July 2, 2012
Project DFW12028

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Trusted Environmental Advisors

City of Colleyville
100 Main Street
Colleyville, Texas 76034

Attention: Mr. Ron Ruthven
Phone: 817.503.1052
Email: rruthven@colleyville.com

Subject: Groundwater Quality Evaluation
Trinity Pad Site – Post-Hydraulic Fracturing Event No. 1
Colleyville, Tarrant County, Texas

Dear Mr. Ruthven:

Please find the attached Groundwater Quality Evaluation prepared on behalf of the City of Colleyville.

The report provides a comparison of selected groundwater quality parameters and analytical results from water wells within 2,000 feet of the pad site before and after drilling and limited hydraulic fracturing activities at the Trinity Pad Site.

Based on the results, the sampled water wells do not appear to exhibit evidence of impact from the drilling/hydraulic fracturing activities completed to date. However, if the sampled wells are anticipated to be used for potable purposes, additional pre-treatment should be considered in order to meet applicable regulatory goals. It is recommended that additional water well testing be conducted following future drilling/hydraulic activities in accordance with current municipal requirements. This will allow for the evaluation of changing trends that could indicate impact in the future.

We appreciate the opportunity to provide these services to you. Should you have any questions or comments regarding this report, please feel free to contact the undersigned.

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Texas Registered Geoscience Firm No. 50411

Kenneth S. Tramm, PhD, PG, CHMM
Senior Program Manager

GROUNDWATER QUALITY EVALUATION

Trinity Pad Site
Colleyville, Tarrant County, Texas
Post Hydraulic Fracturing Event No. 1

Project No. DFW12028
Report Date: July 2, 2012

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Prepared for:
City of Colleyville
100 Main Street
Colleyville, Texas 76034

GROUNDWATER QUALITY EVALUATION

Trinity Pad Site
Colleyville, Tarrant County, Texas
Post-Hydraulic Fracturing Event No. 1

Project No. DFW12028
Report Date: July 2, 2012

Prepared by:

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FIGURES

Figure 1- Site Map

APPENDIX

Laboratory Analytical Data Sheets and Chain of Custody Documentation

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GROUNDWATER QUALITY REPORT

TRINITY PAD SITE
COLLEYVILLE, TARRANT COUNTY, TEXAS

1 INTRODUCTION

This report provides a summary of post-fracturing groundwater quality sampling activities performed by Modern Geosciences, LLC (Modern) on behalf of the City of Colleyville (City). Sampling activities were performed at multiple water wells located in the vicinity of the Trinity Pad Site (Site) located at 7504 Pleasant Run Road, Colleyville, Texas. Chapter 3.1 of the City's Land Development Code requires that existing fresh water wells located within 2,000 feet of proposed natural gas wells be tested before and after each phase of drilling and fracturing. Pre-drilling water sampling was performed on nine (9) wells in late February and early March of 2011. Additionally, a water well installed adjacent to the pad site was tested on January 20, 2012. Drilling of natural gas wells was completed in July 2011, and the first phase of hydraulic fracturing was completed between January 30 and February 4, 2012. Post-hydraulic fracturing water sampling was performed on seven (7) water wells between March 26, 2012, and May 1, 2012, as access was granted.

The purpose of this study is to provide the City with a comparison of groundwater quality parameters from before and after selected stages of natural gas exploration and production (E&P) activities. Further details of the wells and sampling are provided below.

1.1 WELL LOCATION DESCRIPTIONS

Water well owners were contacted in an attempt to obtain access for sampling. Five (5) well owners representing seven (7) wells granted access for sampling. One well owner did not respond. The following section provides a brief description of each well included in the original sampling events.

Well A – Well A, owned by Mr. Bryant Thomason, is located approximately 1100' south/southwest of the Site at 7208 Pleasant Run Road, Colleyville, Texas. The well was completed on February 8, 2008, to a depth of 120 feet, with PVC screen from 45 to 65 feet and 85 to 105 feet. Well yield was reported to be 20 gallons per minute (gpm) with a static water

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level of approximately 42 feet below ground surface (bgs). The owner of Well A did not respond to multiple requests for access for the second event, and no post-fracturing groundwater samples were collected.

Well B – Well B, owned by Mr. Tom Risley, is located approximately 2100' south of the Site at 505 John McCain Road, Colleyville, Texas. The well was completed on November 26, 2009, to a depth of 745 feet, with torch slotted steel screening from 640 to 745 feet. Well yield was reported to be 25+ gpm with a static water level of approximately 590 feet bgs. Well B was sampled for this event.

Well C – Well C, owned by Trinity Broadcasting Network, is located approximately 1280' east/southeast of the Site at 7409 Pleasant Run Road, Colleyville, Texas. The well was completed on December 8, 2008, to a depth of 117 feet, with PVC screening from 48 to 78 feet and 98 to 108 feet. Well yield was reported to be 15 gpm with a static water level of approximately 38 feet bgs. Mr. Randy Moncrief, groundskeeper for Trinity Broadcasting Network, stated that Well C stopped producing water during the summer of 2011 and was no longer operational. No post-fracturing groundwater samples were collected.

Well D – Well D, owned by Trinity Broadcasting Network, is located approximately 1280' east/southeast of the Site at 7409 Pleasant Run Road, Colleyville, Texas. The well was completed on November 17, 2008, to a depth of 67 feet, with PVC screening from 27 to 47 feet and 56 to 66 feet. Well yield was reported to be 18 gpm with a static water level of approximately 19 feet bgs. Mr. Randy Moncrief, groundskeeper for Trinity Broadcasting Network, stated that Well D stopped producing water during the summer of 2011 and was no longer operational. No post-fracturing groundwater samples were collected.

Well E – Well E, owned by Trinity Broadcasting Network, is located approximately 1450' southeast of the Site at 7409 Pleasant Run Road, Colleyville, Texas. The well was completed on November 3, 2008, to a depth of 87 feet, with PVC screening from 20 to 60 feet and 70 to 82 feet. Well yield was reported to be 2 gpm with a static water level of approximately 19 feet bgs. Well E was sampled during this event.

Well F – Well F, owned by Mr. Doug Miller, is located approximately 1800' south/southeast of the Site at 7112 Pleasant Run Road, Colleyville, Texas. The well was completed on November

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24, 2005, to a depth of 130 feet, with PVC screening from 30 to 60 feet and 80 to 100 feet. Well yield was reported to be 18 gpm with a static water level of approximately 36 feet bgs. Well F was sampled during this event.

Well G – Well G, owned by Hills of Monticello Homeowner's Association, is located approximately 1800' west/southwest of the Site at 7600 Monticello Parkway, Colleyville, Texas. The well was completed on July 26, 2004, to a depth of 82 feet, with PVC screening from 20 to 52 feet and 62 to 80 feet. Well yield was reported to be 25 gpm with a static water level of approximately 14 feet bgs. Well G was sampled during this event.

Well H – Well H, owned by Trinity Broadcasting Network, is located approximately 1850' south/southwest of the Site at 406 John McCain Road, Colleyville, Texas. The well was completed on January 23, 2006, to a depth of 66 feet, with PVC screening from 30 to 60 feet. Well yield was reported to be 10 gpm with a static water level of approximately 31 feet bgs. Well H was sampled during this event.

Well I – Well I, owned by Trinity Broadcasting Network, is located approximately 1850' south/southwest of the Site at 406 John McCain Road, Colleyville, Texas. The well was completed on January 26, 2006, to a depth of 70 feet, with PVC screening from 28 to 68 feet. Well yield was reported to be 12 gpm with a static water level of approximately 28 feet bgs. Well I was sampled during this event.

Well J – Well J, owned by Hills of Monticello Homeowner's Association, is located approximately 1850' west of the Site at 7600 Monticello Parkway, Colleyville, Texas. Well J was not sampled during the pre-drilling investigation due to a reported lack of water. No groundwater samples were obtained in the post-fracturing sampling event.

Well K – Well K, owned by Titan Operating LLC, is located approximately 250' west/northwest of the Site at 7504 Pleasant Run Road, Colleyville, Texas. The well was completed on November 4, 2011, to a depth of 840 feet, with steel screening from 622 to 644 feet, 654 to 676 feet and 730 to 776 feet. Well yield was reported to be 105 gpm with a static water level of approximately 496 feet bgs. Well K was sampled during this event.

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2 SITE GEOLOGY/HYDROGEOLOGY

2.1 SITE TOPOGRAPHY AND GEOLOGY

According to the 2011 USGS Colleyville, Texas Topographic Quadrangle, the water wells are located at elevations ranging from approximately 600 to 640 feet above mean sea level (AMSL). The area has a gradient to the north towards Big Bear Creek.

According to the 1972 Bureau of Economic Geology *Geologic Atlas of Texas, Dallas Sheet*, the area in the vicinity of the water wells is underlain by the Woodbine Formation (Kwb) of Cretaceous age. The Woodbine Formation crops out at the surface in the City of Colleyville and descends southeasterly beneath the surface at a rate of approximately 35 feet per mile. It ranges in thickness from 175-250 feet and consists primarily of fine-grained sandstone with some interbedded clay and shale deposits.

2.2 SITE HYDROGEOLOGY

According to the Texas Water Development Board (TWDB) and driller's logs obtained from the sampled wells, the area in the vicinity of the wells is underlain by the Woodbine Aquifer (minor aquifer) beginning approximately 14 to 42 feet below ground surface (bgs) and the Paluxy Aquifer (major aquifer) beginning approximately 600 feet bgs.

Woodbine Formation

The Woodbine Formation is Cretaceous in geologic age and contains water-bearing sand and sandstone beds interbedded with shale and clay. These water-bearing zones comprise the Woodbine Aquifer that is recognized as a Minor Aquifer in the State of Texas. The formation and recharge zone crop out in the eastern portions of Tarrant County and continue to dip eastward until reaching a maximum depth of approximately 2,500 feet, with a regional dip to the southeast averaging 35 feet per mile. Water found within the aquifer varies significantly in productivity and quality, with the lower portions of the aquifer utilized for domestic and municipal water supplies. The upper portions of the aquifer generally yield water with highly elevated concentrations of iron that limit its use.

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Based on the available information, Well A and Well C through I appear to be screened within the Woodbine Formation.

Paluxy Aquifer

The Paluxy Formation is the upper member of the Trinity Group (Major Aquifer), cropping out west of the City of Colleyville in a north to south orientation in areas of Montague, Wise, Parker, western Tarrant, and Hood Counties. Composed of limestones, sands, gravels, clays, and conglomerates, it is separated from the lower member of the Trinity Group, the Twin Mountains Formation, by the Glen Rose Formation (an aquitard). The Paluxy Formation and Aquifer dip to the southeast where beneath the City of Colleyville they occur approximately 600 to 650 feet bgs. Aquifer recharge occurs from the leaching of surface water sources in the outcrop areas. The Paluxy Aquifer yields small to moderate amounts of fresh to slightly saline water used by municipalities, industries, and private residences.

Based on the available information, Well B and Well K appear to be screened within the Paluxy Aquifer.

Informational Sources included:

USGS Topographic Map(s) – Colleyville Quadrangle, 2010

Bureau of Economic Geology – Geologic Atlas of Texas Dallas Sheet, 1987

Texas Water Development Board – Aquifer Maps, various dates

Texas Department of Water Resources- "Occurrence, Availability, and Chemical Quality of Ground Water in the Cretaceous Aquifers of North-Central Texas"

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3 FIELD INVESTIGATION

Groundwater sampling activities were performed at seven (7) well sites: Well B, Well E, Well F, Well G, Well H, Well I, and Well K. Sampling methods and selected laboratory analyses are detailed below.

3.1 GROUNDWATER SAMPLING

Prior to sampling, water well pumps were engaged and allowed to run for a duration of at least thirty (30) minutes to flush standing water and allow collection of samples representative of general groundwater conditions. During purging, audio/visual/olfactory (AVO) evaluations of produced well water were made, and a four gas meter was used to test for the presence of hydrogen sulfide and methane from the water. Additionally, a photoionization detector (PID) was used to detect the presence of volatile organic compounds, and a hand-held water quality tester was used to measure pH, temperature, total dissolved solids (TDS), and electrical conductivity (EC). Samples were obtained from the water tap closest to the well, preceding any water treatment/filtration equipment. New dedicated nitrile gloves were used at each sampling point to prevent cross-contamination between wells. Below is a summary of well information and field observations made at the time of sampling.

Water well	Sample Date	Well Owner	Field Observations
Well B	3/26/2012	Mr. Tom Risley	Water was highly turbid during purging. No PID or four gas meter readings above ambient levels were recorded. No odors were noted. Water remained turbid during sampling. pH- 9.00; temperature- 25.0°C; TDS- 489 ppm; EC- 962 uS/cm
Well E	4/25/2012	Trinity Broadcasting Network	Water was clear during purging. No PID or four gas meter readings above ambient levels were recorded. No odors were noted. Water remained clear during sampling. pH- 7.38; temperature- 24.3°C; TDS- 301 ppm; EC- 751 uS/cm
Well F	4/03/2012	Mr. Doug Miller	Water was rust-colored during purging. No PID or four gas meter readings above ambient levels were recorded. No odors were noted. Water remained discolored during sampling. pH- 6.59; temperature- 22.5°C; TDS- 280 ppm; EC- 564 uS/cm
Well G	3/26/2012	Hills of Monticello HOA	Water was clear during purging. No PID or four gas meter readings above ambient levels were recorded. No odors were noted. Water remained clear during sampling. pH- 6.40; temperature- 22.2°C; TDS- 446 ppm; EC- 886 uS/cm

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Water well	Sample Date	Well Owner	Field Observations
Well H	5/01/2012	Trinity Broadcasting Network	Water was clear during purging. No PID or four gas meter readings above ambient levels were recorded. No odors were noted. Water remained clear during sampling. pH- 6.61; temperature- 22.8°C; TDS- 833 ppm; EC- 1672 uS/cm
Well I	5/01/2012	Trinity Broadcasting Network	Water was clear during purging. No PID or four gas meter readings above ambient levels were recorded. No odors were noted. Water remained clear during sampling. pH- 6.48; temperature- 22.0°C; TDS- 929 ppm; EC- 1851 uS/cm
Well K	4/03/2012	Titan Operating, LLC	Water was clear during purging. No PID or four gas meter readings above ambient levels were recorded. No odors were noted. Water remained clear during sampling. pH- 8.34; temperature- 25.8°C; TDS- 1885 ppm; EC- 3769 uS/cm

3.2 LABORATORY PROGRAM

Groundwater samples were collected in laboratory-supplied glassware and preserved in accordance with selected analytical methods. All sample containers were labeled with site-specific information and immediately stored on ice in a laboratory-provided ice chest. The samples were shipped under chain-of-custody documentation to ERMI/Pace Laboratories in Allen, Texas. The groundwater sample analysis included analysis of volatile organic compounds (VOCs) by EPA Method 8260B, total petroleum hydrocarbons (TPH) by TCEQ Method TX-1005, dissolved gases by Method RSK-175, methanol and glycols by EPA 8015B (mod), oil and grease by EPA Method 9070A, total suspended solids (TSS) by SM 2540D, hexavalent chromium by EPA Method 7196A, total dissolved solids (TDS) by SM 2540C, chloride and sulfates by EPA Method 9070A, pH by SM 4500H+B, bicarbonate alkalinity by SM 2320B, conductivity by EPA Method 9050A, turbidity by EPA Method 180.1 Rev2.0, methylene blue active substances (MBAS) by SM 5540C, sulfur by EPA 200.7, and metals by EPA 6010B and 7471A. The laboratory data sheets and chain of custody documentation are included in the Appendix.

The above laboratory program represents a more extensive set of analytes that expands upon the initial groundwater sampling effort.

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4 GROUNDWATER ANALYTICAL RESULTS

This section provides a summary of groundwater sample analytical results and, where available, applicable regulatory threshold values.

4.1 GROUNDWATER RESULTS

For discussion purposes, groundwater analytical results were compared to Residential Assessment Levels (RALs) established by the Texas Commission on Environmental Quality (TCEQ) under the Texas Risk Reduction Program (TRRP). RALs are concentrations of chemicals in an environmental medium (such as groundwater) that are protective of human health. Where no RALs have been established, groundwater analytical results were compared to the National Primary Drinking Water Regulations (NPDWR) set forth by the EPA regarding drinking water contaminants, where available. According to the EPA, "The NPDWRs are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water." Additionally, select results were compared to the National Secondary Drinking Water Regulations (NSDWR), or non-enforceable water quality standards, where available. The tabulated laboratory results and applicable action levels are provided in Tables 1-3 at the end of this report. Additionally, tabulated laboratory results for pre-hydraulic fracturing sampling and post-hydraulic fracturing sampling for each well are provided in Tables 4-24.

It should be noted that the above criteria are offered for comparison purposes only as none of the tested wells are utilized for potable purposes.

Water Quality Parameters

The groundwater samples collected from Well B, Well E, Well F, Well G, Well H, Well I, and Well K were evaluated for the following water quality parameters: total dissolved solids (TDS), total suspended solids (TSS), total chloride, total sulfate, pH, bicarbonate alkalinity, conductivity, turbidity, methylene blue active substances (MBAS), and sulfur. Groundwater samples exhibited conductivity readings of 329-3590 uS/cm, chloride concentrations of 10.5-303 mg/L, sulfate concentrations of 11.7-1350 mg/L, bicarbonate alkalinity readings of 110-392 mg $CaCO_3$/L,, TDS concentrations of 180-2600 mg/L, TSS concentrations of 5.7-364 mg/L, pH readings of 6.1-8.8, MBAS concentrations of 0.107-0.145 mg/L, turbidity readings of 0.78-90

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NTU, and sulfur concentrations of 4.28-481 mg/L. Hexavalent chromium and oil/grease in groundwater samples were not detected above laboratory method detection limits.

The chloride NSDWR of 250 mg/L was exceeded by samples collected from Well H (258 mg/L), and Well I (303 mg/L). The sulfate NSDWR of 250 mg/L was exceeded by samples collected from Well K (1350 mg/L). The TDS NPDWR of 500 mg/L was exceeded by samples collected from Well G (514 mg/L), Well H (944 mg/L), Well I (1050 mg/L), and Well K (2600 mg/L). The pH NSDWR of 6.5-8.5 was exceeded by samples collected from Well B (8.8), Well F (6.1), Well G (6.2), and Well H (6.4). The turbidity NPDWR of 5 NTU was exceeded by samples collected from Well B (84 NTU), Well E (8.3 NTU), and Well F (90 NTU). No RAL, NPDWR, or NSDWR has been established for conductivity, bicarbonate alkalinity, TSS, or sulfur. These parameters are included for sample comparison purposes in the future.

Metals

The groundwater samples collected from Well B, Well E, Well F, Well G, Well H, Well I, and Well K were evaluated for the following metals: arsenic, barium, cadmium, calcium, chromium, iron, lead, magnesium, manganese, potassium, selenium, silver, sodium, strontium, and mercury. Groundwater samples exhibited barium concentrations of 0.002-0.036 mg/L, cadmium concentrations of 0.0006 mg/L, calcium concentrations of 7.47-92.3 mg/L, chromium concentrations of 0.003-0.048 mg/L, iron concentrations of 0.03-17.8 mg/L, lead concentrations of 0.002-0.016 mg/L, magnesium concentrations of 2.23-27.7 mg/L, manganese concentrations of 0.005-1.56 mg/L, potassium concentrations of 1.04-6.06 mg/L, selenium concentrations of 0.003 mg/L , sodium concentrations of 41.3-847 mg/L, strontium concentrations of 0.174-1.7 mg/L , and mercury concentrations of 0.00013 mg/L. Arsenic and silver in groundwater samples were not detected above laboratory method detection limits.

The iron NSDWR of .3 mg/L was exceeded by samples collected from Well E (2.72 mg/L), Well F (17.8 mg/L), Well G (3.86 mg/L), Well H (5.16 mg/L), Well I (9.11 mg/L), and Well K (1.29 mg/L). The lead RAL of 0.015 mg/L was exceeded by samples collected from Well G (0.016 mg/L). The manganese RAL of 1.1 mg/L was exceeded by samples collected from Well F (1.56 mg/L) and Well H (1.46 mg/L). The strontium RAL of 1.5 mg/L was exceeded by samples collected from Well K (1.7 mg/L). No RAL, NPDWR, or NSDWR has been established for calcium, magnesium, potassium, or sodium.

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Volatile Organic Compounds (VOCs)

The groundwater samples collected from Well B, Well E, Well F, Well G, Well H, Well I, and Well K were evaluated for 57 VOC compounds. Groundwater samples exhibited a 1,1,1-trichloroethane concentration of 0.00139 mg/L and 1,1-dichloroethene concentrations of 0.00139-0.00151 mg/L. All VOC concentrations were below RALs.

Total Petroleum Hydrocarbons (TPH)

The groundwater samples collected from Well B, Well E, Well F, Well G, Well H, Well I, and Well K did not exhibit TPH concentrations above laboratory method detection limits.

Methane, Ethane, and Ethene (RSK-175)

The groundwater samples collected from Well B, Well E, Well F, Well G, Well H, Well I, and Well K were evaluated for methane, ethane, and ethene. Groundwater samples exhibited methane concentrations of 0.0082-0.064 mg/L. None of the groundwater samples exhibited ethane or ethene concentrations above laboratory method detection limits. No RAL, NPDWR, or NSDWR has been established for methane, ethane, or ethene.

Methanol, Glycols (8015B)

The groundwater samples collected from Well B, Well E, Well F, Well G, Well H, Well I, and Well K were evaluated for methanol, ethylene glycol, and propylene glycol. Groundwater samples did not exhibit methanol or glycol concentrations above laboratory method detection limits.

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5 DATA EVALUATION

5.1 CURRENT DATA

The current sampling results do not indicate issues for continued non-potable use of the water wells. If potable use is contemplated, additional treatment systems should be considered to meet appropriate regulatory goals.

Of note in the current data is that the highest TDS, methane, sulfur, sulfate, potassium, sodium and strontium were recorded at the well closest to the pad site both before and after the drilling/fracturing event. Due to the high heterogeneity within area geology and unique screened intervals, this may be a result of water well completion and hydrogeological conditions and not an indication of impact from E&P activities, as evidenced by concentrations prior to drilling of the gas wells. For additional information on the individual well monitoring results, please refer to Section 5.2.

5.2 INDIVIDUAL WELL EVALUATIONS

Many of the monitored parameters are anticipated to fluctuate within wells for a variety of reasons. The following individual evaluations are provided to allow the review of trends or indicators that could suggest that impact from E&P activities may be occurring. Determination of a trend will require more data collection events over time.

5.2.1 Well B (Paluxy)

Tables 4 through 6 provide a comparison of individual parameters before and after the drilling and hydraulic fracturing event. Changes included an increase in chlorides, methane and strontium. A decrease was noted in TDS, pH, barium, and sodium. Additionally, estimated values of 1,1,1-trichloroethane and 1,1-dichloroethene were noted. Both of these compounds are commonly noted from laboratory interference at the low concentrations observed.

5.2.2 Well E (Woodbine)

Tables 7 through 9 provide a comparison of individual parameters before and after the drilling and hydraulic fracturing event. Changes included an increase in barium and strontium. A decrease was noted in chloride, TDS, pH, sodium, and methane.

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5.2.3 Well F (Woodbine)

Tables 10 through 12 provide a comparison of individual parameters before and after the drilling and hydraulic fracturing event. Changes included an increase in chloride, TDS, sodium, and strontium. A decrease was noted in pH and barium.

5.2.4 Well G (Woodbine)

Tables 13 through 15 provide a comparison of individual parameters before and after the drilling and hydraulic fracturing event. Changes included an increase in TDS, barium and sodium. A decrease was noted in chloride, pH, strontium, and ethylene glycol. Additionally, an estimated value of 1,1-dichloroethene was noted below the laboratory method reporting limit.

