:03	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-22	5 feet	06/02/2015 13:00	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-23	5 feet	06/02/2015 14:00	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-24	5 feet	06/02/2015 16:30	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-25	5 feet	06/03/2015 11:22	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-26	5 feet	06/03/2015 16:05	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-27	5 feet	06/03/2015 17:00	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-28	5 feet	06/04/2015 11:00	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-29	5 feet	06/04/2015 13:10	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-30	5 feet	06/04/2015 15:10	Solid	mg/kg	BDL	BDL	BDL	BDL
Soil Samples Collected At Permanent Monitoring Well Locations During Phase 3								
WS-31	5 feet	07/01/2015 10:25	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-32	5 feet	07/01/2015 12:41	Solid	mg/kg	BDL	BDL	0.0132	BDL
WS-33	5 feet	07/01/2015 16:45	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-34	5 feet	07/01/2015 17:15	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-35	5 feet	07/02/2015 9:55	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-35 Dupl.	5 feet	07/02/2015 9:55	Solid	mg/kg	BDL	BDL	BDL	BDL
WS-36	5 feet	07/02/2015 12:55	Solid	mg/kg	BDL	BDL	BDL	BDL
IHSB Residential Health Based Soil PSRG			Solid	mg/kg	0.32	57	16	0.82

Note 1: Only Detected Compounds and Trichloroethene Are Displayed
Note 2: BDL = Below Detection Limits
Note 3: Color Coded Values Exceed Applicable Standard

Table 2
28th Street Investigation
Summary of EPA 8260 Ground Water Analyses Collected At Permanent Monitoring Well Locations

Sample ID	Depth	Collected Date	Matrix	Units	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Trichloroethene
Ground Water Samples Collected From Permanent Monitoring Well Locations During Phase 1											
WS-1	Not Stabilized	04/01/2015 11:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	1.3
WS-1	29.86 feet	04/29/2015 14:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-2	Not Stabilized	04/02/2015 18:45	Water	ug/L	1.4	1.9	1.4	49.3	BDL	556	9.1
WS-2	36.48 feet	04/29/2015 14:20	Water	ug/L	1.6	2.5	1.7	62.8	BDL	849	15.3
WS-3	Not Stabilized	04/08/2015 14:20	Water	ug/L	BDL	BDL	BDL	2.8	BDL	65.4	7.1
WS-3	27.29 feet	04/29/2015 14:45	Water	ug/L	BDL	BDL	BDL	1.3	BDL	62.1	4.2
WS-4	Not Stabilized	04/02/2015 10:05	Water	ug/L	2.3	1.3	6.1	11.1	BDL	14.4	225
WS-4	25.79 feet	04/30/2015 10:20	Water	ug/L	2.7	1.9	10.2	16.1	BDL	21.1	231
WS-5	24.74 feet	04/23/2015 11:50	Water	ug/L	1.0	BDL	BDL	8.0	BDL	255	6.2
WS-5	24.73 feet	04/30/2015 11:15	Water	ug/L	2.0	BDL	BDL	7.3	BDL	239	7.1
WS-6	13.57 feet	04/23/2015 11:15	Water	ug/L	BDL	BDL	BDL	7.8	BDL	255	3.1
WS-6	13.58 feet	04/30/2015 11:45	Water	ug/L	BDL	BDL	BDL	8.2	BDL	220	2.9
WS-7	Not Stabilized	04/02/2015 19:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-7	12.75 feet	04/30/2015 15:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-8	Not Stabilized	04/07/2015 11:57	Water	ug/L	1.7	2.0	2.1	20.6	BDL	616	36.6
WS-8	28.14 feet	04/30/2015 15:30	Water	ug/L	1.7	2.1	1.6	22.0	BDL	683	50.5
WS-9	Not Stabilized	04/07/2015 13:21	Water	ug/L	BDL	BDL	BDL	BDL	BDL	32.7	3.9
WS-9	25.70 feet	04/30/2015 16:00	Water	ug/L	BDL	BDL	BDL	2.6	BDL	63.0	10.4
WS-10	Not Stabilized	04/07/2015 15:03	Water	ug/L	BDL	BDL	1.5	BDL	BDL	1.4	30.8
WS-10	15.11 feet	04/30/2015 16:30	Water	ug/L	BDL	BDL	BDL	BDL	BDL	1.2	24.1
WS-11	Not Stabilized	04/07/2015 17:05	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-11	11.94 feet	05/01/2015 10:40	Water	ug/L	BDL	BDL	BDL	BDL	17.9	BDL	BDL
WS-12	Not Stabilized	04/07/2015 18:30	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-12	16.60 feet	05/01/2015 11:20	Water	ug/L	BDL	BDL	BDL	BDL	21.2	BDL	BDL
WS-13	Not Stabilized	04/08/2015 11:27	Water	ug/L	1.2	BDL	BDL	BDL	BDL	BDL	BDL
WS-13	23.51 feet	05/01/2015 12:05	Water	ug/L	BDL	BDL	BDL	BDL	18.5	BDL	BDL
WS-14	Not Stabilized	04/08/2015 13:25	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	5.2
WS-14	23.83 feet	05/01/2015 12:50	Water	ug/L	NA*	BDL	BDL	BDL	19.0	BDL	5.7
WS-15	Not Stabilized	04/08/2015 17:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-15	31.05 feet	05/01/2015 13:45	Water	ug/L	NA*	BDL	BDL	BDL	16.1	BDL	BDL
WS-16	Not Stabilized	04/08/2015 19:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-16	24.65 feet	05/01/2015 14:15	Water	ug/L	NA*	BDL	BDL	BDL	16.6	BDL	BDL
NCDENR NCAC 2L Ground Water Standard			Water	ug/L	70	6	7	60	5	0.7	3

Table 2 Continued
28th Street Investigation
Summary of EPA 8260 Ground Water Analyses Collected At Permanent Monitoring Well Locations

Sample ID	Depth	Collected Date	Matrix	Units	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Trichloroethene
Ground Water Samples Collected From Permanent Monitoring Well Locations During Phase 2											
WS-17	14.50 feet	06/01/2015 12:10	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-17	10.15 feet	06/17/2015 15:25	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-18	11.34 feet	06/01/2015 13:35	Water	ug/L	1.9	1.1	3.0	15.1	BDL	293	101
WS-18	11.67 feet	06/18/2015 8:20	Water	ug/L	BDL	BDL	BDL	16.8	BDL	371	81.8
WS-19	27.50 feet	06/01/2015 17:15	Water	ug/L	1.5	1.8	2.0	22.7	BDL	728	44.7
WS-19	26.01 feet	06/18/2015 9:45	Water	ug/L	BDL	BDL	BDL	25	30.9	797	39.2
WS-20	17.50 feet	06/01/2015 18:10	Water	ug/L	BDL	BDL	BDL	BDL	BDL	1.1	BDL
WS-20	17.23 feet	06/17/2015 13:25	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-21	17.50 feet	06/02/2015 11:10	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-21	17.59 feet	06/17/2015 14:40	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-22	19.75 feet	06/02/2015 13:30	Water	ug/L	1.6	BDL	BDL	BDL	BDL	BDL	BDL
WS-22	19.77 feet	06/17/2015 16:00	Water	ug/L	1.0	BDL	BDL	BDL	BDL	BDL	BDL
WS-23	37.11 feet	06/02/2015 15:15	Water	ug/L	1.3	BDL	BDL	BDL	BDL	13.7	3.9
WS-23	37.33 feet	06/18/2015 11:15	Water	ug/L	1.6	BDL	BDL	1.1	BDL	18.4	3.9
WS-24	38.70 feet	06/03/2015 8:50	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-24	38.83 feet	06/18/2015 14:55	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-24 Duplicate	38.83 feet	06/18/2015 14:55	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-25	40.40 feet	06/03/2015 12:50	Water	ug/L	1.1	BDL	BDL	BDL	BDL	BDL	BDL
WS-25	40.41 feet	06/18/2015 15:50	Water	ug/L	1.0	BDL	BDL	BDL	BDL	BDL	BDL
WS-26	42.29 feet	06/03/2015 16:15	Water	ug/L	7.9	BDL	BDL	BDL	BDL	BDL	BDL
WS-26	42.30 feet	06/16/2015 13:26	Water	ug/L	9.9	BDL	BDL	BDL	BDL	BDL	BDL
WS-26 Duplicate	42.30 feet	06/16/2015 13:26	Water	ug/L	10.1	BDL	BDL	BDL	BDL	BDL	BDL
WS-27	42.28 feet	06/04/2015 9:10	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-27	42.25 feet	06/16/2015 10:46	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-28	43.28 feet	06/04/2015 11:35	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-28	43.29 feet	06/15/2015 15:15	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-29	42.50 feet	06/04/2015 14:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-29	42.48 feet	06/15/2015 13:45	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-30	17.25 feet	06/04/2015 15:30	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-30	17.23 feet	06/15/2015 11:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NCDENR NCAC 2L Ground Water Standard			Water	ug/L	70	6	7	60	5	0.7	3

Table 2 Continued
28th Street Investigation
Summary of EPA 8260 Ground Water Analyses Collected At Permanent Monitoring Well Locations

Sample ID	Depth	Collected Date	Matrix	Units	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	Trichloroethene
Ground Water Samples Collected From Permanent Monitoring Well Locations During Phase 3											
WS-31	21.18 feet	07/01/2015 14:00	Water	ug/L	BDL	BDL	BDL	9.4	BDL	167	15
WS-31	20.23 feet	07/16/2015 8:20	Water	ug/L	BDL	BDL	BDL	10	BDL	230	18
WS-32	21.26 feet	07/01/2015 14:30	Water	ug/L	2.2	1.4	1.6	16.1	BDL	549	46.8
WS-32	21.37 feet	07/16/2015 9:20	Water	ug/L	BDL	1.4	1.4	16	BDL	590	41
WS-33	36.94 feet	07/01/2015 16:45	Water	ug/L	BDL	BDL	BDL	BDL	BDL	1.5	BDL
WS-33	36.92 feet	07/16/2015 10:45	Water	ug/L	BDL	BDL	BDL	BDL	BDL	2	BDL
WS-34	18.35 feet	07/02/2015 8:40	Water	ug/L	1.7	BDL	BDL	BDL	BDL	4.6	BDL
WS-34 Duplicate	18.35 feet	07/02/2015 8:40	Water	ug/L	1.5	BDL	BDL	BDL	BDL	4.5	BDL
WS-34	18.39 feet	07/16/2015 13:00	Water	ug/L	BDL	BDL	BDL	BDL	BDL	6.8	BDL
WS-35	10.18 feet	07/02/2015 10:30	Water	ug/L	7.3	BDL	BDL	BDL	BDL	1.0	BDL
WS-35	10.67 feet	07/16/2015 13:30	Water	ug/L	12	BDL	BDL	BDL	BDL	2	BDL
WS-36	8.62 feet	07/02/2015 13:25	Water	ug/L	2.3	BDL	1.4	9.4	BDL	214	48.3
WS-36	8.68 feet	07/16/2015 14:20	Water	ug/L	BDL	BDL	1.6	10	BDL	310	53
WS-36 Duplicate	8.68 feet	07/16/2015 14:20	Water	ug/L	BDL	BDL	1.3	9.4	BDL	320	52
NCDENR NCAC 2L Ground Water Standard			Water	ug/L	70	6	7	60	5	0.7	3

Note 1: Only Detected Compounds Are Displayed Based on 9 Constituents of Concern Analyzed
Note 2: BDL = Below Detection Limits
Note 3: Color Coded Values Exceed Applicable Standard

Table 3
28th Street Investigation
Summary of Permanent Soil Vapor Point Concentrations by Method TO-15

Sample ID	Collected Date	Depth	Matrix	Units	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene
Soil Vapor Samples Collected At Permanent Soil Vapor Point Locations During Phase 1												
WS-1	04/01/2015 10:46	10 feet	Air	ug/m3	1.8	BDL	BDL	BDL	BDL	3.4	BDL	6.6
WS-1	04/30/2015 09:42	10 feet	Air	ug/m3	2.4	BDL	BDL	BDL	BDL	6.4	BDL	6.7
WS-2	04/01/2015 14:12	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	2,240	BDL	4.9
WS-2	04/30/2015 09:52	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	22.3	3,990	BDL	BDL
WS-2	7/21/15 15:06	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	1,600	BDL	7
WS-3	04/01/2015 15:54	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-3	04/30/2015 10:00	10 feet	Air	ug/m3	8.3	BDL	BDL	BDL	BDL	72.5	BDL	BDL
WS-4	04/02/2015 09:55	10 feet	Air	ug/m3	4.2	BDL	BDL	BDL	118	6.2	BDL	5.4
WS-4	04/30/2015 10:28	10 feet	Air	ug/m3	14.7	BDL	16.9	BDL	BDL	62.9	3.1	177
WS-4	7/21/15 14:33	10 feet	Air	ug/m3	7.3	BDL	6.7	BDL	BDL	95	2.2	170
WS-5	04/02/2015 12:17	10 feet	Air	ug/m3	2,500	2.7	BDL	BDL	BDL	3,190	6.5	11.3
WS-5	04/30/2015 11:08	10 feet	Air	ug/m3	4,100	BDL	BDL	BDL	185	5,960	BDL	1.9
WS-5	7/21/2015 16:09	10 feet	Air	ug/m3	5,400	2.8	BDL	BDL	7.3	60,000	8.2	3.9
WS-6	04/02/2015 15:24	10 feet	Air	ug/m3	3.7	BDL	BDL	BDL	6.8	27.2	BDL	BDL
WS-6	04/30/2015 11:39	10 feet	Air	ug/m3	11.7	BDL	BDL	1.5	BDL	42.5	BDL	3.1
WS-7	04/02/2015 17:50	10 feet	Air	ug/m3	11.6	BDL	BDL	BDL	11.5	BDL	BDL	BDL
WS-7	04/30/2015 14:58	10 feet	Air	ug/m3	5.9	BDL	BDL	BDL	9.6	2.7	BDL	BDL
WS-8	04/07/2015 11:48	10 feet	Air	ug/m3	5.0	BDL	BDL	BDL	6.8	1,060	BDL	10.1
WS-8	04/30/2015 15:31	10 feet	Air	ug/m3	5.6	BDL	BDL	BDL	BDL	1,400	BDL	11.4
WS-8	7/21/2015 15:37	10 feet	Air	ug/m3	3.6	BDL	BDL	BDL	BDL	1,200	BDL	16
WS-9	04/07/2015 13:16	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	45.6	BDL	BDL
WS-9	04/30/2015 16:00	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	78.6	BDL	BDL
WS-10	04/07/2015 14:48	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	2.9	BDL	BDL
WS-10	04/30/2015 16:29	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	3.0	BDL	2.1
NCDENR Residential Sub Slab & Exterior Soil Gas Screening Level					40.7	585	1,390	No Standard	4,170	278	34,800	13.9
Order of Magnitude Over NCDENR Residential Sub Slab/ESG Level					407	5,850	13,900	No Standard	41,700	2,780	348,000	139

Table 3 Continued
28th Street Investigation
Summary of Permanent Soil Vapor Point Concentrations by Method TO-15

Sample ID	Collected Date	Depth	Matrix	Units	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene
WS-11	04/07/2015 17:00	10 feet	Air	ug/m3	1.7	BDL	BDL	BDL	7.7	2.0	BDL	BDL
WS-11	05/01/2015 10:33	10 feet	Air	ug/m3	1.1	BDL	BDL	BDL	9.1	2.1	BDL	BDL
WS-12	04/07/2015 18:23	10 feet	Air	ug/m3	3.6	BDL	BDL	BDL	BDL	11.9	BDL	BDL
WS-12	05/01/2015 11:13	10 feet	Air	ug/m3	5.2	BDL	BDL	BDL	BDL	16.2	BDL	BDL
WS-13	04/08/2015 11:19	10 feet	Air	ug/m3	11.6	BDL	BDL	BDL	10.9	BDL	BDL	BDL
WS-13	05/01/2015 12:01	10 feet	Air	ug/m3	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-14	04/08/2015 13:40	10 feet	Air	ug/m3	68.1	BDL	BDL	BDL	BDL	4.5	BDL	3.2
WS-14	05/01/2015 12:44	10 feet	Air	ug/m3	74.1	BDL	BDL	BDL	BDL	6.1	BDL	3.9
WS-15	04/08/2015 16:46	10 feet	Air	ug/m3	106	BDL	BDL	BDL	BDL	193	65.6	1.5
WS-15	05/01/2015 13:47	10 feet	Air	ug/m3	113	BDL	1.8	BDL	BDL	271	74.6	2.2
WS-16	04/08/2015 18:53	10 feet	Air	ug/m3	3.5	BDL	BDL	BDL	BDL	2.8	BDL	BDL
WS-16	05/01/2015 14:18	10 feet	Air	ug/m3	3.4	BDL	BDL	BDL	BDL	4.7	BDL	BDL
Soil Vapor Samples Collected At Permanent Soil Vapor Point Locations During Phase 2												
WS-17	06/01/2015 12:04	7 feet	Air	ug/m3	21.8	BDL	BDL	BDL	BDL	8.2	BDL	BDL
WS-17	06/17/2015 15:05	7 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-18	06/01/2015 13:26	8 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	675	BDL	4.4
WS-18	06/18/2015 7:55	8 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	861	BDL	BDL
WS-19	06/01/2015 16:38	10 feet	Air	ug/m3	14	1.5	1.5	BDL	BDL	8,900	BDL	31.8
WS-19	06/18/2015 8:45	10 feet	Air	ug/m3	59	BDL	BDL	BDL	BDL	89,500	BDL	141
WS-19	07/22/2015 10:28	10 feet	Air	ug/m3	23	BDL	BDL	BDL	28	37,000	BDL	45
WS-20	06/01/2015 17:50	10 feet	Air	ug/m3	6.2	BDL	BDL	BDL	BDL	4	BDL	BDL
WS-20	06/17/2015 13:37	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WS-21	06/02/2015 10:38	10 feet	Air	ug/m3	0.97	BDL	BDL	BDL	BDL	10	BDL	BDL
WS-21	06/17/2015 14:15	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	8.2	16.3	BDL	BDL
NCDENR Residential Sub Slab & Exterior Soil Gas Screening Level					40.7	585	1,390	No Standard	4,170	278	34,800	13.9
Order of Magnitude Over NCDENR Residential Sub Slab/ESG Level					407	5,850	13,900	No Standard	41,700	2,780	348,000	139

Table 3 Continued
28th Street Investigation
Summary of Permanent Soil Vapor Point Concentrations by Method TO-15

Sample ID	Collected Date	Depth	Matrix	Units	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene
WS-22	06/02/2015 13:17	10 feet	Air	ug/m3	11.1	BDL	BDL	BDL	BDL	3.1	BDL	BDL
WS-22	06/17/2015 15:45	10 feet	Air	ug/m3	8.4	BDL	BDL	7.7	BDL	1.8	BDL	BDL
WS-23	06/02/2015 14:46	10 feet	Air	ug/m3	38.2	BDL	BDL	BDL	BDL	346	BDL	BDL
WS-23	06/18/2015 10:30	10 feet	Air	ug/m3	47.7	BDL	BDL	BDL	BDL	757	BDL	1.2
WS-23 Dup	06/18/2015 10:30	10 feet	Air	ug/m3	49.5	BDL	BDL	BDL	8.2	756	BDL	1.7
WS-23	07/22/2015 11:07	10 feet	Air	ug/m3	44	BDL	BDL	BDL	BDL	540	BDL	BDL
WS-23 Dup	07/22/2015 11:07	10 feet	Air	ug/m3	42	BDL	BDL	BDL	BDL	540	BDL	BDL
WS-24	06/03/2015 8:30	10 feet	Air	ug/m3	297	BDL	BDL	BDL	BDL	21.7	BDL	1.6
WS-24	06/18/2015 14:35	10 feet	Air	ug/m3	411	BDL	BDL	BDL	BDL	33.8	BDL	BDL
WS-24	07/22/2015 13:35	10 feet	Air	ug/m3	160	BDL	BDL	BDL	23	17	BDL	BDL
WS-25	06/03/2015 11:58	10 feet	Air	ug/m3	3.9	BDL	BDL	BDL	BDL	10.8	BDL	BDL
WS-25	06/16/2015 14:25	10 feet	Air	ug/m3	8.3	BDL	BDL	BDL	BDL	15.7	BDL	BDL
WS-25	07/22/2015 14:07	10 feet	Air	ug/m3	5.4	BDL	BDL	BDL	20	12	BDL	BDL
WS-26	06/03/2015 16:06	10 feet	Air	ug/m3	2.5	BDL	BDL	BDL	BDL	4.3	BDL	BDL
WS-26	06/16/2015 13:00	10 feet	Air	ug/m3	8.1	BDL	BDL	BDL	BDL	4.1	BDL	BDL
WS-26 Dup	06/16/2015 13:00	10 feet	Air	ug/m3	7.6	BDL	BDL	BDL	BDL	6.3	BDL	BDL
WS-27	06/04/2015 8:42	10 feet	Air	ug/m3	11	BDL	BDL	BDL	BDL	2.4	12.6	BDL
WS-27	06/16/2015 10:40	10 feet	Air	ug/m3	2.9	BDL	BDL	BDL	575	2.9	BDL	1.5
WS-28	06/04/2015 11:10	10 feet	Air	ug/m3	29.8	BDL	BDL	4.5	BDL	21	BDL	12.4
WS-28	06/15/2015 14:50	10 feet	Air	ug/m3	41	BDL	BDL	BDL	BDL	59.5	BDL	BDL
WS-29	06/04/2015 13:26	10 feet	Air	ug/m3	1.8	BDL	BDL	BDL	BDL	6	BDL	BDL
WS-29	06/15/2015 13:05	10 feet	Air	ug/m3	2.2	BDL	BDL	BDL	BDL	8.5	BDL	BDL
WS-29	07/22/2015 14:40	10 feet	Air	ug/m3	2	BDL	BDL	BDL	19	6.8	BDL	BDL
WS-30	06/04/2015 13:26	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	7.3	BDL	BDL
WS-30	06/15/2015 10:35	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	12.8	11.2	BDL	BDL
NCDENR Residential Sub Slab & Exterior Soil Gas Screening Level					40.7	585	1,390	No Standard	4,170	278	34,800	13.9
Order of Magnitude Over NCDENR Residential Sub Slab/ESG Level					407	5,850	13,900	No Standard	41,700	2,780	348,000	139

Table 3 Continued

28th Street Investigation

Summary of Permanent Soil Vapor Point Concentrations by Method TO-15

Sample ID	Collected Date	Depth	Matrix	Units	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene
Soil Vapor Samples Collected At Permanent Soil Vapor Point Locations During Phase 3												
WS-31	07/01/2015 13:40	10 feet	Air	ug/m3	19	BDL	BDL	BDL	BDL	3,710	BDL	33.3
WS-31	07/20/2015 10:49	10 feet	Air	ug/m3	22	BDL	BDL	BDL	7.3	18,000	BDL	33
WS-32	07/01/2015 15:00	10 feet	Air	ug/m3	12	1.6	BDL	BDL	BDL	20,300	BDL	178
WS-32	07/20/2015 11:16	10 feet	Air	ug/m3	15	1.8	BDL	BDL	7.3	16,000	BDL	160
WS-33	07/01/2015 16:25	10 feet	Air	ug/m3	5.2	BDL	BDL	BDL	BDL	46.1	BDL	BDL
WS-33	07/20/2015 10:39	10 feet	Air	ug/m3	3.6	BDL	BDL	BDL	BDL	24	BDL	BDL
WS-34	07/02/2015 9:40	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	185	BDL	BDL	BDL
WS-34 Dup	07/02/2015 9:40	10 feet	Air	ug/m3	1.7	BDL	BDL	BDL	77.1	3.5	BDL	6.4
WS-34	07/20/2015 11:11	10 feet	Air	ug/m3	BDL	BDL	BDL	BDL	1.6	BDL	BDL	BDL
WS-35	07/02/2015 10:50	8 feet	Air	ug/m3	729	BDL	BDL	BDL	BDL	817	BDL	1
WS-35	07/20/2015 11:38	8 feet	Air	ug/m3	280	BDL	BDL	BDL	2	480	BDL	BDL
WS-36	07/02/2015 13:45	6 feet	Air	ug/m3	1.2	BDL	BDL	7.8	BDL	14.7	BDL	16.3
WS-36	07/20/2015 12:14	6 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	6.7	BDL	BDL
WS-36 Dup	07/20/2015 12:14	6 feet	Air	ug/m3	BDL	BDL	BDL	BDL	BDL	5.2	BDL	BDL
NCDENR Residential Sub Slab & Exterior Soil Gas Screening Level					40.7	585	1,390	No Standard	4,170	278	34,800	13.9
Order of Magnitude Over NCDENR Residential Sub Slab/ESG Level					407	5,850	13,900	No Standard	41,700	2,780	348,000	139

Note 1: WS-1 through WS-36 Are Permanently Installed Vapor Points

Note 2: BDL = Below Detection Limit or Reportable Detection Limit

Note 3: Color Coded Values Exceed Applicable Standard

Table 4
28th Street Investigation
Summary of Ground Water Elevations at Permanent Monitoring Well Locations

MON. WELL	DATE GAUGED	CASING ELEV. (ft.)	DEPTH TO WATER (ft.)	WELL DIAMETER	TOP OF SCRN. ELEV. (ft.)	BOT. OF SCRN. ELEV. (ft.)	GROUND WATER ELEV. (ft.)
WS-1	4/29/15	941.73	29.86	2-INCH PVC	916.73	906.73	911.87
WS-2	4/29/15	952.15	36.48	2-INCH PVC	924.15	914.15	915.67
WS-3	4/29/15	926.45	27.29	2-INCH PVC	902.45	892.45	899.16
WS-4	4/30/15	919.77	25.79	2-INCH PVC	897.77	887.77	893.98
WS-5	4/30/15	929.94	24.73	2-INCH PVC	901.94	891.94	905.21
WS-6	4/30/15	923.08	13.58	2-INCH PVC	898.08	888.08	909.50
WS-7	4/30/15	928.81	12.75	2-INCH PVC	910.81	901.81	916.06
WS-8	4/30/15	927.36	28.14	0.75-INCH PVC	899.36	889.36	899.22
WS-9	4/30/15	918.67	25.70	0.75-INCH PVC	890.67	880.67	892.97
WS-10	4/30/15	903.60	15.11	0.75-INCH PVC	877.60	867.60	888.49
WS-11	5/1/15	908.11	11.94	2-INCH PVC	896.11	886.11	896.17
WS-12	5/1/15	914.62	16.60	0.75-INCH PVC	894.62	884.62	898.02
WS-13	5/1/15	927.21	23.51	2-INCH PVC	907.21	897.21	903.70
WS-14	5/1/15	933.25	23.83	0.75-INCH PVC	910.25	900.25	909.42
WS-15	5/1/15	982.83	31.05	2-INCH PVC	949.83	939.83	951.78
WS-16	5/1/15	965.48	24.65	2-INCH PVC	935.48	925.48	940.83
WS-17	6/17/15	883.16	10.15	0.75-INCH PVC	873.16	868.16	873.01
WS-18	6/18/15	888.87	11.67	0.75-INCH PVC	868.87	858.87	877.20
WS-19	6/18/15	906.62	26.01	0.75-INCH PVC	878.12	868.12	880.61
WS-20	6/17/15	902.07	17.23	0.75-INCH PVC	881.07	871.07	884.84
WS-21	6/17/15	898.55	17.59	0.75-INCH PVC	880.05	870.05	880.96
WS-22	6/17/15	891.39	19.77	0.75-INCH PVC	860.39	850.39	871.62
WS-23	6/18/15	914.44	37.33	0.75-INCH PVC	884.44	874.44	877.11
WS-24	6/18/15	923.70	38.83	0.75-INCH PVC	889.70	879.70	884.87
WS-25	6/18/15	934.99	40.41	0.75-INCH PVC	891.99	881.99	894.58
WS-26	6/16/15	941.90	42.30	2-INCH PVC	898.90	888.90	899.60
WS-27	6/16/15	947.89	42.25	2-INCH PVC	904.89	894.89	905.64
WS-28	6/15/15	957.77	43.29	2-INCH PVC	914.77	904.77	914.48
WS-29	6/15/15	960.63	42.48	2-INCH PVC	918.63	908.63	918.15
WS-30	6/15/15	934.28	17.23	0.75-INCH PVC	904.28	894.28	917.05
WS-31	7/16/15	900.03	20.23	0.75-INCH PVC	885.53	875.53	879.80
WS-32	7/16/15	896.79	21.37	0.75-INCH PVC	876.79	866.79	875.42
WS-33	7/16/15	911.17	36.92	0.75-INCH PVC	881.17	871.17	874.25
WS-34	7/16/15	891.60	18.39	0.75-INCH PVC	868.10	858.10	873.21
WS-35	7/16/15	872.01	10.67	0.75-INCH PVC	862.01	852.01	861.34
WS-36	7/16/15	876.67	8.68	0.75-INCH PVC	864.67	854.67	867.99

GRIFFITH ENTERPRISES

FIGURES

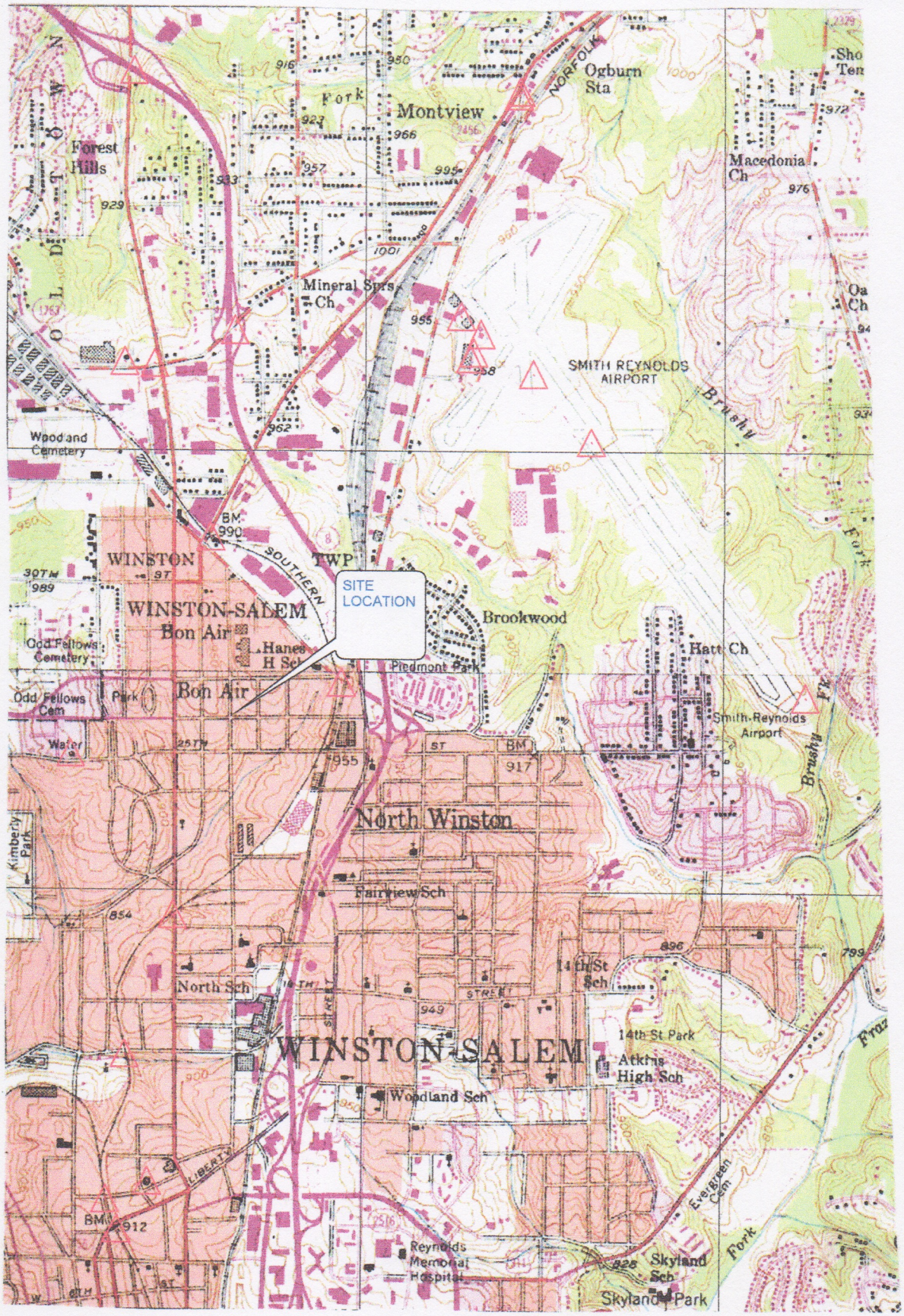
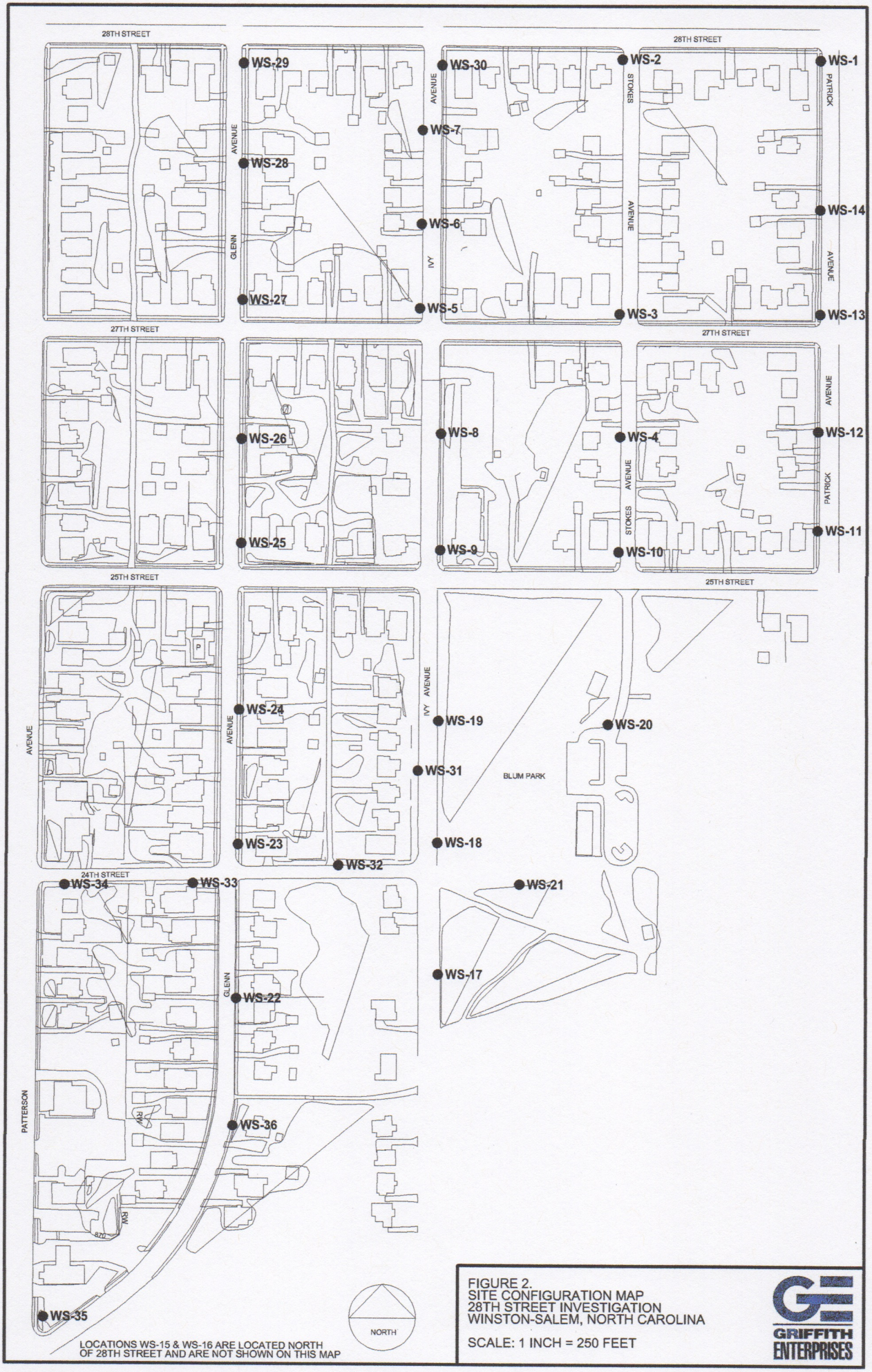


FIGURE 1.
USGS TOPOGRAPHIC MAP
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA

SCALE: 1 INCH = 2,000 FEET

GRIFFITH ENTERPRISES

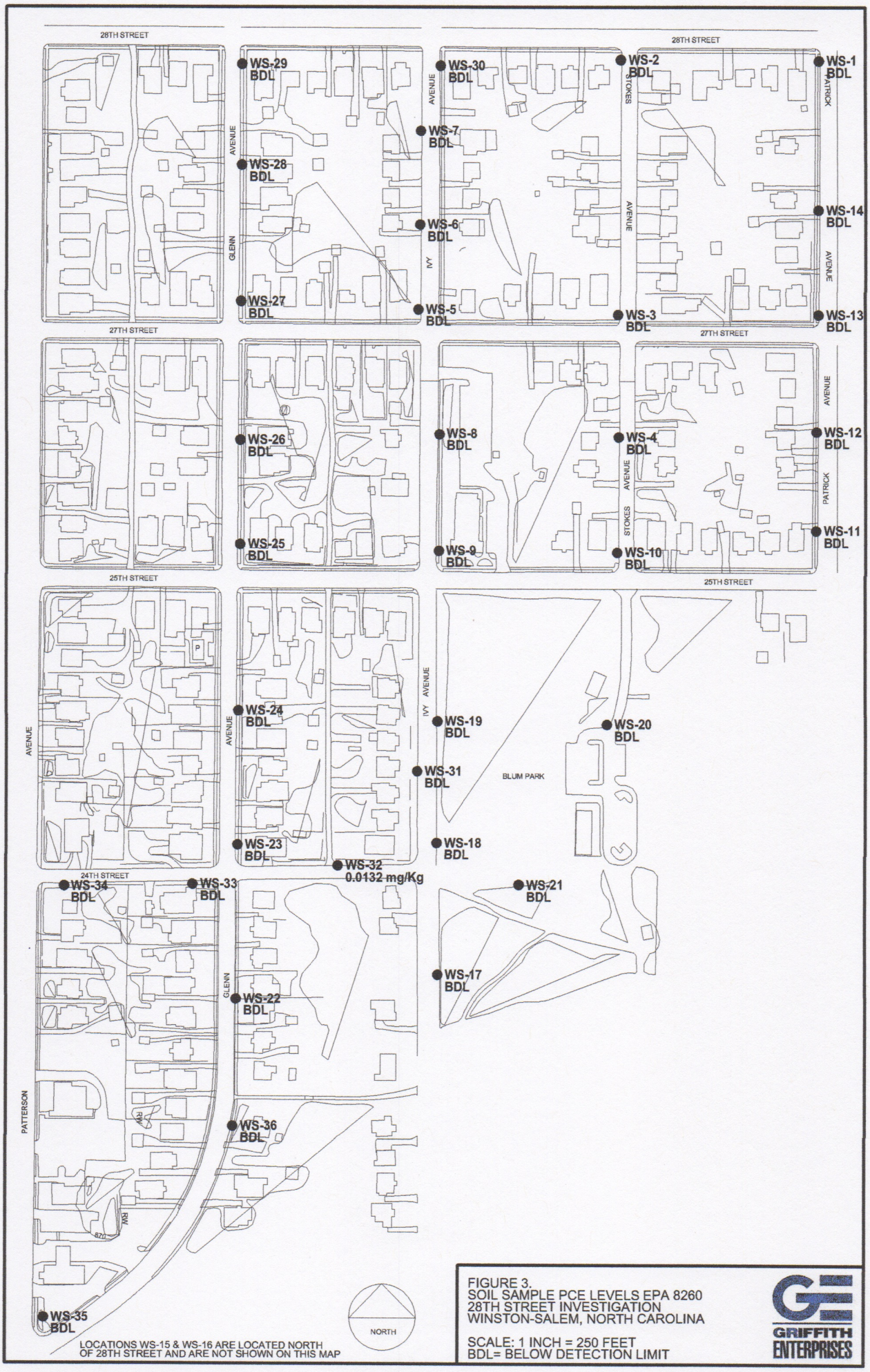


LOCATIONS WS-15 & WS-16 ARE LOCATED NORTH OF 28TH STREET AND ARE NOT SHOWN ON THIS MAP

FIGURE 2.
SITE CONFIGURATION MAP
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA

SCALE: 1 INCH = 250 FEET

GRIFFITH ENTERPRISES

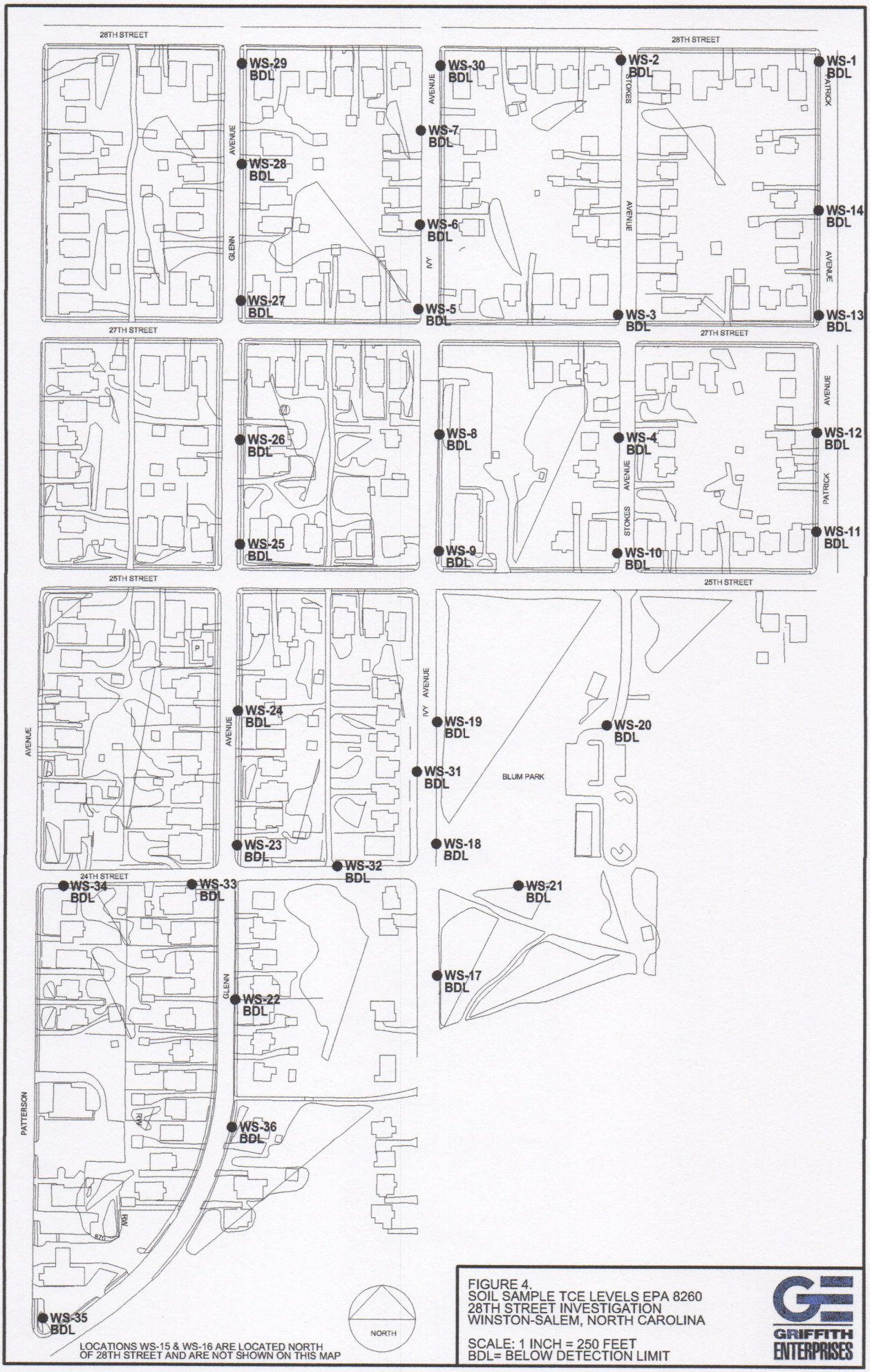


LOCATIONS WS-15 & WS-16 ARE LOCATED NORTH OF 28TH STREET AND ARE NOT SHOWN ON THIS MAP

FIGURE 3.
SOIL SAMPLE PCE LEVELS EPA 8260
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA

SCALE: 1 INCH = 250 FEET
BDL= BELOW DETECTION LIMIT

GRIFFITH ENTERPRISES

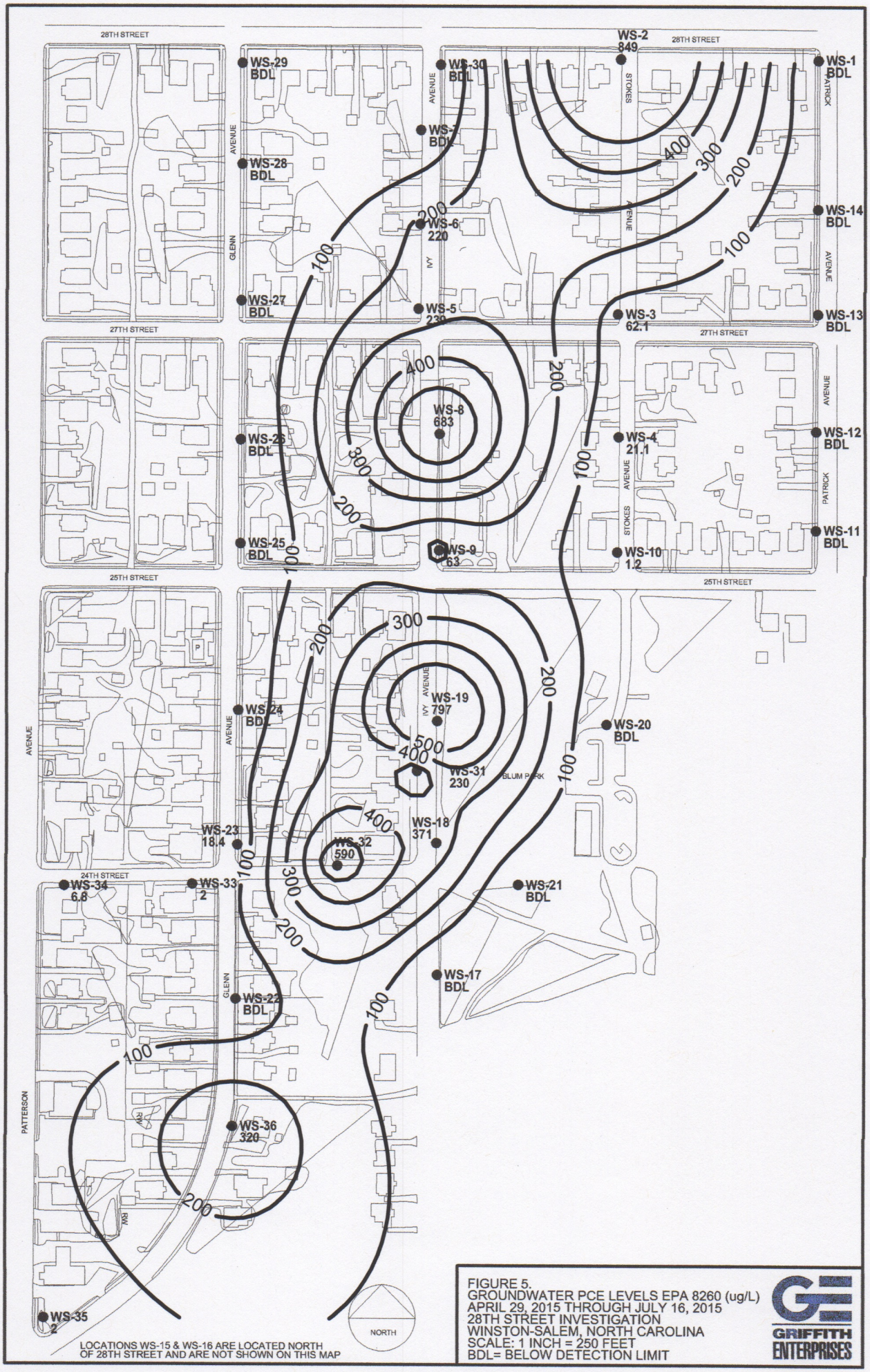


LOCATIONS WS-15 & WS-16 ARE LOCATED NORTH OF 28TH STREET AND ARE NOT SHOWN ON THIS MAP

FIGURE 4.
SOIL SAMPLE TCE LEVELS EPA 8260
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA

SCALE: 1 INCH = 250 FEET
BDL= BELOW DETECTION LIMIT

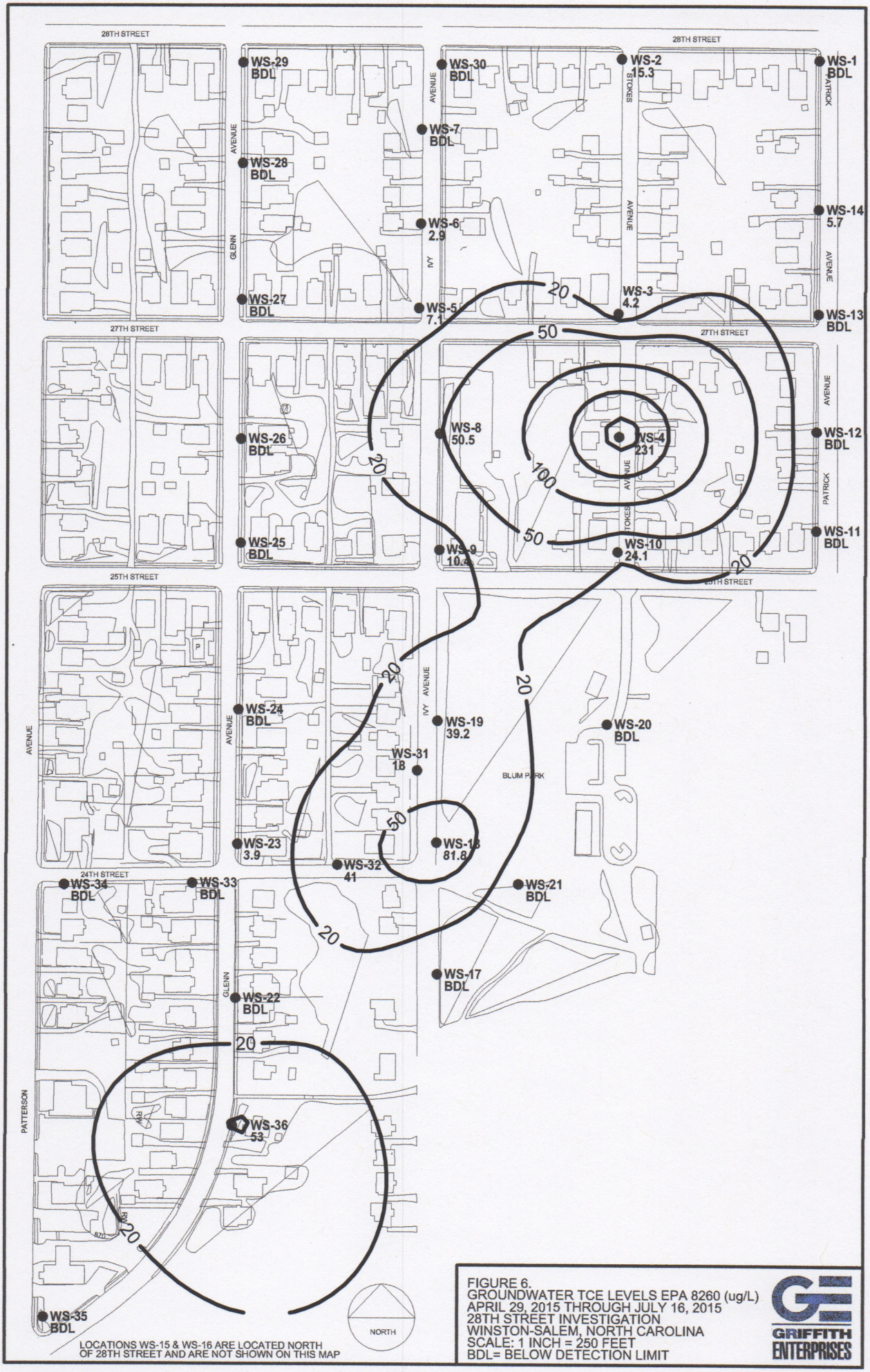
GRIFFITH ENTERPRISES



LOCATIONS WS-15 & WS-16 ARE LOCATED NORTH OF 28TH STREET AND ARE NOT SHOWN ON THIS MAP

FIGURE 5.
GROUNDWATER PCE LEVELS EPA 8260 (ug/L)
APRIL 29, 2015 THROUGH JULY 16, 2015
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA
SCALE: 1 INCH = 250 FEET
BDL= BELOW DETECTION LIMIT

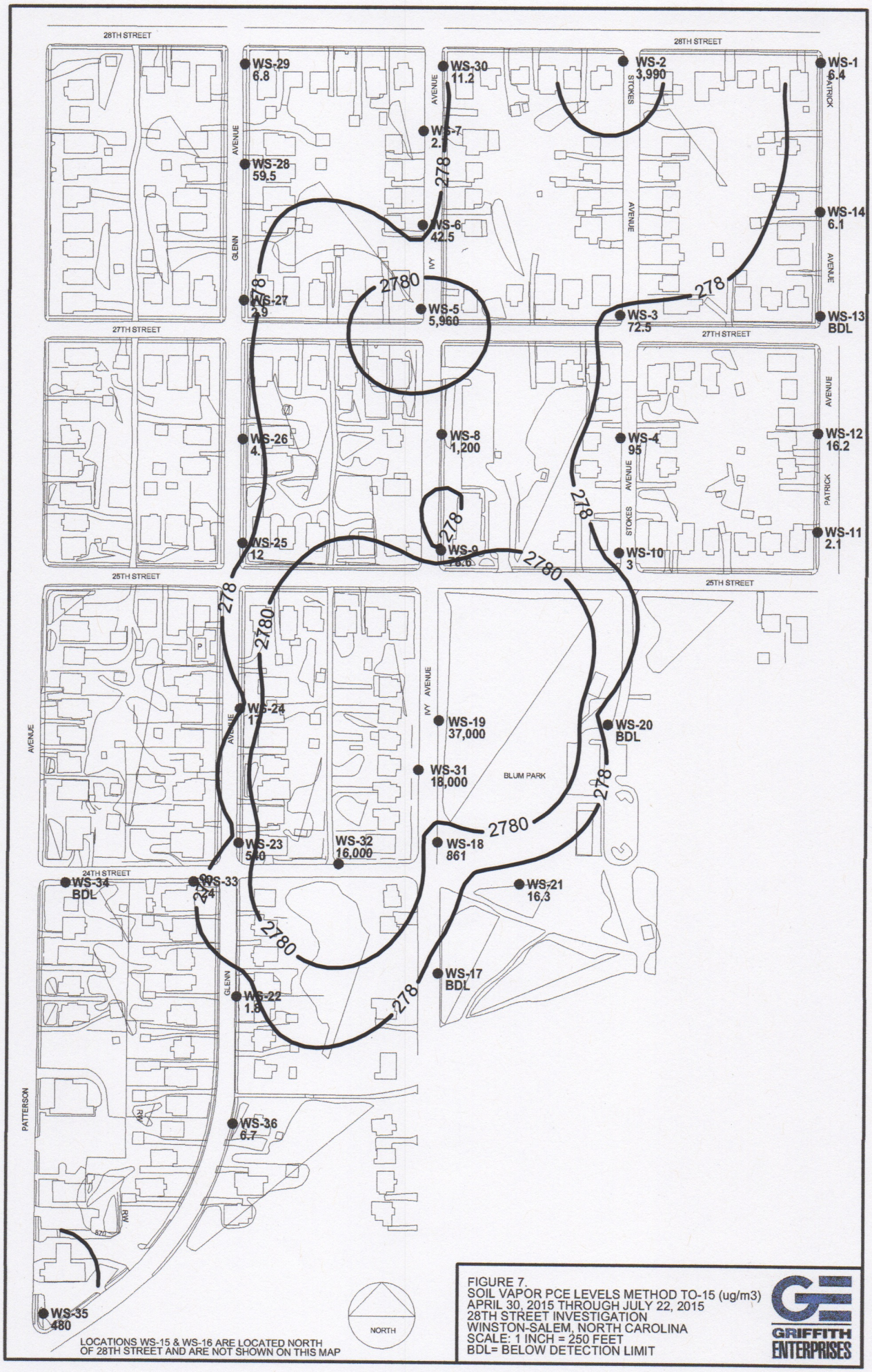
GRIFFITH ENTERPRISES



LOCATIONS WS-15 & WS-16 ARE LOCATED NORTH OF 28TH STREET AND ARE NOT SHOWN ON THIS MAP

FIGURE 6.
GROUNDWATER TCE LEVELS EPA 8260 (ug/L)
APRIL 29, 2015 THROUGH JULY 16, 2015
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA
SCALE: 1 INCH = 250 FEET
BDL= BELOW DETECTION LIMIT

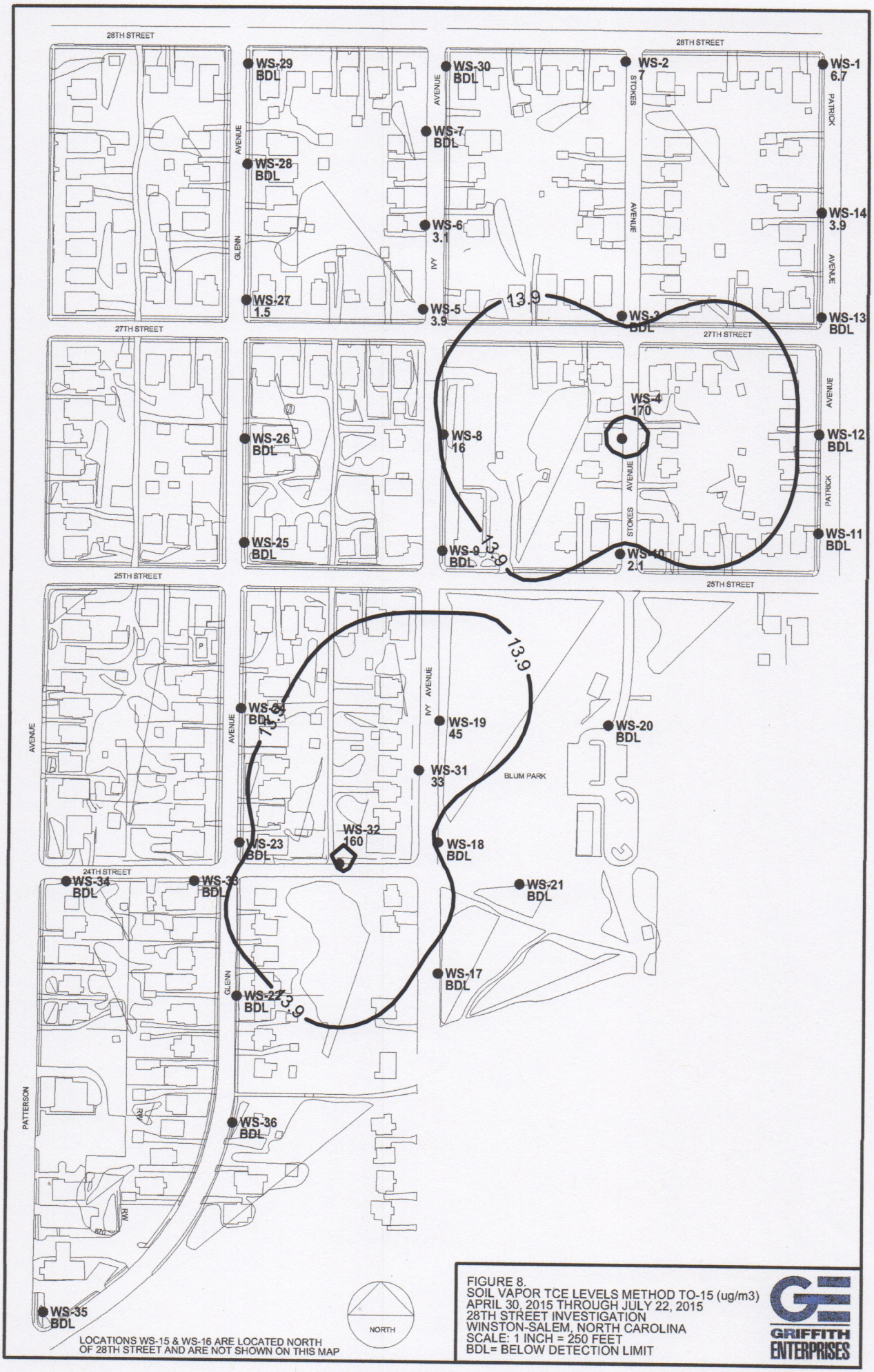
GRIFFITH ENTERPRISES



LOCATIONS WS-15 & WS-16 ARE LOCATED NORTH OF 28TH STREET AND ARE NOT SHOWN ON THIS MAP

FIGURE 7.
SOIL VAPOR PCE LEVELS METHOD TO-15 (ug/m3)
APRIL 30, 2015 THROUGH JULY 22, 2015
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA
SCALE: 1 INCH = 250 FEET
BDL= BELOW DETECTION LIMIT

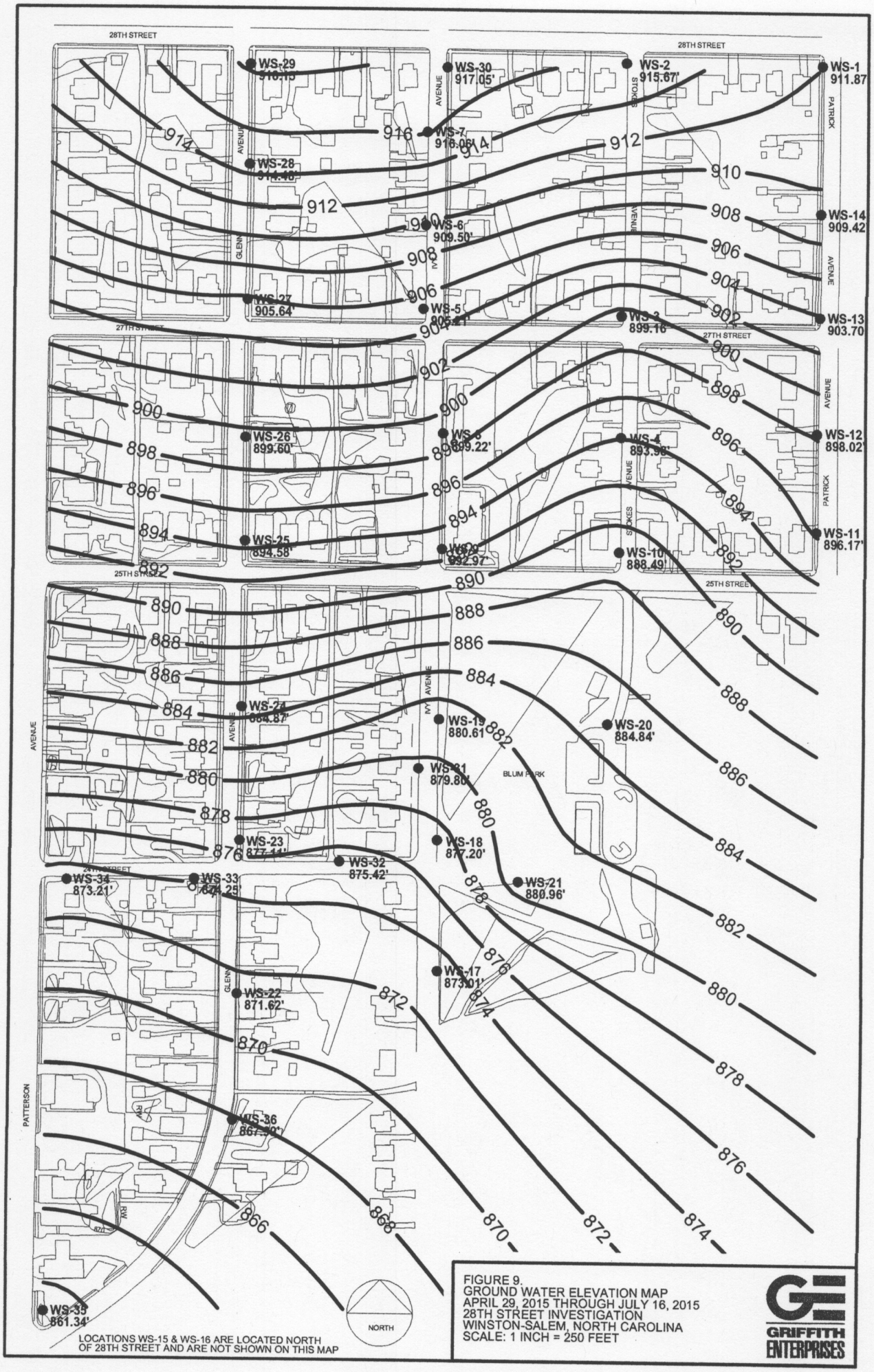
GRIFFITH ENTERPRISES



LOCATIONS WS-15 & WS-16 ARE LOCATED NORTH OF 28TH STREET AND ARE NOT SHOWN ON THIS MAP

FIGURE 8.
SOIL VAPOR TCE LEVELS METHOD TO-15 (ug/m3)
APRIL 30, 2015 THROUGH JULY 22, 2015
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA
SCALE: 1 INCH = 250 FEET
BDL= BELOW DETECTION LIMIT

GRIFFITH ENTERPRISES



LOCATIONS WS-15 & WS-16 ARE LOCATED NORTH OF 28TH STREET AND ARE NOT SHOWN ON THIS MAP

FIGURE 9.
GROUND WATER ELEVATION MAP
APRIL 29, 2015 THROUGH JULY 16, 2015
28TH STREET INVESTIGATION
WINSTON-SALEM, NORTH CAROLINA
SCALE: 1 INCH = 250 FEET

GRIFFITH ENTERPRISES

GRIFFITH ENTERPRISES

APPENDICES

GRIFFITH ENTERPRISES

LAB REPORTS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 10, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92252471001	**WS-17**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92252471002	**WS-18**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92252471003	**WS-19**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92252471004	**WS-20**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92252471005	**WS-17**	EPA 8260	GAW	12	PASI-C
92252471006	**WS-18**	EPA 8260	GAW, SNP	12	PASI-C
92252471007	**WS-19**	EPA 8260	GAW, SNP	12	PASI-C
92252471008	**WS-20**	EPA 8260	GAW	12	PASI-C

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92252471001	**WS-17**					
ASTM D2974-87	Percent Moisture	7.8	%	0.10	06/04/15 11:24	
92252471002	**WS-18**					
ASTM D2974-87	Percent Moisture	16.5	%	0.10	06/04/15 11:24	
92252471003	**WS-19**					
ASTM D2974-87	Percent Moisture	11.6	%	0.10	06/04/15 11:24	
92252471004	**WS-20**					
ASTM D2974-87	Percent Moisture	21.7	%	0.10	06/04/15 11:24	
92252471006	**WS-18**					
EPA 8260	Chloroform	1.9	ug/L	1.0	06/05/15 04:41	
EPA 8260	1,1-Dichloroethane	1.1	ug/L	1.0	06/05/15 04:41	
EPA 8260	1,1-Dichloroethene	3.0	ug/L	1.0	06/05/15 04:41	
EPA 8260	cis-1,2-Dichloroethene	15.1	ug/L	1.0	06/05/15 04:41	
EPA 8260	Tetrachloroethene	293	ug/L	4.0	06/08/15 19:35	
EPA 8260	Trichloroethene	101	ug/L	1.0	06/05/15 04:41	
92252471007	**WS-19**					
EPA 8260	Chloroform	1.5	ug/L	1.0	06/05/15 04:57	
EPA 8260	1,1-Dichloroethane	1.8	ug/L	1.0	06/05/15 04:57	
EPA 8260	1,1-Dichloroethene	2.0	ug/L	1.0	06/05/15 04:57	
EPA 8260	cis-1,2-Dichloroethene	22.7	ug/L	1.0	06/05/15 04:57	
EPA 8260	Tetrachloroethene	728	ug/L	10.0	06/08/15 19:52	
EPA 8260	Trichloroethene	44.7	ug/L	1.0	06/05/15 04:57	
92252471008	**WS-20**					
EPA 8260	Tetrachloroethene	1.1	ug/L	1.0	06/05/15 05:14	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Sample: WS-17 **Lab ID: 92252471001** Collected: 06/01/15 10:30 Received: 06/02/15 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.1	1		06/05/15 22:57	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.1	1		06/05/15 22:57	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.1	1		06/05/15 22:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		06/05/15 22:57	156-59-2	
Methylene Chloride	ND	ug/kg	16.4	1		06/05/15 22:57	75-09-2	
Tetrachloroethene	ND	ug/kg	4.1	1		06/05/15 22:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		06/05/15 22:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		06/05/15 22:57	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		06/05/15 22:57	79-01-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		06/05/15 22:57	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130	1		06/05/15 22:57	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-132	1		06/05/15 22:57	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.8**	%	0.10	1		06/04/15 11:24		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Sample: WS-18 **Lab ID: 92252471002** Collected: 06/01/15 12:30 Received: 06/02/15 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.3	1		06/05/15 23:17	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.3	1		06/05/15 23:17	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.3	1		06/05/15 23:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		06/05/15 23:17	156-59-2	
Methylene Chloride	ND	ug/kg	17.3	1		06/05/15 23:17	75-09-2	
Tetrachloroethene	ND	ug/kg	4.3	1		06/05/15 23:17	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		06/05/15 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		06/05/15 23:17	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		06/05/15 23:17	79-01-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		06/05/15 23:17	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130	1		06/05/15 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-132	1		06/05/15 23:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.5**	%	0.10	1		06/04/15 11:24		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Sample: WS-19 **Lab ID: 92252471003** Collected: 06/01/15 14:10 Received: 06/02/15 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.6	1		06/05/15 23:37	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.6	1		06/05/15 23:37	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.6	1		06/05/15 23:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/05/15 23:37	156-59-2	
Methylene Chloride	ND	ug/kg	18.5	1		06/05/15 23:37	75-09-2	C9
Tetrachloroethene	ND	ug/kg	4.6	1		06/05/15 23:37	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		06/05/15 23:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		06/05/15 23:37	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		06/05/15 23:37	79-01-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		06/05/15 23:37	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		06/05/15 23:37	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-132	1		06/05/15 23:37	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.6**	%	0.10	1		06/04/15 11:24		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Sample: WS-20 **Lab ID: 92252471004** Collected: 06/01/15 17:35 Received: 06/02/15 16:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.9	1		06/05/15 23:57	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.9	1		06/05/15 23:57	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.9	1		06/05/15 23:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		06/05/15 23:57	156-59-2	
Methylene Chloride	ND	ug/kg	19.6	1		06/05/15 23:57	75-09-2	C9
Tetrachloroethene	ND	ug/kg	4.9	1		06/05/15 23:57	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		06/05/15 23:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		06/05/15 23:57	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		06/05/15 23:57	79-01-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		06/05/15 23:57	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		06/05/15 23:57	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-132	1		06/05/15 23:57	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.7**	%	0.10	1		06/04/15 11:24		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Sample: WS-17 **Lab ID: 92252471005** Collected: 06/01/15 12:10 Received: 06/02/15 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/05/15 04:24	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/15 04:24	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/15 04:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/15 04:24	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/05/15 04:24	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/15 04:24	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/15 04:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/15 04:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/15 04:24	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/05/15 04:24	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		06/05/15 04:24	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/05/15 04:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Sample: WS-18 **Lab ID: 92252471006** Collected: 06/01/15 13:35 Received: 06/02/15 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**1.9**	ug/L	1.0	1		06/05/15 04:41	67-66-3	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		06/05/15 04:41	75-34-3	
1,1-Dichloroethene	**3.0**	ug/L	1.0	1		06/05/15 04:41	75-35-4	
cis-1,2-Dichloroethene	**15.1**	ug/L	1.0	1		06/05/15 04:41	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/05/15 04:41	75-09-2	
Tetrachloroethene	**293**	ug/L	4.0	4		06/08/15 19:35	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/15 04:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/15 04:41	79-00-5	
Trichloroethene	**101**	ug/L	1.0	1		06/05/15 04:41	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/05/15 04:41	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		06/05/15 04:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/05/15 04:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Sample: WS-19 **Lab ID: 92252471007** Collected: 06/01/15 17:15 Received: 06/02/15 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**1.5**	ug/L	1.0	1		06/05/15 04:57	67-66-3	
1,1-Dichloroethane	**1.8**	ug/L	1.0	1		06/05/15 04:57	75-34-3	
1,1-Dichloroethene	**2.0**	ug/L	1.0	1		06/05/15 04:57	75-35-4	
cis-1,2-Dichloroethene	**22.7**	ug/L	1.0	1		06/05/15 04:57	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/05/15 04:57	75-09-2	
Tetrachloroethene	**728**	ug/L	10.0	10		06/08/15 19:52	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/15 04:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/15 04:57	79-00-5	
Trichloroethene	**44.7**	ug/L	1.0	1		06/05/15 04:57	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		06/05/15 04:57	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/05/15 04:57	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/05/15 04:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Sample: WS-20 **Lab ID: 92252471008** Collected: 06/01/15 18:10 Received: 06/02/15 16:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/05/15 05:14	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/15 05:14	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/15 05:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/15 05:14	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/05/15 05:14	75-09-2	
Tetrachloroethene	**1.1**	ug/L	1.0	1		06/05/15 05:14	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/15 05:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/15 05:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/15 05:14	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/05/15 05:14	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		06/05/15 05:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/05/15 05:14	2037-26-5	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

QC Batch: MSV/32004 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92252471005, 92252471006, 92252471007, 92252471008

METHOD BLANK: 1475863 Matrix: Water
Associated Lab Samples: 92252471005, 92252471006, 92252471007, 92252471008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/05/15 02:43	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/05/15 02:43	
1,1-Dichloroethane	ug/L	ND	1.0	06/05/15 02:43	
1,1-Dichloroethene	ug/L	ND	1.0	06/05/15 02:43	
Chloroform	ug/L	ND	1.0	06/05/15 02:43	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/05/15 02:43	
Methylene Chloride	ug/L	ND	2.0	06/05/15 02:43	
Tetrachloroethene	ug/L	ND	1.0	06/05/15 02:43	
Trichloroethene	ug/L	ND	1.0	06/05/15 02:43	
1,2-Dichloroethane-d4 (S)	%	103	70-130	06/05/15 02:43	
4-Bromofluorobenzene (S)	%	98	70-130	06/05/15 02:43	
Toluene-d8 (S)	%	101	70-130	06/05/15 02:43	

LABORATORY CONTROL SAMPLE: 1475864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1,2-Trichloroethane	ug/L	50	48.8	98	70-130	
1,1-Dichloroethane	ug/L	50	48.3	97	70-130	
1,1-Dichloroethene	ug/L	50	47.7	95	70-132	
Chloroform	ug/L	50	46.6	93	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-131	
Methylene Chloride	ug/L	50	56.7	113	63-130	
Tetrachloroethene	ug/L	50	50.7	101	70-130	
Trichloroethene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

QC Batch: MSV/32011 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92252471001, 92252471002, 92252471003, 92252471004

METHOD BLANK: 1476867 Matrix: Solid
Associated Lab Samples: 92252471001, 92252471002, 92252471003, 92252471004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	6.4	06/05/15 18:39	
1,1,2-Trichloroethane	ug/kg	ND	6.4	06/05/15 18:39	
1,1-Dichloroethane	ug/kg	ND	6.4	06/05/15 18:39	
1,1-Dichloroethene	ug/kg	ND	6.4	06/05/15 18:39	
Chloroform	ug/kg	ND	6.4	06/05/15 18:39	
cis-1,2-Dichloroethene	ug/kg	ND	6.4	06/05/15 18:39	
Methylene Chloride	ug/kg	ND	25.8	06/05/15 18:39	
Tetrachloroethene	ug/kg	ND	6.4	06/05/15 18:39	
Trichloroethene	ug/kg	ND	6.4	06/05/15 18:39	
1,2-Dichloroethane-d4 (S)	%	112	70-132	06/05/15 18:39	
4-Bromofluorobenzene (S)	%	93	70-130	06/05/15 18:39	
Toluene-d8 (S)	%	102	70-130	06/05/15 18:39	

LABORATORY CONTROL SAMPLE: 1476868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	49.1	47.0	96	67-140	
1,1,2-Trichloroethane	ug/kg	49.1	47.8	97	78-138	
1,1-Dichloroethane	ug/kg	49.1	49.1	100	69-134	
1,1-Dichloroethene	ug/kg	49.1	46.9	96	67-138	
Chloroform	ug/kg	49.1	45.9	94	70-134	
cis-1,2-Dichloroethene	ug/kg	49.1	51.8	106	70-133	
Methylene Chloride	ug/kg	49.1	54.6	111	45-154	
Tetrachloroethene	ug/kg	49.1	39.7	81	71-138	
Trichloroethene	ug/kg	49.1	50.8	103	67-135	
1,2-Dichloroethane-d4 (S)	%			100	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1478513

Parameter	Units	92252214002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	20.8	24.9	119	70-130	
1,1,2-Trichloroethane	ug/kg	ND	20.8	23.2	111	70-130	
1,1-Dichloroethane	ug/kg	ND	20.8	25.5	122	70-130	
1,1-Dichloroethene	ug/kg	ND	20.8	26.1	125	49-180	
Chloroform	ug/kg	ND	20.8	23.3	112	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	20.8	25.8	124	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

MATRIX SPIKE SAMPLE: 1478513

Parameter	Units	92252214002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	ND	20.8	36.0	173	70-130	M1
Tetrachloroethene	ug/kg	ND	20.8	19.7	95	70-130	
Trichloroethene	ug/kg	ND	20.8	22.2	106	49-167	
1,2-Dichloroethane-d4 (S)	%				114	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1478512

Parameter	Units	92252471003 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	117	122	2	
4-Bromofluorobenzene (S)	%	90	92	4	
Toluene-d8 (S)	%	102	102	6	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

QC Batch: PMST/7938 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92252471001, 92252471002, 92252471003, 92252471004

SAMPLE DUPLICATE: 1474435

Parameter	Units	92252197001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	13.0	13.0	0	

SAMPLE DUPLICATE: 1474436

Parameter	Units	92252411005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.2	17.6	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92252471

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92252471005	**WS-17**	EPA 8260	MSV/32004		
92252471006	**WS-18**	EPA 8260	MSV/32004		
92252471007	**WS-19**	EPA 8260	MSV/32004		
92252471008	**WS-20**	EPA 8260	MSV/32004		
92252471001	**WS-17**	EPA 8260	MSV/32011		
92252471002	**WS-18**	EPA 8260	MSV/32011		
92252471003	**WS-19**	EPA 8260	MSV/32011		
92252471004	**WS-20**	EPA 8260	MSV/32011		
92252471001	**WS-17**	ASTM D2974-87	PMST/7938		
92252471002	**WS-18**	ASTM D2974-87	PMST/7938		
92252471003	**WS-19**	ASTM D2974-87	PMST/7938		
92252471004	**WS-20**	ASTM D2974-87	PMST/7938		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 18, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffith Enterprise

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: 34 °C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: AP 6-2-15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL/wt	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	**Date:**	6-2-15
SRF Review:	AMB	**Date:**	6-2-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO# : 92252471

92252471

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1932390

Section A Required Client Information:

Company: Griffith Enterprises, Inc
Address: 353 Jonestown Road #312
Winston-Salem NC 27104
Email To: agriffith@triad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 DAY Turn

Section B Required Project Information:

Report To: Alan Griffith
Copy To: Andrew Allen
andrew@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: ANGELA BAIONI
Pace Profile #: 6044-9, 8

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): EPA 8260 PARTIAL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (92252471)
1	WS-17	SL	G			6/1/15	10:30	—	6									X		001
2	WS-17	WT	G			6/1/15	12:10	—	3									X		005
3	WS-18	SL	G			6/1/15	12:30	—	6									X		002
4	WS-18	WT	G			6/1/15	1:35	—	3									X		006
5	WS-19	SL	G			6/1/15	2:10	—	6									X		003
6	WS-19	WT	G			6/1/15	5:15	—	3									X		007
7	WS-20	SL	G			6/1/15	5:35	—	6									X		004
8	WS-20	WT	G			6/1/15	6:10	—	3									X		008
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Analyze for: chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride	[signature]	6/2/15	6 AM	[signature] Pace	6-2-15	0630	
	[signature]	6-2-15	1630	[signature] Pace	6-2-15	16:30	3.1 ✓ ✓ ✓

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/1/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Receipt Form

Pace Analytical Services, Inc.
Charlotte

Pace Analytical®
www.pacelabs.com

Login Summary

Workorder: 92252471
Report Version: B
Min Sample Due: 06/09/2015 19:00
Max Sample Due: 06/09/2015 19:00

Client Work ID: 28TH STREET PROJECT
Client: Griffith Enterprises
Profile: 6044

Lab ID	Sample ID	Collected	Received	Matrix	Report Properties	Location	Due Date
92252471001	WS-17	06/01/15 10:30	06/02/15 16:30	SL	PTR		06/09/15
92252471002	WS-18	06/01/15 12:30	06/02/15 16:30	SL	PTR		06/09/15
92252471003	WS-19	06/01/15 14:10	06/02/15 16:30	SL	PTR		06/09/15
92252471004	WS-20	06/01/15 17:35	06/02/15 16:30	SL	PTR		06/09/15
92252471005	WS-17	06/01/15 12:10	06/02/15 16:30	WT	PTR		06/09/15
92252471006	WS-18	06/01/15 13:35	06/02/15 16:30	WT	PTR		06/09/15
92252471007	WS-19	06/01/15 17:15	06/02/15 16:30	WT	PTR		06/09/15
92252471008	WS-20	06/01/15 18:10	06/02/15 16:30	WT	PTR		06/09/15

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1932390

Section A Required Client Information:

Company: Griffith Enterprises Inc
Address: 353 Jonestown Road #312
Winston-Salem NC 27104
Email To: griffithe@triad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:

Report To: Alan Griffith
Copy To: Andrew Allen
andrew@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: ANGELA BAIONI
Pace Profile #: 6044-9, 8

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: EPA 8260 PARTIAL

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WS-17	SL	G			6/1/15	10:30	—	6									X		001
2	WS-17	WT	G			6/1/15	12:10	—	3									X		002
3	WS-18	SL	G			6/1/15	12:30	—	6									X		003
4	WS-18	WT	G			6/1/15	1:35	—	3									X		004
5	WS-19	SL	G			6/1/15	2:10	—	6									X		005
6	WS-19	WT	G			6/1/15	5:15	—	3									X		006
7	WS-20	SL	G			6/1/15	5:35	—	6									X		007
8	WS-20	WT	G			6/1/15	6:10	—	3									X		008
9																				
10																				
11																				
12																				

9225471

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Analyze for: Chloroform, tetrachloroethene,		6/2/15	6 AM		6-2-15	0630				
trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane,										
1,1-dichloroethene, 1,1-dichloroethane,		6-2-15	1630		6-2-15	16:40	3.1	Y	N	Y
cis-1,2-dichloroethene, methylene chloride										

2

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 6/2/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1932390

Section A Required Client Information:

Company:	Griffith Enterprises Inc
Address:	353 Jonestown Road #312 Winston-Salem NC 27104
Email To:	andrew@griffithfed.net.com
Phone:	(336) 399-0096
Fax:	(336) 722-0884
Requested Due Date/TAT:	5 DAY TURN

Section B Required Project Information:

Report To:	Alan Griffith
Copy To:	ANDREW Allen
Purchase Order No.:	
Project Name:	29th Street Project
Project Number:	

Section C Invoice Information:

Attention:	M. Alan Griffith LG
Company Name:	Griffith Enterprises Inc
Address:	SAME AS SECTION A
Pace Quote Reference:	18259
Pace Project Manager:	ANGELA RAIONI
Pace Profile #:	11144-9.8

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N; Analysis Test: EPA 8260 Full List

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WS-17	SL	G			6/1/15	10:30	—	6									X		001
2	WS-17	WT	G			6/1/15	12:10	—	3									X		002
3	WS-18	SL	G			6/1/15	12:30	—	6									X		003
4	WS-18	WT	G			6/1/15	1:35	—	3									X		004
5	WS-19	SL	G			6/1/15	2:10	—	6									X		005
6	WS-19	WT	G			6/1/15	5:15	—	3									X		006
7	WS-20	SL	G			6/1/15	5:35	—	6									X		007
8	WS-20	WT	G			6/1/15	6:10	—	3									X		008
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Analyze for: Chloroform tetrachloroethene		6/2/15	6 AM							
trichloroethene 1,1,1-trichloroethane 1,1,2-trichloroethane										
1,1-dichloroethene 1,1-dichloroethene					6-2-15	6:30	3.1	✓	N	✓
cis-1,2-dichloroethene Methylene Chloride										

3

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Alan Griffith

SIGNATURE of SAMPLER: M. Alan Griffith

DATE Signed (MM/DD/YY): 6/2/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 18, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffith Enterprise

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: 34 °C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: AP 6-2-15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL/wt	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	**Date:**	6-2-15
SRF Review:	AMB	**Date:**	6-2-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO# : 92252471

92252471

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

1932390

Section A Required Client Information:

Company: Griffith Enterprises, Inc
Address: 353 Jonestown Road #312
Winston-Salem NC 27104
Email To: agriffith@triad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 DAY Turn

Section B Required Project Information:

Report To: Alan Griffith
Copy To: Andrew Allen
andrew@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: Angela Baioni
Pace Profile #: 6044-9, 8

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: EPA 8260 PARTIAL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92252471
1	WS-17	SL	G			6/1/15	10:30	—	6								X			001
2	WS-17	WT	G			6/1/15	12:10	—	3								X			005
3	WS-18	SL	G			6/1/15	12:30	—	6								X			002
4	WS-18	WT	G			6/1/15	1:35	—	3								X			006
5	WS-19	SL	G			6/1/15	2:10	—	6								X			003
6	WS-19	WT	G			6/1/15	5:15	—	3								X			007
7	WS-20	SL	G			6/1/15	5:35	—	6								X			004
8	WS-20	WT	G			6/1/15	6:10	—	3								X			008
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Analyze for: chloroform, tetrachloroethene,	[signature]	6/2/15	6 AM	[signature] Pace	6-2-15	0630	
trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane,							
1,1-dichloroethene, 1,1-dichloroethane,	[signature] Pace	6-2-15	1630	[signature] Pace	6-2-15	16:30	3.1 ✓ ✓ ✓
cis-1,2-dichloroethene, methylene chloride							

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/2/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Receipt Form

Pace Analytical Services, Inc.
Charlotte

Login Summary

Workorder:	92252471	Client Work ID:	28TH STREET PROJECT
Report Version:	B	Client:	Griffith Enterprises
Min Sample Due:	06/09/2015 19:00	Profile:	6044
Max Sample Due:	06/09/2015 19:00		

Lab ID	Sample ID	Collected	Received	Matrix	Report Properties	Location	Due Date
92252471001	WS-17	06/01/15 10:30	06/02/15 16:30	SL	PTR		06/09/15
92252471002	WS-18	06/01/15 12:30	06/02/15 16:30	SL	PTR		06/09/15
92252471003	WS-19	06/01/15 14:10	06/02/15 16:30	SL	PTR		06/09/15
92252471004	WS-20	06/01/15 17:35	06/02/15 16:30	SL	PTR		06/09/15
92252471005	WS-17	06/01/15 12:10	06/02/15 16:30	WT	PTR		06/09/15
92252471006	WS-18	06/01/15 13:35	06/02/15 16:30	WT	PTR		06/09/15
92252471007	WS-19	06/01/15 17:15	06/02/15 16:30	WT	PTR		06/09/15
92252471008	WS-20	06/01/15 18:10	06/02/15 16:30	WT	PTR		06/09/15

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Page: 1 of 1

1932390

Section A Required Client Information:

Company: Griffith Enterprises Inc
Address: 353 Jonestown Road #312
Winston-Salem NC 27104
Email To: griffithe@triad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:

Report To: Alan Griffith
Copy To: Andrew Allen
andrewa@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: ANGELA BAIONI
Pace Profile #: 6044-9, 8

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	EPA 8260 PARTIAL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92252471
1	WS-17	SL	G			6/1/15	10:30	—	6									X			001
2	WS-17	WT	G			6/1/15	12:10	—	3									X			002
3	WS-18	SL	G			6/1/15	12:30	—	6									X			003
4	WS-18	WT	G			6/1/15	1:35	—	3									X			004
5	WS-19	SL	G			6/1/15	2:10	—	6									X			005
6	WS-19	WT	G			6/1/15	5:15	—	3									X			006
7	WS-20	SL	G			6/1/15	5:35	—	6									X			007
8	WS-20	WT	G			6/1/15	6:10	—	3									X			008
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Analyze for: Chloroform, tetrachloroethene,		6/2/15	6 AM		6-2-15	0630				
trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane,										
1,1-dichloroethene, 1,1-dichloroethane,		6-2-15	1630		6-2-15	16:40	3.1	Y	N	Y
cis-1,2-dichloroethene, methylene chloride										

2

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith
SIGNATURE of SAMPLER: M. Alan Griffith
DATE Signed (MM/DD/YY): 6/2/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

1932390

Section A Required Client Information:

Company: Griffith Enterprises Inc
Address: 353 Jonestown Road #312, Winston-Salem NC 27104
Email To: alan@griffithfred.net.com
Phone: (336) 399-0096 Fax: (336) 722-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:

Report To: Alan Griffith
Copy To: Andrew Allen
andrewa@cityofws.org
Purchase Order No.:
Project Name: 29th Street Prospect
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: ANGELA BAIONI
Pace Profile #: 11144-9.8

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N; Analysis Test: EPA 8260 Full List

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WS-17	SL	G			6/1/15	10:30	—	6									X		001
2	WS-17	WT	G			6/1/15	12:10	—	3									X		002
3	WS-18	SL	G			6/1/15	12:30	—	6									X		003
4	WS-18	WT	G			6/1/15	1:35	—	3									X		004
5	WS-19	SL	G			6/1/15	2:10	—	6									X		005
6	WS-19	WT	G			6/1/15	5:15	—	3									X		006
7	WS-20	SL	G			6/1/15	5:35	—	6									X		007
8	WS-20	WT	G			6/1/15	6:10	—	3									X		008
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Analyze for: Chloroform tetrachloroethene		6/2/15	6 AM							
trichloroethene 1,1,1-trichloroethane 1,1,2-trichloroethane										
1,1-dichloroethene 1,1-dichloroethene					6-2-15	6:30	3.1	✓	N	✓
cis-1,2-dichloroethene methylene chloride										

3

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 6/2/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 09, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92252466001	**WS-17**	TO-15	MJL	9	PASI-M
92252466002	**WS-18**	TO-15	MJL	9	PASI-M
92252466003	**WS-19**	TO-15	MJL	9	PASI-M
92252466004	**WS-20**	TO-15	MJL	9	PASI-M

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92252466001	**WS-17**					
TO-15	Chloroform	21.8	ug/m3	0.86	06/05/15 14:50	
TO-15	Tetrachloroethene	8.2	ug/m3	1.2	06/05/15 14:50	
92252466002	**WS-18**					
TO-15	Tetrachloroethene	675	ug/m3	6.0	06/06/15 13:36	
TO-15	Trichloroethene	4.4	ug/m3	0.96	06/05/15 15:17	
92252466003	**WS-19**					
TO-15	Chloroform	14.0	ug/m3	0.86	06/05/15 15:45	
TO-15	1,1-Dichloroethane	1.5	ug/m3	1.4	06/05/15 15:45	
TO-15	1,1-Dichloroethene	1.5	ug/m3	1.4	06/05/15 15:45	
TO-15	Tetrachloroethene	8900	ug/m3	48.0	06/06/15 13:58	A3
TO-15	Trichloroethene	31.8	ug/m3	0.96	06/05/15 15:45	
92252466004	**WS-20**					
TO-15	Chloroform	6.2	ug/m3	0.86	06/05/15 16:12	
TO-15	Tetrachloroethene	4.0	ug/m3	1.2	06/06/15 13:12	

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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Sample: WS-17 **Lab ID: 92252466001** Collected: 06/01/15 12:14 Received: 06/02/15 16:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**21.8**	ug/m3	0.86	1.74		06/05/15 14:50	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/05/15 14:50	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/05/15 14:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/05/15 14:50	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		06/05/15 14:50	75-09-2	
Tetrachloroethene	**8.2**	ug/m3	1.2	1.74		06/05/15 14:50	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/05/15 14:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/05/15 14:50	79-00-5	
Trichloroethene	ND	ug/m3	0.96	1.74		06/05/15 14:50	79-01-6	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Sample: WS-18 **Lab ID: 92252466002** Collected: 06/01/15 13:36 Received: 06/02/15 16:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	0.86	1.74		06/05/15 15:17	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/05/15 15:17	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/05/15 15:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/05/15 15:17	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		06/05/15 15:17	75-09-2	
Tetrachloroethene	**675**	ug/m3	6.0	8.7		06/06/15 13:36	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/05/15 15:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/05/15 15:17	79-00-5	
Trichloroethene	**4.4**	ug/m3	0.96	1.74		06/05/15 15:17	79-01-6	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Sample: WS-19 **Lab ID: 92252466003** Collected: 06/01/15 16:48 Received: 06/02/15 16:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**14.0**	ug/m3	0.86	1.74		06/05/15 15:45	67-66-3	
1,1-Dichloroethane	**1.5**	ug/m3	1.4	1.74		06/05/15 15:45	75-34-3	
1,1-Dichloroethene	**1.5**	ug/m3	1.4	1.74		06/05/15 15:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/05/15 15:45	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		06/05/15 15:45	75-09-2	
Tetrachloroethene	**8900**	ug/m3	48.0	69.6		06/06/15 13:58	127-18-4	A3
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/05/15 15:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/05/15 15:45	79-00-5	
Trichloroethene	**31.8**	ug/m3	0.96	1.74		06/05/15 15:45	79-01-6	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Sample: WS-20 **Lab ID: 92252466004** Collected: 06/01/15 18:00 Received: 06/02/15 16:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**6.2**	ug/m3	0.86	1.74		06/05/15 16:12	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/05/15 16:12	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/05/15 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/05/15 16:12	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		06/05/15 16:12	75-09-2	
Tetrachloroethene	**4.0**	ug/m3	1.2	1.74		06/06/15 13:12	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/05/15 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/05/15 16:12	79-00-5	
Trichloroethene	ND	ug/m3	0.96	1.74		06/05/15 16:12	79-01-6	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

QC Batch: AIR/23402 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92252466001, 92252466002, 92252466003, 92252466004

METHOD BLANK: 1986302 Matrix: Air
Associated Lab Samples: 92252466001, 92252466002, 92252466003, 92252466004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/05/15 10:08	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/05/15 10:08	
1,1-Dichloroethane	ug/m3	ND	0.82	06/05/15 10:08	
1,1-Dichloroethene	ug/m3	ND	0.81	06/05/15 10:08	
Chloroform	ug/m3	ND	0.50	06/05/15 10:08	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/05/15 10:08	
Methylene Chloride	ug/m3	ND	3.5	06/05/15 10:08	
Tetrachloroethene	ug/m3	ND	0.69	06/05/15 10:08	
Trichloroethene	ug/m3	ND	0.55	06/05/15 10:08	

LABORATORY CONTROL SAMPLE: 1986303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	51.1	92	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	58.6	106	66-138	
1,1-Dichloroethane	ug/m3	41.2	43.8	106	68-137	
1,1-Dichloroethene	ug/m3	40.3	41.5	103	73-138	
Chloroform	ug/m3	49.7	51.6	104	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	43.4	108	64-137	
Methylene Chloride	ug/m3	35.3	33.0	93	64-130	
Tetrachloroethene	ug/m3	69	70.4	102	66-137	
Trichloroethene	ug/m3	54.6	58.5	107	70-134	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3	This result is reported from a serial dilution.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92252466

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92252466001	**WS-17**	TO-15	AIR/23402		
92252466002	**WS-18**	TO-15	AIR/23402		
92252466003	**WS-19**	TO-15	AIR/23402		
92252466004	**WS-20**	TO-15	AIR/23402		

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15975

Page: 1 of 1

Section A Required Client Information:
Company: Griffith Enterprises, Inc
Address: 555 Jonestown Road, #312
Winston-Salem NC 27104
Email To: griffithetriad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 DAY Turn

Section B Required Project Information:
Report To: M. Alan Griffith LG
Copy To: Andrew Allen
andrew.allen@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:
Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 19259
Pace Project Manager/Sales Rep. Pace NC
Pace Profile #: 0044-10

Program: UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☒ RCRA ☐ Other____

Location of Sampling by State: NC

Reporting Units: ug/m³ ☒ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other____

Section D Required Client Information
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	Section D Required Client Information (AIR SAMPLE ID)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: TO-14	TO-15 PARTIAL	Pace Lab ID
1	WS-17	1LC	—	6/1/15	12:04	6/1/15	12:14	28	0.5	2237	0622	X	X	001
2	WS-18	1LC	—	6/1/15	1:20	6/1/15	1:36	27	0.5	1776	0695	X	X	002
3	WS-19	1LC	—	6/1/15	4:38	6/1/15	4:48	29	0	2632	0920	X	X	003
4	WS-20	1LC	—	6/1/15	5:50	6/1/15	6:00	22	0	2607	0690	X	X	004
5														
6														
7														
8														
9														
10														
11														
12														

Method: PM10 | 3C- Fixed Gas (%) | TO-3 | TO-3M (Methane) | TO-4 (PCBs) | TO-13 (PAH) | TO-14 | TO-15 PARTIAL | TO15 Short List*

92252466

Pace Lab ID

WO# : 92252466

92252466

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6/2/15	6 AM	Scott Lego PACE	6-2-15	0630
Scott Lego PACE	6-2-15	1630	[signature]	6/2/15	1630

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith LG
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 6/1/15

ORIGINAL

Sample Receipt Form

Pace Analytical Services, Inc.
Charlotte

Login Summary

Workorder: 92252466
Report Version: B
Min Sample Due: 06/16/2015 19:00
Max Sample Due: 06/16/2015 19:00

Client Work ID: 28TH STREET PROJECT
Client: Griffith Enterprises
Profile: 6044

Lab ID	Sample ID	Collected	Received	Matrix	Report Properties	Location	Due Date
92252466001	WS-17	06/01/15 12:14	06/02/15 16:30	AR	PTR		06/16/15
92252466002	WS-18	06/01/15 13:36	06/02/15 16:30	AR	PTR		06/16/15
92252466003	WS-19	06/01/15 16:48	06/02/15 16:30	AR	PTR		06/16/15
92252466004	WS-20	06/01/15 18:00	06/02/15 16:30	AR	PTR		06/16/15

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Page: 1 of 1

Section A Required Client Information:

Company: Griffith Enterprises, Inc
Address: 555 Jonestown Road #312
Winston-Salem NC 27104
Email To: agriffithetriad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 Day Turn

Section B Required Project Information:

Report To: M. Allen Griffith LG
Copy To: Andrew Allen
andrew@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Allen Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Pace NC
Pace Profile #: 00014-10

Program: UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☒ RCRA ☐ Other____

Location of Sampling by State NC

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other____

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab Date	Time	Composite - Date	Time	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List+	Pace Lab ID
1	WS-17	1LC	—	6/1/15	12:04	6/1/15	12:14	28	0.5	2237	0622							X			001
2	WS-18	1LC	—	6/1/15	1:26	6/1/15	1:36	27	0.5	1776	0695							X			002
3	WS-19	1LC	—	6/1/15	4:38	6/1/15	4:48	29	0	2632	0920							X			003
4	WS-20	1LC	—	6/1/15	5:50	6/1/15	6:00	22	0	2607	0690							X			004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

92252466

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
M. Allen Griffith	6/2/15	6AM	Scott Long MAL	6/2/15	0630
Scott Long MAL	6/2/15	1630	[illegible]	6/2/15	1630

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Allen Griffith LG
SIGNATURE of SAMPLER: M. Allen Griffith
DATE Signed (MM / DD / YY) 6/1/15

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

2

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15975 Page: 1 of 1

Section A Required Client Information:
Company: Griffith Enterprises Inc
Address: 555 Jonestown Road #312
Winston-Salem NC 27104
Email To: griffithetrad.rr.com
Phone: 336) 399-0006 Fax: (336) 722-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:
Report To: M Allen Griffith LG
Copy To: Andrew Allen
andrewa@citycfws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:
Attention: M Allen Griffith LG
Company Name: Griffith Enterprises Inc
Address: Same As Section A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Pace NC
Pace Profile #: 00619-10

Program: UST | Superfund | Emissions | Clean Air Act | Voluntary Clean Up | Dry Clean | X RCRA | Other____

Location of Sampling by State NC

Reporting Units: ug/m³ X | mg/m³ ___ | PPBV ___ | PPMV ___ | Other ___

Report Level II.___ III.___ IV.___ Other____

Section D Required Client Information

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	WS-17	1LC	—	6/1/15	12:04	6/1/15	12:14	28	0.5	2237	0622							X			001
2	WS-18	1LC	—	6/1/15	1:26	6/1/15	1:36	27	0.5	1776	0695							X			002
3	WS-19	1LC	—	6/1/15	4:38	6/1/15	4:48	29	0	2632	0920							X			003
4	WS-20	1LC	—	6/1/15	5:50	6/1/15	6:00	22	0	2607	0690							X			004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

92252466

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6/2/15	6:00 AM	[signature]		
[signature]			[signature]	6/2/15	11:30

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M Allen Griffith LG
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 6/1/15

SAMPLE CONDITIONS

	Received on Ice	Custody Sealed Cooler	Samples Intact
Temp in °C	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

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Page: 1 of 1

Section A Required Client Information:

Company: [illegible] Enterprises Inc
Address: 555 Jonestown Road SE
Winston-Salem NC 27104
Email To: [illegible]@shetrad.rr.com
Phone: 336 [illegible] Fax: (336) 722-0884
Requested Due Date/TAT: 5 Day Turn

Section B Required Project Information:

Report To: M Alan [illegible]
Copy To: Andrew Allen
andrew@[illegible]
Purchase Order No.:
Project Name: 28th Street Hoop
Project Number:

Section C Invoice Information:

Attention: M Alan [illegible]
Company Name: [illegible] Enterprises Inc
Address: Same as Section A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Kacy NC
Pace Profile #: [illegible]

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / RCRA (X) / Other

Location of Sampling by State: NC

Reporting Units: ug/m³ (X) mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	WS-17	1LC	–	6/1/15	12:00	6/1/15	12:4	28	0.5	2237	0622							X			92524660
2	WS-18	1LC	–	6/1/15	1:26	6/1/15	1:36	27	0.5	1776	0695							X			[illegible]
3	WS-19	1LC	–	6/1/15	4:38	6/1/15	4:48	29	0	2632	0920							X			[illegible]
4	WS-20	1LC	–	6/1/15	5:50	6/1/15	6:00	22	0	2607	0690							X			[illegible]
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
M Alan [illegible]	6/1/15	6:00 pm			

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M Alan [illegible]
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 6/1/15

4

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 10, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92252701001	**WS-21**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92252701002	**WS-22**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92252701003	**WS-23**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92252701004	**WS-21**	EPA 8260	GAW	12	PASI-C
92252701005	**WS-22**	EPA 8260	GAW	12	PASI-C
92252701006	**WS-23**	EPA 8260	GAW	12	PASI-C

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92252701001	**WS-21**					
ASTM D2974-87	Percent Moisture	9.5	%	0.10	06/09/15 19:21	
92252701002	**WS-22**					
ASTM D2974-87	Percent Moisture	12.7	%	0.10	06/09/15 19:21	
92252701003	**WS-23**					
ASTM D2974-87	Percent Moisture	12.2	%	0.10	06/09/15 19:21	
92252701005	**WS-22**					
EPA 8260	Chloroform	1.6	ug/L	1.0	06/05/15 06:55	
92252701006	**WS-23**					
EPA 8260	Chloroform	1.3	ug/L	1.0	06/05/15 07:12	
EPA 8260	Tetrachloroethene	13.7	ug/L	1.0	06/05/15 07:12	
EPA 8260	Trichloroethene	3.9	ug/L	1.0	06/05/15 07:12	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Sample: WS-21 **Lab ID: 92252701001** Collected: 06/02/15 10:03 Received: 06/03/15 17:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	5.0	1		06/08/15 23:22	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.0	1		06/08/15 23:22	75-34-3	
1,1-Dichloroethene	ND	ug/kg	5.0	1		06/08/15 23:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		06/08/15 23:22	156-59-2	
Methylene Chloride	ND	ug/kg	19.9	1		06/08/15 23:22	75-09-2	
Tetrachloroethene	ND	ug/kg	5.0	1		06/08/15 23:22	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		06/08/15 23:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		06/08/15 23:22	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		06/08/15 23:22	79-01-6	
Surrogates								
Toluene-d8 (S)	105	%	70-130	1		06/08/15 23:22	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		06/08/15 23:22	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-132	1		06/08/15 23:22	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.5**	%	0.10	1		06/09/15 19:21		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Sample: WS-22 **Lab ID: 92252701002** Collected: 06/02/15 13:00 Received: 06/03/15 17:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.8	1		06/06/15 02:35	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.8	1		06/06/15 02:35	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.8	1		06/06/15 02:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		06/06/15 02:35	156-59-2	
Methylene Chloride	ND	ug/kg	19.3	1		06/06/15 02:35	75-09-2	C9
Tetrachloroethene	ND	ug/kg	4.8	1		06/06/15 02:35	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		06/06/15 02:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		06/06/15 02:35	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		06/06/15 02:35	79-01-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		06/06/15 02:35	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		06/06/15 02:35	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-132	1		06/06/15 02:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.7**	%	0.10	1		06/09/15 19:21		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Sample: WS-23 **Lab ID: 92252701003** Collected: 06/02/15 14:00 Received: 06/03/15 17:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.7	1		06/06/15 02:55	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.7	1		06/06/15 02:55	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.7	1		06/06/15 02:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		06/06/15 02:55	156-59-2	
Methylene Chloride	ND	ug/kg	18.8	1		06/06/15 02:55	75-09-2	C9
Tetrachloroethene	ND	ug/kg	4.7	1		06/06/15 02:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		06/06/15 02:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		06/06/15 02:55	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		06/06/15 02:55	79-01-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1		06/06/15 02:55	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		06/06/15 02:55	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-132	1		06/06/15 02:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.2**	%	0.10	1		06/09/15 19:21		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Sample: WS-21 **Lab ID: 92252701004** Collected: 06/02/15 11:10 Received: 06/03/15 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/05/15 06:38	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/15 06:38	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/15 06:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/15 06:38	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/05/15 06:38	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/15 06:38	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/15 06:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/15 06:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/15 06:38	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		06/05/15 06:38	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/05/15 06:38	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/05/15 06:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Sample: WS-22 **Lab ID: 92252701005** Collected: 06/02/15 13:30 Received: 06/03/15 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**1.6**	ug/L	1.0	1		06/05/15 06:55	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/15 06:55	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/15 06:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/15 06:55	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/05/15 06:55	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/05/15 06:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/15 06:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/15 06:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/05/15 06:55	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		06/05/15 06:55	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		06/05/15 06:55	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/05/15 06:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Sample: WS-23 **Lab ID: 92252701006** Collected: 06/02/15 15:15 Received: 06/03/15 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**1.3**	ug/L	1.0	1		06/05/15 07:12	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/05/15 07:12	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/05/15 07:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/05/15 07:12	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/05/15 07:12	75-09-2	
Tetrachloroethene	**13.7**	ug/L	1.0	1		06/05/15 07:12	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/05/15 07:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/05/15 07:12	79-00-5	
Trichloroethene	**3.9**	ug/L	1.0	1		06/05/15 07:12	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		06/05/15 07:12	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/05/15 07:12	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/05/15 07:12	2037-26-5	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

QC Batch: MSV/32004 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92252701004, 92252701005, 92252701006

METHOD BLANK: 1475863 Matrix: Water
Associated Lab Samples: 92252701004, 92252701005, 92252701006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/05/15 02:43	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/05/15 02:43	
1,1-Dichloroethane	ug/L	ND	1.0	06/05/15 02:43	
1,1-Dichloroethene	ug/L	ND	1.0	06/05/15 02:43	
Chloroform	ug/L	ND	1.0	06/05/15 02:43	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/05/15 02:43	
Methylene Chloride	ug/L	ND	2.0	06/05/15 02:43	
Tetrachloroethene	ug/L	ND	1.0	06/05/15 02:43	
Trichloroethene	ug/L	ND	1.0	06/05/15 02:43	
1,2-Dichloroethane-d4 (S)	%	103	70-130	06/05/15 02:43	
4-Bromofluorobenzene (S)	%	98	70-130	06/05/15 02:43	
Toluene-d8 (S)	%	101	70-130	06/05/15 02:43	

LABORATORY CONTROL SAMPLE: 1475864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1,2-Trichloroethane	ug/L	50	48.8	98	70-130	
1,1-Dichloroethane	ug/L	50	48.3	97	70-130	
1,1-Dichloroethene	ug/L	50	47.7	95	70-132	
Chloroform	ug/L	50	46.6	93	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-131	
Methylene Chloride	ug/L	50	56.7	113	63-130	
Tetrachloroethene	ug/L	50	50.7	101	70-130	
Trichloroethene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

QC Batch: MSV/32011
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92252701002, 92252701003

METHOD BLANK: 1476867
Matrix: Solid
Associated Lab Samples: 92252701002, 92252701003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	6.4	06/05/15 18:39	
1,1,2-Trichloroethane	ug/kg	ND	6.4	06/05/15 18:39	
1,1-Dichloroethane	ug/kg	ND	6.4	06/05/15 18:39	
1,1-Dichloroethene	ug/kg	ND	6.4	06/05/15 18:39	
Chloroform	ug/kg	ND	6.4	06/05/15 18:39	
cis-1,2-Dichloroethene	ug/kg	ND	6.4	06/05/15 18:39	
Methylene Chloride	ug/kg	ND	25.8	06/05/15 18:39	
Tetrachloroethene	ug/kg	ND	6.4	06/05/15 18:39	
Trichloroethene	ug/kg	ND	6.4	06/05/15 18:39	
1,2-Dichloroethane-d4 (S)	%	112	70-132	06/05/15 18:39	
4-Bromofluorobenzene (S)	%	93	70-130	06/05/15 18:39	
Toluene-d8 (S)	%	102	70-130	06/05/15 18:39	

LABORATORY CONTROL SAMPLE: 1476868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	49.1	47.0	96	67-140	
1,1,2-Trichloroethane	ug/kg	49.1	47.8	97	78-138	
1,1-Dichloroethane	ug/kg	49.1	49.1	100	69-134	
1,1-Dichloroethene	ug/kg	49.1	46.9	96	67-138	
Chloroform	ug/kg	49.1	45.9	94	70-134	
cis-1,2-Dichloroethene	ug/kg	49.1	51.8	106	70-133	
Methylene Chloride	ug/kg	49.1	54.6	111	45-154	
Tetrachloroethene	ug/kg	49.1	39.7	81	71-138	
Trichloroethene	ug/kg	49.1	50.8	103	67-135	
1,2-Dichloroethane-d4 (S)	%			100	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1478513

Parameter	Units	92252214002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	20.8	24.9	119	70-130	
1,1,2-Trichloroethane	ug/kg	ND	20.8	23.2	111	70-130	
1,1-Dichloroethane	ug/kg	ND	20.8	25.5	122	70-130	
1,1-Dichloroethene	ug/kg	ND	20.8	26.1	125	49-180	
Chloroform	ug/kg	ND	20.8	23.3	112	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	20.8	25.8	124	70-130	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

MATRIX SPIKE SAMPLE: 1478513

Parameter	Units	92252214002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	ND	20.8	36.0	173	70-130	M1
Tetrachloroethene	ug/kg	ND	20.8	19.7	95	70-130	
Trichloroethene	ug/kg	ND	20.8	22.2	106	49-167	
1,2-Dichloroethane-d4 (S)	%				114	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1478512

Parameter	Units	92252471003 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	117	122	2	
4-Bromofluorobenzene (S)	%	90	92	4	
Toluene-d8 (S)	%	102	102	6	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

QC Batch: MSV/32037
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92252701001

METHOD BLANK: 1478834
Matrix: Solid
Associated Lab Samples: 92252701001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	6.4	06/08/15 20:43	
1,1,2-Trichloroethane	ug/kg	ND	6.4	06/08/15 20:43	
1,1-Dichloroethane	ug/kg	ND	6.4	06/08/15 20:43	
1,1-Dichloroethene	ug/kg	ND	6.4	06/08/15 20:43	
Chloroform	ug/kg	ND	6.4	06/08/15 20:43	
cis-1,2-Dichloroethene	ug/kg	ND	6.4	06/08/15 20:43	
Methylene Chloride	ug/kg	ND	25.5	06/08/15 20:43	
Tetrachloroethene	ug/kg	ND	6.4	06/08/15 20:43	
Trichloroethene	ug/kg	ND	6.4	06/08/15 20:43	
1,2-Dichloroethane-d4 (S)	%	116	70-132	06/08/15 20:43	
4-Bromofluorobenzene (S)	%	91	70-130	06/08/15 20:43	
Toluene-d8 (S)	%	106	70-130	06/08/15 20:43	

LABORATORY CONTROL SAMPLE: 1478835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	58.5	58.3	100	67-140	
1,1,2-Trichloroethane	ug/kg	58.5	57.7	99	78-138	
1,1-Dichloroethane	ug/kg	58.5	61.9	106	69-134	
1,1-Dichloroethene	ug/kg	58.5	58.0	99	67-138	
Chloroform	ug/kg	58.5	56.2	96	70-134	
cis-1,2-Dichloroethene	ug/kg	58.5	63.3	108	70-133	
Methylene Chloride	ug/kg	58.5	70.9	121	45-154	
Tetrachloroethene	ug/kg	58.5	47.1	80	71-138	
Trichloroethene	ug/kg	58.5	62.2	106	67-135	
1,2-Dichloroethane-d4 (S)	%			103	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE SAMPLE: 1479636

Parameter	Units	92253027004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	20.1	19.5	97	70-130	
1,1,2-Trichloroethane	ug/kg	ND	20.1	19.9	99	70-130	
1,1-Dichloroethane	ug/kg	ND	20.1	20.2	100	70-130	
1,1-Dichloroethene	ug/kg	ND	20.1	19.7	98	49-180	
Chloroform	ug/kg	ND	20.1	18.7	93	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	20.1	19.7	98	70-130	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

MATRIX SPIKE SAMPLE: 1479636

Parameter	Units	92253027004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	ND	20.1	22.5	75	70-130	
Tetrachloroethene	ug/kg	ND	20.1	16.3	81	70-130	
Trichloroethene	ug/kg	ND	20.1	18.8	93	49-167	
1,2-Dichloroethane-d4 (S)	%				100	70-132	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1479284

Parameter	Units	92251948001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	116	126	10	
4-Bromofluorobenzene (S)	%	82	72	32	
Toluene-d8 (S)	%	100	94	25	1g

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

QC Batch: PMST/7959 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92252701001, 92252701002, 92252701003

SAMPLE DUPLICATE: 1479585

Parameter	Units	92251519001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	10.5	8.9	17	

SAMPLE DUPLICATE: 1479656

Parameter	Units	92253324001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.5	15.0	3	

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
C9	Common Laboratory Contaminant.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92252701

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92252701004	**WS-21**	EPA 8260	MSV/32004		
92252701005	**WS-22**	EPA 8260	MSV/32004		
92252701006	**WS-23**	EPA 8260	MSV/32004		
92252701001	**WS-21**	EPA 8260	MSV/32037		
92252701002	**WS-22**	EPA 8260	MSV/32011		
92252701003	**WS-23**	EPA 8260	MSV/32011		
92252701001	**WS-21**	ASTM D2974-87	PMST/7959		
92252701002	**WS-22**	ASTM D2974-87	PMST/7959		
92252701003	**WS-23**	ASTM D2974-87	PMST/7959		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 18, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffith

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: 1.6 °C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: 1/18/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT/SL	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: AMB Date: 1-3-15

SRF Review: AMB Date: 1-3-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92252701

92252701

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1932389

Section A Required Client Information:

Company: Griffith Enterprises, Inc
Address: 553 Jonestown Road #312
Winston-Salem, NC 27104
Email To: agriffithmetrad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 Day Turn

Section B Required Project Information:

Report To: M. Alan Griffith LG
Copy To: Andrew K Allen
andrew@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: Angela Baioni
Pace Profile #: 10044-8,9

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: EPA 8260 Parental

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WS-21	SL	G		[illegible]	6/2/15	10:03	–	6									X		001
2	WS-21	WT	G			6/2/15	11:10	–	3									X		004
3	WS-22	SL	G			6/2/15	1:00	–	6									X		002
4	WS-22	WT	G			6/2/15	1:30	–	3									X		005
5	WS-23	SL	G			6/2/15	2:00	–	6									X		003
6	WS-23	WT	G			6/2/15	3:15	–	3									X		006
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Analyze for: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride	M Alan Griffith	6/3/15	6 AM	Pace	6-3-15	0600	
		6-3-15	1220	Amore Pace Hill	6/3	1720	1.6 / U / U / U

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M Alan Griffith
SIGNATURE of SAMPLER: M Alan Griffith
DATE Signed (MM/DD/YY): 6/2/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

June 10, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92252686

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92252686001	**WS-21**	TO-15	MJL	9	PASI-M
92252686002	**WS-22**	TO-15	MJL	9	PASI-M
92252686003	**WS-23**	TO-15	MJL	9	PASI-M

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92252686001	**WS-21**					
TO-15	Chloroform	0.97	ug/m3	0.86	06/07/15 02:00	
TO-15	Tetrachloroethene	10.0	ug/m3	1.2	06/07/15 02:00	
92252686002	**WS-22**					
TO-15	Chloroform	11.1	ug/m3	0.89	06/07/15 02:28	
TO-15	Tetrachloroethene	3.1	ug/m3	1.2	06/07/15 02:28	
92252686003	**WS-23**					
TO-15	Chloroform	38.2	ug/m3	0.86	06/07/15 02:55	
TO-15	Tetrachloroethene	346	ug/m3	1.2	06/07/15 02:55	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

Sample: WS-21 **Lab ID: 92252686001** Collected: 06/02/15 10:47 Received: 06/03/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**0.97**	ug/m3	0.86	1.74		06/07/15 02:00	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/07/15 02:00	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/07/15 02:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/07/15 02:00	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		06/07/15 02:00	75-09-2	
Tetrachloroethene	**10.0**	ug/m3	1.2	1.74		06/07/15 02:00	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/07/15 02:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/07/15 02:00	79-00-5	
Trichloroethene	ND	ug/m3	0.96	1.74		06/07/15 02:00	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

Sample: WS-22 **Lab ID: 92252686002** Collected: 06/02/15 13:25 Received: 06/03/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**11.1**	ug/m3	0.89	1.8		06/07/15 02:28	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		06/07/15 02:28	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		06/07/15 02:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		06/07/15 02:28	156-59-2	
Methylene Chloride	ND	ug/m3	6.4	1.8		06/07/15 02:28	75-09-2	
Tetrachloroethene	**3.1**	ug/m3	1.2	1.8		06/07/15 02:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		06/07/15 02:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	1.8		06/07/15 02:28	79-00-5	
Trichloroethene	ND	ug/m3	0.99	1.8		06/07/15 02:28	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

Sample: WS-23 **Lab ID: 92252686003** Collected: 06/02/15 14:56 Received: 06/03/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**38.2**	ug/m3	0.86	1.74		06/07/15 02:55	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/07/15 02:55	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/07/15 02:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/07/15 02:55	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		06/07/15 02:55	75-09-2	
Tetrachloroethene	**346**	ug/m3	1.2	1.74		06/07/15 02:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/07/15 02:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/07/15 02:55	79-00-5	
Trichloroethene	ND	ug/m3	0.96	1.74		06/07/15 02:55	79-01-6	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

QC Batch: AIR/23410 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92252686001, 92252686002, 92252686003

METHOD BLANK: 1987186 Matrix: Air
Associated Lab Samples: 92252686001, 92252686002, 92252686003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/06/15 15:59	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/06/15 15:59	
1,1-Dichloroethane	ug/m3	ND	0.82	06/06/15 15:59	
1,1-Dichloroethene	ug/m3	ND	0.81	06/06/15 15:59	
Chloroform	ug/m3	ND	0.50	06/06/15 15:59	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/06/15 15:59	
Methylene Chloride	ug/m3	ND	3.5	06/06/15 15:59	
Tetrachloroethene	ug/m3	ND	0.69	06/06/15 15:59	
Trichloroethene	ug/m3	ND	0.55	06/06/15 15:59	

LABORATORY CONTROL SAMPLE: 1987187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	62.7	113	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	57.7	104	66-138	
1,1-Dichloroethane	ug/m3	41.2	43.9	107	68-137	
1,1-Dichloroethene	ug/m3	40.3	43.9	109	73-138	
Chloroform	ug/m3	49.7	52.0	105	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	45.4	113	64-137	
Methylene Chloride	ug/m3	35.3	36.2	102	64-130	
Tetrachloroethene	ug/m3	69	68.9	100	66-137	
Trichloroethene	ug/m3	54.6	58.2	106	70-134	

SAMPLE DUPLICATE: 1987911

Parameter	Units	92253001001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.3J		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
Chloroform	ug/m3	5.3	5.0	5	
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	7.2	7.3	0	
Tetrachloroethene	ug/m3	228	228	0	
Trichloroethene	ug/m3	0.98	.68J		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92252686

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92252686001	**WS-21**	TO-15	AIR/23410		
92252686002	**WS-22**	TO-15	AIR/23410		
92252686003	**WS-23**	TO-15	AIR/23410		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

15974

Page: 1 of 1

Section A Required Client Information:
Company: Griffith Enterprises, Inc
Address: 553 Jonestown Road, #312 Winston Salem NC 27104
Email To: ogriffithetrad.rr.com
Phone: 336 399-0096 Fax: (336) 72-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:
Report To: M. Alan Griffith LG
Copy To: Andrew K Allen andrew@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:
Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Pace NC
Pace Profile #: W044-10

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / RCRA (X) / Other

Location of Sampling by State: NC

Reporting Units: ug/m³ (X) mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C-Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	WS-21	1LC		6/2/15	10:38	6/2/15	10:47	26	0	2268	0727							X			001
2	WS-22	1LC		6/2/15	13:17	6/2/15	13:25	26	0	2554	0961							X			002
3	WS-23	1LC		6/2/15	14:46	6/2/15	14:56	28	0	1330	0941							X			003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

92252686

WO#: 92252686
92252686

Comments: Analyze for: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
M. Alan Griffith LG	6/3/15	6am	[illegible] PALE	6-3-15	0600
[illegible] PALE	6-3-15	1710	[illegible] Pace	6/2	1710

SAMPLE CONDITIONS

	Received on Ice	Custody Sealed Cooler	Samples Intact
Temp in °C	Y/N	Y/N	Y/N
	Y/N (N)	Y/N (N)	Y/N (Y)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith LG
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/2/15

ORIGINAL

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 11, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92253056001	**WS-24**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92253056002	**WS-25**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92253056003	**WS-26**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92253056004	**WS-24**	EPA 8260	SNP	12	PASI-C
92253056005	**WS-25**	EPA 8260	SNP	12	PASI-C
92253056006	**WS-26**	EPA 8260	SNP	12	PASI-C

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92253056001	**WS-24**					
ASTM D2974-87	Percent Moisture	14.5	%	0.10	06/11/15 11:51	
92253056002	**WS-25**					
ASTM D2974-87	Percent Moisture	10.8	%	0.10	06/11/15 11:54	
92253056003	**WS-26**					
ASTM D2974-87	Percent Moisture	14.8	%	0.10	06/11/15 11:55	
92253056005	**WS-25**					
EPA 8260	Chloroform	1.1	ug/L	1.0	06/09/15 20:16	
92253056006	**WS-26**					
EPA 8260	Chloroform	7.9	ug/L	1.0	06/09/15 20:33	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Sample: WS-24 **Lab ID: 92253056001** Collected: 06/02/15 16:30 Received: 06/04/15 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.7	1		06/09/15 18:08	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.7	1		06/09/15 18:08	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.7	1		06/09/15 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		06/09/15 18:08	156-59-2	
Methylene Chloride	ND	ug/kg	18.9	1		06/09/15 18:08	75-09-2	
Tetrachloroethene	ND	ug/kg	4.7	1		06/09/15 18:08	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		06/09/15 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		06/09/15 18:08	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		06/09/15 18:08	79-01-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		06/09/15 18:08	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		06/09/15 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-132	1		06/09/15 18:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.5**	%	0.10	1		06/11/15 11:51		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Sample: WS-25 **Lab ID: 92253056002** Collected: 06/03/15 11:22 Received: 06/04/15 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.8	1		06/09/15 18:28	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.8	1		06/09/15 18:28	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.8	1		06/09/15 18:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		06/09/15 18:28	156-59-2	
Methylene Chloride	ND	ug/kg	19.2	1		06/09/15 18:28	75-09-2	
Tetrachloroethene	ND	ug/kg	4.8	1		06/09/15 18:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		06/09/15 18:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		06/09/15 18:28	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		06/09/15 18:28	79-01-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1		06/09/15 18:28	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		06/09/15 18:28	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-132	1		06/09/15 18:28	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.8**	%	0.10	1		06/11/15 11:54		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Sample: WS-26 **Lab ID: 92253056003** Collected: 06/03/15 16:05 Received: 06/04/15 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.9	1		06/09/15 18:48	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.9	1		06/09/15 18:48	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.9	1		06/09/15 18:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		06/09/15 18:48	156-59-2	
Methylene Chloride	ND	ug/kg	19.8	1		06/09/15 18:48	75-09-2	
Tetrachloroethene	ND	ug/kg	4.9	1		06/09/15 18:48	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		06/09/15 18:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		06/09/15 18:48	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		06/09/15 18:48	79-01-6	
Surrogates								
Toluene-d8 (S)	103	%	70-130	1		06/09/15 18:48	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		06/09/15 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-132	1		06/09/15 18:48	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.8**	%	0.10	1		06/11/15 11:55		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Sample: WS-24 **Lab ID: 92253056004** Collected: 06/03/15 08:50 Received: 06/04/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/09/15 19:59	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/09/15 19:59	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/09/15 19:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/09/15 19:59	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/09/15 19:59	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/09/15 19:59	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/09/15 19:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/09/15 19:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/09/15 19:59	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/09/15 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/09/15 19:59	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/09/15 19:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Sample: WS-25 **Lab ID: 92253056005** Collected: 06/03/15 12:50 Received: 06/04/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**1.1**	ug/L	1.0	1		06/09/15 20:16	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/09/15 20:16	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/09/15 20:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/09/15 20:16	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/09/15 20:16	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/09/15 20:16	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/09/15 20:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/09/15 20:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/09/15 20:16	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/09/15 20:16	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/09/15 20:16	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/09/15 20:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Sample: WS-26 **Lab ID: 92253056006** Collected: 06/03/15 16:15 Received: 06/04/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**7.9**	ug/L	1.0	1		06/09/15 20:33	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/09/15 20:33	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/09/15 20:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/09/15 20:33	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/09/15 20:33	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/09/15 20:33	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/09/15 20:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/09/15 20:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/09/15 20:33	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/09/15 20:33	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		06/09/15 20:33	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/09/15 20:33	2037-26-5	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

QC Batch: MSV/32051 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92253056004, 92253056005, 92253056006

METHOD BLANK: 1479822 Matrix: Water
Associated Lab Samples: 92253056004, 92253056005, 92253056006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/09/15 15:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/09/15 15:30	
1,1-Dichloroethane	ug/L	ND	1.0	06/09/15 15:30	
1,1-Dichloroethene	ug/L	ND	1.0	06/09/15 15:30	
Chloroform	ug/L	ND	1.0	06/09/15 15:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/09/15 15:30	
Methylene Chloride	ug/L	ND	2.0	06/09/15 15:30	
Tetrachloroethene	ug/L	ND	1.0	06/09/15 15:30	
Trichloroethene	ug/L	ND	1.0	06/09/15 15:30	
1,2-Dichloroethane-d4 (S)	%	100	70-130	06/09/15 15:30	
4-Bromofluorobenzene (S)	%	102	70-130	06/09/15 15:30	
Toluene-d8 (S)	%	104	70-130	06/09/15 15:30	

LABORATORY CONTROL SAMPLE: 1479823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	53.6	107	70-130	
1,1-Dichloroethene	ug/L	50	52.6	105	70-132	
Chloroform	ug/L	50	49.6	99	70-130	
cis-1,2-Dichloroethene	ug/L	50	53.5	107	70-131	
Methylene Chloride	ug/L	50	57.9	116	63-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Trichloroethene	ug/L	50	50.0	100	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1479824

Parameter	Units	92252956003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.0	105	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.1	105	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.5	107	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.7	113	70-166	
Chloroform	ug/L	1.9	20	20.8	94	70-130	
cis-1,2-Dichloroethene	ug/L			22.3			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

MATRIX SPIKE SAMPLE: 1479824

Parameter	Units	92252956003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L			25.1			
Tetrachloroethene	ug/L	ND	20	23.5	118	70-130	
Trichloroethene	ug/L	ND	20	21.1	106	69-151	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1479825

Parameter	Units	92253056004 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
Chloroform	ug/L	ND	.58J		
cis-1,2-Dichloroethene	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	104	103	1	
4-Bromofluorobenzene (S)	%	98	92	7	
Toluene-d8 (S)	%	101	100	1	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

QC Batch: MSV/32045 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92253056001, 92253056002, 92253056003

METHOD BLANK: 1479474 Matrix: Solid
Associated Lab Samples: 92253056001, 92253056002, 92253056003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	4.5	06/09/15 12:10	
1,1,2-Trichloroethane	ug/kg	ND	4.5	06/09/15 12:10	
1,1-Dichloroethane	ug/kg	ND	4.5	06/09/15 12:10	
1,1-Dichloroethene	ug/kg	ND	4.5	06/09/15 12:10	
Chloroform	ug/kg	ND	4.5	06/09/15 12:10	
cis-1,2-Dichloroethene	ug/kg	ND	4.5	06/09/15 12:10	
Methylene Chloride	ug/kg	ND	18.1	06/09/15 12:10	
Tetrachloroethene	ug/kg	ND	4.5	06/09/15 12:10	
Trichloroethene	ug/kg	ND	4.5	06/09/15 12:10	
1,2-Dichloroethane-d4 (S)	%	116	70-132	06/09/15 12:10	
4-Bromofluorobenzene (S)	%	93	70-130	06/09/15 12:10	
Toluene-d8 (S)	%	102	70-130	06/09/15 12:10	

LABORATORY CONTROL SAMPLE: 1479475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	54.7	48.9	89	67-140	
1,1,2-Trichloroethane	ug/kg	54.7	51.6	94	78-138	
1,1-Dichloroethane	ug/kg	54.7	51.8	95	69-134	
1,1-Dichloroethene	ug/kg	54.7	49.7	91	67-138	
Chloroform	ug/kg	54.7	48.1	88	70-134	
cis-1,2-Dichloroethene	ug/kg	54.7	54.0	99	70-133	
Methylene Chloride	ug/kg	54.7	57.5	105	45-154	
Tetrachloroethene	ug/kg	54.7	40.5	74	71-138	
Trichloroethene	ug/kg	54.7	49.9	91	67-135	
1,2-Dichloroethane-d4 (S)	%			99	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1480400

Parameter	Units	92253196001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	<1.4	14.6	17.2	117	70-130	
1,1,2-Trichloroethane	ug/kg	<1.6	14.6	21.5	147	70-130	M1
1,1-Dichloroethane	ug/kg	<1.2	14.6	19.3	132	70-130	M1
1,1-Dichloroethene	ug/kg	<1.4	14.6	17.3	118	49-180	
Chloroform	ug/kg	<1.2	14.6	17.9	122	70-130	
cis-1,2-Dichloroethene	ug/kg	<1.1	14.6	18.7	128	70-130	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

MATRIX SPIKE SAMPLE: 1480400

Parameter	Units	92253196001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	6.0J	14.6	25.5	133	70-130	M1
Tetrachloroethene	ug/kg	<1.3	14.6	12.5	86	70-130	
Trichloroethene	ug/kg	<1.6	14.6	16.2	111	49-167	
1,2-Dichloroethane-d4 (S)	%				128	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1480399

Parameter	Units	92253056001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	113	115	21	
4-Bromofluorobenzene (S)	%	102	100	18	
Toluene-d8 (S)	%	101	100	19	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

QC Batch: PMST/7969 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92253056001, 92253056002, 92253056003

SAMPLE DUPLICATE: 1481120

Parameter	Units	92252762002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	20.5	20.6	1	

SAMPLE DUPLICATE: 1481121

Parameter	Units	92253492002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	19.1	19.9	4	

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92253056

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92253056004	**WS-24**	EPA 8260	MSV/32051		
92253056005	**WS-25**	EPA 8260	MSV/32051		
92253056006	**WS-26**	EPA 8260	MSV/32051		
92253056001	**WS-24**	EPA 8260	MSV/32045		
92253056002	**WS-25**	EPA 8260	MSV/32045		
92253056003	**WS-26**	EPA 8260	MSV/32045		
92253056001	**WS-24**	ASTM D2974-87	PMST/7969		
92253056002	**WS-25**	ASTM D2974-87	PMST/7969		
92253056003	**WS-26**	ASTM D2974-87	PMST/7969		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 18, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16**	Issuing Authority: Pace Huntersville Quality Office

Client Name: griffith Enperises

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.:_____°C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: PP 6/4/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: Soil / H2O	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	Date:	6-5-15
SRF Review:	AMB	Date:	6-5-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92253056

92253056

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1900724

Section A Required Client Information:

Company: Griffith Enterprises Inc
Address: 333 Jonestown Road, #312
Winston Salem NC 27104
Email To: agriffithetriad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 Day Turn

Section B Required Project Information:

Report To: M. Alan Griffith LG
Copy To: Andrew K. Allen
andrewa@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: ANGELA BAION
Pace Profile #: 6044-0, 1, 8, 9

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): CA BLGD METAL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WS-24	SL	G			6/2/15	4:30	—	6									X		001
2	WS-24	WT	G			6/3/15	8:50	—	3									X		004
3	WS-25	SL	G			6/3/15	11:22	—	6									X		002
4	WS-25	WT	G			6/3/15	12:50	—	3									X		005
5	WS-26	SL	G			6/3/15	4:05	—	6									X		003
6	WS-26	WT	G			6/3/15	4:15	—	3									X		006
7																				
8																				
9																				
10																				
11																				
12																				

92253056

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Analyze for: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride.	M. Alan Griffith	6/4/15	6:00 AM	R. Smith / Pace	6/4/15	0600				
	R. Smith Pace	6/4/15	1710	Pam Phillips	6/4/15	710	1.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Alan Griffith LG

SIGNATURE of SAMPLER: M. Alan Griffith

DATE Signed (MM/DD/YY): 6/3/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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June 11, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92253057

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92253057001	**WS-24**	TO-15	MLS	9	PASI-M
92253057002	**WS-25**	TO-15	MLS	9	PASI-M
92253057003	**WS-26**	TO-15	MLS	9	PASI-M

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92253057001	**WS-24**					
TO-15	Chloroform	297	ug/m3	4.2	06/09/15 18:24	
TO-15	Tetrachloroethene	21.7	ug/m3	1.2	06/08/15 17:58	
TO-15	Trichloroethene	1.6	ug/m3	0.92	06/08/15 17:58	
92253057002	**WS-25**					
TO-15	Chloroform	3.9	ug/m3	0.83	06/08/15 18:25	
TO-15	Tetrachloroethene	10.8	ug/m3	1.2	06/08/15 18:25	
92253057003	**WS-26**					
TO-15	Chloroform	2.5	ug/m3	0.83	06/08/15 18:52	
TO-15	Tetrachloroethene	4.3	ug/m3	1.2	06/08/15 18:52	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

Sample: WS-24 **Lab ID: 92253057001** Collected: 06/03/15 08:40 Received: 06/04/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**297**	ug/m3	4.2	8.4		06/09/15 18:24	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		06/08/15 17:58	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		06/08/15 17:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		06/08/15 17:58	156-59-2	
Methylene Chloride	ND	ug/m3	5.9	1.68		06/08/15 17:58	75-09-2	
Tetrachloroethene	**21.7**	ug/m3	1.2	1.68		06/08/15 17:58	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.68		06/08/15 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	1.68		06/08/15 17:58	79-00-5	
Trichloroethene	**1.6**	ug/m3	0.92	1.68		06/08/15 17:58	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

Sample: WS-25 **Lab ID: 92253057002** Collected: 06/03/15 12:08 Received: 06/04/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**3.9**	ug/m3	0.83	1.68		06/08/15 18:25	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		06/08/15 18:25	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		06/08/15 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		06/08/15 18:25	156-59-2	
Methylene Chloride	ND	ug/m3	5.9	1.68		06/08/15 18:25	75-09-2	
Tetrachloroethene	**10.8**	ug/m3	1.2	1.68		06/08/15 18:25	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.68		06/08/15 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	1.68		06/08/15 18:25	79-00-5	
Trichloroethene	ND	ug/m3	0.92	1.68		06/08/15 18:25	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

Sample: WS-26 **Lab ID: 92253057003** Collected: 06/03/15 16:06 Received: 06/04/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**2.5**	ug/m3	0.83	1.68		06/08/15 18:52	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		06/08/15 18:52	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		06/08/15 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		06/08/15 18:52	156-59-2	
Methylene Chloride	ND	ug/m3	5.9	1.68		06/08/15 18:52	75-09-2	
Tetrachloroethene	**4.3**	ug/m3	1.2	1.68		06/08/15 18:52	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.68		06/08/15 18:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	1.68		06/08/15 18:52	79-00-5	
Trichloroethene	ND	ug/m3	0.92	1.68		06/08/15 18:52	79-01-6	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

QC Batch: AIR/23421 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92253057001, 92253057002, 92253057003

METHOD BLANK: 1988101 Matrix: Air
Associated Lab Samples: 92253057001, 92253057002, 92253057003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/08/15 10:12	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/08/15 10:12	
1,1-Dichloroethane	ug/m3	ND	0.82	06/08/15 10:12	
1,1-Dichloroethene	ug/m3	ND	0.81	06/08/15 10:12	
Chloroform	ug/m3	ND	0.50	06/08/15 10:12	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/08/15 10:12	
Methylene Chloride	ug/m3	ND	3.5	06/08/15 10:12	
Tetrachloroethene	ug/m3	ND	0.69	06/08/15 10:12	
Trichloroethene	ug/m3	ND	0.55	06/08/15 10:12	

LABORATORY CONTROL SAMPLE: 1988102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	61.6	111	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	61.1	110	66-138	
1,1-Dichloroethane	ug/m3	41.2	46.2	112	68-137	
1,1-Dichloroethene	ug/m3	40.3	43.9	109	73-138	
Chloroform	ug/m3	49.7	55.0	111	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	46.1	114	64-137	
Methylene Chloride	ug/m3	35.3	35.8	101	64-130	
Tetrachloroethene	ug/m3	69	73.1	106	66-137	
Trichloroethene	ug/m3	54.6	62.4	114	70-134	

SAMPLE DUPLICATE: 1990372

Parameter	Units	92252635001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
Chloroform	ug/m3	3.8	3.6	8	
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	85.5	314	114	E,R1
Tetrachloroethene	ug/m3	1.4	1.2	17	
Trichloroethene	ug/m3	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92253057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92253057001	**WS-24**	TO-15	AIR/23421		
92253057002	**WS-25**	TO-15	AIR/23421		
92253057003	**WS-26**	TO-15	AIR/23421		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 16, 2016 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffith Enterprise

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: N/a °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AP 6-5-15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Grit		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: AMB **Date:** 6-5-15

SRF Review: AMB **Date:** 6-5-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO# : 92253057

92253057

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

15972

Page: 1 of 1

Section A Required Client Information:
Company: Griffith Enterprises, Inc
Address: 353 Jonestown Road, #312
Winston-Salem, NC 27104
Email To: ggriffithetriad.rr.com
Phone: (336)799-0096 Fax: (336)712-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:
Report To: M. Alan Griffith LG
Copy To: Andrew K Allen
andrewa@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:
Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Pace NC
Pace Profile #: 6044-10

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean X / RCRA / Other
Location of Sampling by State: NC
Reporting Units: ug/m³ X / mg/m³ / PPBV / PPMV / Other
Report Level II. III. IV. Other

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	WS-24	1LC	–	6/3/15	8:30	6/3/15	8:40	30	0	1320	0552							X			001
2	WS-25	1LC	–	6/3/15	11:58	6/3/15	12:08	29	0	0898	0633							X			002
3	WS-26	1LC	–	6/3/15	3:56	6/3/15	4:06	28	0	1093	0984							X			003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Method: PM10 / 3C- Fixed Gas (%) / TO-3 / TO-3M (Methane) / TO-4 (PCBs) / TO-13 (PAH) / TO-14 / TO-15 / TO15 Short List* / Pace Lab ID

92253057

Comments: ANALYZE FOR: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
M. Alan Griffith LG	6/4/15	6AM	R. Snyder Pace	6/4/15	0600
R. Snyder Pace	6/4/15	1710	Quinx Pace/Pace HUB	6-4-15	1710

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
N/A	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith LG
SIGNATURE of SAMPLER: M. Alan Griffith
DATE Signed (MM / DD / YY): 6/3/15

ORIGINAL

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 12, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92253216001	**WS-27**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92253216002	**WS-28**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92253216003	**WS-29**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92253216004	**WS-30**	EPA 8260	DLK	12	PASI-C
		ASTM D2974-87	SLJ	1	PASI-C
92253216005	**WS-27**	EPA 8260	SNP	12	PASI-C
92253216006	**WS-28**	EPA 8260	SNP	12	PASI-C
92253216007	**WS-29**	EPA 8260	SNP	12	PASI-C
92253216008	**WS-30**	EPA 8260	SNP	12	PASI-C