5.2.5 Well H (Woodbine)

Tables 16 through 18 provide a comparison of individual parameters before and after the drilling and hydraulic fracturing event. Changes included an increase in chloride, TDS, barium, sodium, strontium, and methane. A decrease was noted in pH.

5.2.6 Well I (Woodbine)

Tables 19 through 21 provide a comparison of individual parameters before and after the drilling and hydraulic fracturing event. Changes included an increase in methane. A decrease was noted in chloride, TDS, pH, barium, sodium, and strontium.

5.2.7 Well K (Paluxy)

Tables 22 through 24 provide a comparison of individual parameters before and after the drilling and hydraulic fracturing event. Changes included an increase in chloride, pH, turbidity, iron, magnesium, potassium, strontium, and methane. A decrease was noted in conductivity, sulfate, alkalinity, TDS, barium, calcium, lead, manganese, and sodium.

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6 FINDINGS AND RECOMMENDATIONS

Modern has developed the following based on this investigation:

- The results of this study provide a comparison of selected groundwater quality parameters, metals concentrations, and organic compound concentrations before and after drilling and limited fracturing activities at the Trinity Pad Site.
- Based on the results of this study, the sampled water wells within 2,000 feet of the Trinity Pad Site do not appear to exhibit evidence of impact from the drilling or hydraulic fracturing activities completed to date.
- If the wells sampled in this study are anticipated to be used for potable purposes, additional sampling and/or pre-treatment should be considered to meet applicable regulatory goals.
- Additional testing following future E&P activities is recommended in accordance with current municipal requirements. The collection of additional data may allow the determination of trends or determination of future impact, if these occur.

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7 ACRONYMS

A listing of common acronyms associated with subsurface investigation activities has been provided to aid the presentation of our findings. Additional acronyms may be defined within the text of this report.

AMSL	Above Mean Sea Level
AVO	Audio/Visual/Olfactory
BGS	Below Grade Surface
COC	Chemical of Concern
EC	Electrical Conductivity
ESA	Environmental Site Assessment
FID	Flame Ionization Detector
GPM	Gallons Per Minute
HASP	Health And Safety Plan
IDW	Investigation-Derived Waste
IOP	TCEQ Innocent Owner / Operator Program
MBAS	Methylene Blue Active Substances
Modern	Modern Geosciences, LLC
MSW	Municipal Solid Waste
MW	Monitor Well
NPDWR	National Primary Drinking Water Regulations
NSDWR	National Secondary Drinking Water Regulations
NTU	Nephelometric Turbidity Unit
PCL	Protective Concentration Level
PID	Photo Ionization Detector
PVC	Polyvinyl chloride
RAL	Residential Assessment Level
RCRA	Resource Conservation and Recovery Act
SQG	Small Quantity Generators List
TCEQ	Texas Commission on Environmental Quality
TDS	Total Dissolved Solids
TPH	Total Petroleum Hydrocarbons
TRRP	Texas Risk Reduction Program
TSS	Total Suspended Solids
TWDB	Texas Water Development Board
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VCP	Voluntary Cleanup Program
VOCs	Volatile Organic Compounds

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TABLES

TABLES 1-3: CURRENT GROUNDWATER RESULTS (ALL WELLS)
TABLES 4-6: GROUNDWATER RESULTS- WELL B
TABLES 7-9: GROUNDWATER RESULTS- WELL E
TABLES 10-12: GROUNDWATER RESULTS- WELL F
TABLES 13-15: GROUNDWATER RESULTS- WELL G
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TABLES 22-24: GROUNDWATER RESULTS- WELL K

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Table 1: Groundwater Results - Water Quality Parameters

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:	Well B 3/26/2012			Well E 4/25/2012			Well F 4/3/2012			Well G 3/26/2012			Well H 5/1/2012			Well I 5/1/2012			Well K 4/3/2012		
Compound	**CAS**	**NDWR**	**Max**	**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**	
Hexavalent Chromium	18540-29-9	NL	**0**	0.005	**ND**		0.005	**ND**		0.005	**ND**		0.005	**ND**		0.005	**ND**		0.005	**ND**		0.005	**ND**	
Conductivity (uS/cm)	NL	NL	**3590**	1	**827**		1.00	**329**		1	**525**		1	**745**		1.00	**1560**		1.00	**1780**		1	**3590**	
Chloride	16887-00-6	250	**303**	0.05	**10.5**	R-01	0.050	**17.5**	R-01	0.05	**67.6**	R-01	0.05	**79.2**	R-01	50.0	**258**		50.0	**303**		0.05	**77.4**	R-01
Sulfate	14808-79-8	250	**1350**	0.36	**67.8**	R-01	0.360	**11.7**	R-01	0.36	**39.6**	R-01	0.36	**79**	R-01	20.0	**173**		20.0	**201**		0.36	**1350**	R-01
Oil and Grease	C-007	NL	**0**	1	**ND**		1.00	**ND**		1.07	**ND**		1	**ND**		1	**ND**		0.93	**ND**		1	**ND**	
Bicarbonate Alkalinity (mg $CaCO_3$/L)	71-52-3	NL	**392**	20	**350**		20.0	**124**		20	**110**		20	**196**		20	**194**		20.0	**206**		20	**392**	
Total Dissolved Solids	WC-70300	500	**2600**	5.07	**467**		5.07	**180**		5.07	**310**		5.07	**514**	Q-26	5.07	**944**	Q-18	5.07	**1050**	Q-18	5.07	**2600**	
Total Suspended Solids	NL	NL	**364**	2.63	**364**	R-01	2.50	**5.7**		5	**46**	R-01	9.26	**ND**		2.63	**ND**		2.50	**ND**		2.63	**ND**	
pH	WC-00403	6.5-8.5	**8.8**	0.1	**8.8**	S-06	0.1	**6.6**	S-06	0.1	**6.1**	S-06	0.1	**6.2**	S-06	0.1	**6.4**	S-06	0.1	**6.5**	S-06	0.1	**8.1**	S-06
Methylene Blue Active Substances [1]	NL	0.5	**0.145**	0.073	**ND**		0.073	**ND**		0.073	**ND**		0.073	**ND**		0.073	**0.145**	J	0.073	**0.107**	J	0.073	**ND**	
Turbidity (NTU)	NL	5	**90**	1.5	**84**		0.50	**8.3**		2	**90**		0.5	**0.78**		0.50	**1.9**		0.50	**2.3**		0.50	**7.4**	
Sulfur	7704-34-9	NL	**481**	2.5	**23.3**		0.25	**4.28**		10	**18.7**		2.5	**23.3**		5	**68.1**		5	**77.2**		10	**481**	

Table 2: Groundwater Results- Metals

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:	Well B 3/26/2012			Well E 4/25/2012			Well F 4/3/2012			Well G 3/26/2012			Well H 5/1/2012			Well I 5/1/2012			Well K 4/3/2012		
Compound	**CAS**	**RAL**	**Max**	**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**		**SDL**	**Result**	
Arsenic	7440-38-2	0.01	**0**	0.01	**ND**		0.01	**ND**		0.01	**ND**		0.01	**ND**		0.01	**ND**		0.01	**ND**		0.01	**ND**	
Barium	7440-39-3	2.0	**0.036**	0.0002	**0.002**		0.0002	**0.006**		0.0002	**0.016**		0.0002	**0.016**		0.0002	**0.029**		0.0002	**0.036**		0.0002	**0.013**	
Cadmium	7440-43-9	0.005	**0.0006**	0.0003	**ND**		0.0003	**ND**		0.0003	**ND**		0.0003	**ND**		0.0003	**0.0006**	J	0.0003	**ND**		0.0003	**ND**	
Calcium	7440-70-2	NL	**92.3**	0.11	**37.5**		0.11	**20.3**		0.11	**29.4**		0.11	**7.47**		0.11	**92.3**		0.11	**83.4**		0.11	**11.8**	
Chromium	7440-47-3	0.10	**0.048**	0.001	**ND**		0.001	**ND**		0.001	**0.003**		0.001	**0.048**		0.001	**ND**		0.001	**ND**		0.001	**ND**	
Iron [2]	7439-89-6	0.3	**17.8**	0.01	**0.03**	J	0.01	**2.72**		0.01	**17.8**		0.01	**3.86**		0.01	**5.16**		0.01	**9.11**		0.01	**1.29**	
Lead	7439-92-1	0.015	**0.016**	0.001	**0.006**		0.001	**0.012**		0.001	**0.007**		0.001	**0.016**		0.001	**0.002**		0.001	**0.002**		0.001	**0.002**	
Magnesium	7439-95-4	NL	**27.7**	0.005	**10.1**		0.005	**5.77**		0.005	**11.7**		0.005	**2.23**		0.005	**25.7**		0.005	**27.7**	Q-21	0.005	**10.6**	
Manganese	7439-96-5	1.1	**1.56**	0.0002	**0.005**		0.0002	**0.118**		0.002	**1.56**		0.0002	**0.03**		0.0002	**1.46**		0.0002	**0.741**		0.0002	**0.019**	
Potassium	7440-09-7	NL	**6.06**	0.217	**1.04**		0.217	**2.02**		0.217	**2.3**		0.217	**2.33**		0.217	**1.43**		0.217	**2.19**		0.217	**6.06**	Q-20
Selenium	7782-49-2	0.05	**0.003**	0.003	**0.003**	J	0.003	**ND**		0.003	**ND**		0.003	**ND**		0.003	**ND**		0.003	**ND**		0.003	**ND**	
Silver	7440-22-4	0.12	**0**	0.001	**ND**		0.001	**ND**		0.001	**ND**		0.001	**ND**		0.001	**ND**		0.001	**ND**		0.001	**ND**	
Sodium	7440-23-5	NL	**847**	0.17	**114**		0.17	**41.3**		0.17	**56.2**		0.17	**198**		0.17	**183**		0.17	**231**	Q-21	0.17	**847**	Q-21
Strontium	7440-24-6	1.5	**1.7**	0.0003	**0.401**		0.0003	**0.515**		0.0003	**0.33**		0.0003	**0.174**		0.0003	**0.818**		0.0003	**0.998**		0.0003	**1.7**	Q-21
Mercury	7439-97-6	0.0078	**0.00013**	0.00004	**ND**		0.00004	**ND**		0.00004	**0.00013**	J	0.00004	**ND**	Q-22	0.00004	**ND**		0.00004	**ND**		0.00004	**ND**	

Remarks:

All concentrations in mg/L unless otherwise noted

NDWR= National Drinking Water Regulation; RAL = Residential Assessment Level (Applicable TRRP Critical PCL); TRRP PCLs Published: May 2011

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance

1- value listed for foaming agents; 2- NDWR value

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Table 3: Groundwater Results- Organic Compounds

Trinity Pad Site			Sample Point:	Well B		Well E		Well F		Well G		Well H		Well I		Well K	
Colleyville, Texas			Sample Date:	3/26/2012		4/25/2012		4/3/2012		3/26/2012		5/1/2012		5/1/2012		4/3/2012	
Compound	**CAS**	**RAL**	**Max**	**SDL**	**Result**	**SDL**	**Result**	**SDL**	**Result**	**SDL**	**Result**	**SDL**	**Result**	**SDL**	**Result**	**SDL**	**Result**
VOLATILE ORGANIC COMPOUNDS																	
1,1,1,2-Tetrachloroethane	630-20-6	0.035	**0**	0.00086	**ND**	0.00086	**ND**	0.00086	**ND**	0.00086	**ND**	0.00086	**ND**	0.00086	**ND**	0.00086	**ND**
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	0.2	**0.00139**	0.00098	**0.00139** J	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	**0**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**
1,1,2-Trichloroethane	79-00-5	0.005	**0**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**
1,1-Dichloroethane	75-34-3	4.9	**0**	0.00057	**ND**	0.00057	**ND**	0.00057	**ND**	0.00057	**ND**	0.00057	**ND**	0.00057	**ND**	0.00057	**ND**
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	0.007	**0.00151**	0.00037	**0.00139** J	0.00037	**ND**	0.00037	**ND**	0.00037	**0.00151** J	0.00037	**ND**	0.00037	**ND**	0.00037	**ND**
1,1-Dichloropropene	563-58-6	0.0091	**0**	0.00105	**ND**	0.00105	**ND**	0.00105	**ND**	0.00105	**ND**	0.00105	**ND**	0.00105	**ND**	0.00105	**ND**
1,2,3-Trichlorobenzene	87-61-6	0.073	**0**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**
1,2,3-Trichloropropane	96-18-4	0.00003	**0**	0.0006	**ND**	0.0006	**ND**	0.0006	**ND**	0.0006	**ND**	0.0006	**ND**	0.0006	**ND**	0.0006	**ND**
1,2,4-Trichlorobenzene	120-82-1	0.07	**0**	0.0009	**ND**	0.0009	**ND**	0.0009	**ND**	0.0009	**ND**	0.0009	**ND**	0.0009	**ND**	0.0009	**ND**
1,2,4-Trimethylbenzene	95-63-6	1.2	**0**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.0002	**0**	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**	0.00098	**ND**
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00005	**0**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**
1,2-Dichlorobenzene	95-50-1	0.6	**0**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	0.005	**0**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**	0.0004	**ND**
1,2-Dichloropropane (Propylene Dichloride)	78-87-5	0.005	**0**	0.00036	**ND**	0.00036	**ND**	0.00036	**ND**	0.00036	**ND**	0.00036	**ND**	0.00036	**ND**	0.00036	**ND**
1,3,5-Trimethylbenzene	108-67-8	1.2	**0**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**
1,3-Dichlorobenzene	541-73-1	0.733	**0**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**
1,3-Dichloropropane	142-28-9	0.009	**0**	0.0007	**ND**	0.0007	**ND**	0.0007	**ND**	0.0007	**ND**	0.0007	**ND**	0.0007	**ND**	0.0007	**ND**
1,4-Dichlorobenzene	106-46-7	0.075	**0**	0.00038	**ND**	0.00038	**ND**	0.00038	**ND**	0.00038	**ND**	0.00038	**ND**	0.00038	**ND**	0.00038	**ND**
2,2-Dichloropropane	594-20-7	0.013	**0**	0.00126	**ND**	0.00126	**ND**	0.00126	**ND**	0.00126	**ND**	0.00126	**ND**	0.00126	**ND**	0.00126	**ND**
2-Chlorotoluene	95-49-8	0.489	**0**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**
4-Chlorotoluene	106-43-4	0.489	**0**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**	0.00055	**ND**
Benzene	71-43-2	0.005	**0**	0.00062	**ND**	0.00062	**ND**	0.00062	**ND**	0.00062	**ND**	0.00062	**ND**	0.00062	**ND**	0.00062	**ND**
Bromobenzene	108-86-1	0.196	**0**	0.00075	**ND**	0.00075	**ND**	0.00075	**ND**	0.00075	**ND**	0.00075	**ND**	0.00075	**ND**	0.00075	**ND**
Bromochloromethane	74-97-5	0.978	**0**	0.00052	**ND**	0.00052	**ND**	0.00052	**ND**	0.00052	**ND**	0.00052	**ND**	0.00052	**ND**	0.00052	**ND**
Bromodichloromethane	75-27-4	0.015	**0**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**	0.00033	**ND**
Bromoform (Tribromomethane)	75-25-2	0.116	**0**	0.00069	**ND**	0.00069	**ND**	0.00069	**ND**	0.00069	**ND**	0.00069	**ND**	0.00069	**ND**	0.00069	**ND**
Bromomethane (Methyl Bromide)	74-83-9	0.034	**0**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**
Carbon Tetrachloride	56-23-5	0.005	**0**	0.00147	**ND**	0.00147	**ND**	0.00147	**ND**	0.00147	**ND**	0.00147	**ND**	0.00147	**ND**	0.00147	**ND**
Chlorobenzene	108-90-7	0.1	**0**	0.00053	**ND**	0.00053	**ND**	0.00053	**ND**	0.00053	**ND**	0.00053	**ND**	0.00053	**ND**	0.00053	**ND**
Chloroethane (Ethyl Chloride)	75-00-3	9.78	**0**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**	0.00056	**ND**
Chloroform	67-66-3	0.244	**0**	0.00051	**ND**	0.00051	**ND**	0.00051	**ND**	0.00051	**ND**	0.00051	**ND**	0.00051	**ND**	0.00051	**ND**
Chloromethane (Methyl Chloride)	74-87-3	0.07	**0**	0.00167	**ND**	0.00167	**ND**	0.00167	**ND**	0.00167	**ND**	0.00167	**ND**	0.00167	**ND**	0.00167	**ND**
cis-1,2-Dichloroethene	156-59-2	0.07	**0**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**
Dibromochloromethane	124-48-1	0.011	**0**	0.00047	**ND**	0.00047	**ND**	0.00047	**ND**	0.00047	**ND**	0.00047	**ND**	0.00047	**ND**	0.00047	**ND**
Dichlorodifluoromethane	75-71-8	4.89	**0**	0.00058	**ND**	0.00058	**ND**	0.00058	**ND**	0.00058	**ND**	0.00058	**ND**	0.00058	**ND**	0.00058	**ND**
Ethyl Benzene	100-41-4	0.7	**0**	0.00067	**ND**	0.00067	**ND**	0.00067	**ND**	0.00067	**ND**	0.00067	**ND**	0.00067	**ND**	0.00067	**ND**
Hexachlorobutadiene	87-68-3	0.012	**0**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**	0.00096	**ND**
Isopropylbenzene (Cumene)	98-82-8	2.44	**0**	0.00108	**ND**	0.00108	**ND**	0.00108	**ND**	0.00108	**ND**	0.00108	**ND**	0.00108	**ND**	0.00108	**ND**
Methyl tert butyl ether (MTBE)	1634-04-4	0.244	**0**	0.00037	**ND**	0.00037	**ND**	0.00037	**ND**	0.00037	**ND**	0.00037	**ND**	0.00037	**ND**	0.00037	**ND**
Methylene Bromide (Dibromomethane)	74-95-3	0.122	**0**	0.0005	**ND**	0.0005	**ND**	0.0005	**ND**	0.0005	**ND**	0.0005	**ND**	0.0005	**ND**	0.0005	**ND**
Methylene Chloride (Dichloromethane)	75-09-2	0.005	**0**	0.003	**ND**	0.003	**ND**	0.003	**ND**	0.003	**ND**	0.003	**ND**	0.003	**ND**	0.003	**ND**
Naphthalene	91-20-3	0.489	**0**	0.001	**ND**	0.001	**ND**	0.001	**ND**	0.001	**ND**	0.001	**ND**	0.001	**ND**	0.001	**ND**
n-Butylbenzene	104-51-8	1.22	**0**	0.00068	**ND**	0.00068	**ND**	0.00068	**ND**	0.00068	**ND**	0.00068	**ND**	0.00068	**ND**	0.00068	**ND**
n-Propylbenzene	103-65-1	0.978	**0**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**	0.00084	**ND**
p-Isopropyltoluene	99-87-6	2.44	**0**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**
sec-Butylbenzene	135-98-8	0.978	**0**	0.00089	**ND**	0.00089	**ND**	0.00089	**ND**	0.00089	**ND**	0.00089	**ND**	0.00089	**ND**	0.00089	**ND**
Styrene	100-42-5	0.1	**0**	0.00114	**ND**	0.00114	**ND**	0.00114	**ND**	0.00114	**ND**	0.00114	**ND**	0.00114	**ND**	0.00114	**ND**
tert-Butylbenzene	98-06-6	0.978	**0**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**	0.00035	**ND**
Tetrachloroethene (Perchloroethylene)	127-18-4	0.005	**0**	0.00141	**ND**	0.00141	**ND**	0.00141	**ND**	0.00141	**ND**	0.00141	**ND**	0.00141	**ND**	0.00141	**ND**
Toluene	108-88-3	1	**0**	0.00054	**ND**	0.00054	**ND**	0.00054	**ND**	0.00054	**ND**	0.00054	**ND**	0.00054	**ND**	0.00054	**ND**
trans-1,2-Dichloroethene	156-60-5	0.1	**0**	0.00092	**ND**	0.00092	**ND**	0.00092	**ND**	0.00092	**ND**	0.00092	**ND**	0.00092	**ND**	0.00092	**ND**
Trichloroethene (Trichloroethylene)	79-01-6	0.005	**0**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**	0.00039	**ND**
Trichlorofluoromethane	75-69-4	7.33	**0**	0.00044	**ND**	0.00044	**ND**	0.00044	**ND**	0.00044	**ND**	0.00044	**ND**	0.00044	**ND**	0.00044	**ND**
Vinyl Chloride	75-01-4	0.002	**0**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**	0.00045	**ND**
Xylenes (total)	1330-20-7	10	**0**	0.00154	**ND**	0.00154	**ND**	0.00154	**ND**	0.00154	**ND**	0.00154	**ND**	0.00154	**ND**	0.00154	**ND**
TOTAL PETROLEUM HYDROCARBONS																	
TPH (C6 - C12)	NA	0.98	0	0.533	**ND**	0.525	**ND**	1.64	**ND**	0.606	**ND**	0.533	**ND**	0.519	**ND**	1.78	**ND**
TPH (C12 - C28)	NA	0.98	**0**	0.462	**ND**	0.202	**ND**	0.199	**ND**	0.233	**ND**	0.462	**ND**	0.450	**ND**	0.217	**ND**
TPH (C28 - C35)	NA	0.98	**0**	0.061	**ND**	0.06	**ND**	0.06	**ND**	0.07	**ND**	0.533	**ND**	0.519	**ND**	0.065	**ND**
TPH Total (C6 - C35)	NA	0.98	**0**	0.785	**ND**	0.774	**ND**	1.64	**ND**	0.894	**ND**	0.786	**ND**	0.765	**ND**	1.78	**ND**
DISSOLVED GASES																	
Methane	74-82-8	NL	**0.064**	0.00069	**0.0082**	0.00069	**ND**	0.00069	**ND**	0.00069	**ND**	0.00069	**0.0246**	0.00069	**0.0112**	0.00069	**0.064**
Ethane	74-84-0	NL	**0**	0.0062	**ND**	0.0031	**ND**	0.0062	**ND**	0.0062	**ND**	0.0031	**ND**	0.0031	**ND**	0.0062	**ND**
Ethene	74-85-1	NL	**0**	0.0062	**ND**	0.0031	**ND**	0.0062	**ND**	0.0062	**ND**	0.0031	**ND**	0.0031	**ND**	0.0062	**ND**
METHANOL AND GLYCOLS																	
Methanol	67-56-1	12	**0**	2.84	**ND**	2.84	**ND**	10.0	**ND**	2.84	**ND**	2.84	**ND**	2.84	**ND**	10.0	**ND**
Ethylene Glycol	107-21-1	49	**0**	25	**ND**	25.0	**ND**	25.0	**ND**	25.0	**ND**	25.0	**ND**	25.0	**ND**	25.0	**ND**
Propylene Glycol	57-55-6	490	**0**	25	**ND**	25.0	**ND**	25.0	**ND**	25.0	**ND**	25.0	**ND**	25.0	**ND**	25.0	**ND**

Remarks:

All concentrations in mg/L

RAL = Residential Assessment Level (Applicable TRRP Critical PCL); TRRP PCLs Published: May 2011

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance

Please see laboratory data sheets for additional detail

Table 4: Groundwater Results - Water Quality Parameters (Well B)

Trinity Pad Site					Sample Point:	Well B		Well B	
Colleyville, Texas					Sample Date:	2/22/2011		3/26/2012	
Compound	**CAS**	**NDWR**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
Hexavalent Chromium	18540-29-9	NL	**0**			**NT**		0.005	**ND**	
Conductivity (uS/cm)	NL	NL	**827**			**NT**		1.00	**827**	
Chloride	16887-00-6	250	**10.5**	**6.00**	0.38	**1.5**		0.05	**10.5**	R-01
Sulfate	14808-79-8	250	**67.8**			**NT**		0.36	**67.8**	R-01
Oil and Grease	C-007	NL	**0**			**NT**		1.00	**ND**	
Bicarbonate Alkalinity (mg $CaCO_3$/L)	71-52-3	NL	**350**			**NT**		20.0	**350**	
Total Dissolved Solids	WC-70300	500	**563**	**-0.17**	2.6	**563**		5.07	**467**	
Total Suspended Solids	NL	NL	**364**			**NT**		2.63	**364**	R-01
pH	WC-00403	6.5-8.5	**9.02**	**-0.02**	NL	**9.02**		0.1	**8.8**	S-06
Methylene Blue Active Substances [1]	0.5	0.5	**0**			**NT**		0.073	**ND**	
Turbidity (NTU)	5	5	**84**			**NT**		1.5	**84**	
Sulfur	7704-34-9	NL	**23.3**			**NT**		2.5	**23.3**	

Table 5: Groundwater Results- Metals (Well B)

Trinity Pad Site					Sample Point:	Well B		Well B	
Colleyville, Texas					Sample Date:	2/22/2011		3/26/2012	
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
Arsenic	7440-38-2	0.01	**0**			**NT**		0.01	**ND**	
Barium	7440-39-3	2.0	**0.0068**	**-0.71**	0.0034	**0.0068**	B	0.0002	**0.002**	
Cadmium	7440-43-9	0.005	**0**			**NT**		0.0003	**ND**	
Calcium	7440-70-2	NL	**37.5**			**NT**		0.11	**37.5**	
Chromium	7440-47-3	0.10	**0**			**NT**		0.001	**ND**	
Iron [2]	7439-89-6	0.3	**0.03**			**NT**		0.01	**0.03**	J
Lead	7439-92-1	0.015	**0.006**			**NT**		0.001	**0.006**	
Magnesium	7439-95-4	NL	**10.1**			**NT**		0.005	**10.1**	
Manganese	7439-96-5	1.1	**0.005**			**NT**		0.0002	**0.005**	
Potassium	7440-09-7	NL	**1.04**			**NT**		0.217	**1.04**	
Selenium	7782-49-2	0.05	**0.003**			**NT**		0.003	**0.003**	J
Silver	7440-22-4	0.12	**0**			**NT**		0.001	**ND**	
Sodium	7440-23-5	NL	**222**	**-0.49**	0.1	**222**		0.17	**114**	
Strontium	7440-24-6	1.5	**0.401**	**2.34**	0.01	**0.12**		0.0003	**0.401**	
Mercury	7439-97-6	0.0078	**0**			**NT**		0.00004	**ND**	

Remarks:

All concentrations in mg/L unless otherwise noted

RAL = Residential Assessment Level (Applicable TRRP Critical PCL or BG Value); TRRP PCLs Published: May 2011

NDWR= National Drinking Water Regulation; Δ= % change in value between first and second sampling events

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance; B=analyte found in associated method blank

1- value listed for foaming agents; 2- NDWR standard

Please see laboratory data sheets for additional details

Table 6: Groundwater Results- Organic Compounds (Well B)

Trinity Pad Site					Sample Point:	Well B		Well B	
Colleyville, Texas					Sample Date:	2/22/2011		3/26/2012	
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**	
VOLATILE ORGANIC COMPOUNDS									
1,1,1,2-Tetrachloroethane	630-20-6	0.035	**0**		0.0008	**ND**	0.00086	**ND**	
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	0.2	**0.00139**		0.00062	**ND**	0.00098	**0.00139**	J
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	**0**		0.0012	**ND**	0.0004	**ND**	
1,1,2-Trichloroethane	79-00-5	0.005	**0**		0.00098	**ND**	0.00055	**ND**	
1,1-Dichloroethane	75-34-3	4.9	**0**		0.00052	**ND**	0.00057	**ND**	
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	0.007	**0.00139**		0.0005	**ND**	0.00037	**0.00139**	J
1,1-Dichloropropene	563-58-6	0.0091	**0**		0.00078	**ND**	0.00105	**ND**	
1,2,3-Trichlorobenzene	87-61-6	0.073	**0**		0.0011	**ND**	0.00096	**ND**	
1,2,3-Trichloropropane	96-18-4	0.00003	**0**		0.0013	**ND**	0.0006	**ND**	
1,2,4-Trichlorobenzene	120-82-1	0.07	**0**		0.00082	**ND**	0.0009	**ND**	
1,2,4-Trimethylbenzene	95-63-6	1.2	**0**		0.00065	**ND**	0.00084	**ND**	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.0002	**0**		0.0019	**ND**	0.00098	**ND**	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00005	**0**		0.00055	**ND**	0.0004	**ND**	
1,2-Dichlorobenzene	95-50-1	0.6	**0**		0.00069	**ND**	0.00035	**ND**	
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	0.005	**0**		0.00062	**ND**	0.0004	**ND**	
1,2-Dichloropropane (Propylene Dichloride)	78-87-5	0.005	**0**		0.00062	**ND**	0.00036	**ND**	
1,3,5-Trimethylbenzene	108-67-8	1.2	**0**		0.0007	**ND**	0.00033	**ND**	
1,3-Dichlorobenzene	541-73-1	0.733	**0**		0.001	**ND**	0.00039	**ND**	
1,3-Dichloropropane	142-28-9	0.009	**0**		0.00054	**ND**	0.0007	**ND**	
1,4-Dichlorobenzene	106-46-7	0.075	**0**		0.001	**ND**	0.00038	**ND**	
2,2-Dichloropropane	594-20-7	0.013	**0**		0.00062	**ND**	0.00126	**ND**	
2-Chlorotoluene	95-49-8	0.489	**0**		0.0007	**ND**	0.00033	**ND**	
4-Chlorotoluene	106-43-4	0.489	**0**		0.00056	**ND**	0.00055	**ND**	
Benzene	71-43-2	0.005	**0**		0.0005	**ND**	0.00062	**ND**	
Bromobenzene	108-86-1	0.196	**0**		0.00082	**ND**	0.00075	**ND**	
Bromochloromethane	74-97-5	0.978	**0**		0.0016	**ND**	0.00052	**ND**	
Bromodichloromethane	75-27-4	0.015	**0**		0.00049	**ND**	0.00033	**ND**	
Bromoform (Tribromomethane)	75-25-2	0.116	**0**		0.0014	**ND**	0.00069	**ND**	
Bromomethane (Methyl Bromide)	74-83-9	0.034	**0**		0.00094	**ND**	0.00056	**ND**	
Carbon Tetrachloride	56-23-5	0.005	**0**		0.00066	**ND**	0.00147	**ND**	
Chlorobenzene	108-90-7	0.1	**0**		0.00056	**ND**	0.00053	**ND**	
Chloroethane (Ethyl Chloride)	75-00-3	9.78	**0**		0.00092	**ND**	0.00056	**ND**	
Chloroform	67-66-3	0.244	**0**		0.00064	**ND**	0.00051	**ND**	
Chloromethane (Methyl Chloride)	74-87-3	0.07	**0**		0.00084	**ND**	0.00167	**ND**	
cis-1,2-Dichloroethene	156-59-2	0.07	**0**		0.00056	**ND**	0.00045	**ND**	
Dibromochloromethane	124-48-1	0.011	**0**		0.00061	**ND**	0.00047	**ND**	
Dichlorodifluoromethane	75-71-8	4.89	**0**		0.0011	**ND**	0.00058	**ND**	
Ethyl Benzene	100-41-4	0.7	**0**		0.00055	**ND**	0.00067	**ND**	
Hexachlorobutadiene	87-68-3	0.012	**0**		0.0013	**ND**	0.00096	**ND**	
Isopropylbenzene (Cumene)	98-82-8	2.44	**0**		0.00051	**ND**	0.00108	**ND**	
Methyl tert butyl ether (MTBE)	1634-04-4	0.244	**0**		0.00073	**ND**	0.00037	**ND**	
Methylene Bromide (Dibromomethane)	74-95-3	0.122	**0**		0.00065	**ND**	0.0005	**ND**	
Methylene Chloride (Dichloromethane)	75-09-2	0.005	**0**		0.00041	**ND**	0.003	**ND**	
Naphthalene	91-20-3	0.489	**0**		0.00065	**ND**	0.001	**ND**	
n-Butylbenzene	104-51-8	1.22	**0**		0.00063	**ND**	0.00068	**ND**	
n-Propylbenzene	103-65-1	0.978	**0**		0.00057	**ND**	0.00084	**ND**	
p-Isopropyltoluene	99-87-6	2.44	**0**		0.00065	**ND**	0.00039	**ND**	
sec-Butylbenzene	135-98-8	0.978	**0**		0.00052	**ND**	0.00089	**ND**	
Styrene	100-42-5	0.1	**0**		0.00056	**ND**	0.00114	**ND**	
tert-Butylbenzene	98-06-6	0.978	**0**		0.0013	**ND**	0.00035	**ND**	
Tetrachloroethene (Perchloroethylene)	127-18-4	0.005	**0**		0.00091	**ND**	0.00141	**ND**	
Toluene	108-88-3	1	**0**		0.00043	**ND**	0.00054	**ND**	
trans-1,2-Dichloroethene	156-60-5	0.1	**0**		0.00045	**ND**	0.00092	**ND**	
Trichloroethene (Trichloroethylene)	79-01-6	0.005	**0**		0.00052	**ND**	0.00039	**ND**	
Trichlorofluoromethane	75-69-4	7.33	**0**		0.0012	**ND**	0.00044	**ND**	
Vinyl Chloride	75-01-4	0.002	**0**		0.001	**ND**	0.00045	**ND**	
Xylenes (total)	1330-20-7	10	**0**		0.0017	**ND**	0.00154	**ND**	
TOTAL PETROLEUM HYDROCARBONS									
TPH (C6 - C12)	NA	0.98	0		0.57	**ND**	0.533	**ND**	
TPH (C12 - C28)	NA	0.98	**0**		0.88	**ND**	0.462	**ND**	
TPH (C28 - C35)	NA	0.98	**0**		0.88	**ND**	0.061	**ND**	
TPH Total (C6 - C35)	NA	0.98	**0**		0.57	**ND**	0.785	**ND**	
DISSOLVED GASES									
Methane	74-82-8	NL	**0.0082**	**0.69**	0.00016	**0.00486**	0.00069	**0.0082**	
Ethane	74-84-0	NL	**0**		0.00032	**ND**	0.0062	**ND**	
Ethene	74-85-1	NL	**0**		0.00043	**ND**	0.0062	**ND**	
METHANOL AND GLYCOLS									
Methanol	67-56-1	12	**0**			**NT**	2.84	**ND**	
Ethylene Glycol	107-21-1	49	**0**		0.56	**ND**	25	**ND**	
Propylene Glycol	57-55-6	490	**0**			**NT**	25	**ND**	

Remarks:

All concentrations in mg/L

Δ= % change in value between first and second sampling events

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance

Please see laboratory data sheets for additional detail

Table 7: Groundwater Results - Water Quality Parameters (Well E)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well E 2/22/2011		Well E 4/25/2012		
Compound	**CAS**	**NDWR**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**	
Hexavalent Chromium	18540-29-9	NL	**0**			**NT**	0.005	**ND**	
Conductivity (uS/cm)	NL	NL	**329**			**NT**	1.00	**329**	
Chloride	16887-00-6	250	**18.4**	**-0.05**	0.38	**18.4**	0.050	**17.5**	R-01
Sulfate	14808-79-8	250	**11.7**			**NT**	0.360	**11.7**	R-01
Oil and Grease	C-007	NL	**0**			**NT**	1.00	**ND**	
Bicarbonate Alkalinity (mg $CaCO_3$/L)	71-52-3	NL	**124**			**NT**	20.0	**124**	
Total Dissolved Solids	WC-70300	500	**185**	**-0.03**	2.6	**185**	5.07	**180**	
Total Suspended Solids	NL	NL	**5.7**			**NT**	2.50	**5.7**	
pH	WC-00403	6.5-8.5	**7.73**	**-0.15**	NL	**7.73**	0.1	**6.6**	S-06
Methylene Blue Active Substances [1]	NL	0.5	**0**			**NT**	0.073	**ND**	
Turbidity (NTU)	5	5	**8.3**			**NT**	0.50	**8.3**	
Sulfur	7704-34-9	NL	**4.28**			**NT**	0.25	**4.28**	

Table 8: Groundwater Results - Metals (Well E)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well E 2/22/2011			Well E 4/25/2012	
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**
Arsenic	7440-38-2	0.01	**0**			**NT**		0.01	**ND**
Barium	7440-39-3	2.0	**0.006**	**0.18**	0.0034	**0.0051**	B	0.0002	**0.006**
Cadmium	7440-43-9	0.005	**0**			**NT**		0.0003	**ND**
Calcium	7440-70-2	NL	**20.3**			**NT**		0.11	**20.3**
Chromium	7440-47-3	0.10	**0**			**NT**		0.001	**ND**
Iron [2]	7439-89-6	0.3	**2.72**			**NT**		0.01	**2.72**
Lead	7439-92-1	0.015	**0.012**			**NT**		0.001	**0.012**
Magnesium	7439-95-4	NL	**5.77**			**NT**		0.005	**5.77**
Manganese	7439-96-5	1.1	**0.118**			**NT**		0.0002	**0.118**
Potassium	7440-09-7	NL	**2.02**			**NT**		0.217	**2.02**
Selenium	7782-49-2	0.05	**0**			**NT**		0.003	**ND**
Silver	7440-22-4	0.12	**0**			**NT**		0.001	**ND**
Sodium	7440-23-5	NL	**41.6**	**-0.01**	0.1	**41.6**		0.17	**41.3**
Strontium	7440-24-6	1.5	**0.515**	**0.11**	0.0004	**0.462**		0.0003	**0.515**
Mercury	7439-97-6	0.0078	**0**			**NT**		0.00004	**ND**

Remarks:

All concentrations in mg/L unless otherwise noted

RAL = Residential Assessment Level (Applicable TRRP Critical PCL or BG Value); TRRP PCLs Published: May 2011

NDWR= National Drinking Water Regulation; Δ= % change in value between first and second sampling events

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance; B=analyte found in associated method blank

1- value listed for foaming agents; 2- NDWR standard

Please see laboratory data sheets for additional detail

Table 9: Groundwater Results - Organic Compounds (Well E)

Trinity Pad Site					Sample Point:	Well E		Well E
Colleyville, Texas					Sample Date:	2/22/2011		4/25/2012
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-Tetrachloroethane	630-20-6	0.035	**0**		0.0008	**ND**	0.00086	**ND**
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	0.2	**0**		0.00062	**ND**	0.00098	**ND**
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	**0**		0.0012	**ND**	0.0004	**ND**
1,1,2-Trichloroethane	79-00-5	0.005	**0**		0.00098	**ND**	0.00055	**ND**
1,1-Dichloroethane	75-34-3	4.9	**0**		0.00052	**ND**	0.00057	**ND**
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	0.007	**0**		0.0005	**ND**	0.00037	**ND**
1,1-Dichloropropene	563-58-6	0.0091	**0**		0.00078	**ND**	0.00105	**ND**
1,2,3-Trichlorobenzene	87-61-6	0.073	**0**		0.0011	**ND**	0.00096	**ND**
1,2,3-Trichloropropane	96-18-4	0.00003	**0**		0.0013	**ND**	0.0006	**ND**
1,2,4-Trichlorobenzene	120-82-1	0.07	**0**		0.00082	**ND**	0.0009	**ND**
1,2,4-Trimethylbenzene	95-63-6	1.2	**0**		0.00065	**ND**	0.00084	**ND**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.0002	**0**		0.0019	**ND**	0.00098	**ND**
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00005	**0**		0.00055	**ND**	0.0004	**ND**
1,2-Dichlorobenzene	95-50-1	0.6	**0**		0.00069	**ND**	0.00035	**ND**
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	0.005	**0**		0.00062	**ND**	0.0004	**ND**
1,2-Dichloropropane (Propylene Dichloride)	78-87-5	0.005	**0**		0.00062	**ND**	0.00036	**ND**
1,3,5-Trimethylbenzene	108-67-8	1.2	**0**		0.0007	**ND**	0.00033	**ND**
1,3-Dichlorobenzene	541-73-1	0.733	**0**		0.001	**ND**	0.00039	**ND**
1,3-Dichloropropane	142-28-9	0.009	**0**		0.00054	**ND**	0.0007	**ND**
1,4-Dichlorobenzene	106-46-7	0.075	**0**		0.001	**ND**	0.00038	**ND**
2,2-Dichloropropane	594-20-7	0.013	**0**		0.00062	**ND**	0.00126	**ND**
2-Chlorotoluene	95-49-8	0.489	**0**		0.0007	**ND**	0.00033	**ND**
4-Chlorotoluene	106-43-4	0.489	**0**		0.00056	**ND**	0.00055	**ND**
Benzene	71-43-2	0.005	**0**		0.0005	**ND**	0.00062	**ND**
Bromobenzene	108-86-1	0.196	**0**		0.00082	**ND**	0.00075	**ND**
Bromochloromethane	74-97-5	0.978	**0**		0.0016	**ND**	0.00052	**ND**
Bromodichloromethane	75-27-4	0.015	**0**		0.00049	**ND**	0.00033	**ND**
Bromoform (Tribromomethane)	75-25-2	0.116	**0**		0.0014	**ND**	0.00069	**ND**
Bromomethane (Methyl Bromide)	74-83-9	0.034	**0**		0.00094	**ND**	0.00056	**ND**
Carbon Tetrachloride	56-23-5	0.005	**0**		0.00066	**ND**	0.00147	**ND**
Chlorobenzene	108-90-7	0.1	**0**		0.00056	**ND**	0.00053	**ND**
Chloroethane (Ethyl Chloride)	75-00-3	9.78	**0**		0.00092	**ND**	0.00056	**ND**
Chloroform	67-66-3	0.244	**0**		0.00064	**ND**	0.00051	**ND**
Chloromethane (Methyl Chloride)	74-87-3	0.07	**0**		0.00084	**ND**	0.00167	**ND**
cis-1,2-Dichloroethene	156-59-2	0.07	**0**		0.00056	**ND**	0.00045	**ND**
Dibromochloromethane	124-48-1	0.011	**0**		0.00061	**ND**	0.00047	**ND**
Dichlorodifluoromethane	75-71-8	4.89	**0**		0.0011	**ND**	0.00058	**ND**
Ethyl Benzene	100-41-4	0.7	**0**		0.00055	**ND**	0.00067	**ND**
Hexachlorobutadiene	87-68-3	0.012	**0**		0.0013	**ND**	0.00096	**ND**
Isopropylbenzene (Cumene)	98-82-8	2.44	**0**		0.00051	**ND**	0.00108	**ND**
Methyl tert butyl ether (MTBE)	1634-04-4	0.244	**0**		0.00073	**ND**	0.00037	**ND**
Methylene Bromide (Dibromomethane)	74-95-3	0.122	**0**		0.00065	**ND**	0.0005	**ND**
Methylene Chloride (Dichloromethane)	75-09-2	0.005	**0**		0.00041	**ND**	0.003	**ND**
Naphthalene	91-20-3	0.489	**0**		0.00065	**ND**	0.001	**ND**
n-Butylbenzene	104-51-8	1.22	**0**		0.00063	**ND**	0.00068	**ND**
n-Propylbenzene	103-65-1	0.978	**0**		0.00057	**ND**	0.00084	**ND**
p-Isopropyltoluene	99-87-6	2.44	**0**		0.00065	**ND**	0.00039	**ND**
sec-Butylbenzene	135-98-8	0.978	**0**		0.00052	**ND**	0.00089	**ND**
Styrene	100-42-5	0.1	**0**		0.00056	**ND**	0.00114	**ND**
tert-Butylbenzene	98-06-6	0.978	**0**		0.0013	**ND**	0.00035	**ND**
Tetrachloroethene (Perchloroethylene)	127-18-4	0.005	**0**		0.00091	**ND**	0.00141	**ND**
Toluene	108-88-3	1	**0**		0.00043	**ND**	0.00054	**ND**
trans-1,2-Dichloroethene	156-60-5	0.1	**0**		0.00045	**ND**	0.00092	**ND**
Trichloroethene (Trichloroethylene)	79-01-6	0.005	**0**		0.00052	**ND**	0.00039	**ND**
Trichlorofluoromethane	75-69-4	7.33	**0**		0.0012	**ND**	0.00044	**ND**
Vinyl Chloride	75-01-4	0.002	**0**		0.001	**ND**	0.00045	**ND**
Xylenes (total)	1330-20-7	10	**0**		0.0017	**ND**	0.00154	**ND**
TOTAL PETROLEUM HYDROCARBONS								
TPH (C6 - C12)	NA	0.98	**0**		0.58	**ND**	0.525	**ND**
TPH (C12 - C28)	NA	0.98	**0**		0.9	**ND**	0.202	**ND**
TPH (C28 - C35)	NA	0.98	**0**		0.9	**ND**	0.06	**ND**
TPH Total (C6 - C35)	NA	0.98	**0**		0.58	**ND**	0.774	**ND**
DISSOLVED GASES								
Methane	74-82-8	NL	**0.00063**		0.00016	**0.00063**	0.00069	**ND**
Ethane	74-84-0	NL	**0**		0.00032	**ND**	0.0031	**ND**
Ethene	74-85-1	NL	**0**		0.00043	**ND**	0.0031	**ND**
METHANOL AND GLYCOLS								
Methanol	67-56-1	12	**0**			**NT**	2.84	**ND**
Ethylene Glycol	107-21-1	49	**0**		0.56	**ND**	25.0	**ND**
Propylene Glycol	57-55-6	490	**0**			**NT**	25.0	**ND**

Remarks:

All concentrations in mg/L

Δ= change in value between first and second sampling events

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance

Please see laboratory data sheets for additional detail

Table 10 : Groundwater Results - Water Quality Parameters (Well F)

Well F Colleyville, Texas			Sample Point: Sample Date:		Well F 2/22/2011		Well F 4/3/2012		
Compound	**CAS**	**NPDWS**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**	
Hexavalent Chromium	18540-29-9	NL	**0**			**NT**	0.005	**ND**	
Conductivity (uS/cm)	NL	NL	**525**			**NT**	1.00	**525**	
Chloride	16887-00-6	250	**67.6**	**0.10**	0.76	**61.6**	0.050	**67.6**	R-01
Sulfate	14808-79-8	250	**39.6**			**NT**	0.360	**39.6**	R-01
Oil and Grease	C-007	NL	**0**			**NT**	1.07	**ND**	
Bicarbonate Alkalinity (mg $CaCO_3$/L)	71-52-3	NL	**110**			**NT**	20.0	**110**	
Total Dissolved Solids	WC-70300	500	**310**	**0.25**	2.6	**248**	5.07	**310**	
Total Suspended Solids	NL	NL	**46**			**NT**	5.00	**46**	R-01
pH	WC-00403	6.5-8.5	**7.75**	**-0.21**	NL	**7.75**	0.1	**6.1**	S-06
Methylene Blue Active Substances [1]	NL	0.5	**0**			**NT**	0.073	**ND**	
Turbidity (NTU)	5	5	**90**			**NT**	2.0	**90**	
Sulfur	7704-34-9	NL	**18.7**			**NT**	10	**18.7**	

Table 11: Groundwater Results - Metals (Well F)