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92253216001	**WS-27**					
ASTM D2974-87	Percent Moisture	9.4	%	0.10	06/12/15 11:10	
92253216002	**WS-28**					
ASTM D2974-87	Percent Moisture	15.7	%	0.10	06/12/15 11:11	
92253216003	**WS-29**					
ASTM D2974-87	Percent Moisture	14.7	%	0.10	06/12/15 11:11	
92253216004	**WS-30**					
ASTM D2974-87	Percent Moisture	17.8	%	0.10	06/12/15 11:11	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Sample: WS-27 **Lab ID: 92253216001** Collected: 06/03/15 05:00 Received: 06/05/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.7	1		06/09/15 20:48	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.7	1		06/09/15 20:48	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.7	1		06/09/15 20:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		06/09/15 20:48	156-59-2	
Methylene Chloride	ND	ug/kg	18.7	1		06/09/15 20:48	75-09-2	
Tetrachloroethene	ND	ug/kg	4.7	1		06/09/15 20:48	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		06/09/15 20:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		06/09/15 20:48	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		06/09/15 20:48	79-01-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		06/09/15 20:48	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		06/09/15 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70-132	1		06/09/15 20:48	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.4**	%	0.10	1		06/12/15 11:10		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Sample: WS-28 **Lab ID: 92253216002** Collected: 06/04/15 11:00 Received: 06/05/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	5.0	1		06/09/15 05:01	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.0	1		06/09/15 05:01	75-34-3	
1,1-Dichloroethene	ND	ug/kg	5.0	1		06/09/15 05:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		06/09/15 05:01	156-59-2	
Methylene Chloride	ND	ug/kg	20.1	1		06/09/15 05:01	75-09-2	
Tetrachloroethene	ND	ug/kg	5.0	1		06/09/15 05:01	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		06/09/15 05:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		06/09/15 05:01	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		06/09/15 05:01	79-01-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		06/09/15 05:01	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		06/09/15 05:01	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-132	1		06/09/15 05:01	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.7**	%	0.10	1		06/12/15 11:11		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Sample: WS-29 **Lab ID: 92253216003** Collected: 06/04/15 13:10 Received: 06/05/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.9	1		06/09/15 05:21	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.9	1		06/09/15 05:21	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.9	1		06/09/15 05:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		06/09/15 05:21	156-59-2	
Methylene Chloride	ND	ug/kg	19.5	1		06/09/15 05:21	75-09-2	
Tetrachloroethene	ND	ug/kg	4.9	1		06/09/15 05:21	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		06/09/15 05:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		06/09/15 05:21	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		06/09/15 05:21	79-01-6	
Surrogates								
Toluene-d8 (S)	104	%	70-130	1		06/09/15 05:21	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		06/09/15 05:21	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-132	1		06/09/15 05:21	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.7**	%	0.10	1		06/12/15 11:11		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Sample: WS-30 **Lab ID: 92253216004** Collected: 06/04/15 15:10 Received: 06/05/15 15:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Chloroform	ND	ug/kg	4.4	1		06/09/15 05:41	67-66-3	
1,1-Dichloroethane	ND	ug/kg	4.4	1		06/09/15 05:41	75-34-3	
1,1-Dichloroethene	ND	ug/kg	4.4	1		06/09/15 05:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		06/09/15 05:41	156-59-2	
Methylene Chloride	ND	ug/kg	17.7	1		06/09/15 05:41	75-09-2	
Tetrachloroethene	ND	ug/kg	4.4	1		06/09/15 05:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		06/09/15 05:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		06/09/15 05:41	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		06/09/15 05:41	79-01-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		06/09/15 05:41	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		06/09/15 05:41	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-132	1		06/09/15 05:41	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.8**	%	0.10	1		06/12/15 11:11		

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Sample: WS-27 **Lab ID: 92253216005** Collected: 06/04/15 09:10 Received: 06/05/15 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/10/15 22:53	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/15 22:53	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/15 22:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/15 22:53	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/10/15 22:53	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		06/10/15 22:53	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/15 22:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/15 22:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/15 22:53	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		06/10/15 22:53	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		06/10/15 22:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/15 22:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Sample: WS-28 **Lab ID: 92253216006** Collected: 06/04/15 11:35 Received: 06/05/15 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/10/15 23:10	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/15 23:10	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/15 23:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/15 23:10	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/10/15 23:10	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		06/10/15 23:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/15 23:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/15 23:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/15 23:10	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		06/10/15 23:10	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		06/10/15 23:10	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/10/15 23:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Sample: WS-29 **Lab ID: 92253216007** Collected: 06/04/15 14:00 Received: 06/05/15 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/10/15 23:27	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/15 23:27	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/15 23:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/15 23:27	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/10/15 23:27	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		06/10/15 23:27	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/15 23:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/15 23:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/15 23:27	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		06/10/15 23:27	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		06/10/15 23:27	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/15 23:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Sample: WS-30 **Lab ID: 92253216008** Collected: 06/04/15 15:30 Received: 06/05/15 15:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/10/15 23:44	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/15 23:44	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/15 23:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/15 23:44	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/10/15 23:44	75-09-2	L3
Tetrachloroethene	ND	ug/L	1.0	1		06/10/15 23:44	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/15 23:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/15 23:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/15 23:44	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		06/10/15 23:44	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/10/15 23:44	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		06/10/15 23:44	2037-26-5	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

QC Batch: MSV/32068 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92253216005, 92253216006, 92253216007, 92253216008

METHOD BLANK: 1480921 Matrix: Water
Associated Lab Samples: 92253216005, 92253216006, 92253216007, 92253216008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/10/15 15:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/10/15 15:20	
1,1-Dichloroethane	ug/L	ND	1.0	06/10/15 15:20	
1,1-Dichloroethene	ug/L	ND	1.0	06/10/15 15:20	
Chloroform	ug/L	ND	1.0	06/10/15 15:20	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/10/15 15:20	
Methylene Chloride	ug/L	3.7	2.0	06/10/15 15:20	C9
Tetrachloroethene	ug/L	ND	1.0	06/10/15 15:20	
Trichloroethene	ug/L	ND	1.0	06/10/15 15:20	
1,2-Dichloroethane-d4 (S)	%	109	70-130	06/10/15 15:20	
4-Bromofluorobenzene (S)	%	99	70-130	06/10/15 15:20	
Toluene-d8 (S)	%	105	70-130	06/10/15 15:20	

LABORATORY CONTROL SAMPLE: 1480922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.1	110	70-130	
1,1,2-Trichloroethane	ug/L	50	55.7	111	70-130	
1,1-Dichloroethane	ug/L	50	59.6	119	70-130	
1,1-Dichloroethene	ug/L	50	58.2	116	70-132	
Chloroform	ug/L	50	54.4	109	70-130	
cis-1,2-Dichloroethene	ug/L	50	59.6	119	70-131	
Methylene Chloride	ug/L	50	70.7	141	63-130	L0
Tetrachloroethene	ug/L	50	50.0	100	70-130	
Trichloroethene	ug/L	50	53.5	107	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1480923

Parameter	Units	92253206008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	20.5	103	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.9	109	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.4	107	70-130	
1,1-Dichloroethene	ug/L	ND	20	21.8	109	70-166	
Chloroform	ug/L	ND	20	19.2	96	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.2	111	70-130	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

MATRIX SPIKE SAMPLE: 1480923

Parameter	Units	92253206008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	21.6	108	70-130	
Tetrachloroethene	ug/L	ND	20	26.0	130	70-130	
Trichloroethene	ug/L	ND	20	21.6	108	69-151	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1480924

Parameter	Units	92253206009 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	106	101	5	
4-Bromofluorobenzene (S)	%	93	94	1	
Toluene-d8 (S)	%	100	98	1	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

QC Batch: MSV/32038 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92253216002, 92253216003, 92253216004

METHOD BLANK: 1478881 Matrix: Solid
Associated Lab Samples: 92253216002, 92253216003, 92253216004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/08/15 20:23	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/08/15 20:23	
1,1-Dichloroethane	ug/kg	ND	5.0	06/08/15 20:23	
1,1-Dichloroethene	ug/kg	ND	5.0	06/08/15 20:23	
Chloroform	ug/kg	ND	5.0	06/08/15 20:23	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/08/15 20:23	
Methylene Chloride	ug/kg	ND	20.0	06/08/15 20:23	
Tetrachloroethene	ug/kg	ND	5.0	06/08/15 20:23	
Trichloroethene	ug/kg	ND	5.0	06/08/15 20:23	
1,2-Dichloroethane-d4 (S)	%	113	70-132	06/08/15 20:23	
4-Bromofluorobenzene (S)	%	96	70-130	06/08/15 20:23	
Toluene-d8 (S)	%	102	70-130	06/08/15 20:23	

LABORATORY CONTROL SAMPLE: 1478882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	59.1	59.1	100	67-140	
1,1,2-Trichloroethane	ug/kg	59.1	57.4	97	78-138	
1,1-Dichloroethane	ug/kg	59.1	64.3	109	69-134	
1,1-Dichloroethene	ug/kg	59.1	59.9	101	67-138	
Chloroform	ug/kg	59.1	58.2	98	70-134	
cis-1,2-Dichloroethene	ug/kg	59.1	63.9	108	70-133	
Methylene Chloride	ug/kg	59.1	71.9	122	45-154	
Tetrachloroethene	ug/kg	59.1	46.2	78	71-138	
Trichloroethene	ug/kg	59.1	60.2	102	67-135	
1,2-Dichloroethane-d4 (S)	%			103	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE SAMPLE: 1479293

Parameter	Units	92253227001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	18.4	14.6	79	70-130	
1,1,2-Trichloroethane	ug/kg	ND	18.4	15.8	85	70-130	
1,1-Dichloroethane	ug/kg	ND	18.4	16.3	88	70-130	
1,1-Dichloroethene	ug/kg	ND	18.4	15.3	83	49-180	
Chloroform	ug/kg	ND	18.4	14.8	80	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	18.4	16.0	86	70-130	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

MATRIX SPIKE SAMPLE: 1479293

Parameter	Units	92253227001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	ND	18.4	21.7	71	70-130	
Tetrachloroethene	ug/kg	ND	18.4	12.2	66	70-130	M1
Trichloroethene	ug/kg	ND	18.4	14.0	76	49-167	
1,2-Dichloroethane-d4 (S)	%				106	70-132	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1479292

Parameter	Units	92253216004 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	112	131	7	
4-Bromofluorobenzene (S)	%	91	80	21	
Toluene-d8 (S)	%	101	99	11	1g

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

QC Batch: MSV/32045
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92253216001

METHOD BLANK: 1479474
Matrix: Solid
Associated Lab Samples: 92253216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	4.5	06/09/15 12:10	
1,1,2-Trichloroethane	ug/kg	ND	4.5	06/09/15 12:10	
1,1-Dichloroethane	ug/kg	ND	4.5	06/09/15 12:10	
1,1-Dichloroethene	ug/kg	ND	4.5	06/09/15 12:10	
Chloroform	ug/kg	ND	4.5	06/09/15 12:10	
cis-1,2-Dichloroethene	ug/kg	ND	4.5	06/09/15 12:10	
Methylene Chloride	ug/kg	ND	18.1	06/09/15 12:10	
Tetrachloroethene	ug/kg	ND	4.5	06/09/15 12:10	
Trichloroethene	ug/kg	ND	4.5	06/09/15 12:10	
1,2-Dichloroethane-d4 (S)	%	116	70-132	06/09/15 12:10	
4-Bromofluorobenzene (S)	%	93	70-130	06/09/15 12:10	
Toluene-d8 (S)	%	102	70-130	06/09/15 12:10	

LABORATORY CONTROL SAMPLE: 1479475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	54.7	48.9	89	67-140	
1,1,2-Trichloroethane	ug/kg	54.7	51.6	94	78-138	
1,1-Dichloroethane	ug/kg	54.7	51.8	95	69-134	
1,1-Dichloroethene	ug/kg	54.7	49.7	91	67-138	
Chloroform	ug/kg	54.7	48.1	88	70-134	
cis-1,2-Dichloroethene	ug/kg	54.7	54.0	99	70-133	
Methylene Chloride	ug/kg	54.7	57.5	105	45-154	
Tetrachloroethene	ug/kg	54.7	40.5	74	71-138	
Trichloroethene	ug/kg	54.7	49.9	91	67-135	
1,2-Dichloroethane-d4 (S)	%			99	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1480400

Parameter	Units	92253196001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	<1.4	14.6	17.2	117	70-130	
1,1,2-Trichloroethane	ug/kg	<1.6	14.6	21.5	147	70-130	M1
1,1-Dichloroethane	ug/kg	<1.2	14.6	19.3	132	70-130	M1
1,1-Dichloroethene	ug/kg	<1.4	14.6	17.3	118	49-180	
Chloroform	ug/kg	<1.2	14.6	17.9	122	70-130	
cis-1,2-Dichloroethene	ug/kg	<1.1	14.6	18.7	128	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

MATRIX SPIKE SAMPLE: 1480400

Parameter	Units	92253196001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/kg	6.0J	14.6	25.5	133	70-130	M1
Tetrachloroethene	ug/kg	<1.3	14.6	12.5	86	70-130	
Trichloroethene	ug/kg	<1.6	14.6	16.2	111	49-167	
1,2-Dichloroethane-d4 (S)	%				128	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1480399

Parameter	Units	92253056001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	113	115	21	
4-Bromofluorobenzene (S)	%	102	100	18	
Toluene-d8 (S)	%	101	100	19	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

QC Batch: PMST/7972 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92253216001, 92253216002, 92253216003, 92253216004

SAMPLE DUPLICATE: 1482383

Parameter	Units	92253079001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.9	20.3	7	

SAMPLE DUPLICATE: 1482384

Parameter	Units	92253692001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	13.4	14.4	7	

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
C9	Common Laboratory Contaminant.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92253216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92253216005	**WS-27**	EPA 8260	MSV/32068		
92253216006	**WS-28**	EPA 8260	MSV/32068		
92253216007	**WS-29**	EPA 8260	MSV/32068		
92253216008	**WS-30**	EPA 8260	MSV/32068		
92253216001	**WS-27**	EPA 8260	MSV/32045		
92253216002	**WS-28**	EPA 8260	MSV/32038		
92253216003	**WS-29**	EPA 8260	MSV/32038		
92253216004	**WS-30**	EPA 8260	MSV/32038		
92253216001	**WS-27**	ASTM D2974-87	PMST/7972		
92253216002	**WS-28**	ASTM D2974-87	PMST/7972		
92253216003	**WS-29**	ASTM D2974-87	PMST/7972		
92253216004	**WS-30**	ASTM D2974-87	PMST/7972		

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Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: May 16, 2016 Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffith

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: 2.4 °C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: AP 6-5-15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL/WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	Date:	6-5-15
SRF Review:	AMB	Date:	6-5-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO#: 92253216

92253216

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1886500

Section A Required Client Information:

Company: Griffith Enterprises, Inc
Address: 553 Jonestown Road, #312
Winston Salem NC 27104
Email To: griffithetriad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:

Report To: M. Alan Griffith LG
Copy To: Andrew K. Allen
andrewa@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: ANGELA BAIONI
Pace Profile #: 10044-819

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER ____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): EPA 8260 Partial	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92253216
1	WS-27	SL	G			6/3/15	5:00	—	6									X		001
2	WS-27	WT	G			6/4/15	9:10	—	3									X		005
3	WS-28	SL	G			6/4/15	11:00	—	6									X		002
4	WS-28	WT	G			6/4/15	11:35	—	3									X		006
5	WS-29	SL	G			6/4/15	1:10	—	6									X		003
6	WS-29	WT	G			6/4/15	2:00	—	3									X		007
7	WS-30	SL	G			6/4/15	3:10	—	6									X		004
8	WS-30	WT	G			6/4/15	3:30	—	3									X		008
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Analyze for: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, Methylene Chloride.	M. Allen Griffith LG	6/5/15	6:00 AM	[illegible]	6/5/15	6:00	
	[illegible]	6/5/15	1635	[illegible]	6-5-15	1635	2-4

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2-4	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Alan Griffith LG

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/4/15

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 12, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92253217001	**WS-27**	TO-15	MJL	9	PASI-M
92253217002	**WS-28**	TO-15	MJL	9	PASI-M
92253217003	**WS-29**	TO-15	MJL	9	PASI-M
92253217004	**WS-30**	TO-15	MJL	9	PASI-M

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92253217001	**WS-27**					
TO-15	Chloroform	11.0	ug/m3	0.83	06/10/15 14:47	
TO-15	Tetrachloroethene	2.4	ug/m3	1.2	06/10/15 14:47	
TO-15	1,1,1-Trichloroethane	12.6	ug/m3	1.9	06/10/15 14:47	
92253217002	**WS-28**					
TO-15	Chloroform	29.8	ug/m3	0.83	06/10/15 15:15	
TO-15	cis-1,2-Dichloroethene	4.5	ug/m3	1.4	06/10/15 15:15	
TO-15	Tetrachloroethene	21.0	ug/m3	1.2	06/10/15 15:15	
TO-15	Trichloroethene	12.4	ug/m3	0.92	06/10/15 15:15	
92253217003	**WS-29**					
TO-15	Chloroform	1.8	ug/m3	0.83	06/10/15 15:43	
TO-15	Tetrachloroethene	6.0	ug/m3	1.2	06/10/15 15:43	
92253217004	**WS-30**					
TO-15	Tetrachloroethene	7.3	ug/m3	1.2	06/10/15 16:11	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Sample: WS-27 **Lab ID: 92253217001** Collected: 06/04/15 08:52 Received: 06/05/15 16:33 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**11.0**	ug/m3	0.83	1.68		06/10/15 14:47	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		06/10/15 14:47	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		06/10/15 14:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		06/10/15 14:47	156-59-2	
Methylene Chloride	ND	ug/m3	5.9	1.68		06/10/15 14:47	75-09-2	
Tetrachloroethene	**2.4**	ug/m3	1.2	1.68		06/10/15 14:47	127-18-4	
1,1,1-Trichloroethane	**12.6**	ug/m3	1.9	1.68		06/10/15 14:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	1.68		06/10/15 14:47	79-00-5	
Trichloroethene	ND	ug/m3	0.92	1.68		06/10/15 14:47	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Sample: WS-28 **Lab ID: 92253217002** Collected: 06/04/15 11:20 Received: 06/05/15 16:33 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**29.8**	ug/m3	0.83	1.68		06/10/15 15:15	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		06/10/15 15:15	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		06/10/15 15:15	75-35-4	
cis-1,2-Dichloroethene	**4.5**	ug/m3	1.4	1.68		06/10/15 15:15	156-59-2	
Methylene Chloride	ND	ug/m3	5.9	1.68		06/10/15 15:15	75-09-2	
Tetrachloroethene	**21.0**	ug/m3	1.2	1.68		06/10/15 15:15	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.68		06/10/15 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	1.68		06/10/15 15:15	79-00-5	
Trichloroethene	**12.4**	ug/m3	0.92	1.68		06/10/15 15:15	79-01-6	

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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Sample: WS-29 **Lab ID: 92253217003** Collected: 06/04/15 13:36 Received: 06/05/15 16:33 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**1.8**	ug/m3	0.83	1.68		06/10/15 15:43	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		06/10/15 15:43	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		06/10/15 15:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		06/10/15 15:43	156-59-2	
Methylene Chloride	ND	ug/m3	5.9	1.68		06/10/15 15:43	75-09-2	
Tetrachloroethene	**6.0**	ug/m3	1.2	1.68		06/10/15 15:43	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.68		06/10/15 15:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	1.68		06/10/15 15:43	79-00-5	
Trichloroethene	ND	ug/m3	0.92	1.68		06/10/15 15:43	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Sample: WS-30 **Lab ID: 92253217004** Collected: 06/04/15 15:40 Received: 06/05/15 16:33 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	0.83	1.68		06/10/15 16:11	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.68		06/10/15 16:11	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		06/10/15 16:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.68		06/10/15 16:11	156-59-2	
Methylene Chloride	ND	ug/m3	5.9	1.68		06/10/15 16:11	75-09-2	
Tetrachloroethene	**7.3**	ug/m3	1.2	1.68		06/10/15 16:11	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.68		06/10/15 16:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.92	1.68		06/10/15 16:11	79-00-5	
Trichloroethene	ND	ug/m3	0.92	1.68		06/10/15 16:11	79-01-6	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

QC Batch: AIR/23436 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92253217001, 92253217002, 92253217003, 92253217004

METHOD BLANK: 1990151 Matrix: Air
Associated Lab Samples: 92253217001, 92253217002, 92253217003, 92253217004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/10/15 11:15	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/10/15 11:15	
1,1-Dichloroethane	ug/m3	ND	0.82	06/10/15 11:15	
1,1-Dichloroethene	ug/m3	ND	0.81	06/10/15 11:15	
Chloroform	ug/m3	ND	0.50	06/10/15 11:15	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/10/15 11:15	
Methylene Chloride	ug/m3	ND	3.5	06/10/15 11:15	
Tetrachloroethene	ug/m3	ND	0.69	06/10/15 11:15	
Trichloroethene	ug/m3	ND	0.55	06/10/15 11:15	

LABORATORY CONTROL SAMPLE: 1990152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.3	114	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	64.7	117	66-138	
1,1-Dichloroethane	ug/m3	41.2	50.1	122	68-137	
1,1-Dichloroethene	ug/m3	40.3	48.7	121	73-138	
Chloroform	ug/m3	49.7	59.7	120	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	49.5	123	64-137	
Methylene Chloride	ug/m3	35.3	37.6	106	64-130	
Tetrachloroethene	ug/m3	69	84.2	122	66-137	
Trichloroethene	ug/m3	54.6	66.3	121	70-134	

SAMPLE DUPLICATE: 1991507

Parameter	Units	10309473002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
Chloroform	ug/m3	ND	ND		
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	1.4	1.3J		
Tetrachloroethene	ug/m3	ND	ND		
Trichloroethene	ug/m3	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92253217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92253217001	**WS-27**	TO-15	AIR/23436		
92253217002	**WS-28**	TO-15	AIR/23436		
92253217003	**WS-29**	TO-15	AIR/23436		
92253217004	**WS-30**	TO-15	AIR/23436		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 18, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffin

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: N/A °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: AP 6-5-15

		Comments:
Chain of Custody Present:	☐Yes ☑No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: air		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: AMB **Date:** 6-5-15

SRF Review: AMB **Date:** 6-5-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO# : 92253217

92253217

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

16132

Page: 1 of 1

Section A Required Client Information:
Company: Griffith Enterprises, Inc
Address: 353 Jonestown Road, #312
Winston-Salem NC 27104
Email To: griffithetrad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:
Report To: M. Alan Griffith LG
Copy To: Andrew K Allen
andrewaq@citycfws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:
Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Pace-NC
Pace Profile #: 10044-10

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / X RCRA / Other____

Location of Sampling by State: NC

Reporting Units: ug/m³ X / mg/m³ ___ / PPBV ___ / PPMV ___ / Other ___

Report Level: II.___ III.___ IV.___ Other____

Section D Required Client Information
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	Sample ID	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15 PACKAGE	TO15 Short List*	Pace Lab ID (92253217)
1	WS-27	1LC	—	6/4/15	8:42	6/4/15	8:52	23	0	2513	0694							X			001
2	WS-28	1LC	—	6/4/15	11:10	6/4/15	11:20	30	0	1167	0947							X			002
3	WS-29	1LC	—	6/4/15	1:26	6/4/15	1:36	22	0	2266	0787							X			003
4	WS-30	1LC	—	6/4/15	3:40	6/4/15	3:50	30	0	2085	0670							X			004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments: ANALYZE FOR: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
M Allen Griffith	6/5/15	640AM	K Snyder Pace	6/5/15	640
R Snyder Pace	6/5/15	1635	[illegible] Pace	6-5-15	1633

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith
SIGNATURE of SAMPLER: M Allen Griffith
DATE Signed (MM / DD / YY): 6/4/15

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
n/a	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

ORIGINAL

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 22, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92254930001	**WS-30 17.23'**	EPA 8260	SNP	12	PASI-C
92254930002	**TRIP BLANK**	EPA 8260	SNP	12	PASI-C
92254930003	**WS-29 42.48'**	EPA 8260	SNP	12	PASI-C
92254930004	**WS-28 43.29'**	EPA 8260	SNP	12	PASI-C
92254930005	**WS-27 42.25'**	EPA 8260	SNP	12	PASI-C
92254930006	**WS-26 46.30'**	EPA 8260	SNP	12	PASI-C
92254930007	**WS-26 DUPLICATE**	EPA 8260	SNP	12	PASI-C

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92254930006	**WS-26 46.30'**					
EPA 8260	Chloroform	9.9	ug/L	1.0	06/18/15 20:28	
92254930007	**WS-26 DUPLICATE**					
EPA 8260	Chloroform	10.1	ug/L	1.0	06/18/15 20:45	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Sample: WS-30 17.23' **Lab ID: 92254930001** Collected: 06/15/15 11:00 Received: 06/17/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/18/15 19:04	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/18/15 19:04	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/18/15 19:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/18/15 19:04	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/18/15 19:04	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/18/15 19:04	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/18/15 19:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/18/15 19:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/18/15 19:04	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/18/15 19:04	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		06/18/15 19:04	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/18/15 19:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Sample: TRIP BLANK **Lab ID: 92254930002** Collected: 06/15/15 11:30 Received: 06/17/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/18/15 19:21	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/18/15 19:21	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/18/15 19:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/18/15 19:21	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/18/15 19:21	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/18/15 19:21	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/18/15 19:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/18/15 19:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/18/15 19:21	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/18/15 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		06/18/15 19:21	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		06/18/15 19:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Sample: WS-29 42.48' **Lab ID: 92254930003** Collected: 06/15/15 13:45 Received: 06/17/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/18/15 19:37	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/18/15 19:37	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/18/15 19:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/18/15 19:37	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/18/15 19:37	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/18/15 19:37	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/18/15 19:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/18/15 19:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/18/15 19:37	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/18/15 19:37	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		06/18/15 19:37	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/18/15 19:37	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Sample: WS-28 43.29' **Lab ID: 92254930004** Collected: 06/15/15 15:15 Received: 06/17/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/18/15 19:54	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/18/15 19:54	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/18/15 19:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/18/15 19:54	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/18/15 19:54	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/18/15 19:54	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/18/15 19:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/18/15 19:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/18/15 19:54	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		06/18/15 19:54	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		06/18/15 19:54	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/18/15 19:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Sample: WS-27 42.25' **Lab ID: 92254930005** Collected: 06/16/15 10:46 Received: 06/17/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/18/15 20:11	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/18/15 20:11	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/18/15 20:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/18/15 20:11	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/18/15 20:11	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/18/15 20:11	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/18/15 20:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/18/15 20:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/18/15 20:11	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/18/15 20:11	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		06/18/15 20:11	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/18/15 20:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Sample: WS-26 46.30' **Lab ID: 92254930006** Collected: 06/16/15 13:26 Received: 06/17/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**9.9**	ug/L	1.0	1		06/18/15 20:28	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/18/15 20:28	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/18/15 20:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/18/15 20:28	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/18/15 20:28	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/18/15 20:28	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/18/15 20:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/18/15 20:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/18/15 20:28	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/18/15 20:28	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		06/18/15 20:28	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/18/15 20:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Sample: WS-26 DUPLICATE **Lab ID: 92254930007** Collected: 06/16/15 13:26 Received: 06/17/15 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**10.1**	ug/L	1.0	1		06/18/15 20:45	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/18/15 20:45	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/18/15 20:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/18/15 20:45	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/18/15 20:45	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/18/15 20:45	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/18/15 20:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/18/15 20:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/18/15 20:45	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/18/15 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		06/18/15 20:45	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/18/15 20:45	2037-26-5	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

QC Batch: MSV/32208 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92254930001, 92254930002, 92254930003, 92254930004, 92254930005, 92254930006, 92254930007

METHOD BLANK: 1488717 Matrix: Water
Associated Lab Samples: 92254930001, 92254930002, 92254930003, 92254930004, 92254930005, 92254930006, 92254930007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/18/15 15:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/18/15 15:24	
1,1-Dichloroethane	ug/L	ND	1.0	06/18/15 15:24	
1,1-Dichloroethene	ug/L	ND	1.0	06/18/15 15:24	
Chloroform	ug/L	ND	1.0	06/18/15 15:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/18/15 15:24	
Methylene Chloride	ug/L	ND	2.0	06/18/15 15:24	
Tetrachloroethene	ug/L	ND	1.0	06/18/15 15:24	
Trichloroethene	ug/L	ND	1.0	06/18/15 15:24	
1,2-Dichloroethane-d4 (S)	%	110	70-130	06/18/15 15:24	
4-Bromofluorobenzene (S)	%	99	70-130	06/18/15 15:24	
Toluene-d8 (S)	%	103	70-130	06/18/15 15:24	

LABORATORY CONTROL SAMPLE: 1488718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.1	116	70-130	
1,1,2-Trichloroethane	ug/L	50	52.0	104	70-130	
1,1-Dichloroethane	ug/L	50	56.3	113	70-130	
1,1-Dichloroethene	ug/L	50	65.2	130	70-132	
Chloroform	ug/L	50	56.2	112	70-130	
cis-1,2-Dichloroethene	ug/L	50	57.2	114	70-131	
Methylene Chloride	ug/L	50	63.5	127	63-130	
Tetrachloroethene	ug/L	50	49.8	100	70-130	
Trichloroethene	ug/L	50	50.8	102	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1488719

Parameter	Units	92254433003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	3.2	20	24.7	107	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.3	106	70-130	
1,1-Dichloroethene	ug/L	5.5	20	30.2	123	70-166	
Chloroform	ug/L	ND	20	21.4	107	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	21.4	107	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

MATRIX SPIKE SAMPLE: 1488719

Parameter	Units	92254433003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	19.3	97	70-130	
Tetrachloroethene	ug/L	ND	20	20.8	104	70-130	
Trichloroethene	ug/L	85.9	20	105	94	69-151	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1488720

Parameter	Units	92254433004 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	6.4	5.0	24	
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	4.1	3.3	22	
1,1-Dichloroethene	ug/L	12.6	11.1	13	
Chloroform	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	2.9	2.4	19	
Methylene Chloride	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Trichloroethene	ug/L	101	91.4	10	
1,2-Dichloroethane-d4 (S)	%	111	97	14	
4-Bromofluorobenzene (S)	%	101	98	3	
Toluene-d8 (S)	%	102	97	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92254930

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92254930001	**WS-30 17.23'**	EPA 8260	MSV/32208		
92254930002	**TRIP BLANK**	EPA 8260	MSV/32208		
92254930003	**WS-29 42.48'**	EPA 8260	MSV/32208		
92254930004	**WS-28 43.29'**	EPA 8260	MSV/32208		
92254930005	**WS-27 42.25'**	EPA 8260	MSV/32208		
92254930006	**WS-26 46.30'**	EPA 8260	MSV/32208		
92254930007	**WS-26 DUPLICATE**	EPA 8260	MSV/32208		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 18, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffith

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace (Other)_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional:
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 0.7 °C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AP 6/1/15

		Comments:
Chain of Custody Present:	☐Yes ☑No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☐No ☑N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	**Date:**	6/17/15
SRF Review:	AMB	**Date:**	6/18/15

Place label here

WO#: 92254930

92254930

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1900728

Section A Required Client Information:

Company: Griffith Enterprises, Inc
Address: 353 Jonestown Road, #312
Winston-Salem, NC 27104
Email To: ogriffithetnet.rr.com
Phone: (336) 399-0096 Fax:
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:

Report To: M. Alan Griffith LG
Copy To: Andrew K. Allen
andrewa@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: ANGELA BAIONI
Pace Profile #: 10044-9

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): EPA 8260 PARTIAL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92254930
1	WS-30 17.23'					6/15/15	11:00	—	3									X		001
2	Trip Blank					6/15/15	11:30	—	2									X		002
3	WS-29 42.48'					6/15/15	1:45	—	3									X		003
4	WS-28 43.29'					6/15/15	3:15	—	3									X		004
5	WS-27 42.25'					6/16/15	10:46	—	3									X		005
6	WS-26 42.30'					6/16/15	1:26	—	3									X		006
7	WS-26 DUPLICATE					6/16/15	1:26	—	3									X		007
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Analyze for: chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride.	M. Alan Griffith	6/12/15	10 AM	Scott Dean PACE	6-17-15	6:16
	Scott Dean PACE	6-17-15	1710	[illegible] HUL	6/17/15	1710

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
0.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Alan Griffith

SIGNATURE of SAMPLER: M. Alan Griffith

DATE Signed (MM/DD/YY): 6/15/15 and 6/16/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 23, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255291001	**WS-20 17.23'**	EPA 8260	SNP	12	PASI-C
92255291002	**WS-21 17.59'**	EPA 8260	SNP	12	PASI-C
92255291003	**TRIP BLANK**	EPA 8260	SNP	12	PASI-C
92255291004	**WS-17 10.15'**	EPA 8260	SNP	12	PASI-C
92255291005	**WS-22 19.77'**	EPA 8260	SNP	12	PASI-C
92255291006	**WS-18 11.67'**	EPA 8260	SNP	12	PASI-C
92255291007	**WS-19 26.01'**	EPA 8260	SNP	12	PASI-C
92255291008	**WS-23 37.33'**	EPA 8260	SNP	12	PASI-C
92255291009	**WS-24 38.83'**	EPA 8260	SNP	12	PASI-C
92255291010	**WS-24 DUPLICATE**	EPA 8260	SNP	12	PASI-C
92255291011	**WS-25 40.41'**	EPA 8260	SNP	12	PASI-C

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92255291005	**WS-22 19.77'**					
EPA 8260	Chloroform	1.0	ug/L	1.0	06/22/15 15:30	
92255291006	**WS-18 11.67'**					
EPA 8260	cis-1,2-Dichloroethene	16.8	ug/L	4.0	06/22/15 17:45	
EPA 8260	Tetrachloroethene	371	ug/L	4.0	06/22/15 17:45	
EPA 8260	Trichloroethene	81.8	ug/L	4.0	06/22/15 17:45	
92255291007	**WS-19 26.01'**					
EPA 8260	cis-1,2-Dichloroethene	25.0	ug/L	10.0	06/22/15 18:02	
EPA 8260	Methylene Chloride	30.9	ug/L	20.0	06/22/15 18:02	B
EPA 8260	Tetrachloroethene	797	ug/L	10.0	06/22/15 18:02	
EPA 8260	Trichloroethene	39.2	ug/L	10.0	06/22/15 18:02	
92255291008	**WS-23 37.33'**					
EPA 8260	Chloroform	1.6	ug/L	1.0	06/22/15 15:47	
EPA 8260	cis-1,2-Dichloroethene	1.1	ug/L	1.0	06/22/15 15:47	
EPA 8260	Tetrachloroethene	18.4	ug/L	1.0	06/22/15 15:47	
EPA 8260	Trichloroethene	3.9	ug/L	1.0	06/22/15 15:47	
92255291011	**WS-25 40.41'**					
EPA 8260	Chloroform	1.0	ug/L	1.0	06/22/15 16:38	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-20 17.23' **Lab ID: 92255291001** Collected: 06/17/15 13:25 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/22/15 14:39	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 14:39	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 14:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/15 14:39	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 14:39	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/22/15 14:39	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 14:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 14:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/22/15 14:39	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/22/15 14:39	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		06/22/15 14:39	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/22/15 14:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-21 17.59' **Lab ID: 92255291002** Collected: 06/17/15 14:40 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/22/15 14:56	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 14:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 14:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/15 14:56	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 14:56	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/22/15 14:56	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 14:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 14:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/22/15 14:56	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/22/15 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		06/22/15 14:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/22/15 14:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: TRIP BLANK **Lab ID: 92255291003** Collected: 06/17/15 15:08 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/22/15 14:06	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 14:06	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 14:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/15 14:06	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 14:06	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/22/15 14:06	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 14:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 14:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/22/15 14:06	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/22/15 14:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		06/22/15 14:06	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/22/15 14:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-17 10.15' **Lab ID: 92255291004** Collected: 06/17/15 15:25 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/22/15 15:13	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 15:13	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 15:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/15 15:13	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 15:13	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/22/15 15:13	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 15:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 15:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/22/15 15:13	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/22/15 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		06/22/15 15:13	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/22/15 15:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-22 19.77' **Lab ID: 92255291005** Collected: 06/17/15 16:00 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**1.0**	ug/L	1.0	1		06/22/15 15:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 15:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 15:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/15 15:30	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 15:30	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/22/15 15:30	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 15:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 15:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/22/15 15:30	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/22/15 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		06/22/15 15:30	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/22/15 15:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-18 11.67' **Lab ID: 92255291006** Collected: 06/18/15 08:20 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	4.0	4		06/22/15 17:45	67-66-3	
1,1-Dichloroethane	ND	ug/L	4.0	4		06/22/15 17:45	75-34-3	
1,1-Dichloroethene	ND	ug/L	4.0	4		06/22/15 17:45	75-35-4	
cis-1,2-Dichloroethene	**16.8**	ug/L	4.0	4		06/22/15 17:45	156-59-2	
Methylene Chloride	ND	ug/L	8.0	4		06/22/15 17:45	75-09-2	
Tetrachloroethene	**371**	ug/L	4.0	4		06/22/15 17:45	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	4.0	4		06/22/15 17:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	4		06/22/15 17:45	79-00-5	
Trichloroethene	**81.8**	ug/L	4.0	4		06/22/15 17:45	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	4		06/22/15 17:45	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	4		06/22/15 17:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130	4		06/22/15 17:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-19 26.01' **Lab ID: 92255291007** Collected: 06/18/15 09:45 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	10.0	10		06/22/15 18:02	67-66-3	
1,1-Dichloroethane	ND	ug/L	10.0	10		06/22/15 18:02	75-34-3	
1,1-Dichloroethene	ND	ug/L	10.0	10		06/22/15 18:02	75-35-4	
cis-1,2-Dichloroethene	**25.0**	ug/L	10.0	10		06/22/15 18:02	156-59-2	
Methylene Chloride	**30.9**	ug/L	20.0	10		06/22/15 18:02	75-09-2	B
Tetrachloroethene	**797**	ug/L	10.0	10		06/22/15 18:02	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		06/22/15 18:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		06/22/15 18:02	79-00-5	
Trichloroethene	**39.2**	ug/L	10.0	10		06/22/15 18:02	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	10		06/22/15 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	10		06/22/15 18:02	17060-07-0	
Toluene-d8 (S)	100	%	70-130	10		06/22/15 18:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-23 37.33' **Lab ID: 92255291008** Collected: 06/18/15 11:15 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**1.6**	ug/L	1.0	1		06/22/15 15:47	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 15:47	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 15:47	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	1		06/22/15 15:47	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 15:47	75-09-2	
Tetrachloroethene	**18.4**	ug/L	1.0	1		06/22/15 15:47	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 15:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 15:47	79-00-5	
Trichloroethene	**3.9**	ug/L	1.0	1		06/22/15 15:47	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/22/15 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		06/22/15 15:47	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/22/15 15:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-24 38.83' **Lab ID: 92255291009** Collected: 06/18/15 14:55 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/22/15 16:04	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 16:04	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/15 16:04	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 16:04	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/22/15 16:04	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 16:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/22/15 16:04	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/22/15 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		06/22/15 16:04	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/22/15 16:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-24 DUPLICATE **Lab ID: 92255291010** Collected: 06/18/15 14:55 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	1.0	1		06/22/15 16:21	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 16:21	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 16:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/15 16:21	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 16:21	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/22/15 16:21	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 16:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 16:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/22/15 16:21	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		06/22/15 16:21	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		06/22/15 16:21	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/22/15 16:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Sample: WS-25 40.41' **Lab ID: 92255291011** Collected: 06/18/15 15:50 Received: 06/19/15 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Chloroform	**1.0**	ug/L	1.0	1		06/22/15 16:38	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/22/15 16:38	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/22/15 16:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/22/15 16:38	156-59-2	
Methylene Chloride	ND	ug/L	2.0	1		06/22/15 16:38	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		06/22/15 16:38	127-18-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/22/15 16:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/22/15 16:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/22/15 16:38	79-01-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/22/15 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		06/22/15 16:38	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/22/15 16:38	2037-26-5	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

QC Batch: MSV/32249 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92255291001, 92255291002, 92255291003, 92255291004, 92255291005, 92255291006, 92255291007, 92255291008, 92255291009, 92255291010, 92255291011

METHOD BLANK: 1491065 | Matrix: Water
Associated Lab Samples: 92255291001, 92255291002, 92255291003, 92255291004, 92255291005, 92255291006, 92255291007, 92255291008, 92255291009, 92255291010, 92255291011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/22/15 12:25	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/22/15 12:25	
1,1-Dichloroethane	ug/L	ND	1.0	06/22/15 12:25	
1,1-Dichloroethene	ug/L	ND	1.0	06/22/15 12:25	
Chloroform	ug/L	ND	1.0	06/22/15 12:25	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/22/15 12:25	
Methylene Chloride	ug/L	13.5	2.0	06/22/15 12:25	
Tetrachloroethene	ug/L	ND	1.0	06/22/15 12:25	
Trichloroethene	ug/L	ND	1.0	06/22/15 12:25	
1,2-Dichloroethane-d4 (S)	%	101	70-130	06/22/15 12:25	
4-Bromofluorobenzene (S)	%	101	70-130	06/22/15 12:25	
Toluene-d8 (S)	%	101	70-130	06/22/15 12:25	

LABORATORY CONTROL SAMPLE: 1491066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.6	119	70-130	
1,1,2-Trichloroethane	ug/L	50	56.1	112	70-130	
1,1-Dichloroethane	ug/L	50	57.7	115	70-130	
1,1-Dichloroethene	ug/L	50	58.5	117	70-132	
Chloroform	ug/L	50	56.9	114	70-130	
cis-1,2-Dichloroethene	ug/L	50	57.7	115	70-131	
Methylene Chloride	ug/L	50	60.0	120	63-130	
Tetrachloroethene	ug/L	50	55.1	110	70-130	
Trichloroethene	ug/L	50	54.4	109	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92255291

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255291001	**WS-20 17.23'**	EPA 8260	MSV/32249		
92255291002	**WS-21 17.59'**	EPA 8260	MSV/32249		
92255291003	**TRIP BLANK**	EPA 8260	MSV/32249		
92255291004	**WS-17 10.15'**	EPA 8260	MSV/32249		
92255291005	**WS-22 19.77'**	EPA 8260	MSV/32249		
92255291006	**WS-18 11.67'**	EPA 8260	MSV/32249		
92255291007	**WS-19 26.01'**	EPA 8260	MSV/32249		
92255291008	**WS-23 37.33'**	EPA 8260	MSV/32249		
92255291009	**WS-24 38.83'**	EPA 8260	MSV/32249		
92255291010	**WS-24 DUPLICATE**	EPA 8260	MSV/32249		
92255291011	**WS-25 40.41'**	EPA 8260	MSV/32249		

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Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffith

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ (Pace) Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 2.4 °C Biological Tissue is Frozen: Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: PP 6/19/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: H2O		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No PP 6/19	
Samples checked for dechlorination:	☐Yes (☑No) ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	Date:	6-19-15
SRF Review:	AMB	Date:	6-19-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92255291

92255291

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1899565

Section A Required Client Information:

Company: Griffith Enterprises, Inc
Address: 353 Jonestown Road, #312, Winston-Salem, NC 27104
Email To: agriffin@triad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 Day Turn

Section B Required Project Information:

Report To: M. Alan Griffith LG
Copy To: Andrew K. Allen, andrewa@cityofws.org
Purchase Order No.:
Project Name: 28th Street Prosect
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager: ANGELA BAIONI
Pace Profile #: 0042-9

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): EPA 8260 Parameters	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WS-20 17.23'	WT	G			6/17/15	1:25	—	3									X		001
2	WS-21 17.59'	WT	G			6/17/15	2:40	—	3									X		002
3	TRIP BLANK	WT	G			6/17/15	3:08	—	2									X		003
4	WS-17 10.15'	WT	G			6/17/15	3:25	—	3									X		004
5	WS-22 19.77'	WT	G			6/17/15	4:00	—	3									X		005
6	WS-18 11.67'	WT	G			6/18/15	8:20	—	3									X		006
7	WS-19 26.01'	WT	G			6/18/15	9:45	—	3									X		007
8	WS-23 37.33'	WT	G			6/18/15	11:15	—	3									X		008
9	WS-24 38.83'	WT	G			6/18/15	2:55	—	3									X		009
10	WS-24 DUPLICATE	WT	G			6/18/15	2:55	—	3									X		010
11	WS-25 40.41'	WT	G			6/18/15	3:50	—	3									X		011
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Analyze for: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride.	M. Alan Griffith LG	6/19/15	6:00 AM	[illegible]	6/19	6:00 AM				
	[illegible]	6/19/15	1520	[illegible]	6/19	1520	2.4	Y	N	X

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith LG
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 6/17/15 & 6/18/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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June 26, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92254928001	**WS-30**	TO-15	DR1	10	PASI-M
92254928002	**WS-29**	TO-15	DR1	10	PASI-M
92254928003	**WS-28**	TO-15	DR1	10	PASI-M
92254928004	**WS-27**	TO-15	DR1	10	PASI-M
92254928005	**WS-26**	TO-15	DR1	10	PASI-M
92254928006	**WS-26 DUPLICATE**	TO-15	DR1	10	PASI-M
92254928007	**TRIP BLANK**	TO-15	MLS	10	PASI-M
92254928008	**WS-25**	TO-15	DR1, MJL	10	PASI-M