Well F Colleyville, Texas			Sample Point: Sample Date:		Well F 2/22/2011			Well F 4/3/2012		
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
Arsenic	7440-38-2	0.01	**0**			**NT**		0.01	**ND**	
Barium	7440-39-3	2.0	**0.0234**	**-0.32**	0.0034	**0.0234**	B	0.0002	**0.016**	
Cadmium	7440-43-9	0.005	**0**			**NT**		0.0003	**ND**	
Calcium	7440-70-2	NL	**29.4**			**NT**		0.11	**29.4**	
Chromium	7440-47-3	0.10	**0.003**			**NT**		0.001	**0.003**	
Iron [2]	7439-89-6	0.3	**17.8**			**NT**		0.01	**17.8**	
Lead	7439-92-1	0.015	**0.007**			**NT**		0.001	**0.007**	
Magnesium	7439-95-4	NL	**11.7**			**NT**		0.005	**11.7**	
Manganese	7439-96-5	1.1	**1.56**			**NT**		0.002	**1.56**	
Potassium	7440-09-7	NL	**2.3**			**NT**		0.217	**2.3**	
Selenium	7782-49-2	0.05	**0**			**NT**		0.003	**ND**	
Silver	7440-22-4	0.12	**0**			**NT**		0.001	**ND**	
Sodium	7440-23-5	NL	**56.2**	**0.20**	0.1	**46.8**		0.17	**56.2**	
Strontium	7440-24-6	1.5	**0.33**	**0.31**	0.0004	**0.252**		0.0003	**0.33**	
Mercury	7439-97-6	0.0078	**0.00013**			**NT**		0.00004	**0.00013**	J

Remarks:

All concentrations in mg/L unless otherwise noted

RAL = Residential Assessment Level (Applicable TRRP Critical PCL or BG Value); TRRP PCLs Published: May 2011

NDWR= National Drinking Water Regulation; Δ= % change in value between first and second sampling events

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance; B=analyte found in associated method blank

1- value listed for foaming agents; 2- NDWR standard

Please see laboratory data sheets for additional details

Table 12: Groundwater Results - Organic Compounds (Well F)

Trinity Pad Site			Sample Point:		Well F		Well F	
Colleyville, Texas			Sample Date:		2/22/2011		4/3/2012	
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-Tetrachloroethane	630-20-6	0.035	**0**		0.0008	**ND**	0.00086	**ND**
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	0.2	**0**		0.00062	**ND**	0.00098	**ND**
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	**0**		0.0012	**ND**	0.0004	**ND**
1,1,2-Trichloroethane	79-00-5	0.005	**0**		0.00098	**ND**	0.00055	**ND**
1,1-Dichloroethane	75-34-3	4.9	**0**		0.00052	**ND**	0.00057	**ND**
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	0.007	**0**		0.0005	**ND**	0.00037	**ND**
1,1-Dichloropropene	563-58-6	0.0091	**0**		0.00078	**ND**	0.00105	**ND**
1,2,3-Trichlorobenzene	87-61-6	0.073	**0**		0.0011	**ND**	0.00096	**ND**
1,2,3-Trichloropropane	96-18-4	0.00003	**0**		0.0013	**ND**	0.0006	**ND**
1,2,4-Trichlorobenzene	120-82-1	0.07	**0**		0.00082	**ND**	0.0009	**ND**
1,2,4-Trimethylbenzene	95-63-6	1.2	**0**		0.00065	**ND**	0.00084	**ND**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.0002	**0**		0.0019	**ND**	0.00098	**ND**
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00005	**0**		0.00055	**ND**	0.0004	**ND**
1,2-Dichlorobenzene	95-50-1	0.6	**0**		0.00069	**ND**	0.00035	**ND**
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	0.005	**0**		0.00062	**ND**	0.0004	**ND**
1,2-Dichloropropane (Propylene Dichloride)	78-87-5	0.005	**0**		0.00062	**ND**	0.00036	**ND**
1,3,5-Trimethylbenzene	108-67-8	1.2	**0**		0.0007	**ND**	0.00033	**ND**
1,3-Dichlorobenzene	541-73-1	0.733	**0**		0.001	**ND**	0.00039	**ND**
1,3-Dichloropropane	142-28-9	0.009	**0**		0.00054	**ND**	0.0007	**ND**
1,4-Dichlorobenzene	106-46-7	0.075	**0**		0.001	**ND**	0.00038	**ND**
2,2-Dichloropropane	594-20-7	0.013	**0**		0.00062	**ND**	0.00126	**ND**
2-Chlorotoluene	95-49-8	0.489	**0**		0.0007	**ND**	0.00033	**ND**
4-Chlorotoluene	106-43-4	0.489	**0**		0.00056	**ND**	0.00055	**ND**
Benzene	71-43-2	0.005	**0**		0.0005	**ND**	0.00062	**ND**
Bromobenzene	108-86-1	0.196	**0**		0.00082	**ND**	0.00075	**ND**
Bromochloromethane	74-97-5	0.978	**0**		0.0016	**ND**	0.00052	**ND**
Bromodichloromethane	75-27-4	0.015	**0**		0.00049	**ND**	0.00033	**ND**
Bromoform (Tribromomethane)	75-25-2	0.116	**0**		0.0014	**ND**	0.00069	**ND**
Bromomethane (Methyl Bromide)	74-83-9	0.034	**0**		0.00094	**ND**	0.00056	**ND**
Carbon Tetrachloride	56-23-5	0.005	**0**		0.00066	**ND**	0.00147	**ND**
Chlorobenzene	108-90-7	0.1	**0**		0.00056	**ND**	0.00053	**ND**
Chloroethane (Ethyl Chloride)	75-00-3	9.78	**0**		0.00092	**ND**	0.00056	**ND**
Chloroform	67-66-3	0.244	**0**		0.00064	**ND**	0.00051	**ND**
Chloromethane (Methyl Chloride)	74-87-3	0.07	**0**		0.00084	**ND**	0.00167	**ND**
cis-1,2-Dichloroethene	156-59-2	0.07	**0**		0.00056	**ND**	0.00045	**ND**
Dibromochloromethane	124-48-1	0.011	**0**		0.00061	**ND**	0.00047	**ND**
Dichlorodifluoromethane	75-71-8	4.89	**0**		0.0011	**ND**	0.00058	**ND**
Ethyl Benzene	100-41-4	0.7	**0**		0.00055	**ND**	0.00067	**ND**
Hexachlorobutadiene	87-68-3	0.012	**0**		0.0013	**ND**	0.00096	**ND**
Isopropylbenzene (Cumene)	98-82-8	2.44	**0**		0.00051	**ND**	0.00108	**ND**
Methyl tert butyl ether (MTBE)	1634-04-4	0.244	**0**		0.00073	**ND**	0.00037	**ND**
Methylene Bromide (Dibromomethane)	74-95-3	0.122	**0**		0.00065	**ND**	0.0005	**ND**
Methylene Chloride (Dichloromethane)	75-09-2	0.005	**0**		0.00041	**ND**	0.003	**ND**
Naphthalene	91-20-3	0.489	**0**		0.00065	**ND**	0.001	**ND**
n-Butylbenzene	104-51-8	1.22	**0**		0.00063	**ND**	0.00068	**ND**
n-Propylbenzene	103-65-1	0.978	**0**		0.00057	**ND**	0.00084	**ND**
p-Isopropyltoluene	99-87-6	2.44	**0**		0.00065	**ND**	0.00039	**ND**
sec-Butylbenzene	135-98-8	0.978	**0**		0.00052	**ND**	0.00089	**ND**
Styrene	100-42-5	0.1	**0**		0.00056	**ND**	0.00114	**ND**
tert-Butylbenzene	98-06-6	0.978	**0**		0.0013	**ND**	0.00035	**ND**
Tetrachloroethene (Perchloroethylene)	127-18-4	0.005	**0**		0.00091	**ND**	0.00141	**ND**
Toluene	108-88-3	1	**0**		0.00043	**ND**	0.00054	**ND**
trans-1,2-Dichloroethene	156-60-5	0.1	**0**		0.00045	**ND**	0.00092	**ND**
Trichloroethene (Trichloroethylene)	79-01-6	0.005	**0**		0.00052	**ND**	0.00039	**ND**
Trichlorofluoromethane	75-69-4	7.33	**0**		0.0012	**ND**	0.00044	**ND**
Vinyl Chloride	75-01-4	0.002	**0**		0.001	**ND**	0.00045	**ND**
Xylenes (total)	1330-20-7	10	**0**		0.0017	**ND**	0.00154	**ND**
TOTAL PETROLEUM HYDROCARBONS								
TPH (C6 - C12)	NA	0.98	**0**		0.58	**ND**	1.64	**ND**
TPH (C12 - C28)	NA	0.98	**0**		0.9	**ND**	0.199	**ND**
TPH (C28 - C35)	NA	0.98	**0**		0.9	**ND**	0.06	**ND**
TPH Total (C6 - C35)	NA	0.98	**0**		0.58	**ND**	1.64	**ND**
DISSOLVED GASES								
Methane	74-82-8	NL	**0**		0.00016	**ND**	0.00069	**ND**
Ethane	74-84-0	NL	**0**		0.00032	**ND**	0.0062	**ND**
Ethene	74-85-1	NL	**0**		0.00043	**ND**	0.0062	**ND**
METHANOL AND GLYCOLS								
Methanol	67-56-1	12	**0**			**NT**	10.0	**ND**
Ethylene Glycol	107-21-1	49	**2.3**		0.56	**2.3**	25.0	**ND**
Propylene Glycol	57-55-6	490	**0**			**NT**	25.0	**ND**

Remarks:

All concentrations in mg/L

Δ= change in value between first and second sampling events

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance

Please see laboratory data sheets for additional detail

Table 13: Groundwater Results - Water Quality Parameters (Well G)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well G 2/23/2011		Well G 3/26/2012		
Compound	**CAS**	**NPDWS**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**	
Hexavalent Chromium	18540-29-9	NL	**0**			**NT**	0.005	**ND**	
Conductivity (uS/cm)	NL	NL	**745**			**NT**	1.00	**745**	
Chloride	16887-00-6	250	**79.5**	**-0.004**	0.76	**79.5**	0.05	**79.2**	R-01
Sulfate	14808-79-8	250	**79**			**NT**	0.36	**79**	R-01
Oil and Grease	C-007	NL	**0**			**NT**	1.00	**ND**	
Bicarbonate Alkalinity (mg $CaCO_3$/L)	71-52-3	NL	**196**			**NT**	20	**196**	
Total Dissolved Solids	WC-70300	500	**514**	**0.06**	2.6	**483**	5.07	**514**	Q-26
Total Suspended Solids	NL	NL	**0**			**NT**	9.26	**ND**	
pH	WC-00403	6.5-8.5	**7.92**	**-1.72**	NL	**7.92**	0.1	**6.2**	S-06
Methylene Blue Active Substances [1]	NL	0.5	**0**			**NT**	0.073	**ND**	
Turbidity (NTU)	NL	5	**0.78**			**NT**	0.50	**0.78**	
Sulfur	7704-34-9	NL	**23.3**			**NT**	2.5	**23.3**	

Table 14: Groundwater Results - Metals (Well G)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well G 2/23/2011			Well G 3/26/2012		
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
Arsenic	7440-38-2	0.01	**0**			**NT**		0.01	**ND**	
Barium	7440-39-3	2.0	**0.016**	**2.14**	0.0034	**0.0051**	B	0.0002	**0.016**	
Cadmium	7440-43-9	0.005	**0**			**NT**		0.0003	**ND**	
Calcium	7440-70-2	NL	**7.47**			**NT**		0.11	**7.47**	
Chromium	7440-47-3	0.10	**0.048**			**NT**		0.001	**0.048**	
Iron [2]	7439-89-6	0.3	**3.86**			**NT**		0.01	**3.86**	
Lead	7439-92-1	0.015	**0.016**			**NT**		0.001	**0.016**	
Magnesium	7439-95-4	NL	**2.23**			**NT**		0.005	**2.23**	
Manganese	7439-96-5	1.1	**0.03**			**NT**		0.0002	**0.03**	
Potassium	7440-09-7	NL	**2.33**			**NT**		0.217	**2.33**	
Selenium	7782-49-2	0.05	**0**			**NT**		0.003	**ND**	
Silver	7440-22-4	0.12	**0**			**NT**		0.001	**ND**	
Sodium	7440-23-5	NL	**198**	**0.82**	0.1	**109**		0.17	**198**	
Strontium	7440-24-6	1.5	**0.404**	**-0.57**	0.0004	**0.404**		0.0003	**0.174**	
Mercury	7439-97-6	0.0078	**0**			**NT**		0.00004	**ND**	Q-22

Remarks:

All concentrations in mg/L unless otherwise noted

RAL = Residential Assessment Level (Applicable TRRP Critical PCL or BG Value); TRRP PCLs Published: May 2011

NDWR= National Drinking Water Regulation; Δ= % change in value between first and second sampling events

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance; B=analyte found in associated method blank

1- value listed for foaming agents; 2- NDWR standard

Please see laboratory data sheets for additional details

Table 15: Groundwater Results - Organic Compounds (Well G)

Trinity Pad Site			Sample Point:		Well G		Well G	
Colleyville, Texas			Sample Date:		2/23/2011		3/26/2012	
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-Tetrachloroethane	630-20-6	0.035	**0**		0.0008	**ND**	0.00086	**ND**
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	0.2	**0**		0.00062	**ND**	0.00098	**ND**
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	**0**		0.0012	**ND**	0.0004	**ND**
1,1,2-Trichloroethane	79-00-5	0.005	**0**		0.00098	**ND**	0.00055	**ND**
1,1-Dichloroethane	75-34-3	4.9	**0**		0.00052	**ND**	0.00057	**ND**
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	0.007	**0.00151**		0.0005	**ND**	0.00037	**0.00151** J
1,1-Dichloropropene	563-58-6	0.0091	**0**		0.00078	**ND**	0.00105	**ND**
1,2,3-Trichlorobenzene	87-61-6	0.073	**0**		0.0011	**ND**	0.00096	**ND**
1,2,3-Trichloropropane	96-18-4	0.00003	**0**		0.0013	**ND**	0.0006	**ND**
1,2,4-Trichlorobenzene	120-82-1	0.07	**0**		0.00082	**ND**	0.0009	**ND**
1,2,4-Trimethylbenzene	95-63-6	1.2	**0**		0.00065	**ND**	0.00084	**ND**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.0002	**0**		0.0019	**ND**	0.00098	**ND**
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00005	**0**		0.00055	**ND**	0.0004	**ND**
1,2-Dichlorobenzene	95-50-1	0.6	**0**		0.00069	**ND**	0.00035	**ND**
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	0.005	**0**		0.00062	**ND**	0.0004	**ND**
1,2-Dichloropropane (Propylene Dichloride)	78-87-5	0.005	**0**		0.00062	**ND**	0.00036	**ND**
1,3,5-Trimethylbenzene	108-67-8	1.2	**0**		0.0007	**ND**	0.00033	**ND**
1,3-Dichlorobenzene	541-73-1	0.733	**0**		0.001	**ND**	0.00039	**ND**
1,3-Dichloropropane	142-28-9	0.009	**0**		0.00054	**ND**	0.0007	**ND**
1,4-Dichlorobenzene	106-46-7	0.075	**0**		0.001	**ND**	0.00038	**ND**
2,2-Dichloropropane	594-20-7	0.013	**0**		0.00062	**ND**	0.00126	**ND**
2-Chlorotoluene	95-49-8	0.489	**0**		0.0007	**ND**	0.00033	**ND**
4-Chlorotoluene	106-43-4	0.489	**0**		0.00056	**ND**	0.00055	**ND**
Benzene	71-43-2	0.005	**0**		0.0005	**ND**	0.00062	**ND**
Bromobenzene	108-86-1	0.196	**0**		0.00082	**ND**	0.00075	**ND**
Bromochloromethane	74-97-5	0.978	**0**		0.0016	**ND**	0.00052	**ND**
Bromodichloromethane	75-27-4	0.015	**0**		0.00049	**ND**	0.00033	**ND**
Bromoform (Tribromomethane)	75-25-2	0.116	**0**		0.0014	**ND**	0.00069	**ND**
Bromomethane (Methyl Bromide)	74-83-9	0.034	**0**		0.00094	**ND**	0.00056	**ND**
Carbon Tetrachloride	56-23-5	0.005	**0**		0.00066	**ND**	0.00147	**ND**
Chlorobenzene	108-90-7	0.1	**0**		0.00056	**ND**	0.00053	**ND**
Chloroethane (Ethyl Chloride)	75-00-3	9.78	**0**		0.00092	**ND**	0.00056	**ND**
Chloroform	67-66-3	0.244	**0**		0.00064	**ND**	0.00051	**ND**
Chloromethane (Methyl Chloride)	74-87-3	0.07	**0**		0.00084	**ND**	0.00167	**ND**
cis-1,2-Dichloroethene	156-59-2	0.07	**0**		0.00056	**ND**	0.00045	**ND**
Dibromochloromethane	124-48-1	0.011	**0**		0.00061	**ND**	0.00047	**ND**
Dichlorodifluoromethane	75-71-8	4.89	**0**		0.0011	**ND**	0.00058	**ND**
Ethyl Benzene	100-41-4	0.7	**0**		0.00055	**ND**	0.00067	**ND**
Hexachlorobutadiene	87-68-3	0.012	**0**		0.0013	**ND**	0.00096	**ND**
Isopropylbenzene (Cumene)	98-82-8	2.44	**0**		0.00051	**ND**	0.00108	**ND**
Methyl tert butyl ether (MTBE)	1634-04-4	0.244	**0**		0.00073	**ND**	0.00037	**ND**
Methylene Bromide (Dibromomethane)	74-95-3	0.122	**0**		0.00065	**ND**	0.0005	**ND**
Methylene Chloride (Dichloromethane)	75-09-2	0.005	**0**		0.00041	**ND**	0.003	**ND**
Naphthalene	91-20-3	0.489	**0**		0.00065	**ND**	0.001	**ND**
n-Butylbenzene	104-51-8	1.22	**0**		0.00063	**ND**	0.00068	**ND**
n-Propylbenzene	103-65-1	0.978	**0**		0.00057	**ND**	0.00084	**ND**
p-Isopropyltoluene	99-87-6	2.44	**0**		0.00065	**ND**	0.00039	**ND**
sec-Butylbenzene	135-98-8	0.978	**0**		0.00052	**ND**	0.00089	**ND**
Styrene	100-42-5	0.1	**0**		0.00056	**ND**	0.00114	**ND**
tert-Butylbenzene	98-06-6	0.978	**0**		0.0013	**ND**	0.00035	**ND**
Tetrachloroethene (Perchloroethylene)	127-18-4	0.005	**0**		0.00091	**ND**	0.00141	**ND**
Toluene	108-88-3	1	**0**		0.00043	**ND**	0.00054	**ND**
trans-1,2-Dichloroethene	156-60-5	0.1	**0**		0.00045	**ND**	0.00092	**ND**
Trichloroethene (Trichloroethylene)	79-01-6	0.005	**0**		0.00052	**ND**	0.00039	**ND**
Trichlorofluoromethane	75-69-4	7.33	**0**		0.0012	**ND**	0.00044	**ND**
Vinyl Chloride	75-01-4	0.002	**0**		0.001	**ND**	0.00045	**ND**
Xylenes (total)	1330-20-7	10	**0**		0.0017	**ND**	0.00154	**ND**
TOTAL PETROLEUM HYDROCARBONS								
TPH (C6 - C12)	NA	0.98	**0**		0.59	**ND**	0.606	**ND**
TPH (C12 - C28)	NA	0.98	**0**		0.9	**ND**	0.233	**ND**
TPH (C28 - C35)	NA	0.98	**0**		0.9	**ND**	0.07	**ND**
TPH Total (C6 - C35)	NA	0.98	**0**		0.59	**ND**	0.894	**ND**
DISSOLVED GASES								
Methane	74-82-8	NL	**0**		0.00016	**ND**	0.00069	**ND**
Ethane	74-84-0	NL	**0**		0.00032	**ND**	0.0062	**ND**
Ethene	74-85-1	NL	**0**		0.00043	**ND**	0.0062	**ND**
METHANOL AND GLYCOLS								
Methanol	67-56-1	12	**0**			**NT**	2.84	**ND**
Ethylene Glycol	107-21-1	49	**3**		0.56	**3** J	25.0	**ND**
Propylene Glycol	57-55-6	490	**0**			**NT**	25.0	**ND**

Remarks:

All concentrations in mg/L

Δ= % change in value between first and second sampling events

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance

Please see laboratory data sheets for additional detail

Table 16: Groundwater Results - Water Quality Parameters (Well H)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well H 3/2/2011		Well H 5/1/2012		
Compound	**CAS**	**NPDWS**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**	
Hexavalent Chromium	18540-29-9	NL	**0**			**NT**	0.005	**ND**	
Conductivity (uS/cm)	NL	NL	**1560**			**NT**	1.00	**1560**	
Chloride	16887-00-6	250	**258**	**1.58**	1.9	**100**	50.0	**258**	
Sulfate	14808-79-8	250	**173**			**NT**	20.0	**173**	
Oil and Grease	C-007	NL	**0**			**NT**	1	**ND**	
Bicarbonate Alkalinity (mg $CaCO_3$/L)	71-52-3	NL	**194**			**NT**	20	**194**	
Total Dissolved Solids	WC-70300	500	**944**	**1.02**	2.6	**468**	5.07	**944**	Q-18
Total Suspended Solids	NL	NL	**0**			**NT**	2.63	**ND**	
pH	WC-00403	6.5-8.5	**6.85**	**-0.07**	NL	**6.85**	0.1	**6.4**	S-06
Methylene Blue Active Substances [1]	NL	0.5	**0.145**			**NT**	0.073	**0.145**	J
Turbidity (NTU)	NL	5	**1.9**			**NT**	0.50	**1.9**	
Sulfur	7704-34-9	NL	**68.1**			**NT**	5	**68.1**	

Table 17: Groundwater Results - Metals (Well H)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well H 3/2/2011			Well H 5/1/2012		
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
Arsenic	7440-38-2	0.01	**0**			**NT**		0.01	**ND**	
Barium	7440-39-3	2.0	**0.029**	**5.44**	0.0034	**0.0045**	B	0.0002	**0.029**	
Cadmium	7440-43-9	0.005	**0.0006**			**NT**		0.0003	**0.0006**	J
Calcium	7440-70-2	NL	**92.3**			**NT**		0.11	**92.3**	
Chromium	7440-47-3	0.10	**0**			**NT**		0.001	**ND**	
Iron [2]	7439-89-6	0.3	**5.16**			**NT**		0.01	**5.16**	
Lead	7439-92-1	0.015	**0.002**			**NT**		0.001	**0.002**	
Magnesium	7439-95-4	NL	**25.7**			**NT**		0.005	**25.7**	
Manganese	7439-96-5	1.1	**1.46**			**NT**		0.0002	**1.46**	
Potassium	7440-09-7	NL	**1.43**			**NT**		0.217	**1.43**	
Selenium	7782-49-2	0.05	**0**			**NT**		0.003	**ND**	
Silver	7440-22-4	0.12	**0**			**NT**		0.001	**ND**	
Sodium	7440-23-5	NL	**183**	**0.69**	0.1	**108**		0.17	**183**	
Strontium	7440-24-6	1.5	**0.818**	**1.08**	0.0004	**0.394**		0.0003	**0.818**	
Mercury	7439-97-6	0.0078	**0**			**NT**		0.00004	**ND**	

Remarks:

All concentrations in mg/L unless otherwise noted

RAL = Residential Assessment Level (Applicable TRRP Critical PCL or BG Value); TRRP PCLs Published: May 2011

NDWR= National Drinking Water Regulation; Δ= % change in value between first and second sampling events

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance; B=analyte found in associated method blank

1- value listed for foaming agents; 2- NDWR standard

Please see laboratory data sheets for additional details

Table 18: Groundwater Results - Organic Compounds (Well H)