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92254928001	**WS-30**					
TO-15	Methylene Chloride	12.8	ug/m3	6.1	06/24/15 05:27	
TO-15	2-Propanol	51.8	ug/m3	2.2	06/24/15 05:27	
TO-15	Tetrachloroethene	11.2	ug/m3	1.2	06/24/15 05:27	
92254928002	**WS-29**					
TO-15	Chloroform	2.2	ug/m3	0.89	06/24/15 05:54	
TO-15	2-Propanol	12800	ug/m3	2.2	06/24/15 05:54	E
TO-15	Tetrachloroethene	8.5	ug/m3	1.2	06/24/15 05:54	
92254928003	**WS-28**					
TO-15	Chloroform	41.0	ug/m3	0.89	06/24/15 06:21	
TO-15	2-Propanol	227	ug/m3	2.2	06/24/15 06:21	E
TO-15	Tetrachloroethene	59.5	ug/m3	1.2	06/24/15 06:21	
92254928004	**WS-27**					
TO-15	Chloroform	2.9	ug/m3	0.86	06/24/15 07:10	
TO-15	Methylene Chloride	575	ug/m3	6.1	06/24/15 07:10	C9,E
TO-15	2-Propanol	759	ug/m3	2.2	06/24/15 07:10	E
TO-15	Tetrachloroethene	2.9	ug/m3	1.2	06/24/15 07:10	
TO-15	Trichloroethene	1.5	ug/m3	0.96	06/24/15 07:10	
92254928005	**WS-26**					
TO-15	Chloroform	8.1	ug/m3	0.86	06/24/15 07:37	
TO-15	2-Propanol	9.9	ug/m3	2.2	06/24/15 07:37	
TO-15	Tetrachloroethene	4.1	ug/m3	1.2	06/24/15 07:37	
92254928006	**WS-26 DUPLICATE**					
TO-15	Chloroform	7.6	ug/m3	0.89	06/24/15 08:04	
TO-15	2-Propanol	21.5	ug/m3	2.2	06/24/15 08:04	
TO-15	Tetrachloroethene	6.3	ug/m3	1.2	06/24/15 08:04	
92254928008	**WS-25**					
TO-15	Chloroform	8.3	ug/m3	0.89	06/24/15 08:31	
TO-15	2-Propanol	1300000	ug/m3	11500	06/25/15 04:30	A3,E
TO-15	Tetrachloroethene	15.7	ug/m3	1.2	06/24/15 08:31	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Sample: WS-30 **Lab ID: 92254928001** Collected: 06/15/15 10:45 Received: 06/17/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	0.86	1.74		06/24/15 05:27	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/24/15 05:27	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 05:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 05:27	156-59-2	
Methylene Chloride	**12.8**	ug/m3	6.1	1.74		06/24/15 05:27	75-09-2	
2-Propanol	**51.8**	ug/m3	2.2	1.74		06/24/15 05:27	67-63-0	
Tetrachloroethene	**11.2**	ug/m3	1.2	1.74		06/24/15 05:27	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/24/15 05:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/24/15 05:27	79-00-5	
Trichloroethene	ND	ug/m3	0.96	1.74		06/24/15 05:27	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Sample: WS-29 **Lab ID: 92254928002** Collected: 06/15/15 13:15 Received: 06/17/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**2.2**	ug/m3	0.89	1.8		06/24/15 05:54	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		06/24/15 05:54	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		06/24/15 05:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		06/24/15 05:54	156-59-2	
Methylene Chloride	ND	ug/m3	6.4	1.8		06/24/15 05:54	75-09-2	
2-Propanol	**12800**	ug/m3	2.2	1.8		06/24/15 05:54	67-63-0	E
Tetrachloroethene	**8.5**	ug/m3	1.2	1.8		06/24/15 05:54	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		06/24/15 05:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	1.8		06/24/15 05:54	79-00-5	
Trichloroethene	ND	ug/m3	0.99	1.8		06/24/15 05:54	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Sample: WS-28 **Lab ID: 92254928003** Collected: 06/15/15 15:00 Received: 06/17/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**41.0**	ug/m3	0.89	1.8		06/24/15 06:21	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		06/24/15 06:21	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		06/24/15 06:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		06/24/15 06:21	156-59-2	
Methylene Chloride	ND	ug/m3	6.4	1.8		06/24/15 06:21	75-09-2	
2-Propanol	**227**	ug/m3	2.2	1.8		06/24/15 06:21	67-63-0	E
Tetrachloroethene	**59.5**	ug/m3	1.2	1.8		06/24/15 06:21	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		06/24/15 06:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	1.8		06/24/15 06:21	79-00-5	
Trichloroethene	ND	ug/m3	0.99	1.8		06/24/15 06:21	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Sample: WS-27 **Lab ID: 92254928004** Collected: 06/16/15 10:50 Received: 06/17/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**2.9**	ug/m3	0.86	1.74		06/24/15 07:10	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/24/15 07:10	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 07:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 07:10	156-59-2	
Methylene Chloride	**575**	ug/m3	6.1	1.74		06/24/15 07:10	75-09-2	C9,E
2-Propanol	**759**	ug/m3	2.2	1.74		06/24/15 07:10	67-63-0	E
Tetrachloroethene	**2.9**	ug/m3	1.2	1.74		06/24/15 07:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/24/15 07:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/24/15 07:10	79-00-5	
Trichloroethene	**1.5**	ug/m3	0.96	1.74		06/24/15 07:10	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Sample: WS-26 **Lab ID: 92254928005** Collected: 06/16/15 13:20 Received: 06/17/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**8.1**	ug/m3	0.86	1.74		06/24/15 07:37	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/24/15 07:37	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 07:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 07:37	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		06/24/15 07:37	75-09-2	
2-Propanol	**9.9**	ug/m3	2.2	1.74		06/24/15 07:37	67-63-0	
Tetrachloroethene	**4.1**	ug/m3	1.2	1.74		06/24/15 07:37	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/24/15 07:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/24/15 07:37	79-00-5	
Trichloroethene	ND	ug/m3	0.96	1.74		06/24/15 07:37	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Sample: WS-26 DUPLICATE **Lab ID: 92254928006** Collected: 06/16/15 13:20 Received: 06/17/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**7.6**	ug/m3	0.89	1.8		06/24/15 08:04	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		06/24/15 08:04	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		06/24/15 08:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		06/24/15 08:04	156-59-2	
Methylene Chloride	ND	ug/m3	6.4	1.8		06/24/15 08:04	75-09-2	
2-Propanol	**21.5**	ug/m3	2.2	1.8		06/24/15 08:04	67-63-0	
Tetrachloroethene	**6.3**	ug/m3	1.2	1.8		06/24/15 08:04	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		06/24/15 08:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	1.8		06/24/15 08:04	79-00-5	
Trichloroethene	ND	ug/m3	0.99	1.8		06/24/15 08:04	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Sample: TRIP BLANK **Lab ID: 92254928007** Collected: 06/16/15 13:30 Received: 06/17/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	0.50	1		06/25/15 19:23	67-66-3	
1,1-Dichloroethane	ND	ug/m3	0.82	1		06/25/15 19:23	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		06/25/15 19:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.0	1		06/25/15 19:23	156-59-2	
Methylene Chloride	ND	ug/m3	3.5	1		06/25/15 19:23	75-09-2	
2-Propanol	ND	ug/m3	1.2	1		06/25/15 19:23	67-63-0	
Tetrachloroethene	ND	ug/m3	0.69	1		06/25/15 19:23	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		06/25/15 19:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.1	1		06/25/15 19:23	79-00-5	
Trichloroethene	ND	ug/m3	0.55	1		06/25/15 19:23	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Sample: WS-25 **Lab ID: 92254928008** Collected: 06/16/15 14:35 Received: 06/17/15 17:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**8.3**	ug/m3	0.89	1.8		06/24/15 08:31	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		06/24/15 08:31	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		06/24/15 08:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		06/24/15 08:31	156-59-2	
Methylene Chloride	ND	ug/m3	6.4	1.8		06/24/15 08:31	75-09-2	
2-Propanol	**1300000**	ug/m3	11500	9216		06/25/15 04:30	67-63-0	A3,E
Tetrachloroethene	**15.7**	ug/m3	1.2	1.8		06/24/15 08:31	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		06/24/15 08:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	1.8		06/24/15 08:31	79-00-5	
Trichloroethene	ND	ug/m3	0.99	1.8		06/24/15 08:31	79-01-6	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

QC Batch: AIR/23543 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92254928001, 92254928002, 92254928003, 92254928004, 92254928005, 92254928006, 92254928008

METHOD BLANK: 2003247 Matrix: Air
Associated Lab Samples: 92254928001, 92254928002, 92254928003, 92254928004, 92254928005, 92254928006, 92254928008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/23/15 22:26	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/23/15 22:26	
1,1-Dichloroethane	ug/m3	ND	0.82	06/23/15 22:26	
1,1-Dichloroethene	ug/m3	ND	0.81	06/23/15 22:26	
2-Propanol	ug/m3	ND	1.2	06/23/15 22:26	
Chloroform	ug/m3	ND	0.50	06/23/15 22:26	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/23/15 22:26	
Methylene Chloride	ug/m3	ND	3.5	06/23/15 22:26	
Tetrachloroethene	ug/m3	ND	0.69	06/23/15 22:26	
Trichloroethene	ug/m3	ND	0.55	06/23/15 22:26	

LABORATORY CONTROL SAMPLE: 2003248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	66.6	120	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	62.8	113	66-138	
1,1-Dichloroethane	ug/m3	41.2	45.2	110	68-137	
1,1-Dichloroethene	ug/m3	40.3	46.8	116	73-138	
2-Propanol	ug/m3	25	30.7	123	66-133	
Chloroform	ug/m3	49.7	56.9	115	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	45.6	113	64-137	
Methylene Chloride	ug/m3	35.3	38.6	109	64-130	
Tetrachloroethene	ug/m3	69	80.9	117	66-137	
Trichloroethene	ug/m3	54.6	63.7	117	70-134	

SAMPLE DUPLICATE: 2004249

Parameter	Units	10311060003 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
2-Propanol	ug/m3	12.3	10.8	13	
Chloroform	ug/m3	ND	ND		
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	ND	16.1		
Tetrachloroethene	ug/m3	1.4	1.1J		
Trichloroethene	ug/m3	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

QC Batch: AIR/23569
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92254928007

METHOD BLANK: 2006019
Matrix: Air
Associated Lab Samples: 92254928007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/25/15 15:54	
1,1,2-Trichloroethane	ug/m3	ND	1.1	06/25/15 15:54	
1,1-Dichloroethane	ug/m3	ND	0.82	06/25/15 15:54	
1,1-Dichloroethene	ug/m3	ND	0.81	06/25/15 15:54	
2-Propanol	ug/m3	ND	1.2	06/25/15 15:54	
Chloroform	ug/m3	ND	0.50	06/25/15 15:54	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	06/25/15 15:54	
Methylene Chloride	ug/m3	ND	3.5	06/25/15 15:54	
Tetrachloroethene	ug/m3	ND	0.69	06/25/15 15:54	
Trichloroethene	ug/m3	ND	0.55	06/25/15 15:54	

LABORATORY CONTROL SAMPLE: 2006020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	66.7	120	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	69.6	125	66-138	
1,1-Dichloroethane	ug/m3	41.2	46.1	112	68-137	
1,1-Dichloroethene	ug/m3	40.3	50.1	124	73-138	
2-Propanol	ug/m3	25	28.4	114	66-133	
Chloroform	ug/m3	49.7	56.3	113	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	48.7	121	64-137	
Methylene Chloride	ug/m3	35.3	32.2	91	64-130	
Tetrachloroethene	ug/m3	69	81.2	118	66-137	
Trichloroethene	ug/m3	54.6	56.1	103	70-134	

SAMPLE DUPLICATE: 2007612

Parameter	Units	10310014001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
2-Propanol	ug/m3	16.4	14.5	12	
Chloroform	ug/m3	ND	ND		
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	360	1060	98	E
Tetrachloroethene	ug/m3	ND	.94J		
Trichloroethene	ug/m3	ND	ND		

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3	This result is reported from a serial dilution.
C9	Common Laboratory Contaminant.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92254928

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92254928001	**WS-30**	TO-15	AIR/23543		
92254928002	**WS-29**	TO-15	AIR/23543		
92254928003	**WS-28**	TO-15	AIR/23543		
92254928004	**WS-27**	TO-15	AIR/23543		
92254928005	**WS-26**	TO-15	AIR/23543		
92254928006	**WS-26 DUPLICATE**	TO-15	AIR/23543		
92254928007	**TRIP BLANK**	TO-15	AIR/23569		
92254928008	**WS-25**	TO-15	AIR/23543		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Page: 1 of 1

Section A Required Client Information:

Company: Griffith Enterprises, Inc
Address: 353 Jonestown Road, #312 Winston Salem NC 27104
Email To: ggriffith@triad.rr.com
Phone: (336) 399-0096 Fax: (336) 722-0834
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:

Report To: M. Alan Griffith LG
Copy To: Andrew K. Allen andrew@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:

Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Pace-NC
Pace Profile #: 6044-10

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / X RCRA / Other

Location of Sampling by State: NC

Reporting Units: ug/m³ X / mg/m³ / PPBV / PPMV / Other

Report Level II. III. IV. Other

Method: PM10 / 3C-Fixed Gas (%) / TO-3 / TO-3M (Methane) / TO-4 (PCBs) / TO-13 (PAH) / TO-14 / TO-15 / TO15 Short List* / TAPTRL

92254928

'Section D Required Client Information

Valid Media Codes: MEDIA / CODE — Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	TIME	COMPOSITE - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	TO-14	Pace Lab ID
1	WS-30	1LC		6/15/15	10:35	6/15/15	10:45	30	0	2534	0571	X	001
2	WS-29	1LC		6/15/15	1:05	6/15/15	1:15	27	0	2481	0819	X	002
3	WS-28	1LC		6/15/15	2:50	6/15/15	3:00	29	0	2786	0619	X	003
4	WS-27	1LC		6/16/15	10:40	6/16/15	10:50	30	0	0999	0799	X	004
5	WS-26	1LC		6/16/15	1:00	6/16/15	1:20	30	0	2196	0675	X	005
6	WS-26 DUPLICATE	1LC		6/16/15	1:00	6/16/15	1:20	30	0	2069	0675	X	006
7	TRIP BLANK	1LC		6/16/15	1:30	6/16/15	1:30	+10	+10	0995		X	007
8	WS-25	1LC		6/16/15	2:25	6/16/15	2:35	30	0	2526	0618	X	008
9													
10													
11													
12													

Comments: ANALYZE FOR: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride and 2-propanol (used as tracer gas for leak detection)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
M. Alan Griffith LG	6/17/15	6:00 am	Pace	6/17/15	0617
Pace	6/17/15	1710	Small Pace	6/17/15	1710

SAMPLE CONDITIONS: Temp in °C / Received on Ice Y/N / Custody Sealed Cooler Y/N / Samples Intact Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. Alan Griffith LG

SIGNATURE of SAMPLER: M. Alan Griffith LG

DATE Signed (MM / DD / YY): 6/15/15 and 6/16/15

WO#: 92254928

92254928

1700 Elm Street SE, Suite 200

FC046Rev.01, 03Feb2010

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 30, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92255292001	**WS-20**	TO-15	DR1	10	PASI-M
92255292002	**WS-21**	TO-15	MJL	10	PASI-M
92255292003	**TRIP BLANK**	TO-15	DR1	10	PASI-M
92255292004	**WS-17**	TO-15	DR1	10	PASI-M
92255292005	**WS-22**	TO-15	MJL	10	PASI-M
92255292006	**WS-18**	TO-15	MLS	10	PASI-M
92255292007	**WS-19**	TO-15	MLS	10	PASI-M
92255292008	**WS-23**	TO-15	MLS	10	PASI-M
92255292009	**WS-23 DUPLICATE**	TO-15	MLS	10	PASI-M
92255292010	**WS-24**	TO-15	MLS	10	PASI-M

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92255292002	**WS-21**					
TO-15	Methylene Chloride	8.2	ug/m3	6.1	06/28/15 20:41	
TO-15	2-Propanol	520	ug/m3	2.2	06/28/15 20:41	E
TO-15	Tetrachloroethene	16.3	ug/m3	1.2	06/28/15 20:41	
92255292004	**WS-17**					
TO-15	2-Propanol	49000	ug/m3	45.0	06/25/15 20:40	E
92255292005	**WS-22**					
TO-15	Chloroform	8.4	ug/m3	0.89	06/28/15 20:10	
TO-15	cis-1,2-Dichloroethene	7.7	ug/m3	1.5	06/28/15 20:10	
TO-15	2-Propanol	27.2	ug/m3	2.2	06/28/15 20:10	
TO-15	Tetrachloroethene	1.8	ug/m3	1.2	06/28/15 20:10	
92255292006	**WS-18**					
TO-15	Tetrachloroethene	861	ug/m3	6.0	06/25/15 00:09	
92255292007	**WS-19**					
TO-15	Chloroform	59.0	ug/m3	8.6	06/25/15 00:55	
TO-15	Tetrachloroethene	89500	ug/m3	613	06/25/15 12:37	A3
TO-15	Trichloroethene	141	ug/m3	9.6	06/25/15 00:55	
92255292008	**WS-23**					
TO-15	Chloroform	47.7	ug/m3	0.86	06/24/15 23:20	
TO-15	2-Propanol	4240	ug/m3	43.5	06/25/15 12:59	E
TO-15	Tetrachloroethene	757	ug/m3	24.0	06/25/15 12:59	
TO-15	Trichloroethene	1.2	ug/m3	0.96	06/24/15 23:20	
92255292009	**WS-23 DUPLICATE**					
TO-15	Chloroform	49.5	ug/m3	0.86	06/24/15 23:46	
TO-15	Methylene Chloride	8.2	ug/m3	6.1	06/24/15 23:46	
TO-15	2-Propanol	1230	ug/m3	43.5	06/25/15 13:22	
TO-15	Tetrachloroethene	756	ug/m3	24.0	06/25/15 13:22	
TO-15	Trichloroethene	1.7	ug/m3	0.96	06/24/15 23:46	
92255292010	**WS-24**					
TO-15	Chloroform	411	ug/m3	4.5	06/25/15 00:33	
TO-15	2-Propanol	36.2	ug/m3	11.2	06/25/15 00:33	CH,L1
TO-15	Tetrachloroethene	33.8	ug/m3	6.2	06/25/15 00:33	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-20 **Lab ID: 92255292001** Collected: 06/17/15 13:47 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	17.9	36		06/25/15 19:51	67-66-3	
1,1-Dichloroethane	ND	ug/m3	29.5	36		06/25/15 19:51	75-34-3	
1,1-Dichloroethene	ND	ug/m3	29.2	36		06/25/15 19:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	29.2	36		06/25/15 19:51	156-59-2	
Methylene Chloride	ND	ug/m3	127	36		06/25/15 19:51	75-09-2	
2-Propanol	ND	ug/m3	45.0	36		06/25/15 19:51	67-63-0	
Tetrachloroethene	ND	ug/m3	24.8	36		06/25/15 19:51	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	40.0	36		06/25/15 19:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	19.8	36		06/25/15 19:51	79-00-5	
Trichloroethene	ND	ug/m3	19.8	36		06/25/15 19:51	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-21 **Lab ID: 92255292002** Collected: 06/17/15 14:25 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	0.86	1.74		06/28/15 20:41	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/28/15 20:41	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/28/15 20:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/28/15 20:41	156-59-2	
Methylene Chloride	**8.2**	ug/m3	6.1	1.74		06/28/15 20:41	75-09-2	
2-Propanol	**520**	ug/m3	2.2	1.74		06/28/15 20:41	67-63-0	E
Tetrachloroethene	**16.3**	ug/m3	1.2	1.74		06/28/15 20:41	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/28/15 20:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/28/15 20:41	79-00-5	
Trichloroethene	ND	ug/m3	0.96	1.74		06/28/15 20:41	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: TRIP BLANK **Lab ID: 92255292003** Collected: 06/17/15 15:00 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	0.50	1		06/25/15 16:43	67-66-3	
1,1-Dichloroethane	ND	ug/m3	0.82	1		06/25/15 16:43	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		06/25/15 16:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		06/25/15 16:43	156-59-2	
Methylene Chloride	ND	ug/m3	3.5	1		06/25/15 16:43	75-09-2	
2-Propanol	ND	ug/m3	1.2	1		06/25/15 16:43	67-63-0	
Tetrachloroethene	ND	ug/m3	0.69	1		06/25/15 16:43	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		06/25/15 16:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	1		06/25/15 16:43	79-00-5	
Trichloroethene	ND	ug/m3	0.55	1		06/25/15 16:43	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-17 **Lab ID: 92255292004** Collected: 06/17/15 15:15 Received: 06/19/15 15:20 Matrix: Air

Comments: • The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	17.9	36		06/25/15 20:40	67-66-3	
1,1-Dichloroethane	ND	ug/m3	29.5	36		06/25/15 20:40	75-34-3	
1,1-Dichloroethene	ND	ug/m3	29.2	36		06/25/15 20:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	29.2	36		06/25/15 20:40	156-59-2	
Methylene Chloride	ND	ug/m3	127	36		06/25/15 20:40	75-09-2	
2-Propanol	**49000**	ug/m3	45.0	36		06/25/15 20:40	67-63-0	E
Tetrachloroethene	ND	ug/m3	24.8	36		06/25/15 20:40	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	40.0	36		06/25/15 20:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	19.8	36		06/25/15 20:40	79-00-5	
Trichloroethene	ND	ug/m3	19.8	36		06/25/15 20:40	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-22 **Lab ID: 92255292005** Collected: 06/17/15 15:55 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**8.4**	ug/m3	0.89	1.8		06/28/15 20:10	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		06/28/15 20:10	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		06/28/15 20:10	75-35-4	
cis-1,2-Dichloroethene	**7.7**	ug/m3	1.5	1.8		06/28/15 20:10	156-59-2	
Methylene Chloride	ND	ug/m3	127	36		06/25/15 21:02	75-09-2	
2-Propanol	**27.2**	ug/m3	2.2	1.8		06/28/15 20:10	67-63-0	
Tetrachloroethene	**1.8**	ug/m3	1.2	1.8		06/28/15 20:10	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		06/28/15 20:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	1.8		06/28/15 20:10	79-00-5	
Trichloroethene	ND	ug/m3	0.99	1.8		06/28/15 20:10	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-18 **Lab ID: 92255292006** Collected: 06/18/15 08:05 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	4.3	8.7		06/25/15 00:09	67-66-3	
1,1-Dichloroethane	ND	ug/m3	7.1	8.7		06/25/15 00:09	75-34-3	
1,1-Dichloroethene	ND	ug/m3	7.0	8.7		06/25/15 00:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	7.0	8.7		06/25/15 00:09	156-59-2	
Methylene Chloride	ND	ug/m3	30.7	8.7		06/25/15 00:09	75-09-2	
2-Propanol	ND	ug/m3	10.9	8.7		06/25/15 00:09	67-63-0	CH,L1
Tetrachloroethene	**861**	ug/m3	6.0	8.7		06/25/15 00:09	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	9.7	8.7		06/25/15 00:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	4.8	8.7		06/25/15 00:09	79-00-5	
Trichloroethene	ND	ug/m3	4.8	8.7		06/25/15 00:09	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-19 **Lab ID: 92255292007** Collected: 06/18/15 08:55 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**59.0**	ug/m3	8.6	17.4		06/25/15 00:55	67-66-3	
1,1-Dichloroethane	ND	ug/m3	14.3	17.4		06/25/15 00:55	75-34-3	
1,1-Dichloroethene	ND	ug/m3	14.1	17.4		06/25/15 00:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	14.1	17.4		06/25/15 00:55	156-59-2	
Methylene Chloride	ND	ug/m3	61.4	17.4		06/25/15 00:55	75-09-2	
2-Propanol	ND	ug/m3	1110	889.6		06/25/15 12:37	67-63-0	A3
Tetrachloroethene	**89500**	ug/m3	613	889.6		06/25/15 12:37	127-18-4	A3
1,1,1-Trichloroethane	ND	ug/m3	19.3	17.4		06/25/15 00:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	9.6	17.4		06/25/15 00:55	79-00-5	
Trichloroethene	**141**	ug/m3	9.6	17.4		06/25/15 00:55	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-23 **Lab ID: 92255292008** Collected: 06/18/15 10:40 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**47.7**	ug/m3	0.86	1.74		06/24/15 23:20	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/24/15 23:20	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 23:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 23:20	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		06/24/15 23:20	75-09-2	
2-Propanol	**4240**	ug/m3	43.5	34.8		06/25/15 12:59	67-63-0	E
Tetrachloroethene	**757**	ug/m3	24.0	34.8		06/25/15 12:59	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/24/15 23:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/24/15 23:20	79-00-5	
Trichloroethene	**1.2**	ug/m3	0.96	1.74		06/24/15 23:20	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-23 DUPLICATE **Lab ID: 92255292009** Collected: 06/18/15 10:40 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**49.5**	ug/m3	0.86	1.74		06/24/15 23:46	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		06/24/15 23:46	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 23:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		06/24/15 23:46	156-59-2	
Methylene Chloride	**8.2**	ug/m3	6.1	1.74		06/24/15 23:46	75-09-2	
2-Propanol	**1230**	ug/m3	43.5	34.8		06/25/15 13:22	67-63-0	
Tetrachloroethene	**756**	ug/m3	24.0	34.8		06/25/15 13:22	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		06/24/15 23:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		06/24/15 23:46	79-00-5	
Trichloroethene	**1.7**	ug/m3	0.96	1.74		06/24/15 23:46	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Sample: WS-24 **Lab ID: 92255292010** Collected: 06/18/15 14:35 Received: 06/19/15 15:20 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**411**	ug/m3	4.5	9		06/25/15 00:33	67-66-3	
1,1-Dichloroethane	ND	ug/m3	7.4	9		06/25/15 00:33	75-34-3	
1,1-Dichloroethene	ND	ug/m3	7.3	9		06/25/15 00:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	7.3	9		06/25/15 00:33	156-59-2	
Methylene Chloride	ND	ug/m3	31.8	9		06/25/15 00:33	75-09-2	
2-Propanol	**36.2**	ug/m3	11.2	9		06/25/15 00:33	67-63-0	CH,L1
Tetrachloroethene	**33.8**	ug/m3	6.2	9		06/25/15 00:33	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	10	9		06/25/15 00:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	5.0	9		06/25/15 00:33	79-00-5	
Trichloroethene	ND	ug/m3	5.0	9		06/25/15 00:33	79-01-6	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

QC Batch: AIR/23557 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92255292006, 92255292007, 92255292008, 92255292009, 92255292010

METHOD BLANK: 2004568 Matrix: Air
Associated Lab Samples: 92255292006, 92255292007, 92255292008, 92255292009, 92255292010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/24/15 12:59	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/24/15 12:59	
1,1-Dichloroethane	ug/m3	ND	0.82	06/24/15 12:59	
1,1-Dichloroethene	ug/m3	ND	0.81	06/24/15 12:59	
2-Propanol	ug/m3	ND	1.2	06/24/15 12:59	
Chloroform	ug/m3	ND	0.50	06/24/15 12:59	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/24/15 12:59	
Methylene Chloride	ug/m3	ND	3.5	06/24/15 12:59	
Tetrachloroethene	ug/m3	ND	0.69	06/24/15 12:59	
Trichloroethene	ug/m3	ND	0.55	06/24/15 12:59	

LABORATORY CONTROL SAMPLE: 2004569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	68.0	123	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	62.5	113	66-138	
1,1-Dichloroethane	ug/m3	41.2	48.3	117	68-137	
1,1-Dichloroethene	ug/m3	40.3	48.6	121	73-138	
2-Propanol	ug/m3	25	36.4	145	66-133	CH,L1
Chloroform	ug/m3	49.7	59.2	119	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	48.0	119	64-137	
Methylene Chloride	ug/m3	35.3	39.0	110	64-130	
Tetrachloroethene	ug/m3	69	79.9	116	66-137	
Trichloroethene	ug/m3	54.6	63.7	117	70-134	

SAMPLE DUPLICATE: 2005484

Parameter	Units	10311362002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
2-Propanol	ug/m3	6430	6440	0	CH,E,L1
Chloroform	ug/m3	ND	.39J		
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	ND	4.1J		
Tetrachloroethene	ug/m3	2.1	2.0	2	
Trichloroethene	ug/m3	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

QC Batch: AIR/23575 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92255292001, 92255292003, 92255292004

METHOD BLANK: 2007265 Matrix: Air
Associated Lab Samples: 92255292001, 92255292003, 92255292004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/25/15 11:12	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/25/15 11:12	
1,1-Dichloroethane	ug/m3	ND	0.82	06/25/15 11:12	
1,1-Dichloroethene	ug/m3	ND	0.81	06/25/15 11:12	
2-Propanol	ug/m3	ND	1.2	06/25/15 11:12	
Chloroform	ug/m3	ND	0.50	06/25/15 11:12	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/25/15 11:12	
Methylene Chloride	ug/m3	ND	3.5	06/25/15 11:12	
Tetrachloroethene	ug/m3	ND	0.69	06/25/15 11:12	
Trichloroethene	ug/m3	ND	0.55	06/25/15 11:12	

LABORATORY CONTROL SAMPLE: 2007266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.6	102	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	64.2	116	66-138	
1,1-Dichloroethane	ug/m3	41.2	41.8	102	68-137	
1,1-Dichloroethene	ug/m3	40.3	41.3	102	73-138	
2-Propanol	ug/m3	25	26.2	105	66-133	
Chloroform	ug/m3	49.7	51.6	104	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	41.5	103	64-137	
Methylene Chloride	ug/m3	35.3	32.1	91	64-130	
Tetrachloroethene	ug/m3	69	78.1	113	66-137	
Trichloroethene	ug/m3	54.6	57.5	105	70-134	

SAMPLE DUPLICATE: 2010919

Parameter	Units	92255339002 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
2-Propanol	ug/m3	4.1	3.9	5	
Chloroform	ug/m3	0.48J	.45J		
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	3.5J	3.8J		
Tetrachloroethene	ug/m3	217	219	1	
Trichloroethene	ug/m3	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

QC Batch: AIR/23595
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92255292002, 92255292005

METHOD BLANK: 2009051
Matrix: Air
Associated Lab Samples: 92255292002, 92255292005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/28/15 09:29	
1,1,2-Trichloroethane	ug/m3	ND	0.55	06/28/15 09:29	
1,1-Dichloroethane	ug/m3	ND	0.82	06/28/15 09:29	
1,1-Dichloroethene	ug/m3	ND	0.81	06/28/15 09:29	
2-Propanol	ug/m3	ND	1.2	06/28/15 09:29	
Chloroform	ug/m3	ND	0.50	06/28/15 09:29	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/28/15 09:29	
Methylene Chloride	ug/m3	ND	3.5	06/28/15 09:29	
Tetrachloroethene	ug/m3	ND	0.69	06/28/15 09:29	
Trichloroethene	ug/m3	ND	0.55	06/28/15 09:29	

LABORATORY CONTROL SAMPLE: 2009052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	69.3	125	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	64.8	117	66-138	
1,1-Dichloroethane	ug/m3	41.2	48.9	119	68-137	
1,1-Dichloroethene	ug/m3	40.3	47.5	118	73-138	
2-Propanol	ug/m3	25	26.0	104	66-133	
Chloroform	ug/m3	49.7	60.6	122	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	49.2	122	64-137	
Methylene Chloride	ug/m3	35.3	33.4	94	64-130	
Tetrachloroethene	ug/m3	69	86.4	125	66-137	
Trichloroethene	ug/m3	54.6	67.2	123	70-134	

SAMPLE DUPLICATE: 2009419

Parameter	Units	10312118004 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
2-Propanol	ug/m3	26.2	25.0	5	
Chloroform	ug/m3	ND	ND		
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	ND	ND		
Tetrachloroethene	ug/m3	ND	ND		
Trichloroethene	ug/m3	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

SAMPLE DUPLICATE: 2009435

Parameter	Units	10312119001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
2-Propanol	ug/m3	123	124	0	
Chloroform	ug/m3	ND	ND		
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	ND	11.5J		
Tetrachloroethene	ug/m3	ND	ND		
Trichloroethene	ug/m3	ND	ND		

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QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3	This result is reported from a serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92255292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92255292001	**WS-20**	TO-15	AIR/23575		
92255292002	**WS-21**	TO-15	AIR/23595		
92255292003	**TRIP BLANK**	TO-15	AIR/23575		
92255292004	**WS-17**	TO-15	AIR/23575		
92255292005	**WS-22**	TO-15	AIR/23595		
92255292006	**WS-18**	TO-15	AIR/23557		
92255292007	**WS-19**	TO-15	AIR/23557		
92255292008	**WS-23**	TO-15	AIR/23557		
92255292009	**WS-23 DUPLICATE**	TO-15	AIR/23557		
92255292010	**WS-24**	TO-15	AIR/23557		

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Pace Analytical
www.pacelab

WO# : 92255292
92255292

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

15616 Page: 1 of 1

Section A Required Client Information:
Company: Griffith Enterprises, Inc
Address: 353 Jonestown Road, #312
Winston Salem NC 27104
Email To: ggriffithetriad.rr.com
Phone: (336) 399-0096 Fax: (336) 712-0884
Requested Due Date/TAT: 5 DAY TURN

Section B Required Project Information:
Report To: M. Alan Griffith LG
Copy To: Andrew K. Allen
andrewa@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:
Attention: M. Alan Griffith LG
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Pace-NC
Pace Profile #: 6044-10

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / X RCRA / Other
Location of Sampling by State NC
Reporting Units: ug/m³ X mg/m³ / PPBV / PPMV / Other
Report Level II. III. IV. Other

Valid Media Codes: MEDIA / CODE — Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	PM10	3C-Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15 PARTIAL	TO15 Short List*	Pace Lab ID (92255292)
1	WS-20	ILC	—	6/17/15	1:37	6/17/15	1:47	30	0	1178	0668							X			001
2	WS-21	ILC	—	6/17/15	2:15	6/17/15	2:25	30	0	0867	0784							X			002
3	TRIP BLANK	ILC	—	6/17/15	3:00	6/17/15	3:00	+10	+10	2559	—							X			003
4	WS-17	ILC	—	6/17/15	3:05	6/17/15	3:15	30	0	1129	0630							X			004
5	WS-22	ILC	—	6/17/15	3:45	6/17/15	3:55	29	0	1316	0777							X			005
6	WS-18	ILC	—	6/18/15	7:55	6/18/15	8:05	30	0	2738	0552							X			006
7	WS-19	ILC	—	6/18/15	8:45	6/18/15	8:55	30	0	1151	0508							X			007
8	WS-23	ILC	—	6/18/15	10:30	6/18/15	10:40	29	0	2494	0779							X			008
9	WS-23 DUPLICATE	ILC	—	6/18/15	10:30	6/18/15	10:40	29	0	2206	0779							X			009
10	WS-24	ILC	—	6/18/15	2:25	6/18/15	2:35	25	0	0916	0504							X			010
11																					
12																					

Comments: Analyze for: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, and (2-propanol used as tracer gas for leak detection).

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
M. Alan Griffith LG	6/19/15	6:00 AM	[illegible]	6/19	6AM
[illegible] Pace	6/19	1520	[illegible] Pace	6/19	1520

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith LG
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 6/17/15 AND 6/18/15

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

ORIGINAL

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 14, 2015

Mr. Alan Griffith
Griffith Enterprises, Inc.
353 Jonestown Rd.
#312
Winston Salem, NC 27104

RE: Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Dear Mr. Griffith:
Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE ANALYTE COUNT

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92257342001	**WS-31**	TO-15	DR1	10	PASI-M
92257342002	**WS-32**	TO-15	DR1	10	PASI-M
92257342003	**WS-33**	TO-15	DR1	10	PASI-M
92257342004	**WS-34**	TO-15	MJL	10	PASI-M
92257342005	**WS-34 DUPLICATE**	TO-15	DR1	10	PASI-M
92257342006	**WS-35**	TO-15	DR1	10	PASI-M
92257342007	**WS-36**	TO-15	DR1	10	PASI-M
92257342008	**TRIP BLANK**	TO-15	DR1	10	PASI-M

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SUMMARY OF DETECTION

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92257342001	**WS-31**					
TO-15	Chloroform	19.0	ug/m3	0.89	07/10/15 04:09	
TO-15	2-Propanol	191	ug/m3	2.2	07/10/15 04:09	E
TO-15	Tetrachloroethene	3710	ug/m3	24.8	07/10/15 15:18	A3
TO-15	Trichloroethene	33.3	ug/m3	0.99	07/10/15 04:09	
92257342002	**WS-32**					
TO-15	Chloroform	12.0	ug/m3	0.86	07/10/15 04:36	
TO-15	1,1-Dichloroethane	1.6	ug/m3	1.4	07/10/15 04:36	
TO-15	Tetrachloroethene	20300	ug/m3	95.9	07/10/15 15:41	A3
TO-15	Trichloroethene	178	ug/m3	0.96	07/10/15 04:36	
92257342003	**WS-33**					
TO-15	Chloroform	5.2	ug/m3	0.86	07/10/15 05:02	
TO-15	2-Propanol	13.3	ug/m3	2.2	07/10/15 05:02	
TO-15	Tetrachloroethene	46.1	ug/m3	1.2	07/10/15 05:02	
92257342004	**WS-34**					
TO-15	Methylene Chloride	185	ug/m3	123	07/10/15 15:49	
TO-15	2-Propanol	4080	ug/m3	43.5	07/10/15 15:49	E
92257342005	**WS-34 DUPLICATE**					
TO-15	Chloroform	1.7	ug/m3	0.86	07/10/15 05:56	
TO-15	Methylene Chloride	77.1	ug/m3	6.1	07/10/15 05:56	
TO-15	2-Propanol	255	ug/m3	2.2	07/10/15 05:56	E
TO-15	Tetrachloroethene	3.5	ug/m3	1.2	07/10/15 05:56	
TO-15	Trichloroethene	6.4	ug/m3	0.96	07/10/15 05:56	
92257342006	**WS-35**					
TO-15	Chloroform	729	ug/m3	8.9	07/10/15 14:55	
TO-15	2-Propanol	70.5	ug/m3	2.2	07/10/15 06:22	
TO-15	Tetrachloroethene	817	ug/m3	12.4	07/10/15 14:55	
TO-15	Trichloroethene	1.0	ug/m3	0.99	07/10/15 06:22	
92257342007	**WS-36**					
TO-15	Chloroform	1.2	ug/m3	0.86	07/10/15 08:51	
TO-15	cis-1,2-Dichloroethene	7.8	ug/m3	1.4	07/10/15 08:51	
TO-15	Tetrachloroethene	14.7	ug/m3	1.2	07/10/15 08:51	
TO-15	Trichloroethene	16.3	ug/m3	0.96	07/10/15 08:51	
92257342008	**TRIP BLANK**					
TO-15	Methylene Chloride	3.9	ug/m3	3.5	07/10/15 09:18	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Sample: WS-31 **Lab ID: 92257342001** Collected: 07/01/15 13:40 Received: 07/06/15 14:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**19.0**	ug/m3	0.89	1.8		07/10/15 04:09	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		07/10/15 04:09	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		07/10/15 04:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		07/10/15 04:09	156-59-2	
Methylene Chloride	ND	ug/m3	6.4	1.8		07/10/15 04:09	75-09-2	
2-Propanol	**191**	ug/m3	2.2	1.8		07/10/15 04:09	67-63-0	E
Tetrachloroethene	**3710**	ug/m3	24.8	36		07/10/15 15:18	127-18-4	A3
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		07/10/15 04:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	1.8		07/10/15 04:09	79-00-5	
Trichloroethene	**33.3**	ug/m3	0.99	1.8		07/10/15 04:09	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Sample: WS-32 **Lab ID: 92257342002** Collected: 07/01/15 15:00 Received: 07/06/15 14:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**12.0**	ug/m3	0.86	1.74		07/10/15 04:36	67-66-3	
1,1-Dichloroethane	**1.6**	ug/m3	1.4	1.74		07/10/15 04:36	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		07/10/15 04:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		07/10/15 04:36	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		07/10/15 04:36	75-09-2	
2-Propanol	ND	ug/m3	2.2	1.74		07/10/15 04:36	67-63-0	
Tetrachloroethene	**20300**	ug/m3	95.9	139.2		07/10/15 15:41	127-18-4	A3
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		07/10/15 04:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		07/10/15 04:36	79-00-5	
Trichloroethene	**178**	ug/m3	0.96	1.74		07/10/15 04:36	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Sample: WS-33 **Lab ID: 92257342003** Collected: 07/01/15 16:25 Received: 07/06/15 14:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**5.2**	ug/m3	0.86	1.74		07/10/15 05:02	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		07/10/15 05:02	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		07/10/15 05:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		07/10/15 05:02	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		07/10/15 05:02	75-09-2	
2-Propanol	**13.3**	ug/m3	2.2	1.74		07/10/15 05:02	67-63-0	
Tetrachloroethene	**46.1**	ug/m3	1.2	1.74		07/10/15 05:02	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		07/10/15 05:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		07/10/15 05:02	79-00-5	
Trichloroethene	ND	ug/m3	0.96	1.74		07/10/15 05:02	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Sample: WS-34 **Lab ID: 92257342004** Collected: 07/02/15 09:40 Received: 07/06/15 14:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	17.3	34.8		07/10/15 15:49	67-66-3	
1,1-Dichloroethane	ND	ug/m3	28.5	34.8		07/10/15 15:49	75-34-3	
1,1-Dichloroethene	ND	ug/m3	28.2	34.8		07/10/15 15:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	70.1	34.8		07/10/15 15:49	156-59-2	
Methylene Chloride	**185**	ug/m3	123	34.8		07/10/15 15:49	75-09-2	
2-Propanol	**4080**	ug/m3	43.5	34.8		07/10/15 15:49	67-63-0	E
Tetrachloroethene	ND	ug/m3	24.0	34.8		07/10/15 15:49	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	38.6	34.8		07/10/15 15:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	19.1	34.8		07/10/15 15:49	79-00-5	
Trichloroethene	ND	ug/m3	19.1	34.8		07/10/15 15:49	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Sample: WS-34 DUPLICATE **Lab ID: 92257342005** Collected: 07/02/15 09:40 Received: 07/06/15 14:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**1.7**	ug/m3	0.86	1.74		07/10/15 05:56	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		07/10/15 05:56	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		07/10/15 05:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.4	1.74		07/10/15 05:56	156-59-2	
Methylene Chloride	**77.1**	ug/m3	6.1	1.74		07/10/15 05:56	75-09-2	
2-Propanol	**255**	ug/m3	2.2	1.74		07/10/15 05:56	67-63-0	E
Tetrachloroethene	**3.5**	ug/m3	1.2	1.74		07/10/15 05:56	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		07/10/15 05:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		07/10/15 05:56	79-00-5	
Trichloroethene	**6.4**	ug/m3	0.96	1.74		07/10/15 05:56	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Sample: WS-35 **Lab ID: 92257342006** Collected: 07/02/15 10:50 Received: 07/06/15 14:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**729**	ug/m3	8.9	18		07/10/15 14:55	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.5	1.8		07/10/15 06:22	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.5	1.8		07/10/15 06:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.5	1.8		07/10/15 06:22	156-59-2	
Methylene Chloride	ND	ug/m3	6.4	1.8		07/10/15 06:22	75-09-2	
2-Propanol	**70.5**	ug/m3	2.2	1.8		07/10/15 06:22	67-63-0	
Tetrachloroethene	**817**	ug/m3	12.4	18		07/10/15 14:55	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		07/10/15 06:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.99	1.8		07/10/15 06:22	79-00-5	
Trichloroethene	**1.0**	ug/m3	0.99	1.8		07/10/15 06:22	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Sample: WS-36 **Lab ID: 92257342007** Collected: 07/02/15 13:45 Received: 07/06/15 14:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	**1.2**	ug/m3	0.86	1.74		07/10/15 08:51	67-66-3	
1,1-Dichloroethane	ND	ug/m3	1.4	1.74		07/10/15 08:51	75-34-3	
1,1-Dichloroethene	ND	ug/m3	1.4	1.74		07/10/15 08:51	75-35-4	
cis-1,2-Dichloroethene	**7.8**	ug/m3	1.4	1.74		07/10/15 08:51	156-59-2	
Methylene Chloride	ND	ug/m3	6.1	1.74		07/10/15 08:51	75-09-2	
2-Propanol	ND	ug/m3	2.2	1.74		07/10/15 08:51	67-63-0	
Tetrachloroethene	**14.7**	ug/m3	1.2	1.74		07/10/15 08:51	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		07/10/15 08:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.96	1.74		07/10/15 08:51	79-00-5	
Trichloroethene	**16.3**	ug/m3	0.96	1.74		07/10/15 08:51	79-01-6	

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ANALYTICAL RESULTS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Sample: TRIP BLANK **Lab ID: 92257342008** Collected: 07/02/15 00:00 Received: 07/06/15 14:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	0.50	1		07/10/15 09:18	67-66-3	
1,1-Dichloroethane	ND	ug/m3	0.82	1		07/10/15 09:18	75-34-3	
1,1-Dichloroethene	ND	ug/m3	0.81	1		07/10/15 09:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.81	1		07/10/15 09:18	156-59-2	
Methylene Chloride	**3.9**	ug/m3	3.5	1		07/10/15 09:18	75-09-2	
2-Propanol	ND	ug/m3	1.2	1		07/10/15 09:18	67-63-0	
Tetrachloroethene	ND	ug/m3	0.69	1		07/10/15 09:18	127-18-4	
1,1,1-Trichloroethane	ND	ug/m3	1.1	1		07/10/15 09:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.55	1		07/10/15 09:18	79-00-5	
Trichloroethene	ND	ug/m3	0.55	1		07/10/15 09:18	79-01-6	

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

QC Batch: AIR/23680 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92257342001, 92257342002, 92257342003, 92257342005, 92257342006, 92257342007, 92257342008

METHOD BLANK: 2017707 Matrix: Air
Associated Lab Samples: 92257342001, 92257342002, 92257342003, 92257342005, 92257342006, 92257342007, 92257342008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/09/15 19:12	
1,1,2-Trichloroethane	ug/m3	ND	0.55	07/09/15 19:12	
1,1-Dichloroethane	ug/m3	ND	0.82	07/09/15 19:12	
1,1-Dichloroethene	ug/m3	ND	0.81	07/09/15 19:12	
2-Propanol	ug/m3	ND	1.2	07/09/15 19:12	
Chloroform	ug/m3	ND	0.50	07/09/15 19:12	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/09/15 19:12	
Methylene Chloride	ug/m3	ND	3.5	07/09/15 19:12	
Tetrachloroethene	ug/m3	ND	0.69	07/09/15 19:12	
Trichloroethene	ug/m3	ND	0.55	07/09/15 19:12	

LABORATORY CONTROL SAMPLE: 2017708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	51.9	94	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	48.3	87	66-138	
1,1-Dichloroethane	ug/m3	41.2	39.5	96	68-137	
1,1-Dichloroethene	ug/m3	40.3	39.7	98	73-138	
2-Propanol	ug/m3	25	20.7	83	66-133	
Chloroform	ug/m3	49.7	46.0	93	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	38.5	95	64-137	
Methylene Chloride	ug/m3	35.3	37.3	106	64-130	
Tetrachloroethene	ug/m3	69	77.7	113	66-137	
Trichloroethene	ug/m3	54.6	49.3	90	70-134	

SAMPLE DUPLICATE: 2019089

Parameter	Units	50122423001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		
1,1,2-Trichloroethane	ug/m3	ND	ND		
1,1-Dichloroethane	ug/m3	ND	ND		
1,1-Dichloroethene	ug/m3	ND	ND		
2-Propanol	ug/m3	ND	ND		
Chloroform	ug/m3	ND	.76J		
cis-1,2-Dichloroethene	ug/m3	ND	ND		
Methylene Chloride	ug/m3	366	467	24	E
Tetrachloroethene	ug/m3	ND	ND		
Trichloroethene	ug/m3	2.6	2.1	22	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

QC Batch: AIR/23692
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 92257342004

METHOD BLANK: 2019347
Matrix: Air
Associated Lab Samples: 92257342004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/10/15 09:54	
1,1,2-Trichloroethane	ug/m3	ND	0.55	07/10/15 09:54	
1,1-Dichloroethane	ug/m3	ND	0.82	07/10/15 09:54	
1,1-Dichloroethene	ug/m3	ND	0.81	07/10/15 09:54	
2-Propanol	ug/m3	ND	1.2	07/10/15 09:54	
Chloroform	ug/m3	ND	0.50	07/10/15 09:54	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	07/10/15 09:54	
Methylene Chloride	ug/m3	ND	3.5	07/10/15 09:54	
Tetrachloroethene	ug/m3	ND	0.69	07/10/15 09:54	
Trichloroethene	ug/m3	ND	0.55	07/10/15 09:54	

LABORATORY CONTROL SAMPLE: 2019348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.1	107	72-140	
1,1,2-Trichloroethane	ug/m3	55.5	64.2	116	66-138	
1,1-Dichloroethane	ug/m3	41.2	43.4	105	68-137	
1,1-Dichloroethene	ug/m3	40.3	42.0	104	73-138	
2-Propanol	ug/m3	25	29.4	118	66-133	
Chloroform	ug/m3	49.7	53.4	108	73-136	
cis-1,2-Dichloroethene	ug/m3	40.3	43.1	107	64-137	
Methylene Chloride	ug/m3	35.3	36.9	105	64-130	
Tetrachloroethene	ug/m3	69	80.9	117	66-137	
Trichloroethene	ug/m3	54.6	62.4	114	70-134	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

A3	This result is reported from a serial dilution.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

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Huntersville, NC 28078
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 28TH STREET PROJECT
Pace Project No.: 92257342

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92257342001	**WS-31**	TO-15	AIR/23680		
92257342002	**WS-32**	TO-15	AIR/23680		
92257342003	**WS-33**	TO-15	AIR/23680		
92257342004	**WS-34**	TO-15	AIR/23692		
92257342005	**WS-34 DUPLICATE**	TO-15	AIR/23680		
92257342006	**WS-35**	TO-15	AIR/23680		
92257342007	**WS-36**	TO-15	AIR/23680		
92257342008	**TRIP BLANK**	TO-15	AIR/23680		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 18, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Griffith

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ✓ Other_____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: N/a °C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: AP 7-6-15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☐Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☐No ☑N/A	2.
Chain of Custody Relinquished:	☐Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☐N/A	7.
Sufficient Volume:	☐Yes ☐No ☐N/A	8.
Correct Containers Used:	☐Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: OT	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: lab will perform leak check to determine if sample volume ok or if cans potentially leaked

SCURF Review: AMB Date: 7-6-15

SRF Review: AMB Date: 7-9-15

WO#: 92257342

92257342

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

15613

Page: 1 of 1

Section A Required Client Information:
Company: Griffith Enterprises Inc
Address: 333 Jonestown Road #312
Winston-Salem NC 27104
Email To: griffithetriad.rr.com
Phone: (336) 712-0290 Fax: (336) 712-0884
Requested Due Date/TAT: 5 Day Turn

Section B Required Project Information:
Report To: M. Alan Griffith
Copy To: andrew K Allen
andrew@cityofws.org
Purchase Order No.:
Project Name: 28th Street Project
Project Number:

Section C Invoice Information:
Attention: M. Alan Griffith
Company Name: Griffith Enterprises, Inc
Address: SAME AS SECTION A
Pace Quote Reference: 18259
Pace Project Manager/Sales Rep. Pace-NC
Pace Profile #: 6044-10

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean X / RCRA / Other

Location of Sampling by State: NC

Reporting Units: ug/m³ X / mg/m³ / PPBV / PPMV / Other

Report Level II. III. IV. Other

Method: PM10 / 3C- Fixed Gas (%) / TO-3 / TO-3M (Methane) / TO-4 (PCBs) / TO-13 (PAH) / TO-14 / TO-15 PAEnR / TO15 Short List*

92257342

ITEM #	Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start End/Grab DATE	TIME	Composite - DATE	TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	TO-14	TO-15 PAEnR	Pace Lab ID
1	WS-31	1LC		7/1/15	1:30	7/1/15	1:40	22	0	2642	0998	X		001
2	WS-32	1LC		7/1/15	2:50	7/1/15	3:00	25	1	1299	0651	X		002
3	WS-33	1LC		7/1/15	4:15	7/1/15	4:25	23	0	2450	0777	X		003
4	WS-34	1LC		7/2/15	9:30	7/2/15	9:40	16	0	2775	0670	X		004
5	WS-34 DUPLICATE	1LC		7/2/15	9:30	7/2/15	9:40	16	0	1163	0670	X		005
6	WS-35	1LC		7/2/15	10:40	7/2/15	10:50	23	0	2242	0779	X		006
7	WS-36	1LC		7/2/15	1:35	7/2/15	1:45	23	0	2632	0926	X		007
8	TRIP Blank	1LC		7/2/15		7/2/15		+10psi		765	—	X		008
9														
10														
11														
12														

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Comments: ANALYZE for: Chloroform, tetrachloroethene, trichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, methylene chloride, and 2-propanol (tracer gas).