Trinity Pad Site				Sample Point:	Well H		Well H	
Colleyville, Texas				Sample Date:	3/2/2011		5/1/2012	
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-Tetrachloroethane	630-20-6	0.035	**0**		0.0008	**ND**	0.00086	**ND**
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	0.2	**0**		0.00062	**ND**	0.00098	**ND**
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	**0**		0.0012	**ND**	0.0004	**ND**
1,1,2-Trichloroethane	79-00-5	0.005	**0**		0.00098	**ND**	0.00055	**ND**
1,1-Dichloroethane	75-34-3	4.9	**0**		0.00052	**ND**	0.00057	**ND**
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	0.007	**0**		0.0005	**ND**	0.00037	**ND**
1,1-Dichloropropene	563-58-6	0.0091	**0**		0.00078	**ND**	0.00105	**ND**
1,2,3-Trichlorobenzene	87-61-6	0.073	**0**		0.0011	**ND**	0.00096	**ND**
1,2,3-Trichloropropane	96-18-4	0.00003	**0**		0.0013	**ND**	0.0006	**ND**
1,2,4-Trichlorobenzene	120-82-1	0.07	**0**		0.00082	**ND**	0.0009	**ND**
1,2,4-Trimethylbenzene	95-63-6	1.2	**0**		0.00065	**ND**	0.00084	**ND**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.0002	**0**		0.0019	**ND**	0.00098	**ND**
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00005	**0**		0.00055	**ND**	0.0004	**ND**
1,2-Dichlorobenzene	95-50-1	0.6	**0**		0.00069	**ND**	0.00035	**ND**
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	0.005	**0**		0.00062	**ND**	0.0004	**ND**
1,2-Dichloropropane (Propylene Dichloride)	78-87-5	0.005	**0**		0.00062	**ND**	0.00036	**ND**
1,3,5-Trimethylbenzene	108-67-8	1.2	**0**		0.0007	**ND**	0.00033	**ND**
1,3-Dichlorobenzene	541-73-1	0.733	**0**		0.001	**ND**	0.00039	**ND**
1,3-Dichloropropane	142-28-9	0.009	**0**		0.00054	**ND**	0.0007	**ND**
1,4-Dichlorobenzene	106-46-7	0.075	**0**		0.001	**ND**	0.00038	**ND**
2,2-Dichloropropane	594-20-7	0.013	**0**		0.00062	**ND**	0.00126	**ND**
2-Chlorotoluene	95-49-8	0.489	**0**		0.0007	**ND**	0.00033	**ND**
4-Chlorotoluene	106-43-4	0.489	**0**		0.00056	**ND**	0.00055	**ND**
Benzene	71-43-2	0.005	**0**		0.0005	**ND**	0.00062	**ND**
Bromobenzene	108-86-1	0.196	**0**		0.00082	**ND**	0.00075	**ND**
Bromochloromethane	74-97-5	0.978	**0**		0.0016	**ND**	0.00052	**ND**
Bromodichloromethane	75-27-4	0.015	**0**		0.00049	**ND**	0.00033	**ND**
Bromoform (Tribromomethane)	75-25-2	0.116	**0**		0.0014	**ND**	0.00069	**ND**
Bromomethane (Methyl Bromide)	74-83-9	0.034	**0**		0.00094	**ND**	0.00056	**ND**
Carbon Tetrachloride	56-23-5	0.005	**0**		0.00066	**ND**	0.00147	**ND**
Chlorobenzene	108-90-7	0.1	**0**		0.00056	**ND**	0.00053	**ND**
Chloroethane (Ethyl Chloride)	75-00-3	9.78	**0**		0.00092	**ND**	0.00056	**ND**
Chloroform	67-66-3	0.244	**0**		0.00064	**ND**	0.00051	**ND**
Chloromethane (Methyl Chloride)	74-87-3	0.07	**0**		0.00084	**ND**	0.00167	**ND**
cis-1,2-Dichloroethene	156-59-2	0.07	**0**		0.00056	**ND**	0.00045	**ND**
Dibromochloromethane	124-48-1	0.011	**0**		0.00061	**ND**	0.00047	**ND**
Dichlorodifluoromethane	75-71-8	4.89	**0**		0.0011	**ND**	0.00058	**ND**
Ethyl Benzene	100-41-4	0.7	**0**		0.00055	**ND**	0.00067	**ND**
Hexachlorobutadiene	87-68-3	0.012	**0**		0.0013	**ND**	0.00096	**ND**
Isopropylbenzene (Cumene)	98-82-8	2.44	**0**		0.00051	**ND**	0.00108	**ND**
Methyl tert butyl ether (MTBE)	1634-04-4	0.244	**0**		0.00073	**ND**	0.00037	**ND**
Methylene Bromide (Dibromomethane)	74-95-3	0.122	**0**		0.00065	**ND**	0.0005	**ND**
Methylene Chloride (Dichloromethane)	75-09-2	0.005	**0**		0.00041	**ND**	0.003	**ND**
Naphthalene	91-20-3	0.489	**0**		0.00065	**ND**	0.001	**ND**
n-Butylbenzene	104-51-8	1.22	**0**		0.00063	**ND**	0.00068	**ND**
n-Propylbenzene	103-65-1	0.978	**0**		0.00057	**ND**	0.00084	**ND**
p-Isopropyltoluene	99-87-6	2.44	**0**		0.00065	**ND**	0.00039	**ND**
sec-Butylbenzene	135-98-8	0.978	**0**		0.00052	**ND**	0.00089	**ND**
Styrene	100-42-5	0.1	**0**		0.00056	**ND**	0.00114	**ND**
tert-Butylbenzene	98-06-6	0.978	**0**		0.0013	**ND**	0.00035	**ND**
Tetrachloroethene (Perchloroethylene)	127-18-4	0.005	**0**		0.00091	**ND**	0.00141	**ND**
Toluene	108-88-3	1	**0**		0.00043	**ND**	0.00054	**ND**
trans-1,2-Dichloroethene	156-60-5	0.1	**0**		0.00045	**ND**	0.00092	**ND**
Trichloroethene (Trichloroethylene)	79-01-6	0.005	**0**		0.00052	**ND**	0.00039	**ND**
Trichlorofluoromethane	75-69-4	7.33	**0**		0.0012	**ND**	0.00044	**ND**
Vinyl Chloride	75-01-4	0.002	**0**		0.001	**ND**	0.00045	**ND**
Xylenes (total)	1330-20-7	10	**0**		0.0017	**ND**	0.00154	**ND**
TOTAL PETROLEUM HYDROCARBONS								
TPH (C6 - C12)	NA	0.98	**0**		0.58	**ND**	0.533	**ND**
TPH (C12 - C28)	NA	0.98	**0**		0.9	**ND**	0.462	**ND**
TPH (C28 - C35)	NA	0.98	**0**		0.9	**ND**	0.533	**ND**
TPH Total (C6 - C35)	NA	0.98	**0**		0.58	**ND**	0.786	**ND**
DISSOLVED GASES								
Methane	74-82-8	NL	**0.0246**		0.00016	**ND**	0.00069	**0.0246**
Ethane	74-84-0	NL	**0**		0.00032	**ND**	0.0031	**ND**
Ethene	74-85-1	NL	**0**		0.00043	**ND**	0.0031	**ND**
METHANOL AND GLYCOLS								
Methanol	67-56-1	12	**0**			**NT**	2.84	**ND**
Ethylene Glycol	107-21-1	49	**0**		0.56	**ND**	25.0	**ND**
Propylene Glycol	57-55-6	490	**0**			**NT**	25.0	**ND**

Remarks:

All concentrations in mg/L

Δ= % change in value between first and second sampling events

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance

Please see laboratory data sheets for additional detail

Table 19: Groundwater Results - Water Quality Parameters (Well I)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well I 3/2/2011		Well I 3/26/2012		
Compound	**CAS**	**NPDWS**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**	
Hexavalent Chromium	18540-29-9	NL	**0**			**NT**	0.005	**ND**	
Conductivity (uS/cm)	NL	NL	**1780**			**NT**	1.00	**1780**	
Chloride	16887-00-6	250	**350**	**-0.13**	3.8	**350**	50.0	**303**	
Sulfate	14808-79-8	250	**201**			**NT**	20.0	**201**	
Oil and Grease	C-007	NL	**0**			**NT**	0.93	**ND**	
Bicarbonate Alkalinity (mg $CaCO_3$ /L)	71-52-3	NL	**206**			**NT**	20.0	**206**	
Total Dissolved Solids	WC-70300	500	**1760**	**-0.40**	2.9	**1760**	5.07	**1050**	Q-18
Total Suspended Solids	NL	NL	**0**			**NT**	2.50	**ND**	
pH	WC-00403	6.5-8.5	**7.64**	**-0.15**	NL	**7.64**	0.1	**6.5**	S-06
Methylene Blue Active Substances [1]	NL	0.5	**0.107**			**NT**	0.073	**0.107**	J
Turbidity (NTU)	NL	5	**2.3**			**NT**	0.50	**2.3**	
Sulfur	7704-34-9	NL	**77.2**			**NT**	5	**77.2**	

Table 20: Groundwater Results - Metals (Well I)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well I 3/2/2011			Well I 3/26/2012		
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
Arsenic	7440-38-2	0.01	**0**			**NT**		0.01	**ND**	
Barium	7440-39-3	2.0	**0.0502**	**-0.28**	0.0034	**0.0502**	B	0.0002	**0.036**	
Cadmium	7440-43-9	0.005	**0**			**NT**		0.0003	**ND**	
Calcium	7440-70-2	NL	**83.4**			**NT**		0.11	**83.4**	
Chromium	7440-47-3	0.10	**0**			**NT**		0.001	**ND**	
Iron [2]	7439-89-6	0.3	**9.11**			**NT**		0.01	**9.11**	
Lead	7439-92-1	0.015	**0.002**			**NT**		0.001	**0.002**	
Magnesium	7439-95-4	NL	**27.7**			**NT**		0.005	**27.7**	Q-21
Manganese	7439-96-5	1.1	**0.741**			**NT**		0.0002	**0.741**	
Potassium	7440-09-7	NL	**2.19**			**NT**		0.217	**2.19**	
Selenium	7782-49-2	0.05	**0**			**NT**		0.003	**ND**	
Silver	7440-22-4	0.12	**0**			**NT**		0.001	**ND**	
Sodium	7440-23-5	NL	**271**	**-0.15**	0.1	**271**		0.17	**231**	Q-21
Strontium	7440-24-6	1.5	**1.47**	**-0.32**	0.01	**1.47**		0.0003	**0.998**	
Mercury	7439-97-6	0.0078	**0**			**NT**		0.00004	**ND**	

Remarks:

All concentrations in mg/L unless otherwise noted

RAL = Residential Assessment Level (Applicable TRRP Critical PCL or BG Value); TRRP PCLs Published: May 2011

NDWR= National Drinking Water Regulation; Δ= % change in value between first and second sampling events

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance; B=analyte found in associated method blank

1- value listed for foaming agents; 2- NDWR standard

Please see laboratory data sheets for additional details

Table 21: Groundwater Results - Organic Compounds (Well I)

Trinity Pad Site					Sample Point:		Well I		Well I	
Colleyville, Texas					Sample Date:		3/2/2011		3/26/2012	
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
VOLATILE ORGANIC COMPOUNDS										
1,1,1,2-Tetrachloroethane	630-20-6	0.035	**0**		0.0008	**ND**		0.00086	**ND**	
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	0.2	**0**		0.00062	**ND**		0.00098	**ND**	
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	**0**		0.0012	**ND**		0.0004	**ND**	
1,1,2-Trichloroethane	79-00-5	0.005	**0**		0.00098	**ND**		0.00055	**ND**	
1,1-Dichloroethane	75-34-3	4.9	**0**		0.00052	**ND**		0.00057	**ND**	
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	0.007	**0**		0.0005	**ND**		0.00037	**ND**	
1,1-Dichloropropene	563-58-6	0.0091	**0**		0.00078	**ND**		0.00105	**ND**	
1,2,3-Trichlorobenzene	87-61-6	0.073	**0**		0.0011	**ND**		0.00096	**ND**	
1,2,3-Trichloropropane	96-18-4	0.00003	**0**		0.0013	**ND**		0.0006	**ND**	
1,2,4-Trichlorobenzene	120-82-1	0.07	**0**		0.00082	**ND**		0.0009	**ND**	
1,2,4-Trimethylbenzene	95-63-6	1.2	**0**		0.00065	**ND**		0.00084	**ND**	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.0002	**0**		0.0019	**ND**		0.00098	**ND**	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00005	**0**		0.00055	**ND**		0.0004	**ND**	
1,2-Dichlorobenzene	95-50-1	0.6	**0**		0.00069	**ND**		0.00035	**ND**	
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	0.005	**0**		0.00062	**ND**		0.0004	**ND**	
1,2-Dichloropropane (Propylene Dichloride)	78-87-5	0.005	**0**		0.00062	**ND**		0.00036	**ND**	
1,3,5-Trimethylbenzene	108-67-8	1.2	**0**		0.0007	**ND**		0.00033	**ND**	
1,3-Dichlorobenzene	541-73-1	0.733	**0**		0.001	**ND**		0.00039	**ND**	
1,3-Dichloropropane	142-28-9	0.009	**0**		0.00054	**ND**		0.0007	**ND**	
1,4-Dichlorobenzene	106-46-7	0.075	**0**		0.001	**ND**		0.00038	**ND**	
2,2-Dichloropropane	594-20-7	0.013	**0**		0.00062	**ND**		0.00126	**ND**	
2-Chlorotoluene	95-49-8	0.489	**0**		0.0007	**ND**		0.00033	**ND**	
4-Chlorotoluene	106-43-4	0.489	**0**		0.00056	**ND**		0.00055	**ND**	
Benzene	71-43-2	0.005	**0**		0.0005	**ND**		0.00062	**ND**	
Bromobenzene	108-86-1	0.196	**0**		0.00082	**ND**		0.00075	**ND**	
Bromochloromethane	74-97-5	0.978	**0**		0.0016	**ND**		0.00052	**ND**	
Bromodichloromethane	75-27-4	0.015	**0**		0.00049	**ND**		0.00033	**ND**	
Bromoform (Tribromomethane)	75-25-2	0.116	**0**		0.0014	**ND**		0.00069	**ND**	
Bromomethane (Methyl Bromide)	74-83-9	0.034	**0**		0.00094	**ND**		0.00056	**ND**	
Carbon Tetrachloride	56-23-5	0.005	**0**		0.00066	**ND**		0.00147	**ND**	
Chlorobenzene	108-90-7	0.1	**0**		0.00056	**ND**		0.00053	**ND**	
Chloroethane (Ethyl Chloride)	75-00-3	9.78	**0**		0.00092	**ND**		0.00056	**ND**	
Chloroform	67-66-3	0.244	**0**		0.00064	**ND**		0.00051	**ND**	
Chloromethane (Methyl Chloride)	74-87-3	0.07	**0**		0.00084	**ND**		0.00167	**ND**	
cis-1,2-Dichloroethene	156-59-2	0.07	**0**		0.00056	**ND**		0.00045	**ND**	
Dibromochloromethane	124-48-1	0.011	**0**		0.00061	**ND**		0.00047	**ND**	
Dichlorodifluoromethane	75-71-8	4.89	**0**		0.0011	**ND**		0.00058	**ND**	
Ethyl Benzene	100-41-4	0.7	**0**		0.00055	**ND**		0.00067	**ND**	
Hexachlorobutadiene	87-68-3	0.012	**0**		0.0013	**ND**		0.00096	**ND**	
Isopropylbenzene (Cumene)	98-82-8	2.44	**0**		0.00051	**ND**		0.00108	**ND**	
Methyl tert butyl ether (MTBE)	1634-04-4	0.244	**0**		0.00073	**ND**		0.00037	**ND**	
Methylene Bromide (Dibromomethane)	74-95-3	0.122	**0**		0.00065	**ND**		0.0005	**ND**	
Methylene Chloride (Dichloromethane)	75-09-2	0.005	**0**		0.00041	**ND**		0.003	**ND**	
Naphthalene	91-20-3	0.489	**0**		0.00065	**ND**		0.001	**ND**	
n-Butylbenzene	104-51-8	1.22	**0**		0.00063	**ND**		0.00068	**ND**	
n-Propylbenzene	103-65-1	0.978	**0**		0.00057	**ND**		0.00084	**ND**	
p-Isopropyltoluene	99-87-6	2.44	**0**		0.00065	**ND**		0.00039	**ND**	
sec-Butylbenzene	135-98-8	0.978	**0**		0.00052	**ND**		0.00089	**ND**	
Styrene	100-42-5	0.1	**0**		0.00056	**ND**		0.00114	**ND**	
tert-Butylbenzene	98-06-6	0.978	**0**		0.0013	**ND**		0.00035	**ND**	
Tetrachloroethene (Perchloroethylene)	127-18-4	0.005	**0**		0.00091	**ND**		0.00141	**ND**	
Toluene	108-88-3	1	**0**		0.00043	**ND**		0.00054	**ND**	
trans-1,2-Dichloroethene	156-60-5	0.1	**0**		0.00045	**ND**		0.00092	**ND**	
Trichloroethene (Trichloroethylene)	79-01-6	0.005	**0**		0.00052	**ND**		0.00039	**ND**	
Trichlorofluoromethane	75-69-4	7.33	**0**		0.0012	**ND**		0.00044	**ND**	
Vinyl Chloride	75-01-4	0.002	**0**		0.001	**ND**		0.00045	**ND**	
Xylenes (total)	1330-20-7	10	**0**		0.0017	**ND**		0.00154	**ND**	
TOTAL PETROLEUM HYDROCARBONS										
TPH (C6 - C12)	NA	0.98	0		0.59	**ND**		0.519	**ND**	
TPH (C12 - C28)	NA	0.98	**0**		0.9	**ND**		0.450	**ND**	
TPH (C28 - C35)	NA	0.98	**0**		0.9	**ND**		0.519	**ND**	
TPH Total (C6 - C35)	NA	0.98	**0**		0.59	**ND**		0.765	**ND**	
DISSOLVED GASES										
Methane	74-82-8	NL	**0.0112**		0.00016	**ND**		0.00069	**0.0112**	
Ethane	74-84-0	NL	**0**		0.00032	**ND**		0.0031	**ND**	
Ethene	74-85-1	NL	**0**		0.00043	**ND**		0.0031	**ND**	
METHANOL AND GLYCOLS										
Methanol	67-56-1	12	**0**			**NT**		2.84	**ND**	
Ethylene Glycol	107-21-1	49	**1.4**		0.56	**1.4**	J	25.0	**ND**	
Propylene Glycol	57-55-6	490	**0**			**NT**		25.0	**ND**	

Remarks:

All concentrations in mg/L

Δ= % change in value between first and second sampling events

RAL = Residential Assessment Level (Applicable TRRP Critical PCL)

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance

Please see laboratory data sheets for additional detail

Table 22: Groundwater Results - Water Quality Parameters (Well K)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well K 1/20/2012			Well K 4/3/2012		
Compound	**CAS**	**NPDWS**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
Hexavalent Chromium	18540-29-9	NL	**0**		0.005	**ND**		0.005	**ND**	
Conductivity (uS/cm)	NL	NL	**3640**	**-0.01**	1	**3640**		1	**3590**	
Chloride	16887-00-6	250	**77.4**	**0.04**	0.05	**74.4**		0.05	**77.4**	R-01
Sulfate	14808-79-8	250	**1370**	**-0.01**	3.6	**1370**		0.36	**1350**	R-01
Oil and Grease	C-007	NL	**6.94**		1.06	**6.94**		1	**ND**	
Bicarbonate Alkalinity (mg $CaCO_3$/L)	71-52-3	NL	**426**	**-0.08**	20	**426**		20	**392**	
Total Dissolved Solids	WC-70300	500	**2660**	**-0.02**	12.7	**2660**		5.07	**2600**	
Total Suspended Solids	NL	NL	**0**		2.63	**ND**		2.63	**ND**	
pH	WC-00403	6.5-8.5	**8.1**	**0.01**	0.1	**8**		0.1	**8.1**	S-06
Methylene Blue Active Substances [1]	NL	0.5	**0.618**		0.073	**0.618**		0.073	**ND**	
Turbidity (NTU)	NL	5	**7.4**	**3.11**	0.5	**1.8**		0.50	**7.4**	
Sulfur	7704-34-9	NL	**481**			**NT**		10	**481**	

Table 23: Groundwater Results - Metals (Well K)

Trinity Pad Site Colleyville, Texas			Sample Point: Sample Date:		Well K 1/20/2012			Well K 4/3/2012		
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**		**SDL**	**Result**	
Arsenic	7440-38-2	0.01	**0.02**		0.01	**0.02**		0.01	**ND**	
Barium	7440-39-3	2.0	**0.021**	**-0.38**	0.0002	**0.021**	B	0.0002	**0.013**	
Cadmium	7440-43-9	0.005	**0.0003**		0.0003	**0.0003**	J	0.0003	**ND**	
Calcium	7440-70-2	NL	**12.8**	**-0.08**	0.11	**12.8**		0.11	**11.8**	
Chromium	7440-47-3	0.10	**0**		0.001	**ND**		0.001	**ND**	
Iron [2]	7439-89-6	0.3	**1.29**	**0.45**	0.01	**0.89**		0.01	**1.29**	
Lead	7439-92-1	0.015	**0.003**	**-0.33**	0.001	**0.003**		0.001	**0.002**	
Magnesium	7439-95-4	NL	**10.6**	**0.17**	0.005	**9.09**		0.005	**10.6**	
Manganese	7439-96-5	1.1	**0.037**	**-0.49**	0.0008	**0.037**		0.0002	**0.019**	
Potassium	7440-09-7	NL	**6.06**	**0.54**	0.217	**3.93**		0.217	**6.06**	Q-20
Selenium	7782-49-2	0.05	**0.003**		0.003	**0.003**	J	0.003	**ND**	
Silver	7440-22-4	0.12	**0**		0.001	**ND**		0.001	**ND**	
Sodium	7440-23-5	NL	**934**	**-0.09**	0.17	**934**	Q-20	0.17	**847**	Q-21
Strontium	7440-24-6	1.5	**1.7**	**0.16**	0.0003	**1.46**		0.0003	**1.7**	Q-21
Mercury	7439-97-6	0.0078	**0**		0.00004	**ND**	Q-21	0.00004	**ND**	

Remarks:

All concentrations in mg/L unless otherwise noted

RAL = Residential Assessment Level (Applicable TRRP Critical PCL or BG Value); TRRP PCLs Published: May 2011

NDWR= National Drinking Water Regulation; Δ= % change in value between first and second sampling events

SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested

R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit

Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected

S-06=estimated value due to holding time exceedance; B=analyte found in associated method blank

1- value listed for foaming agents; 2- NDWR standard

Please see laboratory data sheets for additional details

Table 24: Groundwater Results - Organic Compounds (Well K)