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
M Allen Griffith	7/5/15	6:00AM	Stan Pace	7-6-15	10:48
Stan Pace	7-6-15	1415	[illegible]	7-6-15	1415

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: M. Alan Griffith
SIGNATURE of SAMPLER: M Allen Griffith
DATE Signed (MM / DD / YY): 7/2/15

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
NA	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

ORIGINAL

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

Report Summary

Friday July 24, 2015

Report Number: L777518
Samples Received: 07/17/15
Client Project: 28TH

Description: 28th Street

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: _____

Jason Romer , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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Est. 1970

REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-01

Site ID : WINSTON-SALEM, NC

Project # : 28TH

Date Received : July 17, 2015
Description : 28th Street

Sample ID : WATER DRUM 7

Collected By : M. Alan Griffith
Collection Date : 07/15/15 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	07/19/15	1
Acrolein	BDL	50.	ug/l	8260B	07/19/15	1
Acrylonitrile	BDL	10.	ug/l	8260B	07/19/15	1
Benzene	BDL	1.0	ug/l	8260B	07/19/15	1
Bromobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	07/19/15	1
Bromoform	BDL	1.0	ug/l	8260B	07/19/15	1
Bromomethane	BDL	5.0	ug/l	8260B	07/19/15	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	07/19/15	1
Chlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	07/19/15	1
Chloroethane	BDL	5.0	ug/l	8260B	07/19/15	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	07/19/15	1
Chloroform	BDL	5.0	ug/l	8260B	07/19/15	1
Chloromethane	BDL	2.5	ug/l	8260B	07/19/15	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	07/19/15	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	07/19/15	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	07/19/15	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	07/19/15	1
Dibromomethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	07/19/15	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	07/19/15	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	07/19/15	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	07/19/15	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	07/19/15	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	07/19/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	07/19/15	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-01

Site ID : WINSTON-SALEM, NC

Project # : 28TH

Date Received : July 17, 2015
Description : 28th Street

Sample ID : WATER DRUM 7

Collected By : M. Alan Griffith
Collection Date : 07/15/15 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	07/19/15	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/19/15	1
Naphthalene	BDL	5.0	ug/l	8260B	07/19/15	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Styrene	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	4.0	1.0	ug/l	8260B	07/19/15	1
Toluene	BDL	5.0	ug/l	8260B	07/19/15	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	07/19/15	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	07/19/15	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Vinyl chloride	BDL	1.0	ug/l	8260B	07/19/15	1
Xylenes, Total	BDL	3.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	109.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	104.		% Rec.	8260B	07/19/15	1
Base/Neutral Extractables						
Acenaphthene	BDL	1.0	ug/l	8270D	07/22/15	1
Acenaphthylene	BDL	1.0	ug/l	8270D	07/22/15	1
Anthracene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzidine	BDL	10.	ug/l	8270D	07/22/15	1
Benzo(a)anthracene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzo(a)pyrene	BDL	1.0	ug/l	8270D	07/22/15	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270D	07/22/15	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270D	07/22/15	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270D	07/22/15	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270D	07/22/15	1
2-Chloronaphthalene	BDL	1.0	ug/l	8270D	07/22/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-01

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WATER DRUM 7

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/15/15 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270D	07/22/15	1
Chrysene	BDL	1.0	ug/l	8270D	07/22/15	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	8270D	07/22/15	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270D	07/22/15	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270D	07/22/15	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270D	07/22/15	1
Fluoranthene	BDL	1.0	ug/l	8270D	07/22/15	1
Fluorene	BDL	1.0	ug/l	8270D	07/22/15	1
Hexachlorobenzene	BDL	1.0	ug/l	8270D	07/22/15	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270D	07/22/15	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270D	07/22/15	1
Hexachloroethane	BDL	10.	ug/l	8270D	07/22/15	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	8270D	07/22/15	1
Isophorone	BDL	10.	ug/l	8270D	07/22/15	1
Naphthalene	BDL	1.0	ug/l	8270D	07/22/15	1
Nitrobenzene	BDL	10.	ug/l	8270D	07/22/15	1
n-Nitrosodimethylamine	BDL	10.	ug/l	8270D	07/22/15	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270D	07/22/15	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270D	07/22/15	1
Phenanthrene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzylbutyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Bis(2-ethylhexyl)phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Di-n-butyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Diethyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Dimethyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Di-n-octyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Pyrene	BDL	1.0	ug/l	8270D	07/22/15	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270D	07/22/15	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270D	07/22/15	1
2-Chlorophenol	BDL	10.	ug/l	8270D	07/22/15	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270D	07/22/15	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270D	07/22/15	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270D	07/22/15	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270D	07/22/15	1
2-Nitrophenol	BDL	10.	ug/l	8270D	07/22/15	1
4-Nitrophenol	BDL	10.	ug/l	8270D	07/22/15	1
Pentachlorophenol	BDL	10.	ug/l	8270D	07/22/15	1
Phenol	BDL	10.	ug/l	8270D	07/22/15	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270D	07/22/15	1
Surrogate Recovery						
2-Fluorophenol	56.4		% Rec.	8270D	07/22/15	1
Phenol-d5	42.5		% Rec.	8270D	07/22/15	1
Nitrobenzene-d5	76.3		% Rec.	8270D	07/22/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-01

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WATER DRUM 7

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/15/15 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Fluorobiphenyl	84.7		% Rec.	8270D	07/22/15	1
2,4,6-Tribromophenol	105.		% Rec.	8270D	07/22/15	1
p-Terphenyl-d14	78.1		% Rec.	8270D	07/22/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 07/23/15 15:14 Revised: 07/24/15 10:23

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-02

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WATER DRUM 8

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	240	50.	ug/l	8260B	07/19/15	1
Acrolein	BDL	50.	ug/l	8260B	07/19/15	1
Acrylonitrile	BDL	10.	ug/l	8260B	07/19/15	1
Benzene	BDL	1.0	ug/l	8260B	07/19/15	1
Bromobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Bromodichloromethane	1.1	1.0	ug/l	8260B	07/19/15	1
Bromoform	BDL	1.0	ug/l	8260B	07/19/15	1
Bromomethane	BDL	5.0	ug/l	8260B	07/19/15	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	07/19/15	1
Chlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	07/19/15	1
Chloroethane	BDL	5.0	ug/l	8260B	07/19/15	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	07/19/15	1
Chloroform	6.0	5.0	ug/l	8260B	07/19/15	1
Chloromethane	BDL	2.5	ug/l	8260B	07/19/15	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	07/19/15	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	07/19/15	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	07/19/15	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	07/19/15	1
Dibromomethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	1.2	1.0	ug/l	8260B	07/19/15	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	07/19/15	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	07/19/15	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	07/19/15	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	07/19/15	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	07/19/15	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	07/19/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	07/19/15	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-02

Site ID : WINSTON-SALEM, NC

Project # : 28TH

Date Received : July 17, 2015
Description : 28th Street

Sample ID : WATER DRUM 8

Collected By : M. Alan Griffith
Collection Date : 07/16/15 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	07/19/15	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	07/19/15	1
Naphthalene	BDL	5.0	ug/l	8260B	07/19/15	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Styrene	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	35.	1.0	ug/l	8260B	07/19/15	1
Toluene	BDL	5.0	ug/l	8260B	07/19/15	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	4.1	1.0	ug/l	8260B	07/19/15	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	07/19/15	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	07/19/15	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	07/19/15	1
Vinyl chloride	BDL	1.0	ug/l	8260B	07/19/15	1
Xylenes, Total	BDL	3.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	110.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	104.		% Rec.	8260B	07/19/15	1
Base/Neutral Extractables						
Acenaphthene	BDL	1.0	ug/l	8270D	07/22/15	1
Acenaphthylene	BDL	1.0	ug/l	8270D	07/22/15	1
Anthracene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzidine	BDL	10.	ug/l	8270D	07/22/15	1
Benzo(a)anthracene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzo(b)fluoranthene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzo(k)fluoranthene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzo(g,h,i)perylene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzo(a)pyrene	BDL	1.0	ug/l	8270D	07/22/15	1
Bis(2-chlorethoxy)methane	BDL	10.	ug/l	8270D	07/22/15	1
Bis(2-chloroethyl)ether	BDL	10.	ug/l	8270D	07/22/15	1
Bis(2-chloroisopropyl)ether	BDL	10.	ug/l	8270D	07/22/15	1
4-Bromophenyl-phenylether	BDL	10.	ug/l	8270D	07/22/15	1
2-Chloronaphthalene	BDL	1.0	ug/l	8270D	07/22/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-02

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WATER DRUM 8

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
4-Chlorophenyl-phenylether	BDL	10.	ug/l	8270D	07/22/15	1
Chrysene	BDL	1.0	ug/l	8270D	07/22/15	1
Dibenz(a,h)anthracene	BDL	1.0	ug/l	8270D	07/22/15	1
3,3-Dichlorobenzidine	BDL	10.	ug/l	8270D	07/22/15	1
2,4-Dinitrotoluene	BDL	10.	ug/l	8270D	07/22/15	1
2,6-Dinitrotoluene	BDL	10.	ug/l	8270D	07/22/15	1
Fluoranthene	BDL	1.0	ug/l	8270D	07/22/15	1
Fluorene	BDL	1.0	ug/l	8270D	07/22/15	1
Hexachlorobenzene	BDL	1.0	ug/l	8270D	07/22/15	1
Hexachloro-1,3-butadiene	BDL	10.	ug/l	8270D	07/22/15	1
Hexachlorocyclopentadiene	BDL	10.	ug/l	8270D	07/22/15	1
Hexachloroethane	BDL	10.	ug/l	8270D	07/22/15	1
Indeno(1,2,3-cd)pyrene	BDL	1.0	ug/l	8270D	07/22/15	1
Isophorone	BDL	10.	ug/l	8270D	07/22/15	1
Naphthalene	BDL	1.0	ug/l	8270D	07/22/15	1
Nitrobenzene	BDL	10.	ug/l	8270D	07/22/15	1
n-Nitrosodimethylamine	BDL	10.	ug/l	8270D	07/22/15	1
n-Nitrosodiphenylamine	BDL	10.	ug/l	8270D	07/22/15	1
n-Nitrosodi-n-propylamine	BDL	10.	ug/l	8270D	07/22/15	1
Phenanthrene	BDL	1.0	ug/l	8270D	07/22/15	1
Benzylbutyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Bis(2-ethylhexyl)phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Di-n-butyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Diethyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Dimethyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Di-n-octyl phthalate	BDL	3.0	ug/l	8270D	07/22/15	1
Pyrene	BDL	1.0	ug/l	8270D	07/22/15	1
1,2,4-Trichlorobenzene	BDL	10.	ug/l	8270D	07/22/15	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	10.	ug/l	8270D	07/22/15	1
2-Chlorophenol	BDL	10.	ug/l	8270D	07/22/15	1
2,4-Dichlorophenol	BDL	10.	ug/l	8270D	07/22/15	1
2,4-Dimethylphenol	BDL	10.	ug/l	8270D	07/22/15	1
4,6-Dinitro-2-methylphenol	BDL	10.	ug/l	8270D	07/22/15	1
2,4-Dinitrophenol	BDL	10.	ug/l	8270D	07/22/15	1
2-Nitrophenol	BDL	10.	ug/l	8270D	07/22/15	1
4-Nitrophenol	BDL	10.	ug/l	8270D	07/22/15	1
Pentachlorophenol	BDL	10.	ug/l	8270D	07/22/15	1
Phenol	BDL	10.	ug/l	8270D	07/22/15	1
2,4,6-Trichlorophenol	BDL	10.	ug/l	8270D	07/22/15	1
Surrogate Recovery						
2-Fluorophenol	42.3		% Rec.	8270D	07/22/15	1
Phenol-d5	32.2		% Rec.	8270D	07/22/15	1
Nitrobenzene-d5	70.4		% Rec.	8270D	07/22/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-02

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WATER DRUM 8

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Fluorobiphenyl	83.2		% Rec.	8270D	07/22/15	1
2,4,6-Tribromophenol	96.5		% Rec.	8270D	07/22/15	1
p-Terphenyl-d14	75.8		% Rec.	8270D	07/22/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-03

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-31 20.23FT

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 08:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Chloroform	BDL	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	10.	1.0	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	230	5.0	ug/l	8260B	07/22/15	5
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	18.	1.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	109.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	102.		% Rec.	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-04

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-32 21.37FT

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 09:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Chloroform	BDL	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	1.4	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	1.4	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	16.	1.0	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	590	20.	ug/l	8260B	07/22/15	20
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	41.	1.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	111.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	103.		% Rec.	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 07/23/15 15:14 Revised: 07/24/15 10:23

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-05

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-33 36.92FT

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 10:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Chloroform	BDL	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	2.0	1.0	ug/l	8260B	07/22/15	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	111.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	104.		% Rec.	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 07/23/15 15:14 Revised: 07/24/15 10:23

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-06

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-34 18.39FT

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 13:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Chloroform	BDL	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	6.8	1.0	ug/l	8260B	07/19/15	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	112.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	103.		% Rec.	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 07/23/15 15:14 Revised: 07/24/15 10:23

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-07

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-35 10.67FT

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Chloroform	12.	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	2.0	1.0	ug/l	8260B	07/19/15	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	BDL	1.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	113.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	102.		% Rec.	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-08

Date Received : July 17, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-36 8.68FT

Project # : 28TH

Collected By : M. Alan Griffith
Collection Date : 07/16/15 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Chloroform	BDL	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	1.6	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	10.	1.0	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	310	10.	ug/l	8260B	07/22/15	10
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	53.	1.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	116.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	101.		% Rec.	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 24,2015

ESC Sample # : L777518-09

Site ID : WINSTON-SALEM, NC

Project # : 28TH

Date Received : July 17, 2015
Description : 28th Street

Sample ID : WS-36 DUPLICATE 8.68FT

Collected By : M. Alan Griffith
Collection Date : 07/16/15 14:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Chloroform	BDL	5.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1-Dichloroethene	1.3	1.0	ug/l	8260B	07/19/15	1
cis-1,2-Dichloroethene	9.4	1.0	ug/l	8260B	07/19/15	1
Methylene Chloride	BDL	5.0	ug/l	8260B	07/19/15	1
Tetrachloroethene	320	10.	ug/l	8260B	07/22/15	10
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	07/19/15	1
Trichloroethene	52.	1.0	ug/l	8260B	07/19/15	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	07/19/15	1
Dibromofluoromethane	111.		% Rec.	8260B	07/19/15	1
4-Bromofluorobenzene	103.		% Rec.	8260B	07/19/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L777518-01	WG803287	SAMP	1,4-Dichlorobenzene	R3051967	J4
L777518-02	WG803287	SAMP	1,4-Dichlorobenzene	R3051967	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Quality Assurance Report
Level II

L777518

July 24, 2015

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG803287	07/19/15 13:51
1,1,1-Trichloroethane	< .001	mg/l			WG803287	07/19/15 13:51
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG803287	07/19/15 13:51
1,1,2-Trichloroethane	< .001	mg/l			WG803287	07/19/15 13:51
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG803287	07/19/15 13:51
1,1-Dichloroethane	< .001	mg/l			WG803287	07/19/15 13:51
1,1-Dichloroethene	< .001	mg/l			WG803287	07/19/15 13:51
1,1-Dichloropropene	< .001	mg/l			WG803287	07/19/15 13:51
1,2,3-Trichlorobenzene	< .001	mg/l			WG803287	07/19/15 13:51
1,2,3-Trichloropropane	< .001	mg/l			WG803287	07/19/15 13:51
1,2,3-Trimethylbenzene	< .001	mg/l			WG803287	07/19/15 13:51
1,2,4-Trichlorobenzene	< .001	mg/l			WG803287	07/19/15 13:51
1,2,4-Trimethylbenzene	< .001	mg/l			WG803287	07/19/15 13:51
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG803287	07/19/15 13:51
1,2-Dibromoethane	< .001	mg/l			WG803287	07/19/15 13:51
1,2-Dichlorobenzene	< .001	mg/l			WG803287	07/19/15 13:51
1,2-Dichloroethane	< .001	mg/l			WG803287	07/19/15 13:51
1,2-Dichloropropane	< .001	mg/l			WG803287	07/19/15 13:51
1,3,5-Trimethylbenzene	< .001	mg/l			WG803287	07/19/15 13:51
1,3-Dichlorobenzene	< .001	mg/l			WG803287	07/19/15 13:51
1,3-Dichloropropane	< .001	mg/l			WG803287	07/19/15 13:51
1,4-Dichlorobenzene	< .001	mg/l			WG803287	07/19/15 13:51
2,2-Dichloropropane	< .001	mg/l			WG803287	07/19/15 13:51
2-Butanone (MEK)	< .01	mg/l			WG803287	07/19/15 13:51
2-Chloroethyl vinyl ether	< .05	mg/l			WG803287	07/19/15 13:51
2-Chlorotoluene	< .001	mg/l			WG803287	07/19/15 13:51
4-Chlorotoluene	< .001	mg/l			WG803287	07/19/15 13:51
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG803287	07/19/15 13:51
Acetone	< .05	mg/l			WG803287	07/19/15 13:51
Acrolein	< .025	mg/l			WG803287	07/19/15 13:51
Acrylonitrile	< .01	mg/l			WG803287	07/19/15 13:51
Benzene	< .001	mg/l			WG803287	07/19/15 13:51
Bromobenzene	< .001	mg/l			WG803287	07/19/15 13:51
Bromodichloromethane	< .001	mg/l			WG803287	07/19/15 13:51
Bromoform	< .001	mg/l			WG803287	07/19/15 13:51
Bromomethane	< .005	mg/l			WG803287	07/19/15 13:51
Carbon tetrachloride	< .001	mg/l			WG803287	07/19/15 13:51
Chlorobenzene	< .001	mg/l			WG803287	07/19/15 13:51
Chlorodibromomethane	< .001	mg/l			WG803287	07/19/15 13:51
Chloroethane	< .005	mg/l			WG803287	07/19/15 13:51
Chloroform	< .005	mg/l			WG803287	07/19/15 13:51
Chloromethane	< .0025	mg/l			WG803287	07/19/15 13:51
cis-1,2-Dichloroethene	< .001	mg/l			WG803287	07/19/15 13:51
cis-1,3-Dichloropropene	< .001	mg/l			WG803287	07/19/15 13:51
Di-isopropyl ether	< .001	mg/l			WG803287	07/19/15 13:51
Dibromomethane	< .001	mg/l			WG803287	07/19/15 13:51
Dichlorodifluoromethane	< .005	mg/l			WG803287	07/19/15 13:51
Ethylbenzene	< .001	mg/l			WG803287	07/19/15 13:51
Hexachloro-1,3-butadiene	< .001	mg/l			WG803287	07/19/15 13:51
Isopropylbenzene	< .001	mg/l			WG803287	07/19/15 13:51
Methyl tert-butyl ether	< .001	mg/l			WG803287	07/19/15 13:51
Methylene Chloride	< .005	mg/l			WG803287	07/19/15 13:51
n-Butylbenzene	< .001	mg/l			WG803287	07/19/15 13:51
n-Propylbenzene	< .001	mg/l			WG803287	07/19/15 13:51
Naphthalene	< .005	mg/l			WG803287	07/19/15 13:51
p-Isopropyltoluene	< .001	mg/l			WG803287	07/19/15 13:51
sec-Butylbenzene	< .001	mg/l			WG803287	07/19/15 13:51
Styrene	< .001	mg/l			WG803287	07/19/15 13:51
tert-Butylbenzene	< .001	mg/l			WG803287	07/19/15 13:51

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Winston-Salem, NC 27104

Quality Assurance Report
Level II

L777518

July 24, 2015

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG803287	07/19/15 13:51
Toluene	< .005	mg/l			WG803287	07/19/15 13:51
trans-1,2-Dichloroethene	< .001	mg/l			WG803287	07/19/15 13:51
trans-1,3-Dichloropropene	< .001	mg/l			WG803287	07/19/15 13:51
Trichloroethene	< .001	mg/l			WG803287	07/19/15 13:51
Trichlorofluoromethane	< .005	mg/l			WG803287	07/19/15 13:51
Vinyl chloride	< .001	mg/l			WG803287	07/19/15 13:51
Xylenes, Total	< .003	mg/l			WG803287	07/19/15 13:51
4-Bromofluorobenzene		% Rec.	102.0	80.1-120	WG803287	07/19/15 13:51
Dibromofluoromethane		% Rec.	104.0	79-121	WG803287	07/19/15 13:51
Toluene-d8		% Rec.	104.0	90-115	WG803287	07/19/15 13:51
Tetrachloroethene	< .001	mg/l			WG804198	07/22/15 15:17
4-Bromofluorobenzene		% Rec.	93.50	80.1-120	WG804198	07/22/15 15:17
Dibromofluoromethane		% Rec.	91.40	79-121	WG804198	07/22/15 15:17
Toluene-d8		% Rec.	96.40	90-115	WG804198	07/22/15 15:17
1,2,4-Trichlorobenzene	< .01	mg/l			WG803954	07/22/15 10:16
2,4,6-Trichlorophenol	< .01	mg/l			WG803954	07/22/15 10:16
2,4-Dichlorophenol	< .01	mg/l			WG803954	07/22/15 10:16
2,4-Dimethylphenol	< .01	mg/l			WG803954	07/22/15 10:16
2,4-Dinitrophenol	< .01	mg/l			WG803954	07/22/15 10:16
2,4-Dinitrotoluene	< .01	mg/l			WG803954	07/22/15 10:16
2,6-Dinitrotoluene	< .01	mg/l			WG803954	07/22/15 10:16
2-Chloronaphthalene	< .001	mg/l			WG803954	07/22/15 10:16
2-Chlorophenol	< .01	mg/l			WG803954	07/22/15 10:16
2-Nitrophenol	< .01	mg/l			WG803954	07/22/15 10:16
3,3-Dichlorobenzidine	< .01	mg/l			WG803954	07/22/15 10:16
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG803954	07/22/15 10:16
4-Bromophenyl-phenylether	< .01	mg/l			WG803954	07/22/15 10:16
4-Chloro-3-methylphenol	< .01	mg/l			WG803954	07/22/15 10:16
4-Chlorophenyl-phenylether	< .01	mg/l			WG803954	07/22/15 10:16
4-Nitrophenol	< .01	mg/l			WG803954	07/22/15 10:16
Acenaphthene	< .001	mg/l			WG803954	07/22/15 10:16
Acenaphthylene	< .001	mg/l			WG803954	07/22/15 10:16
Anthracene	< .001	mg/l			WG803954	07/22/15 10:16
Benzidine	< .01	mg/l			WG803954	07/22/15 10:16
Benzo(a)anthracene	< .001	mg/l			WG803954	07/22/15 10:16
Benzo(a)pyrene	< .001	mg/l			WG803954	07/22/15 10:16
Benzo(b)fluoranthene	< .001	mg/l			WG803954	07/22/15 10:16
Benzo(g,h,i)perylene	< .001	mg/l			WG803954	07/22/15 10:16
Benzo(k)fluoranthene	< .001	mg/l			WG803954	07/22/15 10:16
Benzylbutyl phthalate	< .003	mg/l			WG803954	07/22/15 10:16
Bis(2-chlorethoxy)methane	< .01	mg/l			WG803954	07/22/15 10:16
Bis(2-chloroethyl)ether	< .01	mg/l			WG803954	07/22/15 10:16
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG803954	07/22/15 10:16
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG803954	07/22/15 10:16
Chrysene	< .001	mg/l			WG803954	07/22/15 10:16
Di-n-butyl phthalate	< .003	mg/l			WG803954	07/22/15 10:16
Di-n-octyl phthalate	< .003	mg/l			WG803954	07/22/15 10:16
Dibenz(a,h)anthracene	< .001	mg/l			WG803954	07/22/15 10:16
Diethyl phthalate	< .003	mg/l			WG803954	07/22/15 10:16
Dimethyl phthalate	< .003	mg/l			WG803954	07/22/15 10:16
Fluoranthene	< .001	mg/l			WG803954	07/22/15 10:16
Fluorene	< .001	mg/l			WG803954	07/22/15 10:16
Hexachloro-1,3-butadiene	< .01	mg/l			WG803954	07/22/15 10:16
Hexachlorobenzene	< .001	mg/l			WG803954	07/22/15 10:16

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L777518

July 24, 2015

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Hexachlorocyclopentadiene	< .01	mg/l			WG803954	07/22/15 10:16
Hexachloroethane	< .01	mg/l			WG803954	07/22/15 10:16
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG803954	07/22/15 10:16
Isophorone	< .01	mg/l			WG803954	07/22/15 10:16
n-Nitrosodi-n-propylamine	< .01	mg/l			WG803954	07/22/15 10:16
n-Nitrosodimethylamine	< .01	mg/l			WG803954	07/22/15 10:16
n-Nitrosodiphenylamine	< .01	mg/l			WG803954	07/22/15 10:16
Naphthalene	< .001	mg/l			WG803954	07/22/15 10:16
Nitrobenzene	< .01	mg/l			WG803954	07/22/15 10:16
Pentachlorophenol	< .01	mg/l			WG803954	07/22/15 10:16
Phenanthrene	< .001	mg/l			WG803954	07/22/15 10:16
Phenol	< .01	mg/l			WG803954	07/22/15 10:16
Pyrene	< .001	mg/l			WG803954	07/22/15 10:16
2,4,6-Tribromophenol		% Rec.	91.30	11.2-130	WG803954	07/22/15 10:16
2-Fluorobiphenyl		% Rec.	83.90	29.5-131	WG803954	07/22/15 10:16
2-Fluorophenol		% Rec.	58.40	10-77.9	WG803954	07/22/15 10:16
Nitrobenzene-d5		% Rec.	76.90	21.8-123	WG803954	07/22/15 10:16
Phenol-d5		% Rec.	42.70	5-70.1	WG803954	07/22/15 10:16
p-Terphenyl-d14		% Rec.	89.50	29.3-137	WG803954	07/22/15 10:16

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0300	120.	78.5-125	WG803287
1,1,1-Trichloroethane	mg/l	.025	0.0296	118.	71.1-129	WG803287
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0307	123.	79.3-123	WG803287
1,1,2-Trichloroethane	mg/l	.025	0.0294	118.	81.6-120	WG803287
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0302	121.	62-141	WG803287
1,1-Dichloroethane	mg/l	.025	0.0294	118.	71.7-127	WG803287
1,1-Dichloroethene	mg/l	.025	0.0281	112.	59.9-137	WG803287
1,1-Dichloropropene	mg/l	.025	0.0285	114.	72.5-127	WG803287
1,2,3-Trichlorobenzene	mg/l	.025	0.0306	123.	75.7-134	WG803287
1,2,3-Trichloropropane	mg/l	.025	0.0301	120.	74.9-124	WG803287
1,2,3-Trimethylbenzene	mg/l	.025	0.0273	109.	79.9-118	WG803287
1,2,4-Trichlorobenzene	mg/l	.025	0.0313	125.	76.1-136	WG803287
1,2,4-Trimethylbenzene	mg/l	.025	0.0273	109.	79-122	WG803287
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0314	126.	64.8-131	WG803287
1,2-Dibromoethane	mg/l	.025	0.0289	116.	79.8-122	WG803287
1,2-Dichlorobenzene	mg/l	.025	0.0294	118.	84.7-118	WG803287
1,2-Dichloroethane	mg/l	.025	0.0278	111.	65.3-126	WG803287
1,2-Dichloropropane	mg/l	.025	0.0289	116.	77.4-125	WG803287
1,3,5-Trimethylbenzene	mg/l	.025	0.0287	115.	81-123	WG803287
1,3-Dichlorobenzene	mg/l	.025	0.0301	120.	77.6-127	WG803287
1,3-Dichloropropane	mg/l	.025	0.0272	109.	80.6-115	WG803287
1,4-Dichlorobenzene	mg/l	.025	0.0292	117.*	82.2-114	WG803287
2,2-Dichloropropane	mg/l	.025	0.0277	111.	61.3-134	WG803287
2-Butanone (MEK)	mg/l	.125	0.154	123.	46.4-155	WG803287
2-Chloroethyl vinyl ether	mg/l	.125	0.163	130.	23.4-162	WG803287
2-Chlorotoluene	mg/l	.025	0.0285	114.	76.4-125	WG803287
4-Chlorotoluene	mg/l	.025	0.0283	113.	81.5-121	WG803287
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.164	131.	63.3-138	WG803287
Acetone	mg/l	.125	0.152	121.	28.7-175	WG803287
Acrolein	mg/l	.125	0.138	111.	40.4-172	WG803287
Acrylonitrile	mg/l	.125	0.165	132.	58.2-145	WG803287
Benzene	mg/l	.025	0.0287	115.	73-122	WG803287
Bromobenzene	mg/l	.025	0.0274	109.	81.5-115	WG803287
Bromodichloromethane	mg/l	.025	0.0289	116.	75.5-121	WG803287
Bromoform	mg/l	.025	0.0317	127.	71.5-131	WG803287
Bromomethane	mg/l	.025	0.0275	110.	22.4-187	WG803287

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Griffith Enterprise
Mr. Alan Griffith
353 Jonestown Road, PMB 312

Winston-Salem, NC 27104

Quality Assurance Report
Level II

L777518

July 24, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Carbon tetrachloride	mg/l	.025	0.0300	120.	70.9-129	WG803287
Chlorobenzene	mg/l	.025	0.0285	114.	79.7-122	WG803287
Chlorodibromomethane	mg/l	.025	0.0305	122.	78.2-124	WG803287
Chloroethane	mg/l	.025	0.0300	120.	41.2-153	WG803287
Chloroform	mg/l	.025	0.0298	119.	73.2-125	WG803287
Chloromethane	mg/l	.025	0.0245	98.1	55.8-134	WG803287
cis-1,2-Dichloroethene	mg/l	.025	0.0300	120.	77.3-122	WG803287
cis-1,3-Dichloropropene	mg/l	.025	0.0299	119.	77.7-124	WG803287
Di-isopropyl ether	mg/l	.025	0.0307	123.	65.1-135	WG803287
Dibromomethane	mg/l	.025	0.0284	114.	79.5-118	WG803287
Dichlorodifluoromethane	mg/l	.025	0.0249	99.5	56-134	WG803287
Ethylbenzene	mg/l	.025	0.0269	107.	80.9-121	WG803287
Hexachloro-1,3-butadiene	mg/l	.025	0.0301	120.	73.7-133	WG803287
Isopropylbenzene	mg/l	.025	0.0291	116.	81.6-124	WG803287
Methyl tert-butyl ether	mg/l	.025	0.0293	117.	70.1-125	WG803287
Methylene Chloride	mg/l	.025	0.0290	116.	69.5-120	WG803287
n-Butylbenzene	mg/l	.025	0.0294	117.	75.9-134	WG803287
n-Propylbenzene	mg/l	.025	0.0284	114.	81.9-122	WG803287
Naphthalene	mg/l	.025	0.0295	118.	69.7-134	WG803287
p-Isopropyltoluene	mg/l	.025	0.0300	120.	77.6-129	WG803287
sec-Butylbenzene	mg/l	.025	0.0295	118.	80.6-126	WG803287
Styrene	mg/l	.025	0.0297	119.	79.9-124	WG803287
tert-Butylbenzene	mg/l	.025	0.0287	115.	79.3-127	WG803287
Tetrachloroethene	mg/l	.025	0.0287	115.	73.5-130	WG803287
Toluene	mg/l	.025	0.0262	105.	77.9-116	WG803287
trans-1,2-Dichloroethene	mg/l	.025	0.0290	116.	72.6-125	WG803287
trans-1,3-Dichloropropene	mg/l	.025	0.0304	122.	73.5-127	WG803287
Trichloroethene	mg/l	.025	0.0293	117.	79.5-121	WG803287
Trichlorofluoromethane	mg/l	.025	0.0281	112.	49.1-157	WG803287
Vinyl chloride	mg/l	.025	0.0265	106.	61.5-134	WG803287
Xylenes, Total	mg/l	.075	0.0791	106.	79.2-122	WG803287
4-Bromofluorobenzene				99.20	80.1-120	WG803287
Dibromofluoromethane				110.0	79-121	WG803287
Toluene-d8				105.0	90-115	WG803287
Tetrachloroethene	mg/l	.025	0.0244	97.7	73.5-130	WG804198
4-Bromofluorobenzene				92.80	80.1-120	WG804198
Dibromofluoromethane				93.60	79-121	WG804198
Toluene-d8				97.60	90-115	WG804198
1,2,4-Trichlorobenzene	mg/l	.05	0.0343	68.6	22.9-96.1	WG803954
2,4,6-Trichlorophenol	mg/l	.05	0.0495	98.9	29.8-107	WG803954
2,4-Dichlorophenol	mg/l	.05	0.0442	88.4	31.4-103	WG803954
2,4-Dimethylphenol	mg/l	.05	0.0424	84.7	31.9-107	WG803954
2,4-Dinitrophenol	mg/l	.05	0.0484	96.7	24.2-128	WG803954
2,4-Dinitrotoluene	mg/l	.05	0.0523	105.	31.2-105	WG803954
2,6-Dinitrotoluene	mg/l	.05	0.0494	98.8	30.6-106	WG803954
2-Chloronaphthalene	mg/l	.05	0.0432	86.4	33.6-105	WG803954
2-Chlorophenol	mg/l	.05	0.0384	76.9	26.2-91.5	WG803954
2-Nitrophenol	mg/l	.05	0.0477	95.4	25.9-106	WG803954
3,3-Dichlorobenzidine	mg/l	.05	0.0466	93.2	27.2-142	WG803954
4,6-Dinitro-2-methylphenol	mg/l	.05	0.0546	109.	18.4-148	WG803954
4-Bromophenyl-phenylether	mg/l	.05	0.0474	94.9	40.7-116	WG803954
4-Chloro-3-methylphenol	mg/l	.05	0.0454	90.7	35.7-100	WG803954
4-Chlorophenyl-phenylether	mg/l	.05	0.0439	87.8	39-113	WG803954
4-Nitrophenol	mg/l	.05	0.0266	53.1*	10-52.7	WG803954
Acenaphthene	mg/l	.05	0.0431	86.1	38.7-109	WG803954

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Quality Assurance Report
Level II

L777518

July 24, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Acenaphthylene	mg/l	.05	0.0430	86.0	36-106	WG803954
Anthracene	mg/l	.05	0.0467	93.4	43.6-113	WG803954
Benzidine	mg/l	.05	0.0140	28.0	10-165.2	WG803954
Benzo(a)anthracene	mg/l	.05	0.0457	91.3	51.2-112	WG803954
Benzo(a)pyrene	mg/l	.05	0.0459	91.8	45.6-106	WG803954
Benzo(b)fluoranthene	mg/l	.05	0.0463	92.5	47.6-111	WG803954
Benzo(g,h,i)perylene	mg/l	.05	0.0478	95.5	45.2-117	WG803954
Benzo(k)fluoranthene	mg/l	.05	0.0460	92.1	49.4-114	WG803954
Benzylbutyl phthalate	mg/l	.05	0.0503	101.	31.8-123	WG803954
Bis(2-chlorethoxy)methane	mg/l	.05	0.0416	83.3	37.2-111	WG803954
Bis(2-chloroethyl)ether	mg/l	.05	0.0397	79.4	22.6-108	WG803954
Bis(2-chloroisopropyl)ether	mg/l	.05	0.0397	79.4	32.9-100	WG803954
Bis(2-ethylhexyl)phthalate	mg/l	.05	0.0494	98.9	36.9-134	WG803954
Chrysene	mg/l	.05	0.0465	92.9	54.6-120	WG803954
Di-n-butyl phthalate	mg/l	.05	0.0484	96.9	41.8-120	WG803954
Di-n-octyl phthalate	mg/l	.05	0.0497	99.5	39.7-112	WG803954
Dibenz(a,h)anthracene	mg/l	.05	0.0475	95.1	42.8-118	WG803954
Diethyl phthalate	mg/l	.05	0.0479	95.8	36.5-129	WG803954
Dimethyl phthalate	mg/l	.05	0.0468	93.7	35.3-128	WG803954
Fluoranthene	mg/l	.05	0.0479	95.9	45.9-115	WG803954
Fluorene	mg/l	.05	0.0452	90.4	41-112	WG803954
Hexachloro-1,3-butadiene	mg/l	.05	0.0325	65.0	16.1-104	WG803954
Hexachlorobenzene	mg/l	.05	0.0481	96.2	38.5-116	WG803954
Hexachlorocyclopentadiene	mg/l	.05	0.0231	46.1	10-121	WG803954
Hexachloroethane	mg/l	.05	0.0317	63.5	16.5-89.8	WG803954
Indeno(1,2,3-cd)pyrene	mg/l	.05	0.0479	95.9	45-116	WG803954
Isophorone	mg/l	.05	0.0454	90.7	35.4-112	WG803954
n-Nitrosodi-n-propylamine	mg/l	.05	0.0466	93.2	33.2-106	WG803954
n-Nitrosodimethylamine	mg/l	.05	0.0261	52.2	10-80.1	WG803954
n-Nitrosodiphenylamine	mg/l	.05	0.0493	98.5	44.4-113	WG803954
Naphthalene	mg/l	.05	0.0373	74.6	32.2-101	WG803954
Nitrobenzene	mg/l	.05	0.0428	85.6	31.4-106	WG803954
Pentachlorophenol	mg/l	.05	0.0484	96.8	10.9-97.4	WG803954
Phenanthrene	mg/l	.05	0.0475	94.9	46.4-113	WG803954
Phenol	mg/l	.05	0.0217	43.4	10-57.9	WG803954
Pyrene	mg/l	.05	0.0488	97.5	46.3-117	WG803954
2,4,6-Tribromophenol				109.0	11.2-130	WG803954
2-Fluorobiphenyl				88.00	29.5-131	WG803954
2-Fluorophenol				59.60	10-77.9	WG803954
Nitrobenzene-d5				83.60	21.8-123	WG803954
Phenol-d5				42.60	5-70.1	WG803954
p-Terphenyl-d14				84.90	29.3-137	WG803954

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0290	0.0300	116.	78.5-125	3.41	20	WG803287
1,1,1-Trichloroethane	mg/l	0.0276	0.0296	110.	71.1-129	6.95	20	WG803287
1,1,2,2-Tetrachloroethane	mg/l	0.0294	0.0307	118.	79.3-123	4.31	20	WG803287
1,1,2-Trichloroethane	mg/l	0.0286	0.0294	114.	81.6-120	2.70	20	WG803287
1,1,2-Trichlorotrifluoroethane	mg/l	0.0278	0.0302	111.	62-141	8.37	20	WG803287
1,1-Dichloroethane	mg/l	0.0272	0.0294	109.	71.7-127	7.75	20	WG803287
1,1-Dichloroethene	mg/l	0.0265	0.0281	106.	59.9-137	5.71	20	WG803287
1,1-Dichloropropene	mg/l	0.0272	0.0285	109.	72.5-127	4.53	20	WG803287
1,2,3-Trichlorobenzene	mg/l	0.0270	0.0306	108.	75.7-134	12.5	20	WG803287
1,2,3-Trichloropropane	mg/l	0.0298	0.0301	119.	74.9-124	1.09	20	WG803287
1,2,3-Trimethylbenzene	mg/l	0.0257	0.0273	103.	79.9-118	6.18	20	WG803287
1,2,4-Trichlorobenzene	mg/l	0.0274	0.0313	110.	76.1-136	13.1	20	WG803287
1,2,4-Trimethylbenzene	mg/l	0.0259	0.0273	103.	79-122	5.51	20	WG803287

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Quality Assurance Report
Level II

L777518

July 24, 2015

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2-Dibromo-3-Chloropropane	mg/l	0.0300	0.0314	120.	64.8-131	4.51	20	WG803287
1,2-Dibromoethane	mg/l	0.0285	0.0289	114.	79.8-122	1.41	20	WG803287
1,2-Dichlorobenzene	mg/l	0.0279	0.0294	112.	84.7-118	5.20	20	WG803287
1,2-Dichloroethane	mg/l	0.0260	0.0278	104.	65.3-126	6.56	20	WG803287
1,2-Dichloropropane	mg/l	0.0281	0.0289	112.	77.4-125	2.96	20	WG803287
1,3,5-Trimethylbenzene	mg/l	0.0272	0.0287	109.	81-123	5.40	20	WG803287
1,3-Dichlorobenzene	mg/l	0.0290	0.0301	116.	77.6-127	3.74	20	WG803287
1,3-Dichloropropane	mg/l	0.0267	0.0272	107.	80.6-115	2.01	20	WG803287
1,4-Dichlorobenzene	mg/l	0.0280	0.0292	112.	82.2-114	4.13	20	WG803287
2,2-Dichloropropane	mg/l	0.0244	0.0277	98.0	61.3-134	12.6	20	WG803287
2-Butanone (MEK)	mg/l	0.156	0.154	124.	46.4-155	0.900	20	WG803287
2-Chloroethyl vinyl ether	mg/l	0.156	0.163	125.	23.4-162	4.44	23.5	WG803287
2-Chlorotoluene	mg/l	0.0275	0.0285	110.	76.4-125	3.54	20	WG803287
4-Chlorotoluene	mg/l	0.0274	0.0283	110.	81.5-121	3.43	20	WG803287
4-Methyl-2-pentanone (MIBK)	mg/l	0.159	0.164	127.	63.3-138	3.18	20	WG803287
Acetone	mg/l	0.157	0.152	126.	28.7-175	3.60	20.9	WG803287
Acrolein	mg/l	0.123	0.138	99.0	40.4-172	11.4	20	WG803287
Acrylonitrile	mg/l	0.153	0.165	122.	58.2-145	7.32	20	WG803287
Benzene	mg/l	0.0272	0.0287	109.	73-122	5.44	20	WG803287
Bromobenzene	mg/l	0.0264	0.0274	105.	81.5-115	3.74	20	WG803287
Bromodichloromethane	mg/l	0.0274	0.0289	110.	75.5-121	5.33	20	WG803287
Bromoform	mg/l	0.0309	0.0317	123.	71.5-131	2.74	20	WG803287
Bromomethane	mg/l	0.0246	0.0275	98.0	22.4-187	11.0	20	WG803287
Carbon tetrachloride	mg/l	0.0283	0.0300	113.	70.9-129	6.10	20	WG803287
Chlorobenzene	mg/l	0.0277	0.0285	111.	79.7-122	2.75	20	WG803287
Chlorodibromomethane	mg/l	0.0294	0.0305	117.	78.2-124	3.77	20	WG803287
Chloroethane	mg/l	0.0260	0.0300	104.	41.2-153	14.3	20	WG803287
Chloroform	mg/l	0.0278	0.0298	111.	73.2-125	6.84	20	WG803287
Chloromethane	mg/l	0.0233	0.0245	93.0	55.8-134	5.08	20	WG803287
cis-1,2-Dichloroethene	mg/l	0.0274	0.0300	110.	77.3-122	8.99	20	WG803287
cis-1,3-Dichloropropene	mg/l	0.0286	0.0299	114.	77.7-124	4.42	20	WG803287
Di-isopropyl ether	mg/l	0.0289	0.0307	116.	65.1-135	5.92	20	WG803287
Dibromomethane	mg/l	0.0278	0.0284	111.	79.5-118	2.17	20	WG803287
Dichlorodifluoromethane	mg/l	0.0241	0.0249	96.0	56-134	3.22	20	WG803287
Ethylbenzene	mg/l	0.0262	0.0269	105.	80.9-121	2.59	20	WG803287
Hexachloro-1,3-butadiene	mg/l	0.0262	0.0301	105.	73.7-133	14.0	20	WG803287
Isopropylbenzene	mg/l	0.0278	0.0291	111.	81.6-124	4.68	20	WG803287
Methyl tert-butyl ether	mg/l	0.0276	0.0293	110.	70.1-125	5.90	20	WG803287
Methylene Chloride	mg/l	0.0270	0.0290	108.	69.5-120	7.03	20	WG803287
n-Butylbenzene	mg/l	0.0267	0.0294	107.	75.9-134	9.40	20	WG803287
n-Propylbenzene	mg/l	0.0271	0.0284	108.	81.9-122	4.56	20	WG803287
Naphthalene	mg/l	0.0276	0.0295	110.	69.7-134	6.66	20	WG803287
p-Isopropyltoluene	mg/l	0.0275	0.0300	110.	77.6-129	8.75	20	WG803287
sec-Butylbenzene	mg/l	0.0275	0.0295	110.	80.6-126	7.05	20	WG803287
Styrene	mg/l	0.0290	0.0297	116.	79.9-124	2.29	20	WG803287
tert-Butylbenzene	mg/l	0.0269	0.0287	108.	79.3-127	6.63	20	WG803287
Tetrachloroethene	mg/l	0.0280	0.0287	112.	73.5-130	2.74	20	WG803287
Toluene	mg/l	0.0251	0.0262	100.	77.9-116	4.34	20	WG803287
trans-1,2-Dichloroethene	mg/l	0.0269	0.0290	107.	72.6-125	7.56	20	WG803287
trans-1,3-Dichloropropene	mg/l	0.0292	0.0304	117.	73.5-127	4.01	20	WG803287
Trichloroethene	mg/l	0.0283	0.0293	113.	79.5-121	3.35	20	WG803287
Trichlorofluoromethane	mg/l	0.0265	0.0281	106.	49.1-157	5.64	20	WG803287
Vinyl chloride	mg/l	0.0255	0.0265	102.	61.5-134	3.68	20	WG803287
Xylenes, Total	mg/l	0.0771	0.0791	103.	79.2-122	2.58	20	WG803287
4-Bromofluorobenzene				101.0	80.1-120			WG803287
Dibromofluoromethane				109.0	79-121			WG803287
Toluene-d8				104.0	90-115			WG803287