Trinity Pad Site			Sample Point:		Well K		Well K	
Colleyville, Texas			Sample Date:		1/20/2012		4/3/2012	
Compound	**CAS**	**RAL**	**Max**	**Δ**	**SDL**	**Result**	**SDL**	**Result**
VOLATILE ORGANIC COMPOUNDS								
1,1,1,2-Tetrachloroethane	630-20-6	0.035	**0**		0.00086	**ND**	0.00086	**ND**
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	0.2	**0**		0.00098	**ND**	0.00098	**ND**
1,1,2,2-Tetrachloroethane	79-34-5	0.0046	**0**		0.0004	**ND**	0.0004	**ND**
1,1,2-Trichloroethane	79-00-5	0.005	**0**		0.00055	**ND**	0.00055	**ND**
1,1-Dichloroethane	75-34-3	4.9	**0**		0.00057	**ND**	0.00057	**ND**
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	0.007	**0**		0.00037	**ND**	0.00037	**ND**
1,1-Dichloropropene	563-58-6	0.0091	**0**		0.00105	**ND**	0.00105	**ND**
1,2,3-Trichlorobenzene	87-61-6	0.073	**0**		0.00096	**ND**	0.00096	**ND**
1,2,3-Trichloropropane	96-18-4	0.00003	**0**		0.0006	**ND**	0.0006	**ND**
1,2,4-Trichlorobenzene	120-82-1	0.07	**0**		0.0009	**ND**	0.0009	**ND**
1,2,4-Trimethylbenzene	95-63-6	1.2	**0**		0.00084	**ND**	0.00084	**ND**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.0002	**0**		0.00098	**ND**	0.00098	**ND**
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.00005	**0**		0.0004	**ND**	0.0004	**ND**
1,2-Dichlorobenzene	95-50-1	0.6	**0**		0.00035	**ND**	0.00035	**ND**
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	0.005	**0**		0.0004	**ND**	0.0004	**ND**
1,2-Dichloropropane (Propylene Dichloride)	78-87-5	0.005	**0**		0.00036	**ND**	0.00036	**ND**
1,3,5-Trimethylbenzene	108-67-8	1.2	**0**		0.00033	**ND**	0.00033	**ND**
1,3-Dichlorobenzene	541-73-1	0.733	**0**		0.00039	**ND**	0.00039	**ND**
1,3-Dichloropropane	142-28-9	0.009	**0**		0.0007	**ND**	0.0007	**ND**
1,4-Dichlorobenzene	106-46-7	0.075	**0**		0.00038	**ND**	0.00038	**ND**
2,2-Dichloropropane	594-20-7	0.013	**0**		0.00126	**ND**	0.00126	**ND**
2-Chlorotoluene	95-49-8	0.489	**0**		0.00033	**ND**	0.00033	**ND**
4-Chlorotoluene	106-43-4	0.489	**0**		0.00055	**ND**	0.00055	**ND**
Benzene	71-43-2	0.005	**0**		0.00062	**ND**	0.00062	**ND**
Bromobenzene	108-86-1	0.196	**0**		0.00075	**ND**	0.00075	**ND**
Bromochloromethane	74-97-5	0.978	**0**		0.00052	**ND**	0.00052	**ND**
Bromodichloromethane	75-27-4	0.015	**0**		0.00033	**ND**	0.00033	**ND**
Bromoform (Tribromomethane)	75-25-2	0.116	**0**		0.00069	**ND**	0.00069	**ND**
Bromomethane (Methyl Bromide)	74-83-9	0.034	**0**		0.00056	**ND**	0.00056	**ND**
Carbon Tetrachloride	56-23-5	0.005	**0**		0.00147	**ND**	0.00147	**ND**
Chlorobenzene	108-90-7	0.1	**0**		0.00053	**ND**	0.00053	**ND**
Chloroethane (Ethyl Chloride)	75-00-3	9.78	**0**		0.00056	**ND**	0.00056	**ND**
Chloroform	67-66-3	0.244	**0**		0.00051	**ND**	0.00051	**ND**
Chloromethane (Methyl Chloride)	74-87-3	0.07	**0**		0.00167	**ND**	0.00167	**ND**
cis-1,2-Dichloroethene	156-59-2	0.07	**0**		0.00045	**ND**	0.00045	**ND**
Dibromochloromethane	124-48-1	0.011	**0**		0.00047	**ND**	0.00047	**ND**
Dichlorodifluoromethane	75-71-8	4.89	**0**		0.00058	**ND**	0.00058	**ND**
Ethyl Benzene	100-41-4	0.7	**0**		0.00067	**ND**	0.00067	**ND**
Hexachlorobutadiene	87-68-3	0.012	**0**		0.00096	**ND**	0.00096	**ND**
Isopropylbenzene (Cumene)	98-82-8	2.44	**0**		0.00108	**ND**	0.00108	**ND**
Methyl tert butyl ether (MTBE)	1634-04-4	0.244	**0**		0.00037	**ND**	0.00037	**ND**
Methylene Bromide (Dibromomethane)	74-95-3	0.122	**0**		0.0005	**ND**	0.0005	**ND**
Methylene Chloride (Dichloromethane)	75-09-2	0.005	**0**		0.003	**ND**	0.003	**ND**
Naphthalene	91-20-3	0.489	**0**		0.001	**ND**	0.001	**ND**
n-Butylbenzene	104-51-8	1.22	**0**		0.00068	**ND**	0.00068	**ND**
n-Propylbenzene	103-65-1	0.978	**0**		0.00084	**ND**	0.00084	**ND**
p-Isopropyltoluene	99-87-6	2.44	**0**		0.00039	**ND**	0.00039	**ND**
sec-Butylbenzene	135-98-8	0.978	**0**		0.00089	**ND**	0.00089	**ND**
Styrene	100-42-5	0.1	**0**		0.00114	**ND**	0.00114	**ND**
tert-Butylbenzene	98-06-6	0.978	**0**		0.00035	**ND**	0.00035	**ND**
Tetrachloroethene (Perchloroethylene)	127-18-4	0.005	**0**		0.00141	**ND**	0.00141	**ND**
Toluene	108-88-3	1	**0**		0.00054	**ND**	0.00054	**ND**
trans-1,2-Dichloroethene	156-60-5	0.1	**0**		0.00092	**ND**	0.00092	**ND**
Trichloroethene (Trichloroethylene)	79-01-6	0.005	**0**		0.00039	**ND**	0.00039	**ND**
Trichlorofluoromethane	75-69-4	7.33	**0**		0.00044	**ND**	0.00044	**ND**
Vinyl Chloride	75-01-4	0.002	**0**		0.00045	**ND**	0.00045	**ND**
Xylenes (total)	1330-20-7	10	**0**		0.00154	**ND**	0.00154	**ND**
TOTAL PETROLEUM HYDROCARBONS								
TPH (C6 - C12)	NA	0.98	0		0.615	**ND**	1.78	**ND**
TPH (C12 - C28)	NA	0.98	**0**		0.237	**ND**	0.217	**ND**
TPH (C28 - C35)	NA	0.98	**0**		0.071	**ND**	0.065	**ND**
TPH Total (C6 - C35)	NA	0.98	**0**		0.906	**ND**	1.78	**ND**
DISSOLVED GASES								
Methane	74-82-8	NL	**0.064**	**0.23**	0.01	**0.0519**	0.00069	**0.064**
Ethane	74-84-0	NL	**0**		0.005	**ND**	0.0062	**ND**
Ethene	74-85-1	NL	**0**		0.005	**ND**	0.0062	**ND**
METHANOL AND GLYCOLS								
Methanol	67-56-1	12	**0**			**NT**	10.0	**ND**
Ethylene Glycol	107-21-1	49	**0**		25	**ND**	25.0	**ND**
Propylene Glycol	57-55-6	490	**0**		25	**ND**	25.0	**ND**

Remarks:

All concentrations in mg/L
Δ= % change in value between first and second sampling events
RAL = Residential Assessment Level (Applicable TRRP Critical PCL)
SDL = Sample Detection Limit; ND = Not Detected; NL=Not Listed; NT=Not Tested
R-01= high reporting limit due to dilution required for sample analysis; J = estimated value below reporting limit
Q-20=high bias to result presented; Q-21=low bias to result presented; Q-22=result was not as precise as expected
S-06=estimated value due to holding time exceedance
Please see laboratory data sheets for additional detail

FIGURES

FIGURE 1- SITE MAP

MODERN GEOSCIENCES

Trusted Environmental Advisors

The information included in this figure was obtained from multiple sources and is subject to change without notice. Modern Geosciences does not warrant the accuracy or rights concerning use of third party information. This figure is not intended for use as a survey or construction design document. The use or misuse of the data provided is at the sole risk of the party using or misusing the information.

MODERN GEOSCIENCES

PROJECT NO.	DFW12028
DRAWN:	5.25.12
DRAWN BY:	CS
CHECKED BY:	KT
FILE NAME:	Colleyville_WWBaseline_052512.mxd

SITE MAP

City of Colleyville
Post-Fracturing Water Well Evaluation
Colleyville, Texas

FIGURE

1

APPENDIX

LABORATORY ANALYTICAL DATA SHEET AND CHAIN OF CUSTODY DOCUMENTATION

MODERN GEOSCIENCES

Trusted Environmental Advisors

*Per J.J 3/26/2012

CHAIN OF CUSTODY RECORD

MODERN GEOSCIENCES

Laboratory: Ermi/Pace
Address: Allen TX

Office Location: 904 Industrial Blvd, St 105 Colleyville TX
Contact: Shelly Conwelly
Phone:
Project Manager: Kenneth Tramm
PO/SO #:
Sampler's Name: J.J. Hollingshead
Sampler's Signature:
Project No.: * DFW012028
Project Name: * Colleyville Trinity Pad Site

Page 1 of 1

Turn around time:
[X] Normal [ ] 25% Rush
[ ] 50% Rush [ ] 100% Rush

Temp of coolers when received (C°): 1: 16°C 2 3 4 5

See Attached list for Analysis requested

ANALYSIS REQUESTED: See Attached list

Matrix	Date	Time	Comp	Grab	Sample ID:	VOA	A/G 1 Lt.	250 ml	P/O	See Attached list	Lab Sample ID
W	3/26/12	0900		X	WWB	X			X	X	1203688-01
W	3/26/12	1000		X	WWG	X			X	X	1203688-02

Relinquished by (signature):	Date / Time:	Received by (signature):	Date / Time:
[signature]	3/26/12 11:13	Andy Dominguez	3-26-12 11:13
Andy Dominguez	3/26-12 1:25	Melissa McCulley	3-26-12 1325

Notes: Please email results to: ktramm@modernygeosciences.com jhollingshead@modernygeosciences.com
E-mail results to:

Matrix: WW - Wastewater, W - Water, S- Soil, SD - Solid, L - Liquid, A - Air Sample, C - Charcoal Tube, SL - Sludge, O - Oil
Container: VOA - 40 ml vial, A/G - Amber / or Glass 1 Liter, 250 ml - Glass Wide Mouth, P/O - Plastic or other _____

WHITE - LABORATORY
YELLOW - RETAINED COPY

12036AS

Analyte	Method	Container Size, Notes on Sampling/Preservation
VOC	EPA 8260B	3 - 40ml w/HCL voas for 8260 [Green Cap]
TPH	TX 1005	3 - 40ml w/HCL preweighed voas for TPH-1005 [Red Cap]
Methane, Ethane, and Ethene	RSK 175	3 - 30ml voas w/silver screw cap for RSK-175 [Silver Cap]
Methanol	8015B	3 - 40ml unpreserved voas for Methanol [White Cap]
Glycols	8015B	1 - 1L amber glass unpreserved for Glycols
Oil and Grease	EPA9070A	1 - 1L clear glass w/H2SO4 for O&G
TSS	SM2540D	1 - 1000ml unpreserved plastic for TSS
Hexavalent Chromium	7196A	1 - 1000ml unpreserved plastic for Alk, Cl, Cr+6, MBAS, pH, Cond, SO4, TDS, Turbidity
TDS	SM2540C	
Chloride	EPA 9056A	
Sulfate	EPA 9056A	
pH	SM4500H+B	
Bicarbonate Alkalinity	SM2320B	
Conductivity	EPA 9050A	
Turbidity	EPA 180.1	
Methylene Blue Active Substances	SM5540C	
Sulfur	EPA 6010B	1 - 500ml plastic w/HNO3 for Sulfur
RCRA 8 (As, Ba, Cd, Cr, Pb, Hg*, Se,Ag)	EPA 6010B	1 - 500ml plastic w/HNO3 for Total Metals
Calcium	EPA 6010B	
Iron	EPA 6010B	
Magnesium	EPA 6010B	
Manganese	EPA 6010B	
Potassium	EPA 6010B	
Sodium	EPA 6010B	
Strontium	EPA 6010B	
*Mercury- EPA 7470A		

1203688

MODERN GEOSCIENCES
CUSTODY SEAL CUSTODY SEAL CUSTOD
Date / Time Sealed: 3/26/12

Falcon X-Press We Deliver
P.O. BOX 940303
PLANO, TX 75094-0303
(972) 881-7577

NOTARY SERVICE AVAILABLE

No.

SHIPPER	NAME	Modern Geo Sciens
	ADDRESS	1404 Industrial blvd SUITE 105
	CITY	Colleyville Texas 76034
	REFERENCE NO.	
CONSIGNEE	NAME	PACE
	ADDRESS	4120 Bethany SUITE
	CITY	Plano Texas
	ATTN:	

DATE 3-26-12

Falcon Charges	Type of Delivery
☐ PREPAID	☐ X-Press
☐ COLLECT	☐ 2 HOUR
☐ ROUND TRIP	☐ 4 HOUR
☐ NIGHT-WEEKEND	☐ NEXT DAY

NO. PCS.	DESCRIPTION AND REMARKS	WEIGHT	CHARGES	
	LAB SAMPLE		WEIGHT CHARGE	
			WAITING TIME CHG	
			DELIVERY CHARGE	
WAITING TIME			TOTAL CHARGES	

NOT RESPONSIBLE FOR FREIGHT CLAIMS AFTER 72 HRS. NOT RESPONSIBLE FOR CONCEALED DAMAGE, DUE AND PAYABLE PLANO, COLLIN COUNTY, TEXAS

$50 DECLARED VALUE UNLESS SPECIFIED HERE $

DRIVER NAME & NO.	DRIVER NAME & NO.	TIME OF DEL.	RECEIVED BY	RECEIVED BY
Andy	Bringuez		X Helen M. Cully	X

MODERN GEOSCIENCES
DY SEAL CUSTODY SEAL CUSTODY SEAL
059 Initials: JH.

Lab Number(s): 1203688

ERMI

Sample Preservation Documentation*

On Ice (Circle One): YES OR NO (check if on Dry Ice_____)

Parameters	Containers #	Size	Required Preservation	Sample Container	Circle pH Note any discrepancy
* Metals	4	500 ml	pH < 2	Glass or Plastic	pH < 2
Dissolved Metals			Unpreserved prior to being filtered, Cool**	Glass or Plastic	
Hexavalent Chromium			CWA - pH 9.3-9.7, Cool; RCRA - Cool	Glass or Plastic	Checked At Analysis
Semivolatiles, Pesticides, PCBs, Herbicides			Cool	Glass only with Teflon lid	Chlorine ☐yes ☐no
VOA (BTEX, MTBE, 624, 8260, TPH-GRO) methanol	12	40 ml	Cool, pH < 2 Zero Head Space	40 ml VOA vial	DO NOT OPEN
VOA (TPH-1005)	6	40 ml	Cool, Zero Head Space Please check if collected in pre-weighed vials ✓	40 ml VOA vial	DO NOT OPEN
Phos., NO_3/NO_2, NH_3N, COD, TKN,TOC			Cool, pH < 2	Glass or Plastic	pH < 2
TDS, BOD, Cr+6 CBOD, Cond, pH, TSS, F, SO_4, Cl, Alk, Sulfite MBAS	4	1000 ml	Cool	Glass or Plastic, Plastic only if F	
Phenols, TPH-DRO			Cool, pH < 2	Glass only Teflon lid____ Foil lid_____	pH < 2
Oil & Grease, TPH (by 1664a)	2	1L	Cool, pH < 2	Glass only Teflon lid ✓ Foil lid_____	DO NOT Check pH
Cyanide			Cool, pH >12	Glass or Plastic	pH > 12 Chlorine ☐yes ☐no Sulfide ☐yes ☐no ☐na
Sulfide			Cool, pH > 9	Glass or Plastic	pH > 9
Bacteria			Cool	Plastic Sterile Cup	
Soil, Sludge, Solid, Oil, Liquid **	2 / **6	1L / other	Cool Note: please check if collected in pre-weighed vials ✓	glass	

Metals Preserved By Login ☐yes ☑no Trip Blanks Received ☐yes ☑no

*COMMENTS: 2 sub out

** sub out

*This form is used to document sample preservation. Circle parameter requested. Fill in number and size of containers received. Check pH (adjust if needed) and note if different from what is required and make a notation of any samples not received on ice. Note any incorrect sample containers or preservation on chain-of-custody.

**Cool means cooled to ≤6°C but not frozen.

Preservation Checked By _____ 3-26-12 Date 1506 Time

1000.0-3.2 2/17/09

kdy 7/10/08

Q:\Form Masters\1000.0-3.2 Sample Preservation Form

Laboratory Data Package Cover Page

This data package for Laboratory Job Number 1203688 consists of:

- ☑ This signature page, the laboratory review checklist, and the following reportable data:
- ☑ **R1** Field chain-of-custody documentation;
- ☑ **R2** Sample identification cross-reference;
- ☑ **R3** Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ **R4** Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ **R5** Test reports/summary forms for blank samples;
- ☑ **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☑ **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ☑ **R10** Other problems or anomalies.
- ☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [ ] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Shelly Connelly	Shelly Connelly	Client Services Manager	04/05/12
Name (Printed)	Signature	Official Title (Printed)	Date

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	LRC Date:	**04/05/12**
Project Name:	**Colleyville Trinity Pad Site**	Laboratory Job Number:	**1203688**
Reviewer Name:	**Leslie Underwood**	Prep Batch Number(s):	**2C26083,2C26085,2C27051,2C27056,2C27061,2C27069,2C28058,2C28060,2C28**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
R1	**OI**	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	**OI**	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**Test reports**					
		Were all samples prepared and analyzed within holding times?		X			E001
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, TICs reported?			X		
R4	**O**	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	**OI**	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	**OI**	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	**OI**	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			E002
		Were MS/MSD RPDs within laboratory QC limits?		X			E003
R8	**OI**	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			E004
R9	**OI**	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PACE Analytical Services, Inc.

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**04/05/12**
Project Name:	**Colleyville Trinity Pad Site**	**Laboratory Job**	**1203688**
Reviewer Name:	**Leslie Underwood**	**Prep Batch Number(s):**	**2C26083,2C26085,2C27051,2C27056,2C27061,2C27069,2C28058,2C28060,2C28**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
S1	**OI**	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	**O**	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	**O**	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	**O**	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	**O**	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	**I**	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	**OI**	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	**OI**	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**04/05/12**
Project Name:	**Colleyville Trinity Pad Site**	**Laboratory Job**	**1203688**
Reviewer Name:	**Leslie Underwood**	**Prep Batch Number(s):**	**2C26083,2C26085,2C27051,2C27056,2C27061,2C27069,2C28058,2C28060,2C28076,2C28077,2C29011,2C29012,2C29021,2C29022,2C29032,2C30010,2C30017,2D04071**

ER# [1]	Description
E001	Sample 1203688-01 failed hold criteria for pH SM4500. -This sample was received outside of the EPA recommended holding time for this parameter. The result presented is, therefore, considered an estimated value. Sample 1203688-02 failed hold criteria for pH SM4500. -This sample was received outside of the EPA recommended holding time for this parameter. The result presented is, therefore, considered an estimated value.

Laboratory Review Checklist: Exception Reports

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**04/05/12**
Project Name:	**Colleyville Trinity Pad Site**	**Laboratory Job**	**1203688**
Reviewer Name:	**Leslie Underwood**	**Prep Batch Number(s):**	**2C26083,2C26085,2C27051,2C27056,2C27061,2C27069,2C28058,2C28060,2C28076,2C28077,2C29011,2C29012,2C29021,2C29022,2C29032,2C30010,2C30017,2D04071**

ER# [1]	Description
E002	Matrix Spike Recovery for Calcium (45%) was outside acceptance limits (75-125) in 2C26083-MS2 for Ca Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Magnesium (71%) was outside acceptance limits (75-125) in 2C26083-MS2 for Mg Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Calcium (36%) was outside acceptance limits (75-125) in 2C26083-MSD2 for Ca Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Sulfate (Total) as SO4 (131%) was outside acceptance limits (90-110) in 2C27061-MS2 for Sulfate 9056A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Sulfate (Total) as SO4 (127%) was outside acceptance limits (90-110) in 2C27061-MSD2 for Sulfate 9056A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Mercury (140%) was outside acceptance limits (70-130) in 2C28058-MSD1 for Hg Total CVAA 7470A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for TPH (C6-C12) (168%) was outside acceptance limits (75-125) in 2C28076-MS1 for TPH 1005 Non PST - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a high bias to the result presented for the source sample (1203688-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for TPH (C6-C35) (144%) was outside acceptance limits (75-125) in 2C28076-MS1 for TPH 1005 Non PST - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a high bias to the result presented for the source sample (1203688-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Sulfate (Total) as SO4 (120%) was outside acceptance limits (90-110) in 2C29011-MS3 for Sulfate 9056A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Sulfate (Total) as SO4 (118%) was outside acceptance limits (90-110) in 2C29011-MS4 for Sulfate 9056A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Sulfate (Total) as SO4 (123%) was outside acceptance limits (90-110) in 2C29011-MSD3 for Sulfate 9056A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Sulfate (Total) as SO4 (114%) was outside acceptance limits (90-110) in 2C29011-MSD4 for Sulfate 9056A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Styrene (56%) was outside acceptance limits (66-131) in 2C29032-MS1 for 8260 Master-Aq-TRRP - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the result presented for the source sample (1203688-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for 1,2,4-Trimethylbenzene (61%) was outside acceptance limits (66-138) in 2C29032-MSD1 for 8260 Master-Aq-TRRP - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the result presented for the source sample (1203688-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for 1,3,5-Trimethylbenzene (68%) was outside acceptance limits (70-136) in 2C29032-MSD1 for 8260 Master-Aq-TRRP - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a

Laboratory Review Checklist: Exception Reports

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**04/05/12**
Project Name:	**Colleyville Trinity Pad Site**	**Laboratory Job**	**1203688**
Reviewer Name:	**Leslie Underwood**	**Prep Batch Number(s):**	**2C26083,2C26085,2C27051,2C27056,2C27061,2C27069,2C28058,2C28060,2C28076,2C28077,2C29011,2C29012,2C29021,2C29022,2C29032,2C30010,2C30017,2D04071**

ER# [1]	Description
E003	combination of these factors. This indicates a low bias to the result presented for the source sample (1203688-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Styrene (37%) was outside acceptance limits (66-131) in 2C29032-MSD1 for 8260 Master-Aq-TRRP - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the result presented for the source sample (1203688-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for Mercury (54%) was above the acceptance limit (20) in 2C28058-MSD1 for Hg Total CVAA 7470A - The RPD of this analyte between the MS(s) was outside of the acceptable range. This indicates the result was not as precise as expected for the source sample (1203688-02) reported from this batch. The RPD of this same analyte between the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for TPH (>C12-C28) (25%) was above the acceptance limit (20) in 2C28076-MSD1 for TPH 1005 Non PST - The RPD of this analyte between the MS(s) was outside of the acceptable range. This indicates the result was not as precise as expected for the source sample (1203688-02) reported from this batch.The RPD of this same analyte between the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for TPH (>C28-C35) (25%) was above the acceptance limit (20) in 2C28076-MSD1 for TPH 1005 Non PST - The RPD of this analyte between the MS(s) was outside of the acceptable range. This indicates the result was not as precise as expected for the source sample (1203688-02) reported from this batch.The RPD of this same analyte between the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for TPH (C6-C12) (76%) was above the acceptance limit (20) in 2C28076-MSD1 for TPH 1005 Non PST - The RPD of this analyte between the MS(s) was outside of the acceptable range. This indicates the result was not as precise as expected for the source sample (1203688-02) reported from this batch.The RPD of this same analyte between the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for TPH (C6-C35) (58%) was above the acceptance limit (20) in 2C28076-MSD1 for TPH 1005 Non PST - The RPD of this analyte between the MS(s) was outside of the acceptable range. This indicates the result was not as precise as expected for the source sample (1203688-02) reported from this batch.The RPD of this same analyte between the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for 1,2,4-Trimethylbenzene (22%) was above the acceptance limit (21) in 2C29032-MSD1 for 8260 Master-Aq-TRRP - The RPD of this analyte between the MS(s) was outside of the acceptable range. This indicates the result was not as precise as expected for the source sample (1203688-02) reported from this batch.The RPD of this same analyte between the LCS(s) was within the acceptable range. Matrix Spike Duplicate RPD for Styrene (42%) was above the acceptance limit (23) in 2C29032-MSD1 for 8260 Master-Aq-TRRP - The RPD of this analyte between the MS(s) was outside of the acceptable range. This indicates the result was not as precise as expected for the source sample (1203688-02) reported from this batch.The RPD of this same analyte between the LCS(s) was within the acceptable range.
E004	Duplicate RPD for Total Dissolved Solids (15%) was above the acceptance limit (6) in 2C29021-DUP1 for Solids TDS SM2540C - The RPD between duplicate analyses was outside of the acceptable range. This indicates the result was not as precise as expected for the source sample (1203688-02) reported from this batch.