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Griffith Enterprise
Mr. Alan Griffith
353 Jonestown Road, PMB 312

Winston-Salem, NC 27104

Quality Assurance Report
Level II

L777518

July 24, 2015

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Tetrachloroethene	mg/l	0.0220	0.0244	88.0	73.5-130	10.6	20	WG804198
4-Bromofluorobenzene				93.00	80.1-120			WG804198
Dibromofluoromethane				93.60	79-121			WG804198
Toluene-d8				96.20	90-115			WG804198
1,2,4-Trichlorobenzene	mg/l	0.0305	0.0343	61.0	22.9-96.1	11.8	27.5	WG803954
2,4,6-Trichlorophenol	mg/l	0.0457	0.0495	91.0	29.8-107	7.88	24.1	WG803954
2,4-Dichlorophenol	mg/l	0.0397	0.0442	79.0	31.4-103	10.7	24.9	WG803954
2,4-Dimethylphenol	mg/l	0.0394	0.0424	79.0	31.9-107	7.28	25.7	WG803954
2,4-Dinitrophenol	mg/l	0.0414	0.0484	83.0	24.2-128	15.6	20.5	WG803954
2,4-Dinitrotoluene	mg/l	0.0484	0.0523	97.0	31.2-105	7.67	22	WG803954
2,6-Dinitrotoluene	mg/l	0.0452	0.0494	90.0	30.6-106	8.78	23.1	WG803954
2-Chloronaphthalene	mg/l	0.0408	0.0432	82.0	33.6-105	5.74	23	WG803954
2-Chlorophenol	mg/l	0.0340	0.0384	68.0	26.2-91.5	12.1	26.5	WG803954
2-Nitrophenol	mg/l	0.0419	0.0477	84.0	25.9-106	13.0	26.9	WG803954
3,3-Dichlorobenzidine	mg/l	0.0434	0.0466	87.0	27.2-142	7.11	22.3	WG803954
4,6-Dinitro-2-methylphenol	mg/l	0.0480	0.0546	96.0	18.4-148	12.8	24.4	WG803954
4-Bromophenyl-phenylether	mg/l	0.0419	0.0474	84.0	40.7-116	12.3	21	WG803954
4-Chloro-3-methylphenol	mg/l	0.0414	0.0454	83.0	35.7-100	9.10	22.9	WG803954
4-Chlorophenyl-phenylether	mg/l	0.0412	0.0439	82.0	39-113	6.51	20.9	WG803954
4-Nitrophenol	mg/l	0.0277	0.0266	55*	10-52.7	4.25	40	WG803954
Acenaphthene	mg/l	0.0405	0.0431	81.0	38.7-109	6.11	21.5	WG803954
Acenaphthylene	mg/l	0.0403	0.0430	80.0	36-106	6.52	21	WG803954
Anthracene	mg/l	0.0417	0.0467	83.0	43.6-113	11.3	18.8	WG803954
Benzidine	mg/l	0.0225	0.0140	45.0	10-165.2	46.2*	40	WG803954
Benzo(a)anthracene	mg/l	0.0416	0.0457	83.0	51.2-112	9.44	20	WG803954
Benzo(a)pyrene	mg/l	0.0437	0.0459	87.0	45.6-106	4.83	20	WG803954
Benzo(b)fluoranthene	mg/l	0.0432	0.0463	86.0	47.6-111	6.95	20	WG803954
Benzo(g,h,i)perylene	mg/l	0.0452	0.0478	90.0	45.2-117	5.58	20	WG803954
Benzo(k)fluoranthene	mg/l	0.0444	0.0460	89.0	49.4-114	3.58	20	WG803954
Benzylbutyl phthalate	mg/l	0.0458	0.0503	92.0	31.8-123	9.34	20.7	WG803954
Bis(2-chlorethoxy)methane	mg/l	0.0373	0.0416	75.0	37.2-111	10.9	24.1	WG803954
Bis(2-chloroethyl)ether	mg/l	0.0347	0.0397	69.0	22.6-108	13.5	27.9	WG803954
Bis(2-chloroisopropyl)ether	mg/l	0.0349	0.0397	70.0	32.9-100	13.0	25.1	WG803954
Bis(2-ethylhexyl)phthalate	mg/l	0.0444	0.0494	89.0	36.9-134	10.7	23.6	WG803954
Chrysene	mg/l	0.0419	0.0465	84.0	54.6-120	10.4	20	WG803954
Di-n-butyl phthalate	mg/l	0.0443	0.0484	89.0	41.8-120	8.84	20.2	WG803954
Di-n-octyl phthalate	mg/l	0.0452	0.0497	90.0	39.7-112	9.65	21.1	WG803954
Dibenz(a,h)anthracene	mg/l	0.0452	0.0475	90.0	42.8-118	4.92	20	WG803954
Diethyl phthalate	mg/l	0.0440	0.0479	88.0	36.5-129	8.45	20	WG803954
Dimethyl phthalate	mg/l	0.0435	0.0468	87.0	35.3-128	7.27	20.8	WG803954
Fluoranthene	mg/l	0.0423	0.0479	84.0	45.9-115	12.5	20	WG803954
Fluorene	mg/l	0.0422	0.0452	84.0	41-112	6.80	20.2	WG803954
Hexachloro-1,3-butadiene	mg/l	0.0287	0.0325	57.0	16.1-104	12.3	31.2	WG803954
Hexachlorobenzene	mg/l	0.0433	0.0481	86.0	38.5-116	10.6	20.1	WG803954
Hexachlorocyclopentadiene	mg/l	0.0211	0.0231	42.0	10-121	8.80	27.9	WG803954
Hexachloroethane	mg/l	0.0275	0.0317	55.0	16.5-89.8	14.2	30.7	WG803954
Indeno(1,2,3-cd)pyrene	mg/l	0.0455	0.0479	91.0	45-116	5.29	20	WG803954
Isophorone	mg/l	0.0403	0.0454	81.0	35.4-112	11.7	21.5	WG803954
n-Nitrosodi-n-propylamine	mg/l	0.0405	0.0466	81.0	33.2-106	14.1	23.7	WG803954
n-Nitrosodimethylamine	mg/l	0.0220	0.0261	44.0	10-80.1	17.1	37.5	WG803954
n-Nitrosodiphenylamine	mg/l	0.0438	0.0493	88.0	44.4-113	11.7	20	WG803954
Naphthalene	mg/l	0.0335	0.0373	67.0	32.2-101	10.6	23.8	WG803954
Nitrobenzene	mg/l	0.0376	0.0428	75.0	31.4-106	12.9	25.7	WG803954
Pentachlorophenol	mg/l	0.0409	0.0484	82.0	10.9-97.4	16.8	35.1	WG803954
Phenanthrene	mg/l	0.0425	0.0475	85.0	46.4-113	11.0	20	WG803954
Phenol	mg/l	0.0200	0.0217	40.0	10-57.9	8.09	35	WG803954
Pyrene	mg/l	0.0441	0.0488	88.0	46.3-117	10.1	20	WG803954

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Quality Assurance Report
Level II

L777518

July 24, 2015

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
2,4,6-Tribromophenol				96.70		11.2-130		
2-Fluorobiphenyl				81.40		29.5-131		
2-Fluorophenol				54.30		10-77.9		
Nitrobenzene-d5				76.70		21.8-123		
Phenol-d5				39.50		5-70.1		
p-Terphenyl-d14				78.50		29.3-137		

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0257	0.0	.025	100.	70.5-132	L776921-08	WG803287
1,1,1-Trichloroethane	mg/l	0.0252	0.0	.025	100.	58.7-134	L776921-08	WG803287
1,1,2,2-Tetrachloroethane	mg/l	0.0270	0.0	.025	110.	64.9-145	L776921-08	WG803287
1,1,2-Trichloroethane	mg/l	0.0251	0.0	.025	100.	74.1-130	L776921-08	WG803287
1,1,2-Trichlorotrifluoroethane	mg/l	0.0253	0.0	.025	100.	53.7-150	L776921-08	WG803287
1,1-Dichloroethane	mg/l	0.0254	0.000471	.025	100.	64-134	L776921-08	WG803287
1,1-Dichloroethene	mg/l	0.0241	0.000472	.025	94.0	48.8-144	L776921-08	WG803287
1,1-Dichloropropene	mg/l	0.0243	0.0	.025	97.0	61.5-136	L776921-08	WG803287
1,2,3-Trichlorobenzene	mg/l	0.0256	0.0	.025	100.	65.7-143	L776921-08	WG803287
1,2,3-Trichloropropane	mg/l	0.0261	0.0	.025	100.	71.5-134	L776921-08	WG803287
1,2,3-Trimethylbenzene	mg/l	0.0231	0.0	.025	92.0	62.7-133	L776921-08	WG803287
1,2,4-Trichlorobenzene	mg/l	0.0264	0.0	.025	100.	67-146	L776921-08	WG803287
1,2,4-Trimethylbenzene	mg/l	0.0237	0.0	.025	95.0	60.5-137	L776921-08	WG803287
1,2-Dibromo-3-Chloropropane	mg/l	0.0256	0.0	.025	100.	63.9-142	L776921-08	WG803287
1,2-Dibromoethane	mg/l	0.0251	0.0	.025	100.	73.8-131	L776921-08	WG803287
1,2-Dichlorobenzene	mg/l	0.0248	0.0	.025	99.0	77.4-127	L776921-08	WG803287
1,2-Dichloroethane	mg/l	0.0237	0.0	.025	95.0	60.7-132	L776921-08	WG803287
1,2-Dichloropropane	mg/l	0.0246	0.0	.025	98.0	69.7-130	L776921-08	WG803287
1,3,5-Trimethylbenzene	mg/l	0.0247	0.0	.025	99.0	67.9-134	L776921-08	WG803287
1,3-Dichlorobenzene	mg/l	0.0263	0.0	.025	100.	67.9-136	L776921-08	WG803287
1,3-Dichloropropane	mg/l	0.0234	0.0	.025	93.0	74.3-123	L776921-08	WG803287
1,4-Dichlorobenzene	mg/l	0.0248	0.0	.025	99.0	74.4-123	L776921-08	WG803287
2,2-Dichloropropane	mg/l	0.0227	0.0	.025	91.0	54.9-142	L776921-08	WG803287
2-Butanone (MEK)	mg/l	0.122	0.00112	.125	96.0	45-156	L776921-08	WG803287
2-Chloroethyl vinyl ether	mg/l	0.0753	0.0	.125	60.0	5-149	L776921-08	WG803287
2-Chlorotoluene	mg/l	0.0245	0.0	.025	98.0	66.9-134	L776921-08	WG803287
4-Chlorotoluene	mg/l	0.0246	0.0	.025	98.0	66.8-134	L776921-08	WG803287
4-Methyl-2-pentanone (MIBK)	mg/l	0.137	0.0	.125	110.	60.7-150	L776921-08	WG803287
Acetone	mg/l	0.0816	0.00453	.125	62.0	25-156	L776921-08	WG803287
Acrolein	mg/l	0.181	0.0	.125	140.	34-194	L776921-08	WG803287
Acrylonitrile	mg/l	0.148	0.0	.125	120.	55.9-161	L776921-08	WG803287
Benzene	mg/l	0.0245	0.0	.025	98.0	58.6-133	L776921-08	WG803287
Bromobenzene	mg/l	0.0232	0.0	.025	93.0	70.6-125	L776921-08	WG803287
Bromodichloromethane	mg/l	0.0241	0.0	.025	97.0	69.2-127	L776921-08	WG803287
Bromoform	mg/l	0.0270	0.0	.025	110.	66.3-140	L776921-08	WG803287
Bromomethane	mg/l	0.0243	0.0	.025	97.0	16.6-183	L776921-08	WG803287
Carbon tetrachloride	mg/l	0.0256	0.0	.025	100.	60.6-139	L776921-08	WG803287
Chlorobenzene	mg/l	0.0246	0.0	.025	98.0	70.1-130	L776921-08	WG803287
Chlorodibromomethane	mg/l	0.0258	0.0	.025	100.	71.6-132	L776921-08	WG803287
Chloroethane	mg/l	0.0261	0.0	.025	100.	33.3-155	L776921-08	WG803287
Chloroform	mg/l	0.0250	0.0	.025	100.	66.1-133	L776921-08	WG803287
Chloromethane	mg/l	0.0239	0.0	.025	96.0	40.7-139	L776921-08	WG803287
cis-1,2-Dichloroethene	mg/l	0.0253	0.0	.025	100.	60.6-136	L776921-08	WG803287
cis-1,3-Dichloropropene	mg/l	0.0252	0.0	.025	100.	71.1-129	L776921-08	WG803287
Di-isopropyl ether	mg/l	0.0254	0.0	.025	100.	59.9-140	L776921-08	WG803287
Dibromomethane	mg/l	0.0246	0.0	.025	98.0	72.8-127	L776921-08	WG803287
Dichlorodifluoromethane	mg/l	0.0231	0.0	.025	92.0	42.2-146	L776921-08	WG803287
Ethylbenzene	mg/l	0.0234	0.0	.025	94.0	62.7-136	L776921-08	WG803287
Hexachloro-1,3-butadiene	mg/l	0.0250	0.0	.025	100.	61.1-144	L776921-08	WG803287

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Quality Assurance Report
Level II

L777518

July 24, 2015

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
			Matrix Spike					
Isopropylbenzene	mg/l	0.0250	0.0	.025	100.	67.4-136	L776921-08	WG803287
Methyl tert-butyl ether	mg/l	0.0245	0.0	.025	98.0	61.4-136	L776921-08	WG803287
Methylene Chloride	mg/l	0.0249	0.0	.025	99.0	61.5-125	L776921-08	WG803287
n-Butylbenzene	mg/l	0.0246	0.0	.025	98.0	64.8-145	L776921-08	WG803287
n-Propylbenzene	mg/l	0.0244	0.0	.025	97.0	63.2-139	L776921-08	WG803287
Naphthalene	mg/l	0.0262	0.000544	.025	100.	61.8-143	L776921-08	WG803287
p-Isopropyltoluene	mg/l	0.0258	0.0	.025	100.	62.8-143	L776921-08	WG803287
sec-Butylbenzene	mg/l	0.0253	0.0	.025	100.	66.8-139	L776921-08	WG803287
Styrene	mg/l	0.0259	0.0	.025	100.	68.2-133	L776921-08	WG803287
tert-Butylbenzene	mg/l	0.0248	0.0	.025	99.0	67.1-138	L776921-08	WG803287
Tetrachloroethene	mg/l	0.0250	0.0	.025	100.	57.4-141	L776921-08	WG803287
Toluene	mg/l	0.0240	0.00198	.025	88.0	67.8-124	L776921-08	WG803287
trans-1,2-Dichloroethene	mg/l	0.0248	0.0	.025	99.0	61-132	L776921-08	WG803287
trans-1,3-Dichloropropene	mg/l	0.0258	0.0	.025	100.	66.3-136	L776921-08	WG803287
Trichloroethene	mg/l	0.0247	0.0	.025	99.0	48.9-148	L776921-08	WG803287
Trichlorofluoromethane	mg/l	0.0237	0.0	.025	95.0	39.9-165	L776921-08	WG803287
Vinyl chloride	mg/l	0.0235	0.0	.025	94.0	44.3-143	L776921-08	WG803287
Xylenes, Total	mg/l	0.0702	0.00171	.075	91.0	65.6-133	L776921-08	WG803287
4-Bromofluorobenzene					100.0	80.1-120		WG803287
Dibromofluoromethane					110.0	79-121		WG803287
Toluene-d8					104.0	90-115		WG803287
Tetrachloroethene	mg/l	0.0270	0.0	.025	110.	57.4-141	L777485-02	WG804198
4-Bromofluorobenzene					99.50	80.1-120		WG804198
Dibromofluoromethane					91.50	79-121		WG804198
Toluene-d8					95.60	90-115		WG804198

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
			Matrix Spike Duplicate						
1,1,1,2-Tetrachloroethane	mg/l	0.0289	0.0257	115.	70.5-132	11.5	20	L776921-08	WG803287
1,1,1-Trichloroethane	mg/l	0.0275	0.0252	110.	58.7-134	8.81	20	L776921-08	WG803287
1,1,2,2-Tetrachloroethane	mg/l	0.0307	0.0270	123.	64.9-145	13.0	20	L776921-08	WG803287
1,1,2-Trichloroethane	mg/l	0.0279	0.0251	112.	74.1-130	10.5	20	L776921-08	WG803287
1,1,2-Trichlorotrifluoroethane	mg/l	0.0270	0.0253	108.	53.7-150	6.65	20	L776921-08	WG803287
1,1-Dichloroethane	mg/l	0.0271	0.0254	106.	64-134	6.38	20	L776921-08	WG803287
1,1-Dichloroethene	mg/l	0.0258	0.0241	101.	48.8-144	6.93	20	L776921-08	WG803287
1,1-Dichloropropene	mg/l	0.0267	0.0243	107.	61.5-136	9.29	20	L776921-08	WG803287
1,2,3-Trichlorobenzene	mg/l	0.0297	0.0256	119.	65.7-143	14.8	20	L776921-08	WG803287
1,2,3-Trichloropropane	mg/l	0.0300	0.0261	120.	71.5-134	14.0	20	L776921-08	WG803287
1,2,3-Trimethylbenzene	mg/l	0.0256	0.0231	102.	62.7-133	10.2	20	L776921-08	WG803287
1,2,4-Trichlorobenzene	mg/l	0.0308	0.0264	123.	67-146	15.4	20	L776921-08	WG803287
1,2,4-Trimethylbenzene	mg/l	0.0265	0.0237	106.	60.5-137	11.1	20	L776921-08	WG803287
1,2-Dibromo-3-Chloropropane	mg/l	0.0303	0.0256	121.	63.9-142	16.7	20.2	L776921-08	WG803287
1,2-Dibromoethane	mg/l	0.0284	0.0251	114.	73.8-131	12.1	20	L776921-08	WG803287
1,2-Dichlorobenzene	mg/l	0.0275	0.0248	110.	77.4-127	10.3	20	L776921-08	WG803287
1,2-Dichloroethane	mg/l	0.0260	0.0237	104.	60.7-132	9.05	20	L776921-08	WG803287
1,2-Dichloropropane	mg/l	0.0267	0.0246	107.	69.7-130	8.10	20	L776921-08	WG803287
1,3,5-Trimethylbenzene	mg/l	0.0274	0.0247	109.	67.9-134	10.2	20	L776921-08	WG803287
1,3-Dichlorobenzene	mg/l	0.0293	0.0263	117.	67.9-136	10.8	20	L776921-08	WG803287
1,3-Dichloropropane	mg/l	0.0259	0.0234	104.	74.3-123	10.5	20	L776921-08	WG803287
1,4-Dichlorobenzene	mg/l	0.0271	0.0248	108.	74.4-123	8.98	20	L776921-08	WG803287
2,2-Dichloropropane	mg/l	0.0254	0.0227	102.	54.9-142	11.0	20	L776921-08	WG803287
2-Butanone (MEK)	mg/l	0.138	0.122	110.	45-156	12.9	20.8	L776921-08	WG803287
2-Chloroethyl vinyl ether	mg/l	0.0346	0.0753	27.7	5-149	74.0*	40	L776921-08	WG803287
2-Chlorotoluene	mg/l	0.0274	0.0245	110.	66.9-134	11.1	20	L776921-08	WG803287
4-Chlorotoluene	mg/l	0.0270	0.0246	108.	66.8-134	9.32	20	L776921-08	WG803287
4-Methyl-2-pentanone (MIBK)	mg/l	0.157	0.137	126.	60.7-150	13.4	20	L776921-08	WG803287

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Griffith Enterprise
Mr. Alan Griffith
353 Jonestown Road, PMB 312

Winston-Salem, NC 27104

Quality Assurance Report
Level II

L777518

July 24, 2015

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Acetone	mg/l	0.0890	0.0816	67.5	25-156	8.58	21.5	L776921-08	WG803287
Acrolein	mg/l	0.210	0.181	168.	34-194	14.5	21.5	L776921-08	WG803287
Acrylonitrile	mg/l	0.168	0.148	134.	55.9-161	12.7	20	L776921-08	WG803287
Benzene	mg/l	0.0269	0.0245	108.	58.6-133	9.29	20	L776921-08	WG803287
Bromobenzene	mg/l	0.0257	0.0232	103.	70.6-125	10.2	20	L776921-08	WG803287
Bromodichloromethane	mg/l	0.0263	0.0241	105.	69.2-127	8.66	20	L776921-08	WG803287
Bromoform	mg/l	0.0306	0.0270	122.	66.3-140	12.2	20	L776921-08	WG803287
Bromomethane	mg/l	0.0267	0.0243	107.	16.6-183	9.32	20.5	L776921-08	WG803287
Carbon tetrachloride	mg/l	0.0282	0.0256	113.	60.6-139	9.76	20	L776921-08	WG803287
Chlorobenzene	mg/l	0.0270	0.0246	108.	70.1-130	9.40	20	L776921-08	WG803287
Chlorodibromomethane	mg/l	0.0290	0.0258	116.	71.6-132	11.9	20	L776921-08	WG803287
Chloroethane	mg/l	0.0279	0.0261	112.	33.3-155	6.66	20	L776921-08	WG803287
Chloroform	mg/l	0.0275	0.0250	110.	66.1-133	9.53	20	L776921-08	WG803287
Chloromethane	mg/l	0.0224	0.0239	89.6	40.7-139	6.62	20	L776921-08	WG803287
cis-1,2-Dichloroethene	mg/l	0.0274	0.0253	109.	60.6-136	7.74	20	L776921-08	WG803287
cis-1,3-Dichloropropene	mg/l	0.0278	0.0252	111.	71.1-129	9.80	20	L776921-08	WG803287
Di-isopropyl ether	mg/l	0.0279	0.0254	112.	59.9-140	9.49	20	L776921-08	WG803287
Dibromomethane	mg/l	0.0273	0.0246	109.	72.8-127	10.2	20	L776921-08	WG803287
Dichlorodifluoromethane	mg/l	0.0244	0.0231	97.6	42.2-146	5.42	20	L776921-08	WG803287
Ethylbenzene	mg/l	0.0259	0.0234	104.	62.7-136	10.1	20	L776921-08	WG803287
Hexachloro-1,3-butadiene	mg/l	0.0298	0.0250	119.	61.1-144	17.2	20.1	L776921-08	WG803287
Isopropylbenzene	mg/l	0.0277	0.0250	111.	67.4-136	10.0	20	L776921-08	WG803287
Methyl tert-butyl ether	mg/l	0.0277	0.0245	111.	61.4-136	12.4	20	L776921-08	WG803287
Methylene Chloride	mg/l	0.0266	0.0249	106.	61.5-125	6.96	20	L776921-08	WG803287
n-Butylbenzene	mg/l	0.0275	0.0246	110.	64.8-145	11.0	20	L776921-08	WG803287
n-Propylbenzene	mg/l	0.0269	0.0244	108.	63.2-139	10.1	20	L776921-08	WG803287
Naphthalene	mg/l	0.0301	0.0262	118.	61.8-143	14.0	20	L776921-08	WG803287
p-Isopropyltoluene	mg/l	0.0288	0.0258	115.	62.8-143	10.8	20	L776921-08	WG803287
sec-Butylbenzene	mg/l	0.0282	0.0253	113.	66.8-139	10.9	20	L776921-08	WG803287
Styrene	mg/l	0.0284	0.0259	114.	68.2-133	9.16	20	L776921-08	WG803287
tert-Butylbenzene	mg/l	0.0274	0.0248	110.	67.1-138	9.99	20	L776921-08	WG803287
Tetrachloroethene	mg/l	0.0272	0.0250	109.	57.4-141	8.55	20	L776921-08	WG803287
Toluene	mg/l	0.0258	0.0240	95.4	67.8-124	7.38	20	L776921-08	WG803287
trans-1,2-Dichloroethene	mg/l	0.0268	0.0248	107.	61-132	7.73	20	L776921-08	WG803287
trans-1,3-Dichloropropene	mg/l	0.0284	0.0258	114.	66.3-136	9.58	20	L776921-08	WG803287
Trichloroethene	mg/l	0.0268	0.0247	107.	48.9-148	8.34	20	L776921-08	WG803287
Trichlorofluoromethane	mg/l	0.0268	0.0237	107.	39.9-165	12.2	20	L776921-08	WG803287
Vinyl chloride	mg/l	0.0255	0.0235	102.	44.3-143	8.18	20	L776921-08	WG803287
Xylenes, Total	mg/l	0.0770	0.0702	100.	65.6-133	9.32	20	L776921-08	WG803287
4-Bromofluorobenzene				102.0	80.1-120				WG803287
Dibromofluoromethane				110.0	79-121				WG803287
Toluene-d8				104.0	90-115				WG803287
Tetrachloroethene	mg/l	0.0257	0.0270	103.	57.4-141	5.26	20	L777485-02	WG804198
4-Bromofluorobenzene				94.80	80.1-120				WG804198
Dibromofluoromethane				92.10	79-121				WG804198
Toluene-d8				95.60	90-115				WG804198

Batch number /Run number / Sample number cross reference

WG803287: R3051967: L777518-01 02 03 04 05 06 07 08 09
WG804198: R3052267: L777518-03 04 05 08 09
WG803954: R3052316: L777518-01 02

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Mr. Alan Griffith
353 Jonestown Road, PMB 312

Winston-Salem, NC 27104

Quality Assurance Report
Level II

L777518

July 24, 2015

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Griffith Enterprise

353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

Billing Information:
Mr. Alan Griffith
353 Jonestown Rd, PMB 312
Winston-Salem, NC 27104

Report to: Mr. Alan Griffith

Email To: agriffith@triad.rr.com

Project Description: 28th Street

City/State Collected:

Phone: 336-712-0290
Fax: 336-712-0884

Client Project # 28th

Lab Project # GRIFFITH-28TH STREET

Collected by (print): M. Alan Griffith LG

Site/Facility ID # WINSTON-SALEM, NC

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: STANDARD

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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YOUR LAB OF CHOICE
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L777518

H091

Acctnum: GRIFFITH
Template: T103995
Prelogin: P517261
TSR: 350 - Jimmy Hunt
PB: 7-10-15
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8270D 100ml Amb NoPres	SV8270D 4ozClr-NoPres	Screen for V8260 2ozClr-NoPres	TS 2ozClr-NoPres	V8260 (MeOH) 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	V8260 40mlAmb-HCl				Rem./Contaminant	Sample # (lab only)
WATER DRUM 7	GRAB	GW	—	7/15/15	4:00pm	4	X						X					-01
WATER DRUM 8	GRAB	GW	—	7/16/15	3:00pm	4	X						X					02
WS-31	GRAB	GW	20.23'	7/16/15	8:20 AM	2							X					03
WS-32	GRAB	GW	21.37'	7/16/15	9:20AM	2							X					04
WS-33	GRAB	GW	36.92'	7/16/15	10:45AM	2							X					05
WS-34	GRAB	GW	18.39'	7/16/15	1:00pm	2							X					06
WS-35	GRAB	GW	10.67'	7/16/15	1:30pm	2							X					07
WS-36	GRAB	GW	8.68'	7/16/15	2:20pm	2							X					08
WS-36 Duplicate	GRAB	GW	8.68'	7/16/15	2:20pm	2							X					09
		GW				2							X					

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

6443135700 37

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature]	7/16/15	4:00 pm	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			[signature]

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 3.8 °C Bottles Received: 22 1TB

Date: 7/17/15 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

L777518

Jimmy Hunt

From: Alan Griffith <agriffith@triad.rr.com>
Sent: Thursday, July 16, 2015 5:01 PM
To: Jimmy Hunt; Haynes D. Campbell
Subject: 28th Street Samples

Dear Hanes & Jimmy,

Thanks for sending in the soil & ground water kit and the numerous air cans to me for our 28th Street Project. The water samples have been collected and will arrive at the lab tomorrow and we ended up with no soil samples this time.
We will be collecting all of our air can samples next week. Here are some special instructions regarding the sampling protocols for this project:

1. For the water samples arriving tomorrow please analyze both Waste Drum 7 and Waste Drum 8 for the full 8260 and 8270 analyses at our standard rate structure.

2. For water samples WS-31 through WS-36 and WS-36 Duplicate, please analyze for only the following 8260 compounds: chloroform, tetrachloroethylene, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethylene, 1,1-dichloroethane, cis-1,2-dichloroethylene and methylene chloride. Also, Hanes and I discussed ESC honoring my contract price with the City of Winston-Salem for these water analyses which is $60 per sample.

3. The air can samples next week should also only be analyzed for the 9 compounds listed above by TO-15, plus 2-propanol which is what we are using for our leak detection tracer gas. Again, Hanes and I discussed ESC honoring my contract price with the City of Winston-Salem for these TO-15 analyses which is $210 per sample.

Please let me know if any of this creates a problem and once again thank you for your help.

Alan

L777518

Jimmy Hunt

From: Alan Griffith <agriffith@triad.rr.com>
Sent: Thursday, July 16, 2015 5:01 PM
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2. For water samples WS-31 through WS-36 and WS-36 Duplicate, please analyze for only the following 8260 compounds: chloroform, tetrachloroethylene, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethylene, 1,1-dichloroethane, cis-1,2-dichloroethylene and methylene chloride. Also, Hanes and I discussed ESC honoring my contract price with the City of Winston-Salem for these water analyses which is $60 per sample.

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Please let me know if any of this creates a problem and once again thank you for your help.

Alan

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Est. 1970

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

Report Summary

Wednesday July 29, 2015

Report Number: L778553
Samples Received: 07/23/15
Client Project:

Description: 28th Street

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jimmy Hunt

Jimmy Hunt , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-01

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : TVP-8 EXCAVATION 1

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 09:38

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/26/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	0.40	1.4	TO-15	07/26/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	< 2.5	< 6.1	TO-15	07/26/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	0.77	5.2	TO-15	07/26/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	0.47	2.6	TO-15	07/26/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	9.2	49.	TO-15	07/26/15	2
1,4-Bromofluorobenzene	460-00-4				90.3	% Rec.	TO-15	07/26/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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.
Reported: 07/29/15 10:21 Printed: 07/29/15 10:22

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-02

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : TVP-9 EXCAVATION 1

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 09:51

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/26/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	3.6	13.	TO-15	07/26/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	< 2.5	< 6.1	TO-15	07/26/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	< 0.40	< 2.7	TO-15	07/26/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	4.7	25.	TO-15	07/26/15	2
1,4-Bromofluorobenzene	460-00-4				92.5	% Rec.	TO-15	07/26/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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.
Reported: 07/29/15 10:21 Printed: 07/29/15 10:22

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-03

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-31

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 10:49

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	4.5	22.	TO-15	07/26/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	2.1	7.3	TO-15	07/26/15	2
2-Propanol	67-63-0	60.1	500.	1200	990	2400	TO-15	07/27/15	400
Tetrachloroethylene	127-18-4	166	80.0	540.	2700	18000	TO-15	07/27/15	400
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	6.2	33.	TO-15	07/26/15	2
1,4-Bromofluorobenzene	460-00-4				94.7	% Rec.	TO-15	07/26/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-04

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-32

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 11:16

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	3.0	15.	TO-15	07/26/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.46	1.8	TO-15	07/26/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	2.1	7.3	TO-15	07/26/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	62.	150	TO-15	07/26/15	2
Tetrachloroethylene	127-18-4	166	160.	1100	2400	16000	TO-15	07/28/15	800
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	29.	160	TO-15	07/26/15	2
1,4-Bromofluorobenzene	460-00-4				105	% Rec.	TO-15	07/26/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-05

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : TVP-8 EXCAVATION 2

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/21/15 09:53

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/26/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	0.49	1.7	TO-15	07/26/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	19.	47.	TO-15	07/26/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	1.4	9.5	TO-15	07/26/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	1.9	10.	TO-15	07/26/15	2
1,4-Bromofluorobenzene	460-00-4				94.8	% Rec.	TO-15	07/26/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-06

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : TVP-9 EXCAVATION 2

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/21/15 09:57

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/26/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/26/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	0.90	3.1	TO-15	07/26/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	15.	37.	TO-15	07/26/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	< 0.40	< 2.7	TO-15	07/26/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/26/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	15.	80.	TO-15	07/26/15	2
1,4-Bromofluorobenzene	460-00-4				94.2	% Rec.	TO-15	07/26/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-07

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-33

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 10:39

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.200	0.970	0.73	3.6	TO-15	07/27/15	1
1,1-Dichloroethane	75-34-3	98	0.200	0.800	< 0.20	< 0.80	TO-15	07/27/15	1
1,1-Dichloroethene	75-35-4	96.9	0.200	0.790	< 0.20	< 0.79	TO-15	07/27/15	1
cis-1,2-Dichloroethene	156-59-2	96.9	0.200	0.790	< 0.20	< 0.79	TO-15	07/27/15	1
Methylene Chloride	75-09-2	84.9	0.200	0.690	< 0.20	< 0.69	TO-15	07/27/15	1
2-Propanol	67-63-0	60.1	1.25	3.10	28.	69.	TO-15	07/27/15	1
Tetrachloroethylene	127-18-4	166	0.200	1.40	3.6	24.	TO-15	07/27/15	1
1,1,1-Trichloroethane	71-55-6	133	0.200	1.10	< 0.20	< 1.1	TO-15	07/27/15	1
1,1,2-Trichloroethane	79-00-5	133	0.200	1.10	< 0.20	< 1.1	TO-15	07/27/15	1
Trichloroethylene	79-01-6	131	0.200	1.10	< 0.20	< 1.1	TO-15	07/27/15	1
1,4-Bromofluorobenzene	460-00-4				97.4	% Rec.	TO-15	07/27/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-08

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-34

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 11:11

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/27/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	0.47	1.6	TO-15	07/27/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	47.	120	TO-15	07/27/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	< 0.40	< 2.7	TO-15	07/27/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/27/15	2
1,4-Bromofluorobenzene	460-00-4				93.3	% Rec.	TO-15	07/27/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-09

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-35

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 11:38

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	4.00	19.0	57.	280	TO-15	07/28/15	20
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	0.58	2.0	TO-15	07/27/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	3.2	7.9	TO-15	07/27/15	2
Tetrachloroethylene	127-18-4	166	4.00	27.0	71.	480	TO-15	07/28/15	20
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/27/15	2
1,4-Bromofluorobenzene	460-00-4				95.3	% Rec.	TO-15	07/27/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-10

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-36

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 12:14

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/27/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/27/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	120	290	TO-15	07/27/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	0.99	6.7	TO-15	07/27/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/27/15	2
1,4-Bromofluorobenzene	460-00-4				96.1	% Rec.	TO-15	07/27/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-11

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-36 DUPLICATE

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 12:14

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/27/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/27/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	92.	230	TO-15	07/27/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	0.76	5.2	TO-15	07/27/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/27/15	2
1,4-Bromofluorobenzene	460-00-4				95.6	% Rec.	TO-15	07/27/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 29, 2015

ESC Sample # : L778553-12

Date Received : July 23, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : TRIP BLANK

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/20/15 12:30

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/27/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/27/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/27/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	< 2.5	< 6.1	TO-15	07/27/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	< 0.40	< 2.7	TO-15	07/27/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/27/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/27/15	2
1,4-Bromofluorobenzene	460-00-4				93.1	% Rec.	TO-15	07/27/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L778553-10	WG805161	SAMP	2-Propanol	R3053443	E

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Griffith Enterprise
Mr. Alan Griffith
353 Jonestown Road, PMB 312

Winston-Salem, NC 27104

Quality Assurance Report
Level II

L778553

July 29, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1-Trichloroethane	< .2	ppb			WG804950	07/26/15 15:33
1,1,2-Trichloroethane	< .2	ppb			WG804950	07/26/15 15:33
1,1-Dichloroethane	< .2	ppb			WG804950	07/26/15 15:33
1,1-Dichloroethene	< .2	ppb			WG804950	07/26/15 15:33
2-Propanol	< 1.25	ppb			WG804950	07/26/15 15:33
Chloroform	< .2	ppb			WG804950	07/26/15 15:33
cis-1,2-Dichloroethene	< .2	ppb			WG804950	07/26/15 15:33
Methylene Chloride	< .2	ppb			WG804950	07/26/15 15:33
Tetrachloroethylene	< .2	ppb			WG804950	07/26/15 15:33
Trichloroethylene	< .2	ppb			WG804950	07/26/15 15:33
1,4-Bromofluorobenzene		% Rec.	93.70	60-140	WG804950	07/26/15 15:33
1,1,1-Trichloroethane	< .2	ppb			WG805161	07/27/15 13:33
1,1,2-Trichloroethane	< .2	ppb			WG805161	07/27/15 13:33
1,1-Dichloroethane	< .2	ppb			WG805161	07/27/15 13:33
1,1-Dichloroethene	< .2	ppb			WG805161	07/27/15 13:33
2-Propanol	< 1.25	ppb			WG805161	07/27/15 13:33
Chloroform	< .2	ppb			WG805161	07/27/15 13:33
cis-1,2-Dichloroethene	< .2	ppb			WG805161	07/27/15 13:33
Methylene Chloride	< .2	ppb			WG805161	07/27/15 13:33
Tetrachloroethylene	< .2	ppb			WG805161	07/27/15 13:33
Trichloroethylene	< .2	ppb			WG805161	07/27/15 13:33
1,4-Bromofluorobenzene		% Rec.	97.00	60-140	WG805161	07/27/15 13:33
Chloroform	< .2	ppb			WG805408	07/28/15 11:02
Tetrachloroethylene	< .2	ppb			WG805408	07/28/15 11:02
1,4-Bromofluorobenzene		% Rec.	93.20	60-140	WG805408	07/28/15 11:02

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	ppb	3.75	4.01	107.	70-130	WG804950
1,1,2-Trichloroethane	ppb	3.75	4.31	115.	70-130	WG804950
1,1-Dichloroethane	ppb	3.75	4.23	113.	70-130	WG804950
1,1-Dichloroethene	ppb	3.75	4.14	110.	70-130	WG804950
2-Propanol	ppb	3.75	4.39	117.	50.4-152	WG804950
Chloroform	ppb	3.75	4.07	109.	70-130	WG804950
cis-1,2-Dichloroethene	ppb	3.75	4.21	112.	70-130	WG804950
Methylene Chloride	ppb	3.75	3.77	101.	70-130	WG804950
Tetrachloroethylene	ppb	3.75	4.26	114.	70-130	WG804950
Trichloroethylene	ppb	3.75	4.13	110.	70-130	WG804950
1,4-Bromofluorobenzene				94.80	60-140	WG804950
1,1,1-Trichloroethane	ppb	3.75	3.44	91.8	70-130	WG805161
1,1,2-Trichloroethane	ppb	3.75	3.54	94.4	70-130	WG805161
1,1-Dichloroethane	ppb	3.75	3.64	96.9	70-130	WG805161
1,1-Dichloroethene	ppb	3.75	3.52	93.9	70-130	WG805161
2-Propanol	ppb	3.75	3.59	95.7	50.4-152	WG805161
Chloroform	ppb	3.75	3.44	91.7	70-130	WG805161
cis-1,2-Dichloroethene	ppb	3.75	3.62	96.4	70-130	WG805161
Methylene Chloride	ppb	3.75	3.24	86.5	70-130	WG805161
Tetrachloroethylene	ppb	3.75	3.48	92.7	70-130	WG805161
Trichloroethylene	ppb	3.75	3.50	93.3	70-130	WG805161
1,4-Bromofluorobenzene				96.90	60-140	WG805161

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Winston-Salem, NC 27104

Quality Assurance Report
Level II

L778553

July 29, 2015

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Chloroform	ppb	3.75	3.79	101.	70-130	WG805408
Tetrachloroethylene	ppb	3.75	3.88	104.	70-130	WG805408
1,4-Bromofluorobenzene				97.30	60-140	WG805408

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	ppb	3.98	4.01	106.	70-130	0.770	25	WG804950
1,1,2-Trichloroethane	ppb	4.13	4.31	110.	70-130	4.39	25	WG804950
1,1-Dichloroethane	ppb	4.27	4.23	114.	70-130	0.980	25	WG804950
1,1-Dichloroethene	ppb	4.18	4.14	111.	70-130	0.980	25	WG804950
2-Propanol	ppb	4.26	4.39	114.	50.4-152	2.86	25	WG804950
Chloroform	ppb	4.02	4.07	107.	70-130	1.32	25	WG804950
cis-1,2-Dichloroethene	ppb	4.18	4.21	111.	70-130	0.820	25	WG804950
Methylene Chloride	ppb	3.80	3.77	101.	70-130	0.590	25	WG804950
Tetrachloroethylene	ppb	4.16	4.26	111.	70-130	2.42	25	WG804950
Trichloroethylene	ppb	4.21	4.13	112.	70-130	2.03	25	WG804950
1,4-Bromofluorobenzene				96.10	60-140			WG804950
1,1,1-Trichloroethane	ppb	3.52	3.44	94.0	70-130	2.23	25	WG805161
1,1,2-Trichloroethane	ppb	3.70	3.54	99.0	70-130	4.48	25	WG805161
1,1-Dichloroethane	ppb	3.71	3.64	99.0	70-130	2.06	25	WG805161
1,1-Dichloroethene	ppb	3.65	3.52	97.0	70-130	3.51	25	WG805161
2-Propanol	ppb	3.66	3.59	98.0	50.4-152	2.04	25	WG805161
Chloroform	ppb	3.55	3.44	95.0	70-130	3.29	25	WG805161
cis-1,2-Dichloroethene	ppb	3.70	3.62	99.0	70-130	2.29	25	WG805161
Methylene Chloride	ppb	3.33	3.24	89.0	70-130	2.52	25	WG805161
Tetrachloroethylene	ppb	3.70	3.48	99.0	70-130	6.33	25	WG805161
Trichloroethylene	ppb	3.66	3.50	98.0	70-130	4.52	25	WG805161
1,4-Bromofluorobenzene				98.00	60-140			WG805161
Chloroform	ppb	3.95	3.79	105.	70-130	4.14	25	WG805408
Tetrachloroethylene	ppb	3.88	3.88	103.	70-130	0.180	25	WG805408
1,4-Bromofluorobenzene				99.60	60-140			WG805408

Batch number /Run number / Sample number cross reference

WG804950: R3052984: L778553-01 02 03 04 05 06 08 09
WG805161: R3053443: L778553-03 07 10 11 12
WG805408: R3053966: L778553-04 09

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Mr. Alan Griffith
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Winston-Salem, NC 27104

Quality Assurance Report
Level II

L778553

July 29, 2015

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Griffith Enterprise

353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

Billing Information:
Mr. Alan Griffith
353 Jonestown Rd, PMB 312
Winston-Salem, NC 27104

Report to: Mr. Alan Griffith

Email To: agriffith@triad.rr.com

Project Description: 28th Street

City/State Collected:

Phone: 336-712-0290
Fax: 336-712-0884

Client Project #

Lab Project #: GRIFFITH-28TH STREET

Collected by (print): M. Alan Griffith

Site/Facility ID #: WINSTON-SALEM, NC

P.O. #

Collected by (signature): M Griffith

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: STANDARD

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative: TO-15 Summa * PARTIAL LIST, SEE EMAIL Request

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Rem./Contaminant	Sample # (lab only)
TVP-8 EXCAVATION 1	GRAB	Air	5.1'	7/20/15	9:23-9:38	1	X		-01
TVP-9 EXCAVATION 1	GRAB	Air	5.4'	7/20/15	9:35-9:51	1	X		-02
WS-31	GRAB	Air	10'	7/20/15	10:42-10:49	1	X		-03
WS-32	GRAB	Air	10'	7/20/15	11:09-11:16	1	X		-04
TVP-8 EXCAVATION 2	GRAB	Air	5.1'	7/21/15	9:38-9:53	1	X		-05
TVP-9 EXCAVATION 2	GRAB	Air	5.4'	7/21/15	9:42-9:57	1	X		-06
WS-33	GRAB	Air	10'	7/21/15	10:24-10:39	1	X		-07
WS-34	GRAB	Air	10'	7/21/15	10:56-11:11	1	X		-08
WS-35	GRAB	Air	8'	7/21/15	11:28-11:38	1	X		-09
WS-36	GRAB	Air	6'	7/21/15	12:01-12:14	1	X		-10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:10 batch-certified, 1-liter summas
10 sampling trains

64367133248 08
2491
5744

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
M Griffith	7/22/15	10:00AM	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 12

Date: 7/23/15 Time: 0900

Condition: (lab use only) 12=ST

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Chain of Custody Page 1 of 2

ESC LABS SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 778553
L037

Acctnum: GRIFFITH
Template: T104008
Prelogin: P517281
TSR: 350 - Jimmy Hunt
PB: BAK 7-13-15
Shipped Via: FedEX Ground

Griffith Enterprise

353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

Billing Information:
Mr. Alan Griffith
353 Jonestown Rd, PMB 312
Winston-Salem, NC 27104

Report to: Mr. Alan Griffith

Email To: agriffith@triad.rr.com

Project Description: 28th Street

City/State Collected:

Phone: 336-712-0290
Fax: 336-712-0884

Client Project #

Lab Project #: GRIFFITH-28TH STREET

Collected by (print): M. Alan Griffith

Site/Facility ID #: WINSTON-SALEM, NC

P.O. #

Collected by (signature): M Alan Griffith

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: STANDARD

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
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Mount Juliet, TN 37122
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Phone: 800-767-5859
Fax: 615-758-5859

L# 778553

Table #

Acctnum: GRIFFITH
Template: T104082
Prelogin: P517475
TSR: 350 - Jimmy Hunt
PB: SAL 7-15-15
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 - Trip Blank Summa	TO-15 Summa * PARTIAL LIST, SEE MAIL Request	Rem./Contaminant	Sample # (lab only)
WS-36 DUPLICATE	GRAB	Air		7/21/15	12:01-12:14	1		X		-11
		Air				1		X		
TRIP BLANK	GRAB	Air		7/21/15	12:30	1	X			-12
TRIP BLANK		Air				1	X			

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: 2 batch-certified, 1-liter summas
2 1-liter trip blank summas
2 T-fittings

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
M Alan Griffith	7/22/15	10:00AM	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: °C Bottles Received: 12

Date: 7/23/15 Time: 0900

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

L778553

Jimmy Hunt

From: Alan Griffith <agriffith@triad.rr.com>
Sent: Thursday, July 16, 2015 5:01 PM
To: Jimmy Hunt; Haynes D. Campbell
Subject: 28th Street Samples

Dear Hanes & Jimmy,

Thanks for sending in the soil & ground water kit and the numerous air cans to me for our 28th Street Project. The water samples have been collected and will arrive at the lab tomorrow and we ended up with no soil samples this time.
We will be collecting all of our air can samples next week. Here are some special instructions regarding the sampling protocols for this project:

1. For the water samples arriving tomorrow please analyze both Waste Drum 7 and Waste Drum 8 for the full 8260 and 8270 analyses at our standard rate structure.

2. For water samples WS-31 through WS-36 and WS-36 Duplicate, please analyze for only the following 8260 compounds: chloroform, tetrachloroethylene, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethylene, 1,1-dichloroethane, cis-1,2-dichloroethylene and methylene chloride. Also, Hanes and I discussed ESC honoring my contract price with the City of Winston-Salem for these water analyses which is $60 per sample.

3. The air can samples next week should also only be analyzed for the 9 compounds listed above by TO-15, plus 2-propanol which is what we are using for our leak detection tracer gas. Again, Hanes and I discussed ESC honoring my contract price with the City of Winston-Salem for these TO-15 analyses which is $210 per sample.

Please let me know if any of this creates a problem and once again thank you for your help.