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

PACE Analytical Services, Inc. certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
1203688-01	WWB	Aqueous	03/26/12 09:00	03/26/12 13:25
1203688-02	WWG	Aqueous	03/26/12 10:00	03/26/12 13:25

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Shelly Connelly

Shelly Connelly
Client Services Manager

Arkansas: 88-0647
Oklahoma: 8727

Louisiana: 02007
Kansas: E-10388
Texas: T104704232-11-3

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWB
Sample Date/Time: 03/26/12 0900

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Methanol, EPA 8015B mod										
Methanol	**ND**	2.84	10	mg/l	1.00	V5	2D04071	04/04/12 1329	BM	
Glycols, EPA 8015B mod										
Ethylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2C28077	03/28/12 2037	TA	
Propylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2C28077	03/28/12 2037	TA	

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWB
Sample Date/Time: 03/26/12 0900

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B										
Benzene	**ND**	0.000620	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Bromobenzene	**ND**	0.000750	0.003	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Bromochloromethane	**ND**	0.000520	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Bromodichloromethane	**ND**	0.000330	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Bromoform (Tribromomethane)	**ND**	0.000690	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Bromomethane (Methyl Bromide)	**ND**	0.000560	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
n-Butylbenzene	**ND**	0.000680	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
sec-Butylbenzene	**ND**	0.000890	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
tert-Butylbenzene	**ND**	0.000350	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Carbon Tetrachloride	**ND**	0.00147	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Chlorobenzene	**ND**	0.000530	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Chloroethane (Ethyl Chloride)	**ND**	0.000560	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Chloroform	**ND**	0.000510	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Chloromethane (Methyl Chloride)	**ND**	0.00167	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
2-Chlorotoluene	**ND**	0.000330	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
4-Chlorotoluene	**ND**	0.000550	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Dibromochloromethane (Chlorodibromo...)	**ND**	0.000470	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.000980	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.000400	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,2-Dichlorobenzene	**ND**	0.000350	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,3-Dichlorobenzene	**ND**	0.000390	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,4-Dichlorobenzene	**ND**	0.000380	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Dichlorodifluoromethane	**ND**	0.000580	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,1-Dichloroethane	**ND**	0.000570	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.000400	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	**0.00139**	0.000370	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	J
cis-1,2-Dichloroethene	**ND**	0.000450	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
trans-1,2-Dichloroethene	**ND**	0.000920	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWB
Sample Date/Time: 03/26/12 0900

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.000360	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,3-Dichloropropane	**ND**	0.000700	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
2,2-Dichloropropane	**ND**	0.00126	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,1-Dichloropropene	**ND**	0.00105	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Ethyl Benzene	**ND**	0.000670	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Hexachlorobutadiene	**ND**	0.000960	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Isopropylbenzene (Cumene)	**ND**	0.00108	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
p-Isopropyltoluene	**ND**	0.000390	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Methyl tert butyl ether (MTBE)	**ND**	0.000370	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Methylene Bromide (Dibromomethane)	**ND**	0.000500	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Methylene Chloride (Dichloromethane)	**ND**	0.00300	0.003	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Naphthalene	**ND**	0.00100	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
n-Propylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Styrene	**ND**	0.00114	0.003	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	Q-21, Q-22
1,1,1,2-Tetrachloroethane	**ND**	0.000860	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,1,2,2-Tetrachloroethane	**ND**	0.000400	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Tetrachloroethene (Perchloroethylene)	**ND**	0.00141	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Toluene	**ND**	0.000540	0.003	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,2,3-Trichlorobenzene	**ND**	0.000960	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,2,4-Trichlorobenzene	**ND**	0.000900	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.00139**	0.000980	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	J
1,1,2-Trichloroethane	**ND**	0.000550	0.003	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Trichloroethene (Trichloroethylene)	**ND**	0.000390	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Trichlorofluoromethane	**ND**	0.000440	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,2,3-Trichloropropane	**ND**	0.000600	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
1,2,4-Trimethylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	Q-21, Q-22
1,3,5-Trimethylbenzene	**ND**	0.000330	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	Q-21

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWB
Sample Date/Time: 03/26/12 0900

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
Vinyl Chloride	**ND**	0.000450	0.002	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	
Xylenes (total)	**ND**	0.00154	0.004	mg/l	1.00	V4	2C29032	03/29/12 1910	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*0.0494 mg/l*	*0.0500 mg/l*	*99 %*	*19-168*
4-Bromofluorobenzene (EPA 8260B)	*0.0498 mg/l*	*0.0500 mg/l*	*100 %*	*18-171*
1,2-Dichloroethane-d4 (EPA 8260B)	*0.0498 mg/l*	*0.0500 mg/l*	*100 %*	*18-175*

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, 7196A										
Hexavalent Chromium	**ND**	0.005	0.005	mg/l	1.00	SB	2C27051	03/27/12 0710	BLF	
Conventional Chemistry Parameters, EPA 180.1 Rev2.0										
Turbidity	**84**	1.5	0.5	NTU	3.00	Q1	2C28060	03/28/12 0855	BAF	R-01
Conventional Chemistry Parameters, EPA 9050A										
Conductivity @ 25°C	**827**	1.00	1	uS/cm	1.00	Y1	2C29022	03/29/12 1209	BLF	
Conventional Chemistry Parameters, EPA 9056A										
Chloride (Total)	**10.5**	0.050	0.1	mg/l	10.00	I2	2C27061	03/27/12 1632	MDG	R-01
Sulfate (Total) as SO4	**67.8**	0.360	0.1	mg/l	10.00	I2	2C27061	03/27/12 1632	MDG	R-01
Conventional Chemistry Parameters, EPA 9070A										
Oil & Grease (HEM)	**ND**	1.00	2.6	mg/l	1.11	W3	2C30010	03/30/12 1500	XY	
Conventional Chemistry Parameters, SM 2320B										
Bicarbonate Alkalinity	**350**	20.0	20	mg CaCO3/l	1.00	IA3	2C30017	03/30/12 1320	BAF	
Conventional Chemistry Parameters, SM2540C										
Total Dissolved Solids	**467**	5.07	25	mg/l	1.00	W9	2C29021	03/29/12 1208	BLF	
Conventional Chemistry Parameters, SM2540D										
Total Suspended Solids	**364**	2.63	2.5	mg/l	1.05	Proweig	2C29012	03/29/12 1014	BLF	R-01

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWB
Sample Date/Time: 03/26/12 0900

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM4500H+B										
pH	**8.8**	0.1	0.1	pH Units	1.00	IA3	2C26085	03/26/12 1530	BAF	M-06, S-06
Conventional Chemistry Parameters, SM5540C										
Methylene Blue Active Substances	**ND**	0.073	0.2	mg/l	1.00	SB	2C27069	03/27/12 1300	BAF	
Metals (Total), EPA 3010A										
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB1	2C26083	03/26/12 1604	SPS	
Metals (Total), EPA 6010B										
Arsenic	**ND**	0.010	0.01	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Barium	**0.002**	0.0002	0.0008	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Cadmium	**ND**	0.0003	0.001	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Calcium	**37.5**	0.11	0.5	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Chromium	**ND**	0.001	0.002	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Iron	**0.03**	0.01	0.1	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	J
Lead	**0.006**	0.001	0.0025	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Magnesium	**10.1**	0.005	0.01	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Manganese	**0.005**	0.0002	0.0008	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Potassium	**1.04**	0.217	0.5	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Selenium	**0.003**	0.003	0.005	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	J
Silver	**ND**	0.001	0.002	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Sodium	**114**	0.17	0.5	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Strontium	**0.401**	0.0003	0.001	mg/l	1.00	M4	2C26083	03/27/12 1355	SPS	
Metals (Total), EPA 7470A										
Mercury	**ND**	0.00004	0.0002	mg/l	1.00	M6	2C28058	03/28/12 1411	RLC	

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWB
Sample Date/Time: 03/26/12 0900

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Total Petroleum Hydrocarbons Rev. 3, TX-1005										
TPH 1005 Extraction	**Completed**	N/A	N/A	N/A	0.89		2C28076	03/28/12 1515	PMS	
TPH (C6-C12)	**ND**	0.533	1.2	mg/l	0.89	P7	2C28076	03/28/12 2013	PMS	Q-20, Q-22
TPH (>C12-C28)	**ND**	0.462	0.52	mg/l	0.89	P7	2C28076	03/28/12 2013	PMS	Q-22
TPH (>C28-C35)	**ND**	0.061	0.6	mg/l	0.89	P7	2C28076	03/28/12 2013	PMS	Q-22
TPH (C6-C35)	**ND**	0.785	2	mg/l	0.89	P7	2C28076	03/28/12 2013	PMS	Q-20, Q-22

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
1-Chlorooctane (TX-1005)	*20.6 mg/l*	*22.4 mg/l*	*92 %*	*70-130*
o-Terphenyl (TX-1005)	*20.9 mg/l*	*22.4 mg/l*	*93 %*	*70-130*

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWG
Sample Date/Time: 03/26/12 1000

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Methanol, EPA 8015B mod										
Methanol	**ND**	2.84	10	mg/l	1.00	V5	2D04071	04/04/12 1343	BM	
Glycols, EPA 8015B mod										
Ethylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2C28077	03/28/12 1842	TA	
Propylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2C28077	03/28/12 1842	TA	

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWG
Sample Date/Time: 03/26/12 1000

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B										
Benzene	**ND**	0.000620	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Bromobenzene	**ND**	0.000750	0.003	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Bromochloromethane	**ND**	0.000520	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Bromodichloromethane	**ND**	0.000330	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Bromoform (Tribromomethane)	**ND**	0.000690	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Bromomethane (Methyl Bromide)	**ND**	0.000560	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
n-Butylbenzene	**ND**	0.000680	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
sec-Butylbenzene	**ND**	0.000890	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
tert-Butylbenzene	**ND**	0.000350	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Carbon Tetrachloride	**ND**	0.00147	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Chlorobenzene	**ND**	0.000530	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Chloroethane (Ethyl Chloride)	**ND**	0.000560	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Chloroform	**ND**	0.000510	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Chloromethane (Methyl Chloride)	**ND**	0.00167	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
2-Chlorotoluene	**ND**	0.000330	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
4-Chlorotoluene	**ND**	0.000550	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Dibromochloromethane (Chlorodibromo...)	**ND**	0.000470	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.000980	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.000400	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,2-Dichlorobenzene	**ND**	0.000350	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,3-Dichlorobenzene	**ND**	0.000390	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,4-Dichlorobenzene	**ND**	0.000380	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Dichlorodifluoromethane	**ND**	0.000580	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,1-Dichloroethane	**ND**	0.000570	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.000400	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	**0.00151**	0.000370	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	J
cis-1,2-Dichloroethene	**ND**	0.000450	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
trans-1,2-Dichloroethene	**ND**	0.000920	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWG
Sample Date/Time: 03/26/12 1000

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.000360	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,3-Dichloropropane	**ND**	0.000700	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
2,2-Dichloropropane	**ND**	0.00126	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,1-Dichloropropene	**ND**	0.00105	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Ethyl Benzene	**ND**	0.000670	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Hexachlorobutadiene	**ND**	0.000960	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Isopropylbenzene (Cumene)	**ND**	0.00108	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
p-Isopropyltoluene	**ND**	0.000390	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Methyl tert butyl ether (MTBE)	**ND**	0.000370	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Methylene Bromide (Dibromomethane)	**ND**	0.000500	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Methylene Chloride (Dichloromethane)	**ND**	0.00300	0.003	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Naphthalene	**ND**	0.00100	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
n-Propylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Styrene	**ND**	0.00114	0.003	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,1,1,2-Tetrachloroethane	**ND**	0.000860	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,1,2,2-Tetrachloroethane	**ND**	0.000400	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Tetrachloroethene (Perchloroethylene)	**ND**	0.00141	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Toluene	**ND**	0.000540	0.003	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,2,3-Trichlorobenzene	**ND**	0.000960	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,2,4-Trichlorobenzene	**ND**	0.000900	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.000980	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,1,2-Trichloroethane	**ND**	0.000550	0.003	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Trichloroethene (Trichloroethylene)	**ND**	0.000390	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Trichlorofluoromethane	**ND**	0.000440	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,2,3-Trichloropropane	**ND**	0.000600	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,2,4-Trimethylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
1,3,5-Trimethylbenzene	**ND**	0.000330	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	
Vinyl Chloride	**ND**	0.000450	0.002	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWG
Sample Date/Time: 03/26/12 1000

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
Xylenes (total)	**ND**	0.00154	0.004	mg/l	1.00	V4	2C29032	03/29/12 1944	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*0.0492 mg/l*	*0.0500 mg/l*	*98 %*	*19-168*
4-Bromofluorobenzene (EPA 8260B)	*0.0503 mg/l*	*0.0500 mg/l*	*101 %*	*18-171*
1,2-Dichloroethane-d4 (EPA 8260B)	*0.0482 mg/l*	*0.0500 mg/l*	*96 %*	*18-175*

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, 7196A										
Hexavalent Chromium	**ND**	0.005	0.005	mg/l	1.00	SB	2C27051	03/27/12 0710	BLF	
Conventional Chemistry Parameters, EPA 180.1 Rev2.0										
Turbidity	**0.78**	0.50	0.5	NTU	1.00	Q1	2C27056	03/27/12 0950	BAF	
Conventional Chemistry Parameters, EPA 9050A										
Conductivity @ 25°C	**745**	1.00	1	uS/cm	1.00	Y1	2C29022	03/29/12 1209	BLF	
Conventional Chemistry Parameters, EPA 9056A										
Chloride (Total)	**79.2**	0.050	0.1	mg/l	10.00	I2	2C29011	03/29/12 1915	ANM	R-01
Sulfate (Total) as SO4	**79.0**	0.360	0.1	mg/l	10.00	I2	2C29011	03/29/12 1915	ANM	R-01
Conventional Chemistry Parameters, EPA 9070A										
Oil & Grease (HEM)	**ND**	1.00	2.6	mg/l	1.11	W3	2C30010	03/30/12 1500	XY	
Conventional Chemistry Parameters, SM 2320B										
Bicarbonate Alkalinity	**196**	20.0	20	mg CaCO3/l	1.00	IA3	2C30017	03/30/12 1320	BAF	
Conventional Chemistry Parameters, SM2540C										
Total Dissolved Solids	**514**	5.07	25	mg/l	1.00	W9	2C29021	03/29/12 1208	BLF	Q-26
Conventional Chemistry Parameters, SM2540D										
Total Suspended Solids	**ND**	9.26	2.5	mg/l	3.70	Proweig	2C29012	03/29/12 1014	BLF	

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWG
Sample Date/Time: 03/26/12 1000

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM4500H+B										
pH	**6.2**	0.1	0.1	pH Units	1.00	IA3	2C26085	03/26/12 1530	BAF	M-06a, S-06
Conventional Chemistry Parameters, SM5540C										
Methylene Blue Active Substances	**ND**	0.073	0.2	mg/l	1.00	SB	2C27069	03/27/12 1300	BAF	
Metals (Total), EPA 3010A										
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB1	2C26083	03/26/12 1604	SPS	
Metals (Total), EPA 6010B										
Arsenic	**ND**	0.010	0.01	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Barium	**0.016**	0.0002	0.0008	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Cadmium	**ND**	0.0003	0.001	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Calcium	**7.47**	0.11	0.5	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Chromium	**0.048**	0.001	0.002	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Iron	**3.86**	0.01	0.1	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Lead	**0.016**	0.001	0.0025	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Magnesium	**2.23**	0.005	0.01	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Manganese	**0.030**	0.0002	0.0008	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Potassium	**2.33**	0.217	0.5	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Selenium	**ND**	0.003	0.005	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Silver	**ND**	0.001	0.002	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Sodium	**198**	0.17	0.5	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Strontium	**0.174**	0.0003	0.001	mg/l	1.00	M4	2C26083	03/28/12 0543	SPS	
Metals (Total), EPA 7470A										
Mercury	**ND**	0.00004	0.0002	mg/l	1.00	M6	2C28058	03/28/12 1420	RLC	Q-22

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Laboratory ID #: 1203688-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WWG
Sample Date/Time: 03/26/12 1000

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Total Petroleum Hydrocarbons Rev. 3, TX-1005										
TPH 1005 Extraction	**Completed**	N/A	N/A	N/A	1.01		2C28076	03/28/12 1515	PMS	
TPH (C6-C12)	**ND**	0.606	1.2	mg/l	1.01	P7	2C28076	03/28/12 2037	PMS	
TPH (>C12-C28)	**ND**	0.233	0.52	mg/l	1.01	P7	2C28076	03/28/12 2037	PMS	
TPH (>C28-C35)	**ND**	0.070	0.6	mg/l	1.01	P7	2C28076	03/28/12 2037	PMS	
TPH (C6-C35)	**ND**	0.894	2	mg/l	1.01	P7	2C28076	03/28/12 2037	PMS	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
1-Chlorooctane (TX-1005)	*21.8 mg/l*	*25.5 mg/l*	*85 %*	*70-130*
o-Terphenyl (TX-1005)	*22.0 mg/l*	*25.5 mg/l*	*86 %*	*70-130*

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Methanol - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D04071-BLK1)										
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 12:05										
Methanol	**ND**	2.84	mg/l							
Laboratory Control Sample (2D04071-BS1)										
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 12:33										
Methanol	**84.1**	2.84	mg/l	100		84	58-133			
Laboratory Control Sample Duplicate (2D04071-BSD1)										
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 12:47										
Methanol	**105**	2.84	mg/l	100		105	58-133	22	28	
Matrix Spike (2D04071-MS1)					**Source: 1203688-01**					
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 13:01										
Methanol	**100**	2.84	mg/l	100	ND	100	37-140			
Matrix Spike Duplicate (2D04071-MSD1)					**Source: 1203688-01**					
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 13:15										
Methanol	**105**	2.84	mg/l	100	ND	105	37-140	5	40	

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Glycols - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C28077-BLK1)										
Prepared: 03/28/12 16:22 Analyzed: 03/28/12 17:04										
Ethylene Glycol	**ND**	25.0	mg/l							
Propylene Glycol	**ND**	25.0	mg/l							
Laboratory Control Sample (2C28077-BS1)										
Prepared: 03/28/12 16:22 Analyzed: 03/28/12 17:20										
Ethylene Glycol	**101**	25.0	mg/l	100		101	10-140			
Propylene Glycol	**99.4**	25.0	mg/l	100		99	10-140			
Laboratory Control Sample Duplicate (2C28077-BSD1)										
Prepared: 03/28/12 16:22 Analyzed: 03/28/12 17:36										
Ethylene Glycol	**108**	25.0	mg/l	100		108	10-140	6	40	
Propylene Glycol	**111**	25.0	mg/l	100		111	10-140	11	40	
Matrix Spike (2C28077-MS1)					**Source: 1203688-02**					
Prepared: 03/28/12 16:22 Analyzed: 03/28/12 17:53										
Ethylene Glycol	**122**	25.0	mg/l	100	ND	122	10-140			
Propylene Glycol	**111**	25.0	mg/l	100	ND	111	10-140			
Matrix Spike Duplicate (2C28077-MSD1)					**Source: 1203688-02**					
Prepared: 03/28/12 16:22 Analyzed: 03/28/12 18:09										
Ethylene Glycol	**136**	25.0	mg/l	100	ND	136	10-140	11	40	
Propylene Glycol	**111**	25.0	mg/l	100	ND	111	10-140	0.5	30	

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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C29032-BLK1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 17:24										
Benzene	**ND**	0.0006	mg/l							
Bromobenzene	**ND**	0.0008	mg/l							
Bromochloromethane	**ND**	0.0005	mg/l							
Bromodichloromethane	**ND**	0.0003	mg/l							
Bromoform (Tribromomethane)	**ND**	0.0007	mg/l							
Bromomethane (Methyl Bromide)	**ND**	0.0006	mg/l							
n-Butylbenzene	**ND**	0.0007	mg/l							
sec-Butylbenzene	**ND**	0.0009	mg/l							
tert-Butylbenzene	**ND**	0.0004	mg/l							
Carbon Tetrachloride	**ND**	0.001	mg/l							
Chlorobenzene	**ND**	0.0005	mg/l							
Chloroethane (Ethyl Chloride)	**ND**	0.0006	mg/l							
Chloroform	**ND**	0.0005	mg/l							
Chloromethane (Methyl Chloride)	**ND**	0.002	mg/l							
2-Chlorotoluene	**ND**	0.0003	mg/l							
4-Chlorotoluene	**ND**	0.0006	mg/l							
Dibromochloromethane (Chlorodibromo...)	**ND**	0.0005	mg/l							
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.001	mg/l							
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.0004	mg/l							
1,2-Dichlorobenzene	**ND**	0.0004	mg/l							
1,3-Dichlorobenzene	**ND**	0.0004	mg/l							
1,4-Dichlorobenzene	**ND**	0.0004	mg/l							
Dichlorodifluoromethane	**ND**	0.0006	mg/l							
1,1-Dichloroethane	**ND**	0.0006	mg/l							
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.0004	mg/l							
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.0004	mg/l							
cis-1,2-Dichloroethene	**ND**	0.0004	mg/l							
trans-1,2-Dichloroethene	**ND**	0.0009	mg/l							
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.0004	mg/l							
1,3-Dichloropropane	**ND**	0.0007	mg/l							
2,2-Dichloropropane	**ND**	0.001	mg/l							
1,1-Dichloropropene	**ND**	0.001	mg/l							

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Project: Colleyville Trinity Pad Site
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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C29032-BLK1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 17:24										
Ethyl Benzene	**ND**	0.0007	mg/l							
Hexachlorobutadiene	**ND**	0.001	mg/l							
Isopropylbenzene (Cumene)	**ND**	0.001	mg/l							
p-Isopropyltoluene	**ND**	0.0004	mg/l							
Methyl tert butyl ether (MTBE)	**ND**	0.0004	mg/l							
Methylene Bromide (Dibromomethane)	**ND**	0.0005	mg/l							
Methylene Chloride (Dichloromethane)	**ND**	0.003	mg/l							
Naphthalene	**ND**	0.001	mg/l							
n-Propylbenzene	**ND**	0.0008	mg/l							
Styrene	**ND**	0.001	mg/l							
1,1,1,2-Tetrachloroethane	**ND**	0.0009	mg/l							
1,1,2,2-Tetrachloroethane	**ND**	0.0004	mg/l							
Tetrachloroethene (Perchloroethylene)	**ND**	0.001	mg/l							
Toluene	**ND**	0.0005	mg/l							
1,2,3-Trichlorobenzene	**ND**	0.001	mg/l							
1,2,4-Trichlorobenzene	**ND**	0.0009	mg/l							
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.001	mg/l							
1,1,2-Trichloroethane	**ND**	0.0006	mg/l							
Trichloroethene (Trichloroethylene)	**ND**	0.0004	mg/l							
Trichlorofluoromethane	**ND**	0.0004	mg/l							
1,2,3-Trichloropropane	**ND**	0.0006	mg/l							
1,2,4-Trimethylbenzene	**ND**	0.0008	mg/l							
1,3,5-Trimethylbenzene	**ND**	0.0003	mg/l							
Vinyl Chloride	**ND**	0.0004	mg/l							
m-,p-Xylene	**ND**	0.002	mg/l							
o-Xylene	**ND**	0.0004	mg/l							
Surrogate: Toluene-d8	**0.0489**		mg/l	0.0500		98	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0492**		mg/l	0.0500		98	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0495**		mg/l	0.0500		99	18-175			