Alan

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353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

Report Summary

Thursday July 30, 2015

Report Number: L778816
Samples Received: 07/24/15
Client Project:

Description: 28th Street

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jimmy Hunt

Jimmy Hunt , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-01

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-2

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/21/15 15:06

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/28/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/28/15	2
2-Propanol	67-63-0	60.1	31.2	77.0	110	270	TO-15	07/28/15	25
Tetrachloroethylene	127-18-4	166	5.00	34.0	230	1600	TO-15	07/28/15	25
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	1.3	7.0	TO-15	07/28/15	2
1,4-Bromofluorobenzene	460-00-4				99.1	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
.
Reported: 07/30/15 14:15 Printed: 07/30/15 14:16

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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-02

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-4

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/21/15 14:33

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	1.5	7.3	TO-15	07/28/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	1.7	6.7	TO-15	07/28/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/28/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	22.	54.	TO-15	07/28/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	14.	95.	TO-15	07/28/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	0.40	2.2	TO-15	07/28/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	32.	170	TO-15	07/28/15	2
1,4-Bromofluorobenzene	460-00-4				99.3	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-03

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-5

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/21/15 16:09

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	16.0	78.0	1100	5400	TO-15	07/28/15	80
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.71	2.8	TO-15	07/28/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	2.1	7.3	TO-15	07/28/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	10.	25.	TO-15	07/28/15	2
Tetrachloroethylene	127-18-4	166	80.0	540.	8800	60000	TO-15	07/29/15	400
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	1.5	8.2	TO-15	07/28/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	0.72	3.9	TO-15	07/28/15	2
1,4-Bromofluorobenzene	460-00-4				100	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-04

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-8

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/21/15 15:37

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	0.73	3.6	TO-15	07/28/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/28/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	49.	120	TO-15	07/28/15	2
Tetrachloroethylene	127-18-4	166	5.00	34.0	180	1200	TO-15	07/28/15	25
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	2.9	16.	TO-15	07/28/15	2
1,4-Bromofluorobenzene	460-00-4				99.1	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-05

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-19

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/22/15 10:28

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.800	3.90	4.7	23.	TO-15	07/28/15	4
1,1-Dichloroethane	75-34-3	98	0.800	3.20	< 0.80	< 3.2	TO-15	07/28/15	4
1,1-Dichloroethene	75-35-4	96.9	0.800	3.20	< 0.80	< 3.2	TO-15	07/28/15	4
cis-1,2-Dichloroethene	156-59-2	96.9	0.800	3.20	< 0.80	< 3.2	TO-15	07/28/15	4
Methylene Chloride	75-09-2	84.9	0.800	2.80	8.0	28.	TO-15	07/28/15	4
2-Propanol	67-63-0	60.1	5.00	12.0	9.4	23.	TO-15	07/28/15	4
Tetrachloroethylene	127-18-4	166	40.0	270.	5400	37000	TO-15	07/29/15	200
1,1,1-Trichloroethane	71-55-6	133	0.800	4.40	< 0.80	< 4.4	TO-15	07/28/15	4
1,1,2-Trichloroethane	79-00-5	133	0.800	4.40	< 0.80	< 4.4	TO-15	07/28/15	4
Trichloroethylene	79-01-6	131	0.800	4.30	8.4	45.	TO-15	07/28/15	4
1,4-Bromofluorobenzene	460-00-4				103	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
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Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-06

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-24

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/22/15 13:35

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	33.	160	TO-15	07/28/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	6.5	23.	TO-15	07/28/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	12.	29.	TO-15	07/28/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	2.5	17.	TO-15	07/28/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/28/15	2
1,4-Bromofluorobenzene	460-00-4				105	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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July 30, 2015

ESC Sample # : L778816-07

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-25

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/22/15 14:07

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	1.1	5.4	TO-15	07/29/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/29/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/29/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/29/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	5.8	20.	TO-15	07/29/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	9.7	24.	TO-15	07/29/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	1.7	12.	TO-15	07/29/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/29/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/29/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/29/15	2
1,4-Bromofluorobenzene	460-00-4				100	% Rec.	TO-15	07/29/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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Mr. Alan Griffith
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Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-08

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-29

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/22/15 14:40

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	0.41	2.0	TO-15	07/29/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/29/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/29/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/29/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	5.5	19.	TO-15	07/29/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	6.9	17.	TO-15	07/29/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	1.0	6.8	TO-15	07/29/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/29/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/29/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/29/15	2
1,4-Bromofluorobenzene	460-00-4				99.8	% Rec.	TO-15	07/29/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-09

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-23

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/22/15 11:07

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	9.0	44.	TO-15	07/28/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/28/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	17.	42.	TO-15	07/28/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	80.	540	TO-15	07/28/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/28/15	2
1,4-Bromofluorobenzene	460-00-4				99.9	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-10

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : WS-23 DUPLICATE

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/22/15 11:07

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	8.6	42.	TO-15	07/28/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/28/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	7.3	18.	TO-15	07/28/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	80.	540	TO-15	07/28/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/28/15	2
1,4-Bromofluorobenzene	460-00-4				99.1	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
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REPORT OF ANALYSIS

Mr. Alan Griffith
Griffith Enterprise
353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

July 30, 2015

ESC Sample # : L778816-11

Date Received : July 24, 2015
Description : 28th Street

Site ID : WINSTON-SALEM, NC

Sample ID : TRIP BLANK

Project # :

Collected By : M. Alan Griffith
Collection Date : 07/22/15 15:00

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Chloroform	67-66-3	119	0.400	1.90	< 0.40	< 1.9	TO-15	07/28/15	2
1,1-Dichloroethane	75-34-3	98	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
1,1-Dichloroethene	75-35-4	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
cis-1,2-Dichloroethene	156-59-2	96.9	0.400	1.60	< 0.40	< 1.6	TO-15	07/28/15	2
Methylene Chloride	75-09-2	84.9	0.400	1.40	< 0.40	< 1.4	TO-15	07/28/15	2
2-Propanol	67-63-0	60.1	2.50	6.10	< 2.5	< 6.1	TO-15	07/28/15	2
Tetrachloroethylene	127-18-4	166	0.400	2.70	< 0.40	< 2.7	TO-15	07/28/15	2
1,1,1-Trichloroethane	71-55-6	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
1,1,2-Trichloroethane	79-00-5	133	0.400	2.20	< 0.40	< 2.2	TO-15	07/28/15	2
Trichloroethylene	79-01-6	131	0.400	2.10	< 0.40	< 2.1	TO-15	07/28/15	2
1,4-Bromofluorobenzene	460-00-4				101	% Rec.	TO-15	07/28/15	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
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Mr. Alan Griffith
353 Jonestown Road, PMB 312

Winston-Salem, NC 27104

Quality Assurance Report
Level II

L778816

July 30, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1-Trichloroethane	< .2	ppb			WG805129	07/27/15 12:45
1,1,2-Trichloroethane	< .2	ppb			WG805129	07/27/15 12:45
1,1-Dichloroethane	< .2	ppb			WG805129	07/27/15 12:45
1,1-Dichloroethene	< .2	ppb			WG805129	07/27/15 12:45
2-Propanol	< 1.25	ppb			WG805129	07/27/15 12:45
Chloroform	< .2	ppb			WG805129	07/27/15 12:45
cis-1,2-Dichloroethene	< .2	ppb			WG805129	07/27/15 12:45
Methylene Chloride	< .2	ppb			WG805129	07/27/15 12:45
Tetrachloroethylene	< .2	ppb			WG805129	07/27/15 12:45
Trichloroethylene	< .2	ppb			WG805129	07/27/15 12:45
1,4-Bromofluorobenzene		% Rec.	96.30	60-140	WG805129	07/27/15 12:45
1,1,1-Trichloroethane	< .2	ppb			WG805337	07/28/15 09:27
1,1,2-Trichloroethane	< .2	ppb			WG805337	07/28/15 09:27
1,1-Dichloroethane	< .2	ppb			WG805337	07/28/15 09:27
1,1-Dichloroethene	< .2	ppb			WG805337	07/28/15 09:27
2-Propanol	< 1.25	ppb			WG805337	07/28/15 09:27
Chloroform	< .2	ppb			WG805337	07/28/15 09:27
cis-1,2-Dichloroethene	< .2	ppb			WG805337	07/28/15 09:27
Methylene Chloride	< .2	ppb			WG805337	07/28/15 09:27
Tetrachloroethylene	< .2	ppb			WG805337	07/28/15 09:27
Trichloroethylene	< .2	ppb			WG805337	07/28/15 09:27
1,4-Bromofluorobenzene		% Rec.	95.80	60-140	WG805337	07/28/15 09:27
1,1,1-Trichloroethane	< .2	ppb			WG805383	07/28/15 09:38
1,1,2-Trichloroethane	< .2	ppb			WG805383	07/28/15 09:38
1,1-Dichloroethane	< .2	ppb			WG805383	07/28/15 09:38
1,1-Dichloroethene	< .2	ppb			WG805383	07/28/15 09:38
2-Propanol	< 1.25	ppb			WG805383	07/28/15 09:38
Chloroform	< .2	ppb			WG805383	07/28/15 09:38
cis-1,2-Dichloroethene	< .2	ppb			WG805383	07/28/15 09:38
Methylene Chloride	< .2	ppb			WG805383	07/28/15 09:38
Tetrachloroethylene	< .2	ppb			WG805383	07/28/15 09:38
Trichloroethylene	< .2	ppb			WG805383	07/28/15 09:38
1,4-Bromofluorobenzene		% Rec.	97.90	60-140	WG805383	07/28/15 09:38
Tetrachloroethylene	< .2	ppb			WG805618	07/29/15 11:07
1,4-Bromofluorobenzene		% Rec.	101.0	60-140	WG805618	07/29/15 11:07

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	ppb	3.75	3.69	98.3	70-130	WG805129
1,1,2-Trichloroethane	ppb	3.75	4.00	107.	70-130	WG805129
1,1-Dichloroethane	ppb	3.75	3.92	105.	70-130	WG805129
1,1-Dichloroethene	ppb	3.75	3.93	105.	70-130	WG805129
2-Propanol	ppb	3.75	4.15	111.	50.4-152	WG805129
Chloroform	ppb	3.75	3.82	102.	70-130	WG805129
cis-1,2-Dichloroethene	ppb	3.75	3.86	103.	70-130	WG805129
Methylene Chloride	ppb	3.75	3.66	97.7	70-130	WG805129
Tetrachloroethylene	ppb	3.75	3.87	103.	70-130	WG805129
Trichloroethylene	ppb	3.75	3.91	104.	70-130	WG805129
1,4-Bromofluorobenzene				98.80	60-140	WG805129
1,1,1-Trichloroethane	ppb	3.75	3.21	85.6	70-130	WG805337

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Griffith Enterprise
Mr. Alan Griffith
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Quality Assurance Report
Level II

L778816

July 30, 2015

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,2-Trichloroethane	ppb	3.75	3.14	83.7	70-130	WG805337
1,1-Dichloroethane	ppb	3.75	3.24	86.5	70-130	WG805337
1,1-Dichloroethene	ppb	3.75	3.21	85.5	70-130	WG805337
2-Propanol	ppb	3.75	3.55	94.6	50.4-152	WG805337
Chloroform	ppb	3.75	3.23	86.1	70-130	WG805337
cis-1,2-Dichloroethene	ppb	3.75	3.27	87.2	70-130	WG805337
Methylene Chloride	ppb	3.75	2.89	77.2	70-130	WG805337
Tetrachloroethylene	ppb	3.75	3.02	80.6	70-130	WG805337
Trichloroethylene	ppb	3.75	3.04	81.1	70-130	WG805337
1,4-Bromofluorobenzene				107.0	60-140	WG805337
1,1,1-Trichloroethane	ppb	3.75	3.59	95.7	70-130	WG805383
1,1,2-Trichloroethane	ppb	3.75	4.23	113.	70-130	WG805383
1,1-Dichloroethane	ppb	3.75	3.89	104.	70-130	WG805383
1,1-Dichloroethene	ppb	3.75	3.86	103.	70-130	WG805383
2-Propanol	ppb	3.75	4.08	109.	50.4-152	WG805383
Chloroform	ppb	3.75	3.69	98.4	70-130	WG805383
cis-1,2-Dichloroethene	ppb	3.75	3.90	104.	70-130	WG805383
Methylene Chloride	ppb	3.75	3.62	96.5	70-130	WG805383
Tetrachloroethylene	ppb	3.75	3.96	106.	70-130	WG805383
Trichloroethylene	ppb	3.75	3.94	105.	70-130	WG805383
1,4-Bromofluorobenzene				98.10	60-140	WG805383
Tetrachloroethylene	ppb	3.75	2.89	77.2	70-130	WG805618
1,4-Bromofluorobenzene				106.0	60-140	WG805618

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	ppb	3.71	3.69	99.0	70-130	0.560	25	WG805129
1,1,2-Trichloroethane	ppb	4.10	4.00	109.	70-130	2.68	25	WG805129
1,1-Dichloroethane	ppb	3.97	3.92	106.	70-130	1.35	25	WG805129
1,1-Dichloroethene	ppb	3.83	3.93	102.	70-130	2.64	25	WG805129
2-Propanol	ppb	4.15	4.15	111.	50.4-152	0.0200	25	WG805129
Chloroform	ppb	3.80	3.82	101.	70-130	0.630	25	WG805129
cis-1,2-Dichloroethene	ppb	3.89	3.86	104.	70-130	0.740	25	WG805129
Methylene Chloride	ppb	3.69	3.66	98.0	70-130	0.780	25	WG805129
Tetrachloroethylene	ppb	3.95	3.87	105.	70-130	2.17	25	WG805129
Trichloroethylene	ppb	4.03	3.91	108.	70-130	3.15	25	WG805129
1,4-Bromofluorobenzene				98.90	60-140			WG805129
1,1,1-Trichloroethane	ppb	3.34	3.21	89.0	70-130	3.89	25	WG805337
1,1,2-Trichloroethane	ppb	3.17	3.14	84.0	70-130	1.03	25	WG805337
1,1-Dichloroethane	ppb	3.36	3.24	90.0	70-130	3.66	25	WG805337
1,1-Dichloroethene	ppb	3.17	3.21	84.0	70-130	1.05	25	WG805337
2-Propanol	ppb	3.90	3.55	104.	50.4-152	9.53	25	WG805337
Chloroform	ppb	3.33	3.23	89.0	70-130	3.17	25	WG805337
cis-1,2-Dichloroethene	ppb	3.41	3.27	91.0	70-130	4.27	25	WG805337
Methylene Chloride	ppb	2.99	2.89	80.0	70-130	3.40	25	WG805337
Tetrachloroethylene	ppb	3.09	3.02	82.0	70-130	2.29	25	WG805337
Trichloroethylene	ppb	3.13	3.04	84.0	70-130	2.97	25	WG805337
1,4-Bromofluorobenzene				104.0	60-140			WG805337
1,1,1-Trichloroethane	ppb	3.50	3.59	93.0	70-130	2.54	25	WG805383
1,1,2-Trichloroethane	ppb	4.03	4.23	107.	70-130	4.86	25	WG805383

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Winston-Salem, NC 27104

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Level II

L778816

July 30, 2015

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1-Dichloroethane	ppb	3.78	3.89	101.	70-130	2.84	25	WG805383
1,1-Dichloroethene	ppb	3.71	3.86	99.0	70-130	4.05	25	WG805383
2-Propanol	ppb	4.03	4.08	107.	50.4-152	1.24	25	WG805383
Chloroform	ppb	3.62	3.69	96.0	70-130	1.92	25	WG805383
cis-1,2-Dichloroethene	ppb	3.75	3.90	100.	70-130	4.17	25	WG805383
Methylene Chloride	ppb	3.54	3.62	94.0	70-130	2.17	25	WG805383
Tetrachloroethylene	ppb	3.85	3.96	103.	70-130	2.86	25	WG805383
Trichloroethylene	ppb	3.93	3.94	105.	70-130	0.200	25	WG805383
1,4-Bromofluorobenzene				101.0	60-140			WG805383
Tetrachloroethylene	ppb	2.66	2.89	71.0	70-130	8.47	25	WG805618
1,4-Bromofluorobenzene				107.0	60-140			WG805618

Batch number /Run number / Sample number cross reference

WG805129: R3053383: L778816-01 02 03 04
WG805337: R3053467 R3053705: L778816-01 03 04 05 06 07 08
WG805383: R3053884: L778816-09 10 11
WG805618: R3054346: L778816-03 05

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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L778816

July 30, 2015

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Griffith Enterprise

353 Jonestown Road, PMB 312
Winston-Salem, NC 27104

Billing Information:
Mr. Alan Griffith
353 Jonestown Rd, PMB 312
Winston-Salem, NC 27104

Report to: Mr. Alan Griffith

Email To: agriffith@triad.rr.com

Project Description: 28th Street

City/State Collected: Winston Salem NC

Phone: 336-712-0290
Fax: 336-712-0884

Client Project #

Lab Project #: GRIFFITH-28TH STREET

Collected by (print): M Alan Griffith

Site/Facility ID #: WINSTON-SALEM, NC

P.O. #

Collected by (signature): M Alan Griffith

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: STANDARD

Email? ___No X Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L778816

Ta L038

Acctnum: GRIFFITH
Template: T104003
Prelogin: P517275
TSR: 350 - Jimmy Hunt
PB: BAK 7-13-15
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa *PARTIAL LIST, SEE EMAIL REQUEST									Rem./Contaminant	Sample # (lab only)
WS-2	GRAB	Air	10'	7/21/15	2:51-3:06	1	X										-01
WS-4	GRAB	Air	10'	7/21/15	2:23-2:33	1	X										02
WS-5	GRAB	Air	10'	7/21/15	3:57-4:09	1	X										03
WS-8	GRAB	Air	10'	7/21/15	3:24-3:37	1	X										04
WS-19	GRAB	Air	10'	7/22/15	10:16-10:28	1	X										05
WS-24	GRAB	Air	10'	7/22/15	1:20-1:35	1	X										06
WS-25	GRAB	Air	10'	7/22/15	1:52-2:07	1	X										07
WS-29	GRAB	Air	10'	7/22/15	2:29-2:40	1	X										08
WS-23	GRAB	Air	10'	7/22/15	10:47-11:07	1	X										09
WS-23 DUPLICATE	GRAB	Air	10'	7/22/15	10:47-11:07	1	X										10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: 16 batch-certified, 1-liter summas
16 sampling trains

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
M Alan Griffith	7/22/15	4:30pm			OK
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb °C Bottles Received: 11	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 7/24/15 Time: 09:40	pH Checked: NCF:

Griffith Enterprise

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Winston-Salem, NC 27104

Billing Information:
Mr. Alan Griffith
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Winston-Salem, NC 27104

Report to: Mr. Alan Griffith

Email To: agriffith@triad.rr.com

Project Description: 28th Street

City/State Collected: Winston Salem NC

Phone: 336-712-0290
Fax: 336-712-0884

Client Project #

Lab Project #: GRIFFITH-28TH STREET

Collected by (print): Alan Griffith

Site/Facility ID #: WINSTON-SALEM, NC

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: STANDARD

Email? ___No X Yes
FAX? ___No ___Yes

Analysis / Container / Preservative: TO-15 Summa X PARTIAL LIST, SEE EMAIL Request

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Rem./Contaminant	Sample # (lab only)
TRIP Blank	GRAB	Air	—	7/22/15	3:00 pm	1	X		-11
		Air				1	X		
		Air				1	X		
		Air				1	X		
		Air				1	X		
		Air				1	X		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:16 batch-certified, 1-liter summas
16 sampling trains

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page 2 of 2

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Fax: 615-758-5859

L# L778816

Table #

Acctnum: GRIFFITH
Template: T104003
Prelogin: P517275
TSR: 350 - Jimmy Hunt
PB: BAK 7-13-15
Shipped Via: FedEX Ground

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	7/22/15	4:30pm	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 11

Date: 7/24/15 Time: 09:00

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ✓ NA

pH Checked: NCF:

L778816

Jimmy Hunt

From: Alan Griffith <agriffith@triad.rr.com>
Sent: Thursday, July 16, 2015 5:01 PM
To: Jimmy Hunt; Haynes D. Campbell
Subject: 28th Street Samples

Dear Hanes & Jimmy,

Thanks for sending in the soil & ground water kit and the numerous air cans to me for our 28th Street Project. The water samples have been collected and will arrive at the lab tomorrow and we ended up with no soil samples this time.
We will be collecting all of our air can samples next week. Here are some special instructions regarding the sampling protocols for this project:

1. For the water samples arriving tomorrow please analyze both Waste Drum 7 and Waste Drum 8 for the full 8260 and 8270 analyses at our standard rate structure.

2. For water samples WS-31 through WS-36 and WS-36 Duplicate, please analyze for only the following 8260 compounds: chloroform, tetrachloroethylene, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethylene, 1,1-dichloroethane, cis-1,2-dichloroethylene and methylene chloride. Also, Hanes and I discussed ESC honoring my contract price with the City of Winston-Salem for these water analyses which is $60 per sample.

3. The air can samples next week should also only be analyzed for the 9 compounds listed above by TO-15, plus 2-propanol which is what we are using for our leak detection tracer gas. Again, Hanes and I discussed ESC honoring my contract price with the City of Winston-Salem for these TO-15 analyses which is $210 per sample.

Please let me know if any of this creates a problem and once again thank you for your help.

Alan

GRIFFITH ENTERPRISES

MONITORING WELL CONSTRUCTION RECORDS

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-01-2015 WS-1

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

28th Street & Patrick Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.124784 N 80.236917 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 35 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 29 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 3.75 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	25 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
25 ft.	35 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	23 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
25 ft.	35 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	35 ft.	Silty Sand
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit, 1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program, 1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-01-2015 WS-2

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name — Facility ID# (if applicable)

28th Street & Stokes Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth, -80.238207

County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.124801 N 80.238207 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 38 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 29 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	28 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
28 ft.	38 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	26 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
26 ft.	38 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	38 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper — Digitally signed by Lawrence Opper; DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=larry@regionalprobing.com, c=US; Date: 2015.06.19 17:03:26 -04'00'

Signature of Certified Well Contractor — 4/28/2015 Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-01-2015 WS-3

5. Well Location:

City of Winston-Salem

Facility/Owner Name

Facility ID# (if applicable)

27th Street & Stokes Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.123466 N 80.238191 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 34 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 28 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	24 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
24 ft.	34 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	24 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
22 ft.	34 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	34 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou=, email=lawrence@probing.com, c=US
Date: 2015.06.19 16:29:31 -04'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-02-2015 WS-4

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Stokes Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.122686 N 80.238188 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 32 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 26 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	22 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
22 ft.	32 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	20 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
20 ft.	32 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	32 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou=Lawrence Opper, email=lawrence@rpsprobing.com, c=US
Date: 2015.05.19 10:29:45 -05'00'

4/28/2015

Signature of Certified Well Contractor

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.).

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-02-2015 WS-5

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name — Facility ID# (if applicable)

27th Street & Ivy Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth

County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.123440 N 80.239457 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 38 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 30 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	28 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
28 ft.	38 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	26 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
26 ft.	38 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	38 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper — Digitally signed by Lawrence Opper DN: cn=Lawrence Opper, o=Regional Probing Services, inc. email=larry@regionalprobing.com, c=US Date: 2015.06.18 16:29:54-04'00'

Signature of Certified Well Contractor — 4/28/2015 Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☑Monitoring
- ☐Recovery

Injection Well:

- ☐Aquifer Recharge
- ☐Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-02-2015 WS-6

5. Well Location:

City of Winston-Salem

Facility/Owner Name

Facility ID# (if applicable)

Ivy Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.124096 N 80.239470 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 35 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 28 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 3.75 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	25 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
25 ft.	35 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	23 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
23 ft.	35 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	35 ft.	Silty Sand
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=larry@regionalprobing.com, c=US
Date: 2015.06.19 16:30:07-04'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-02-2015 WS-7

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

28th Street & Ivy Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.124804 N 80.239483 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 28 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 25 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 3.75 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	18 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
18 ft.	28 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	16 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
16 ft.	28 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	28 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, inc, email=larry@regionalprobing.com, c=US
Date: 2015.04.29 21:50:41-04'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-07-2015 WS-8

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Ivy Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.122553 N 80.239448 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 38 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 24 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.2.5 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	28 ft.	in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
28 ft.	38 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	26 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
26 ft.	38 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	38 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-07-2015 WS-9

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Ivy Ave. & 25th Street, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.122159 N 80.239451 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 38 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 24 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.2.5 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	28 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
28 ft.	38 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	26 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
26 ft.	38 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	38 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=layne@regionalprobing.com, c=US
Date: 2015.04.29 21:01:22 -04'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-07-2015 WS-10

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Stokes Ave. & 25th Street, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.122193 N 80.238244 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 36 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 20 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	26 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
26 ft.	36 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	24 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
24 ft.	36 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	36 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=lopper@regionalprobing.com, c=US
Date: 2015.04.29 21:01:38 -04'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-07-2015 WS-11

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Stokes Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.122360 N 80.236930 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 22 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 15 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	12 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
12 ft.	22 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	10 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
10 ft.	22 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	22 ft.	Silty Sand over rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou=, email=lanc@regionalprobing.com, c=US
Date: 2015.04.28 21:02:07 -01'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-07-2015 WS-12

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Stokes Ave. & 25th Street, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.122852 N 80.236931 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 30 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 15 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	20 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
20 ft.	30 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	18 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	30 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	30 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, inc., email:lawrence@rpsdirect.com, c=US
Date: 2015.04.29 21:02:25 -04'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-08-2015 WS-13

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name — Facility ID# (if applicable)

Stokes Ave. & 25th Street, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.123487 N 80.236938 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 30 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 20 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	20 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
20 ft.	30 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	18 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	30 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	30 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper — Digitally signed by Lawrence Opper; DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=info@regionalprobing.com, c=US; Date: 2015.04.29 21:02:46-04'00'

Signature of Certified Well Contractor — 4/28/2015 Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-08-2015 WS-13

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Stokes Ave. & 25th Street, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.123487 N 80.236938 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 30 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 20 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	20 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
20 ft.	30 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	18 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	30 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	30 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=dolly@regionalprobing.com, c=US
Date: 2015.06.19 17:05:21 -04'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☑Monitoring
- ☐Recovery

Injection Well:

- ☐Aquifer Recharge
- ☐Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-08-2015 WS-14

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Stokes Ave. & 25th Street, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.124018 N 80.236939 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 33 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 28 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	23 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
23 ft.	33 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	21 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
211 ft.	33 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	33 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=lawrence@regionalprobing.com, c=US
Date: 2015.04.29 21:00:53 -04'00'

Signature of Certified Well Contractor

4/28/2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-08-2015 WS-15

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name — Facility ID# (if applicable)

Stokes Ave. & 25th Street, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.128355 N 80.239518 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 43 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 30 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	33 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
33 ft.	43 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	31 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
31 ft.	43 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	43 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper — Digitally signed by Lawrence Opper DN: cn=Lawrence Opper, o=Regional Probing Services, inc. email=larry@regionalprobing.com, c=US Date: 2015.04.29 21:05:23 -04'00'

Signature of Certified Well Contractor — 4/28/2015 Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 4-08-2015 WS-16

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name — Facility ID# (if applicable)

Stokes Ave. & 25th Street, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.127331 N 80.239509 W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 40 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 30 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	30 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
30 ft.	40 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	28 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
28 ft.	40 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	40 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=lawrenceopper@regionalprobing.com, c=US
Date: 2015.04.29 21:01:34 -04'00'

Signature of Certified Well Contractor — Date: 4/28/2015

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-1-2015 WS-17

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Ivy Ave. @ Blum Park, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12002 N 80.23937 W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 15 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 8 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	10 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10 ft.	15 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	8 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
8 ft.	15 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	15 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence Opper

Digitally signed by Lawrence D. Opper
DN: cn=Lawrence Opper, o=Regional Probing Services, ou, email=larry@regionalprobing.com, c=US
Date: 2015.06.19 17:09:05 -04'00'

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-1-2015 WS-18

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Ivy Ave. @ Blum Park, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12053 N 80.23935 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 30 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 12 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: Direct Push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	20 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
20 ft.	30 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	18 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	30 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	30 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence D. Opper 6-19-2015

Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-1-2015 WS-19

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Ivy Ave. @ Blum Park, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12122 N 80.23916 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 38.5 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 25 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	28.5 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
28.5 ft.	38.5 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	26.5 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
26.5 ft.	38.5 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	38.5 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence D. Opper 6-19-2015

Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-1-2015 WS-20

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Blum Park, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12131 N 80.23812 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 31 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 25 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	21 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
21 ft.	31 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	19 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
19 ft.	31 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	31 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-2-2015 WS-21

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Blum Park, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12058 N 80.23882 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 28.5 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 20 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	18.5 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
18.5 ft.	28.5 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	16.5 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
16.5 ft.	28.5 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	28.5 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence D. Opper — Signature of Certified Well Contractor

6-19-2015 — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0108 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-2-2015 WS-22

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE & NE 24th St, Winston-Salem

Physical Address, City, and Zip

Forsyth

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.11992 N 80.24060 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 41 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 20 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	31 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
31 ft.	41 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	29 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
29 ft.	41 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	41 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-2-2015 WS-23

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE & NE 24th St, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12069 N 80.24087 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 40 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 30 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.5 **(in.)**

12. Well construction method: Direct Push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	30 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
30 ft.	40 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	28 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
28 ft.	40 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	40 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor 6-19-2015 Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-2-2015 WS-24

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE & NE 24th St, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12138 N 80.24072 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 44 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 25 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	34 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
34 ft.	44 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	32 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
32 ft.	44 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	44 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-3-2015 WS-25

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE & NE 25th St, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12234 N 80.24063 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 53 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 45 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	43 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
43 ft.	53 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	41 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
41 ft.	53 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	53 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-3-2015 WS-26

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE & 27th St NE, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12307 N 80.24085 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 53 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 44 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	43 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
43 ft.	53 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	41 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
41 ft.	53 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	53 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-3-2015 WS-27

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE & 27th St NE, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.123424 N 80.240604 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 53 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 44 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	43 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
43 ft.	53 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	41 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
41 ft.	53 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	53 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-3-2015 WS-28

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE E 28th St, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12424 N 80.24072 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 53 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 45 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	43 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
43 ft.	53 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	41 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
41 ft.	53 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	53 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-4-2015 WS-29

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE & E 28th St, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12473 N 80.24067 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 52 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 44 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 4.5 **(in.)**

12. Well construction method: auger

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	42 ft.	2 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
42 ft.	52 ft.	2 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	40 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
40 ft.	52 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	52 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence D. Opper 6-19-2015

Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 6-4-2015 WS-30

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Ivy Ave & NE 28th St, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12478 N 80.23946 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 40 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 30 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.5 **(in.)**

12. Well construction method: Direct Push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	30 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
30 ft.	40 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	28 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
28 ft.	40 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	40 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

6-19-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-1-2015 WS-31

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Ivy Ave. & NE 24th St, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12105 N 80.23903 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 24.5 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 20 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	24.5 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
14.5 ft.	24.5 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	12 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
12 ft.	24.5 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	24.5 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

7-25-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-1-2015 WS-32

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name Facility ID# (if applicable)

Ivy Ave. & NE 24th St, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12063 N 80.23989 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 30 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 25 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: direct-push

(i.e. anger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	20 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
20 ft.	30 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	18 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
18 ft.	30 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	30 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor 7-25-2015 Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-1-2015 WS-33

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

NE 24th St & Glenn Ave NE, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.12047 N 80.24105 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 40 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 35 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.5 **(in.)**

12. Well construction method: Direct Push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	30 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
30 ft.	40 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	28 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
28 ft.	40 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	40 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

7-25-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:

- ☑ Monitoring
- ☐ Recovery

Injection Well:

- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-1-2015 WS-34

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name — Facility ID# (if applicable)

NE 24th St & Patterson Ave, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County — Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.1250 N 80.24168 W

6. Is (are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 33.5 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 25 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	23.5 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
23.5 ft.	33.5 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	21.5 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
23.5 ft.	33.5 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	33.5 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Lawrence D. Opper — 7-25-2015

Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-2-2015 WS-35

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Patterson Ave. & Glenn Ave NE, Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.11825 N 80.24172 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the same construction, you can submit one form.*

9. Total well depth below land surface: 20 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 12 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	10 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10 ft.	20 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	8 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
8 ft.	20 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	20 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

7-25-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7-2-2015 WS-36

5. Well Location:

City of Winston-Salem ROW

Facility/Owner Name

Facility ID# (if applicable)

Glenn Ave NE north of Patterson Ave., Winston-Salem

Physical Address, City, and Zip

Forsyth,

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.11918 N 80.24071 W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 22 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: approx 12 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	12 ft.	0.75 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
12 ft.	22 ft.	0.75 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	3 ft.	cement grout	pour
3 ft.	10 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
10 ft.	22 ft.	#2 sand	Pre-Pack/pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	22 ft.	Silty Sand over weathered rock
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

Signature of Certified Well Contractor

7-25-2015

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0108 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

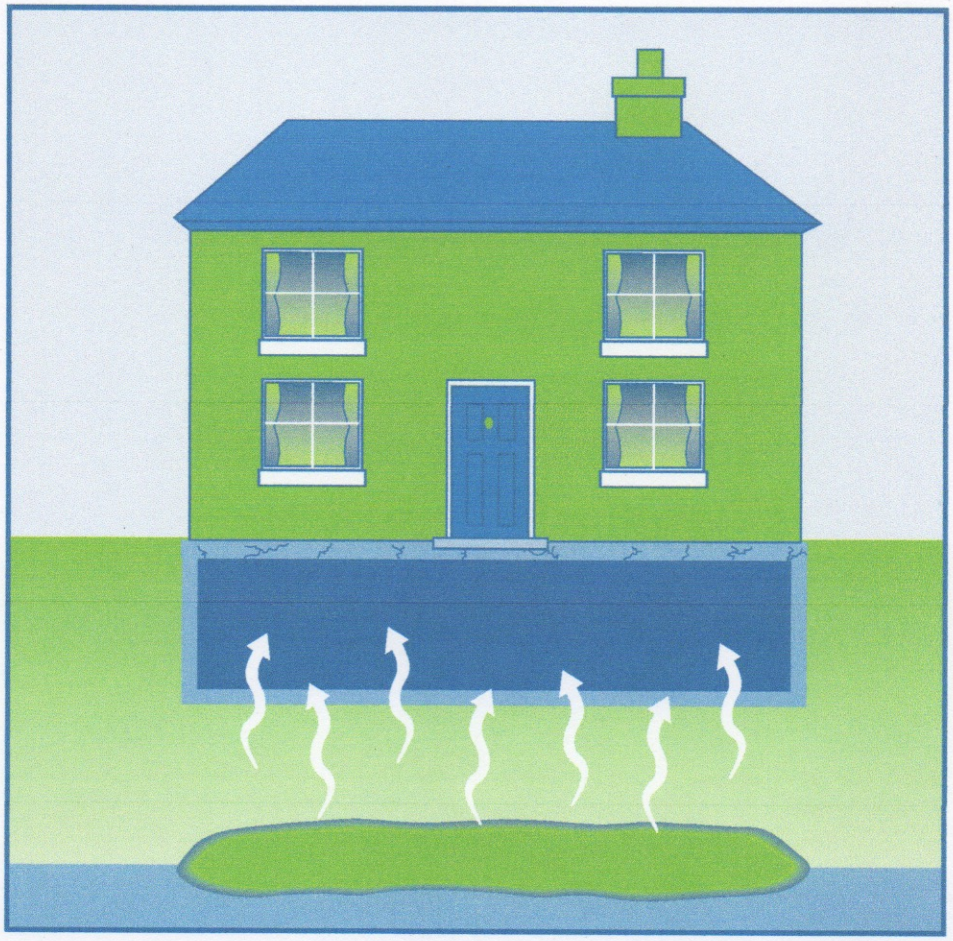
Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

VAPOR INTRUSION PATHWAY: A PRACTICAL GUIDELINE APPENDIX D.4.7

Technical and Regulatory Guidance

Vapor Intrusion Pathway: A Practical Guideline



January 2007

Prepared by
The Interstate Technology & Regulatory Council
Vapor Intrusion Team

Vapor Intrusion Pathway:
A Practical Guideline

January 2007

Prepared by
The Interstate Technology & Regulatory Council
Vapor Intrusion Team

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444 North Capitol Street, NW, Suite 445, Washington, DC 20001

system purge volumes are recommended as a minimum value. The dead volume of the sand pack should be purged if samples are collected within a few hours of installation. Larger purge volumes may result in a more integrated soil gas concentration under some conditions, providing the concentration versus purge volume is assessed using handheld meters (PID, flame ionization detector [FID], O_2, CO_2) or a mobile laboratory. If air rotary drilling is used to emplace the tubes, longer periods of time are required for the sand pack to equilibrate with the soil gas. API 2004 gives an equation to estimate the time required to reach steady state conditions. A test of concentration versus time can be used to determine when values stabilize.

D.4.5 Sample Volume and Purge Volume Tests

To reduce the uncertainty of where the soil gas sample is from and potential breakthrough from the surface, smaller volume samples (<1 L) and proper seals are recommended, especially for soil gas samples collected at shallow depths (<3 feet bgs or subslab). However, three recently published studies compared soil gas concentrations collected from volumes ranging 0.5–100 L (DiGiulio et. al. 2006a, McAlary and Creamer 2006, DiGiulio et. al. 2006b). The results of these studies, done in relatively course-grained soils, show no significant differences in concentrations. If the investigator is concerned about withdrawing larger (>3 L) sample volumes, a test of the sample concentration versus amount withdrawn might be appropriate to demonstrate there is no relationship between soil gas concentration and volume withdrawn. This can be done similar to the purge volume test described in the preceding paragraph.

D.4.6 Flow Rate and Vacuum

To minimize the potential desorption of contaminants from the soil, soil gas samples should be collected using techniques that minimize the vacuum applied to the soil. Higher vacuums also increase the potential for leaks in the sampling system. Most agencies are requiring flows less than 200 mL/min.

This conservative approach limiting flow rate may not be necessary in soils permeable enough to maintain vacuums less than 15% of atmospheric pressure (~5 inches of Hg, 60 inches of H_2O). A recent study by McAlary and Creamer (2006) actually measured soil gas concentrations over different flow rates ranging from 100 mL/min to 100 L/min at a hydrocarbon-contaminated site. They saw no significant difference in measured concentration. This study suggests that for relatively course-grained soils, flow rate does not appear to be an important variable on soil gas concentration.

D.4.7 Leak Tests

To ensure that valid soil gas samples are collected with no breakthrough of air down the probe rod or through leaks in the sampling train, a tracer compound may be applied at the base of the probe where it contacts the surface and near all connections in the sampling train. Connections can also be leak-tested using a "shut-in" test (API 2004). Seal integrity is then confirmed by analyzing collected soil gas samples for the tracer. Gaseous compounds (propane, butane, helium, SF_6) using shrouds or liquid compounds (isopropyl alcohol, pentane, freons) applied to towels are commonly used. Both types of tracers have pros and cons. Gaseous tracers offer some

advantages but are harder to use, especially to cover leakage in the sampling train. Helium offers a nice advantage in that it is readily measured on site with a field meter. Volatile liquid tracers offer logistical simplicity but are more qualitative. Liquid tracers are easily and quickly supplied at multiple locations (i.e., probe, sampling rod, sampling train, etc.) simultaneously. Liquid tracer methods are better suited for sampling through the probe rod since it can be applied to multiple leak points that may not be close to each other.

A small amount of tracer in a sample does not necessarily indicate an unreliable sample. Some agencies, such as the New York State Department of Environmental Conservation, allow tracer concentrations up to 10% of the starting concentration before considering the soil gas sample compromised. For gaseous tracers, the starting concentration is the measured concentration under the shroud. For liquid tracers, the starting concentration either is assumed as equal to the vapor pressure of the compound at ambient temperature or can be measured if on-site analysis is available. For liquid tracers such as isopropanol, a 10% leak would give a value in the sample of approximately 10,000 μg/L, assuming a starting concentration equivalent to its vapor pressure. To account for the possibility that the starting concentration is not equal to the vapor pressure, some agencies have established a specific concentration level, such as 100 μg/L, that can not be exceeded. This value corresponds to a 0.1% leak, assuming a starting concentration equal to the vapor pressure of the compound or a 1% leak if the starting concentration is only 10% of the vapor pressure, a conservative assumption. Table D-2 lists common tracers with their relative advantages and disadvantages.

Prevent Atmospheric Short-Circuiting

- Soil gas probes should be sealed above the sampling zone with a bentonite slurry for a minimum distance of 3 feet to prevent outdoor air infiltration and the remainder of the borehole backfilled with clean material.
- For multiple probe depths, the borehole should be grouted with bentonite between probes to create discrete sampling zones (Figure D-2) or separate nested probes should be installed.
- Set a protective casing around the top of the probe tubing and grout in place to the top of bentonite; slope the ground surface to direct water away from the borehole.

—from NYSDOH (2006) guidance

Table D-2. Common tracers

Tracer	Advantages	Disadvantages
Helium	• Can to check for leaks on site with handheld detector • Can quantify amount of leakage accurately • Does not interfere in TO-15 analysis	• Party-grade helium may have low ppbv VOC contamination • Process is more cumbersome than some others • Cannot be analyzed by TO-15 • Can be difficult to apply to sampling train connections
Liquid tracers	• Easy to use in identifying leaks • Can be detected by VOC analytical methods • Easier to apply to sampling train connections	• Concentration introduced to leak is estimated • Large leak may lead to VOC analysis interferences • No simple field screening method • May leave residual contamination on sampling train

Tracer	Advantages	Disadvantages
Sulfur hexafluoride	• Can check for leaks with on-site instrument with very low detection limits	• Very expensive • Field instrument subject to interference with chlorinated solvents • Cannot be analyzed by TO-15 • Is a greenhouse gas

D.4.8 Collection of Samples with Sampling Assemblies

Sampling assemblies (connecting tubing, fittings, gauges, flow controllers, etc.) should be ensured to be leak-tight using a shut-in test or tracer compound as described in the previous section and should be cleaned (and possibly blank-tested) between soil gas samples if reused. Sample tubing should generally not be reused.

D.4.9 Collection of Samples on Adsorbents

An alternative approach to collecting soil gas in a sample container is to concentrate the soil gas on an adsorbent. This type of method is required for SVOCs (generally compounds heavier than naphthalene). Typically, a pump is used to draw soil gas through the adsorbent, and the adsorbent is then analyzed by a laboratory. A variety of adsorbent cartridges and pumping systems are available from commercial vendors. All of the collection issues and criteria discussed in this section apply when using adsorbents. In addition, it is essential that the soil gas be drawn through the adsorbent by the pump, not pumped through the adsorbent to eliminate the chance for cross-contamination by the pump. It is often recommended to use two tubes in series to avoid breakthrough losses in areas of suspected higher concentrations. The adsorbent, purge rate, and sample volume must be determined by discussion with the analytical laboratory.

D.4.10 Variations in Soil Gas Values Due to Temporal Effects

Variations in soil gas concentrations due to temporal effects are principally due to temperature changes, precipitation, and activities within any overlying structure. Variations are greater in samples taken close to the surface and dampen with increasing depth. In 2006 there were a number of studies on temporal variation in soil gas concentrations, and more are under way or planned in 2007 by USEPA and independent groups. To date these studies have shown that short-term variations in soil gas concentrations at depths 4 feet or deeper are less than a factor of 2 and that seasonal variations in colder climates are less than a factor of 5 (Hartman 2006). Larger variations may be expected in areas of greater temperature variation and during heavy periods of precipitation, as described below.

IBM, Endicott, New York
Recent data from a large site in Endicott, New York collected over a 15-month period showed soil gas concentration variations of less that a factor of 2 at depths greater than 5 feet bgs.

- Temperature. Effects on soil gas concentrations due to actual changes in the vadose zone temperature are minimal. The bigger effect is due to changes in an overlying building's

GRIFFITH ENTERPRISES

SOIL AND GROUND WATER WASTE DISPOSAL MANIFESTS

COPY

North Carolina
Application for Provisional Identification Number

NCDENR

NC Department of Environment and Natural Resources
Division of Waste Management
Hazardous Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Please Refer to the instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act)

1. Reason for Submittal	Provisional EPA ID Number	N C P 0 6 0 3 1 5 1 0 0
2. Generator	Name of Company or Site: City of Winston-Salem (Generator Name)	924110 (NAICS Code Number)
3. Site Location	Physical Address (Not P.O. Box or Route Number): 820 East 25th Street (Street Name)	
	Winston-Salem (City)	Forsyth (County) / NC (State) / 27105 (Zip Code)
4. Site Mailing Address	P.O. or Route Number: P.O. Box 2511 (Street)	
	Winston-Salem (City)	NC (State) / 27102 (Zip Code)
5. Site Contact Information	Mr. Keith Huff (First and Last Name)	Stormwater/Erosion Control Director (Title)
	keithh1@cityofws.org (Email Address)	(336)747-6962 (Phone Number)
	101 N. Main Street, City Hall Room 54 (Mailing Address)	
	Winston-Salem (City)	NC (State) / 27101 (Zip Code)
6. Legal Owner of the site	City of Winston-Salem (Name of Legal Owner)	
	P.O. Box 2511 (Street Address)	
	Winston-Salem (City)	NC (State) / 27102 (Zip Code)
	(336)747-6962 (Phone Number)	

7. Operator Type	☐ Private ☐ Indian	☐ District ☒ Municipal	☐ County ☐ State	☐ Federal ☐ Other
8. Owner Type	☐ Private ☐ Indian	☐ District ☒ Municipal	☐ County ☐ State	☐ Federal ☐ Other

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net
NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 69026

GENERATOR INFORMATION

Generator: City of Winston-Salem

Phone: 336-747-6968

Site Address: 820 East 25th Street

City/State: Winston-Salem NC 27105

Contact: Andrew Allen

licensed Generator 6/15/15

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): _____

Material: Soil

Empty Weight (lbs): _____

Contaminant: None

Net Weight (lbs): _____

Quantity: 7

Tons (Drums) Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Evo Corporation

Phone: 336-725-5844

Truck #: 401

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: [signature]

Date: 6/15/15

FACILITY INFORMATION

Evo Project #: 061528

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature:

Date:

White/Facility | Canary/Invoice | Goldenrod/Generator | Pink/Carrier

Evo Corporation, 2008

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NCPD603151100
2. Page 1 of: 1
3. Emergency Response Phone: 336-747-6962
4. Manifest Tracking Number: 002795712 FLE

5. Generator's Name and Mailing Address: City of Winston-Salem PO Box 2511 Winston-Salem NC 27102

Generator's Site Address (if different than mailing address): 820 East 25th Street Winston-Salem NC 27105

Generator's Phone: 336-747-6962

6. Transporter 1 Company Name: EVO Corporation

U.S. EPA ID Number: NCD982114803

7. Transporter 2 Company Name:

U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Ecoflo NC 2750 Patterson St Greensboro NC 27401

U.S. EPA ID Number: NCD980842132

Facility's Phone: 336-855-7925

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, Hazardous Waste Liquids, N.O.S., 9, III (Acetone Trichloroethane)		DM		G	F002 F003 D022 D035
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: ECOFLO# 5DAHW-001 EVO# 061528

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

GENERATOR

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ANTHONY WRIGHT | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. | 2. | 3. | 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107
www.evocorp.net

NON-HAZARDOUS MATERIALS MANIFEST

Load # Manifest No. 69172

GENERATOR INFORMATION

Generator: City of Winston Salem Phone: 336 747 6968

Site Address: 820 East 25th Street

City/State: Winston-Salem NC 27105 Contact: Andrew Allen

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): Material: Soil

Empty Weight (lbs): Contaminant: None

Net Weight (lbs):

Quantity 5 Tons Drums Pails Sacs Yards Other:

TRANSPORTER INFORMATION

Transporter: Evo Corporation Phone: 336-725-5844

Truck #: 401 Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Date: 7/10/15

FACILITY INFORMATION

Evo Project #: 071524

EVO CORPORATION
1703 Vargrave Street
Winston-Salem, NC 27107

Phone: (336) 725-5844

Contact: Tony Disher

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Date: 7-10-15

White/Facility Canary/Invoice Goldenrod/Generator Pink/Carrier

Evo Corporation, 2008