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Project: Colleyville Trinity Pad Site
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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2C29032-BS1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 18:00										
Benzene	**0.019**	0.0006	mg/l	0.0200		95	80-125			
Bromobenzene	**0.021**	0.0008	mg/l	0.0200		106	77-127			
Bromochloromethane	**0.019**	0.0005	mg/l	0.0200		94	75-134			
Bromodichloromethane	**0.019**	0.0003	mg/l	0.0200		97	77-126			
Bromoform (Tribromomethane)	**0.020**	0.0007	mg/l	0.0200		100	73-116			
Bromomethane (Methyl Bromide)	**0.015**	0.0006	mg/l	0.0200		73	56-156			
n-Butylbenzene	**0.021**	0.0007	mg/l	0.0200		103	72-137			
sec-Butylbenzene	**0.022**	0.0009	mg/l	0.0200		109	79-130			
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200		107	81-125			
Carbon Tetrachloride	**0.019**	0.001	mg/l	0.0200		95	76-126			
Chlorobenzene	**0.020**	0.0005	mg/l	0.0200		100	82-122			
Chloroethane (Ethyl Chloride)	**0.017**	0.0006	mg/l	0.0200		84	71-140			
Chloroform	**0.019**	0.0005	mg/l	0.0200		95	71-134			
Chloromethane (Methyl Chloride)	**0.016**	0.002	mg/l	0.0200		78	68-139			
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200		105	78-128			
4-Chlorotoluene	**0.022**	0.0006	mg/l	0.0200		108	75-131			
Dibromochloromethane (Chlorodibromo...)	**0.020**	0.0005	mg/l	0.0200		99	77-120			
1,2-Dibromo-3-chloropropane (DBCP)	**0.021**	0.001	mg/l	0.0200		103	66-126			
1,2-Dibromoethane (Ethylene Dibromide)	**0.020**	0.0004	mg/l	0.0200		100	80-124			
1,2-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200		108	77-126			
1,3-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200		108	77-128			
1,4-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200		108	78-127			
Dichlorodifluoromethane	**0.013**	0.0006	mg/l	0.0200		66	54-156			
1,1-Dichloroethane	**0.019**	0.0006	mg/l	0.0200		95	78-133			
1,2-Dichloroethane (Ethylene Dichloride)	**0.019**	0.0004	mg/l	0.0200		95	72-139			
1,1-Dichloroethene (Vinylidene Chloride)	**0.018**	0.0004	mg/l	0.0200		89	75-136			
cis-1,2-Dichloroethene	**0.019**	0.0004	mg/l	0.0200		96	75-132			
trans-1,2-Dichloroethene	**0.019**	0.0009	mg/l	0.0200		95	77-134			
1,2-Dichloropropane (Propylene Dichloride)	**0.019**	0.0004	mg/l	0.0200		95	80-125			
1,3-Dichloropropane	**0.019**	0.0007	mg/l	0.0200		97	78-126			
2,2-Dichloropropane	**0.019**	0.001	mg/l	0.0200		95	68-142			
1,1-Dichloropropene	**0.020**	0.001	mg/l	0.0200		99	76-125			

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2C29032-BS1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 18:00										
Ethyl Benzene	**0.020**	0.0007	mg/l	0.0200		99	79-127			
Hexachlorobutadiene	**0.022**	0.001	mg/l	0.0200		112	77-125			
Isopropylbenzene (Cumene)	**0.021**	0.001	mg/l	0.0200		106	81-128			
p-Isopropyltoluene	**0.021**	0.0004	mg/l	0.0200		104	78-131			
Methyl tert butyl ether (MTBE)	**0.018**	0.0004	mg/l	0.0200		92	75-126			
Methylene Bromide (Dibromomethane)	**0.018**	0.0005	mg/l	0.0200		93	79-125			
Methylene Chloride (Dichloromethane)	**0.017**	0.003	mg/l	0.0200		84	62-151			
Naphthalene	**0.021**	0.001	mg/l	0.0200		106	71-125			
n-Propylbenzene	**0.022**	0.0008	mg/l	0.0200		108	77-131			
Styrene	**0.020**	0.001	mg/l	0.0200		98	77-125			
1,1,1,2-Tetrachloroethane	**0.020**	0.0009	mg/l	0.0200		97	80-122			
1,1,2,2-Tetrachloroethane	**0.021**	0.0004	mg/l	0.0200		106	71-131			
Tetrachloroethene (Perchloroethylene)	**0.020**	0.001	mg/l	0.0200		99	73-126			
Toluene	**0.018**	0.0005	mg/l	0.0200		88	78-126			
1,2,3-Trichlorobenzene	**0.021**	0.001	mg/l	0.0200		106	74-126			
1,2,4-Trichlorobenzene	**0.021**	0.0009	mg/l	0.0200		106	72-131			
1,1,1-Trichloroethane (Methyl Chloroform)	**0.020**	0.001	mg/l	0.0200		98	78-129			
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200		99	75-124			
Trichloroethene (Trichloroethylene)	**0.019**	0.0004	mg/l	0.0200		96	78-126			
Trichlorofluoromethane	**0.018**	0.0004	mg/l	0.0200		89	70-142			
1,2,3-Trichloropropane	**0.022**	0.0006	mg/l	0.0200		111	73-127			
1,2,4-Trimethylbenzene	**0.022**	0.0008	mg/l	0.0200		108	78-129			
1,3,5-Trimethylbenzene	**0.021**	0.0003	mg/l	0.0200		106	79-128			
Vinyl Chloride	**0.016**	0.0004	mg/l	0.0200		81	65-141			
m-,p-Xylene	**0.040**	0.002	mg/l	0.0400		99	80-127			
o-Xylene	**0.020**	0.0004	mg/l	0.0200		101	80-125			
Surrogate: Toluene-d8	**0.0494**		mg/l	0.0500		99	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0491**		mg/l	0.0500		98	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0484**		mg/l	0.0500		97	18-175			

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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2C29032-BSD1) Prepared: 03/29/12 15:28 Analyzed: 03/29/12 18:34										
Benzene	**0.020**	0.0006	mg/l	0.0200		98	80-125	3	11	
Bromobenzene	**0.021**	0.0008	mg/l	0.0200		107	77-127	2	12	
Bromochloromethane	**0.019**	0.0005	mg/l	0.0200		96	75-134	2	15	
Bromodichloromethane	**0.020**	0.0003	mg/l	0.0200		100	77-126	3	12	
Bromoform (Tribromomethane)	**0.021**	0.0007	mg/l	0.0200		103	73-116	3	13	
Bromomethane (Methyl Bromide)	**0.015**	0.0006	mg/l	0.0200		76	56-156	4	24	
n-Butylbenzene	**0.022**	0.0007	mg/l	0.0200		108	72-137	4	15	
sec-Butylbenzene	**0.022**	0.0009	mg/l	0.0200		112	79-130	3	12	
tert-Butylbenzene	**0.022**	0.0004	mg/l	0.0200		109	81-125	2	11	
Carbon Tetrachloride	**0.020**	0.001	mg/l	0.0200		100	76-126	5	10	
Chlorobenzene	**0.020**	0.0005	mg/l	0.0200		103	82-122	3	10	
Chloroethane (Ethyl Chloride)	**0.017**	0.0006	mg/l	0.0200		86	71-140	3	13	
Chloroform	**0.020**	0.0005	mg/l	0.0200		98	71-134	3	13	
Chloromethane (Methyl Chloride)	**0.016**	0.002	mg/l	0.0200		83	68-139	6	18	
2-Chlorotoluene	**0.022**	0.0003	mg/l	0.0200		108	78-128	3	11	
4-Chlorotoluene	**0.022**	0.0006	mg/l	0.0200		109	75-131	1	11	
Dibromochloromethane (Chlorodibromo...)	**0.020**	0.0005	mg/l	0.0200		102	77-120	3	11	
1,2-Dibromo-3-chloropropane (DBCP)	**0.020**	0.001	mg/l	0.0200		100	66-126	4	19	
1,2-Dibromoethane (Ethylene Dibromide)	**0.021**	0.0004	mg/l	0.0200		103	80-124	2	13	
1,2-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200		111	77-126	3	13	
1,3-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200		111	77-128	3	12	
1,4-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200		111	78-127	2	12	
Dichlorodifluoromethane	**0.014**	0.0006	mg/l	0.0200		70	54-156	6	15	
1,1-Dichloroethane	**0.020**	0.0006	mg/l	0.0200		99	78-133	5	13	
1,2-Dichloroethane (Ethylene Dichloride)	**0.019**	0.0004	mg/l	0.0200		96	72-139	1	17	
1,1-Dichloroethene (Vinylidene Chloride)	**0.018**	0.0004	mg/l	0.0200		91	75-136	2	12	
cis-1,2-Dichloroethene	**0.020**	0.0004	mg/l	0.0200		100	75-132	4	11	
trans-1,2-Dichloroethene	**0.019**	0.0009	mg/l	0.0200		96	77-134	2	13	
1,2-Dichloropropane (Propylene Dichloride)	**0.020**	0.0004	mg/l	0.0200		98	80-125	3	10	
1,3-Dichloropropane	**0.020**	0.0007	mg/l	0.0200		100	78-126	3	12	
2,2-Dichloropropane	**0.020**	0.001	mg/l	0.0200		100	68-142	5	13	
1,1-Dichloropropene	**0.020**	0.001	mg/l	0.0200		101	76-125	2	12	

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2C29032-BSD1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 18:34										
Ethyl Benzene	**0.021**	0.0007	mg/l	0.0200		104	79-127	5	11	
Hexachlorobutadiene	**0.024**	0.001	mg/l	0.0200		117	77-125	5	14	
Isopropylbenzene (Cumene)	**0.022**	0.001	mg/l	0.0200		108	81-128	2	10	
p-Isopropyltoluene	**0.021**	0.0004	mg/l	0.0200		106	78-131	2	12	
Methyl tert butyl ether (MTBE)	**0.019**	0.0004	mg/l	0.0200		94	75-126	2	14	
Methylene Bromide (Dibromomethane)	**0.019**	0.0005	mg/l	0.0200		95	79-125	2	12	
Methylene Chloride (Dichloromethane)	**0.018**	0.003	mg/l	0.0200		87	62-151	4	16	
Naphthalene	**0.022**	0.001	mg/l	0.0200		109	71-125	2	19	
n-Propylbenzene	**0.022**	0.0008	mg/l	0.0200		109	77-131	2	11	
Styrene	**0.021**	0.001	mg/l	0.0200		103	77-125	5	14	
1,1,1,2-Tetrachloroethane	**0.021**	0.0009	mg/l	0.0200		103	80-122	6	12	
1,1,2,2-Tetrachloroethane	**0.021**	0.0004	mg/l	0.0200		103	71-131	3	15	
Tetrachloroethene (Perchloroethylene)	**0.020**	0.001	mg/l	0.0200		102	73-126	3	11	
Toluene	**0.019**	0.0005	mg/l	0.0200		94	78-126	6	10	
1,2,3-Trichlorobenzene	**0.022**	0.001	mg/l	0.0200		111	74-126	5	16	
1,2,4-Trichlorobenzene	**0.022**	0.0009	mg/l	0.0200		111	72-131	4	14	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.020**	0.001	mg/l	0.0200		100	78-129	1	11	
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200		98	75-124	0.5	12	
Trichloroethene (Trichloroethylene)	**0.020**	0.0004	mg/l	0.0200		100	78-126	5	11	
Trichlorofluoromethane	**0.018**	0.0004	mg/l	0.0200		90	70-142	0.3	12	
1,2,3-Trichloropropane	**0.022**	0.0006	mg/l	0.0200		107	73-127	3	15	
1,2,4-Trimethylbenzene	**0.022**	0.0008	mg/l	0.0200		111	78-129	3	12	
1,3,5-Trimethylbenzene	**0.022**	0.0003	mg/l	0.0200		109	79-128	3	11	
Vinyl Chloride	**0.016**	0.0004	mg/l	0.0200		82	65-141	2	22	
m-,p-Xylene	**0.041**	0.002	mg/l	0.0400		103	80-127	4	12	
o-Xylene	**0.021**	0.0004	mg/l	0.0200		105	80-125	4	10	
Surrogate: Toluene-d8	**0.0493**		mg/l	0.0500		99	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0482**		mg/l	0.0500		96	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0480**		mg/l	0.0500		96	18-175			

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2C29032-MS1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 20:20					**Source: 1203688-01**					
Benzene	**0.020**	0.0006	mg/l	0.0200	ND	98	74-127			
Bromobenzene	**0.021**	0.0008	mg/l	0.0200	ND	105	65-134			
Bromochloromethane	**0.019**	0.0005	mg/l	0.0200	ND	97	78-125			
Bromodichloromethane	**0.020**	0.0003	mg/l	0.0200	ND	99	63-133			
Bromoform (Tribromomethane)	**0.020**	0.0007	mg/l	0.0200	ND	100	63-123			
Bromomethane (Methyl Bromide)	**0.014**	0.0006	mg/l	0.0200	ND	72	38-159			
n-Butylbenzene	**0.020**	0.0007	mg/l	0.0200	ND	101	65-138			
sec-Butylbenzene	**0.022**	0.0009	mg/l	0.0200	ND	108	69-137			
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200	ND	107	62-143			
Carbon Tetrachloride	**0.020**	0.001	mg/l	0.0200	ND	98	73-126			
Chlorobenzene	**0.020**	0.0005	mg/l	0.0200	ND	102	73-128			
Chloroethane (Ethyl Chloride)	**0.017**	0.0006	mg/l	0.0200	ND	84	69-141			
Chloroform	**0.019**	0.0005	mg/l	0.0200	ND	97	58-137			
Chloromethane (Methyl Chloride)	**0.016**	0.002	mg/l	0.0200	ND	79	64-139			
2-Chlorotoluene	**0.022**	0.0003	mg/l	0.0200	ND	107	68-136			
4-Chlorotoluene	**0.021**	0.0006	mg/l	0.0200	ND	105	68-135			
Dibromochloromethane (Chlorodibromo...)	**0.021**	0.0005	mg/l	0.0200	ND	103	66-128			
1,2-Dibromo-3-chloropropane (DBCP)	**0.020**	0.001	mg/l	0.0200	ND	102	59-134			
1,2-Dibromoethane (Ethylene Dibromide)	**0.020**	0.0004	mg/l	0.0200	ND	101	74-127			
1,2-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	109	68-133			
1,3-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	108	70-133			
1,4-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	108	71-132			
Dichlorodifluoromethane	**0.012**	0.0006	mg/l	0.0200	ND	61	38-170			
1,1-Dichloroethane	**0.020**	0.0006	mg/l	0.0200	ND	99	76-129			
1,2-Dichloroethane (Ethylene Dichloride)	**0.019**	0.0004	mg/l	0.0200	ND	96	73-130			
1,1-Dichloroethene (Vinylidene Chloride)	**0.018**	0.0004	mg/l	0.0200	0.001	81	49-150			
cis-1,2-Dichloroethene	**0.020**	0.0004	mg/l	0.0200	ND	100	38-157			
trans-1,2-Dichloroethene	**0.019**	0.0009	mg/l	0.0200	ND	94	73-132			
1,2-Dichloropropane (Propylene Dichloride)	**0.020**	0.0004	mg/l	0.0200	ND	98	75-127			
1,3-Dichloropropane	**0.020**	0.0007	mg/l	0.0200	ND	99	71-129			
2,2-Dichloropropane	**0.019**	0.001	mg/l	0.0200	ND	96	73-130			
1,1-Dichloropropene	**0.020**	0.001	mg/l	0.0200	ND	100	73-126			

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2C29032-MS1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 20:20					**Source: 1203688-01**					
Ethyl Benzene	**0.020**	0.0007	mg/l	0.0200	ND	98	69-134			
Hexachlorobutadiene	**0.022**	0.001	mg/l	0.0200	ND	110	65-131			
Isopropylbenzene (Cumene)	**0.021**	0.001	mg/l	0.0200	ND	104	70-137			
p-Isopropyltoluene	**0.019**	0.0004	mg/l	0.0200	ND	97	68-138			
Methyl tert butyl ether (MTBE)	**0.019**	0.0004	mg/l	0.0200	ND	94	70-125			
Methylene Bromide (Dibromomethane)	**0.019**	0.0005	mg/l	0.0200	ND	96	76-125			
Methylene Chloride (Dichloromethane)	**0.017**	0.003	mg/l	0.0200	ND	86	23-171			
Naphthalene	**0.019**	0.001	mg/l	0.0200	ND	94	45-147			
n-Propylbenzene	**0.021**	0.0008	mg/l	0.0200	ND	105	69-136			
Styrene	**0.011**	0.001	mg/l	0.0200	ND	56	66-131			Q-02
1,1,1,2-Tetrachloroethane	**0.020**	0.0009	mg/l	0.0200	ND	102	73-126			
1,1,2,2-Tetrachloroethane	**0.021**	0.0004	mg/l	0.0200	ND	104	59-140			
Tetrachloroethene (Perchloroethylene)	**0.020**	0.001	mg/l	0.0200	ND	98	38-182			
Toluene	**0.018**	0.0005	mg/l	0.0200	ND	89	62-135			
1,2,3-Trichlorobenzene	**0.021**	0.001	mg/l	0.0200	ND	107	63-132			
1,2,4-Trichlorobenzene	**0.022**	0.0009	mg/l	0.0200	ND	109	65-134			
1,1,1-Trichloroethane (Methyl Chloroform)	**0.020**	0.001	mg/l	0.0200	0.001	94	75-127			
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200	ND	102	66-131			
Trichloroethene (Trichloroethylene)	**0.020**	0.0004	mg/l	0.0200	ND	98	55-144			
Trichlorofluoromethane	**0.018**	0.0004	mg/l	0.0200	ND	89	70-138			
1,2,3-Trichloropropane	**0.021**	0.0006	mg/l	0.0200	ND	103	66-135			
1,2,4-Trimethylbenzene	**0.015**	0.0008	mg/l	0.0200	ND	76	66-138			
1,3,5-Trimethylbenzene	**0.016**	0.0003	mg/l	0.0200	ND	79	70-136			
Vinyl Chloride	**0.016**	0.0004	mg/l	0.0200	ND	81	50-153			
m-,p-Xylene	**0.036**	0.002	mg/l	0.0400	ND	91	73-129			
o-Xylene	**0.019**	0.0004	mg/l	0.0200	ND	94	72-129			
Surrogate: Toluene-d8	**0.0496**		mg/l	0.0500		99	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0487**		mg/l	0.0500		97	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0489**		mg/l	0.0500		98	18-175			

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
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Print Date/Time: 04/05/12 17:32

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2C29032-MSD1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 20:55					**Source: 1203688-01**					
Benzene	**0.019**	0.0006	mg/l	0.0200	ND	95	74-127	3	18	
Bromobenzene	**0.021**	0.0008	mg/l	0.0200	ND	103	65-134	2	23	
Bromochloromethane	**0.019**	0.0005	mg/l	0.0200	ND	93	78-125	4	16	
Bromodichloromethane	**0.019**	0.0003	mg/l	0.0200	ND	97	63-133	3	18	
Bromoform (Tribromomethane)	**0.020**	0.0007	mg/l	0.0200	ND	101	63-123	0.9	18	
Bromomethane (Methyl Bromide)	**0.015**	0.0006	mg/l	0.0200	ND	73	38-159	1	22	
n-Butylbenzene	**0.019**	0.0007	mg/l	0.0200	ND	97	65-138	4	23	
sec-Butylbenzene	**0.021**	0.0009	mg/l	0.0200	ND	105	69-137	2	22	
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200	ND	105	62-143	2	23	
Carbon Tetrachloride	**0.019**	0.001	mg/l	0.0200	ND	95	73-126	2	18	
Chlorobenzene	**0.020**	0.0005	mg/l	0.0200	ND	98	73-128	3	18	
Chloroethane (Ethyl Chloride)	**0.017**	0.0006	mg/l	0.0200	ND	84	69-141	0	19	
Chloroform	**0.019**	0.0005	mg/l	0.0200	ND	94	58-137	3	18	
Chloromethane (Methyl Chloride)	**0.016**	0.002	mg/l	0.0200	ND	80	64-139	2	21	
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200	ND	104	68-136	3	29	
4-Chlorotoluene	**0.020**	0.0006	mg/l	0.0200	ND	101	68-135	4	22	
Dibromochloromethane (Chlorodibromo...)	**0.020**	0.0005	mg/l	0.0200	ND	99	66-128	4	20	
1,2-Dibromo-3-chloropropane (DBCP)	**0.019**	0.001	mg/l	0.0200	ND	96	59-134	7	27	
1,2-Dibromoethane (Ethylene Dibromide)	**0.019**	0.0004	mg/l	0.0200	ND	96	74-127	5	17	
1,2-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	107	68-133	2	23	
1,3-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	106	70-133	2	23	
1,4-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	104	71-132	3	22	
Dichlorodifluoromethane	**0.012**	0.0006	mg/l	0.0200	ND	62	38-170	1	24	
1,1-Dichloroethane	**0.019**	0.0006	mg/l	0.0200	ND	96	76-129	3	16	
1,2-Dichloroethane (Ethylene Dichloride)	**0.019**	0.0004	mg/l	0.0200	ND	94	73-130	2	17	
1,1-Dichloroethene (Vinylidene Chloride)	**0.017**	0.0004	mg/l	0.0200	0.001	78	49-150	3	23	
cis-1,2-Dichloroethene	**0.020**	0.0004	mg/l	0.0200	ND	99	38-157	0.7	24	
trans-1,2-Dichloroethene	**0.019**	0.0009	mg/l	0.0200	ND	93	73-132	2	19	
1,2-Dichloropropane (Propylene Dichloride)	**0.020**	0.0004	mg/l	0.0200	ND	97	75-127	0.2	19	
1,3-Dichloropropane	**0.019**	0.0007	mg/l	0.0200	ND	95	71-129	4	18	
2,2-Dichloropropane	**0.019**	0.001	mg/l	0.0200	ND	96	73-130	0.1	17	
1,1-Dichloropropene	**0.019**	0.001	mg/l	0.0200	ND	95	73-126	5	18	

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2C29032-MSD1)										
Prepared: 03/29/12 15:28 Analyzed: 03/29/12 20:55					**Source: 1203688-01**					
Ethyl Benzene	**0.019**	0.0007	mg/l	0.0200	ND	95	69-134	3	17	
Hexachlorobutadiene	**0.022**	0.001	mg/l	0.0200	ND	110	65-131	0.2	24	
Isopropylbenzene (Cumene)	**0.020**	0.001	mg/l	0.0200	ND	101	70-137	3	23	
p-Isopropyltoluene	**0.018**	0.0004	mg/l	0.0200	ND	92	68-138	5	22	
Methyl tert butyl ether (MTBE)	**0.018**	0.0004	mg/l	0.0200	ND	92	70-125	2	20	
Methylene Bromide (Dibromomethane)	**0.018**	0.0005	mg/l	0.0200	ND	90	76-125	6	19	
Methylene Chloride (Dichloromethane)	**0.017**	0.003	mg/l	0.0200	ND	84	23-171	3	30	
Naphthalene	**0.016**	0.001	mg/l	0.0200	ND	82	45-147	13	27	
n-Propylbenzene	**0.020**	0.0008	mg/l	0.0200	ND	102	69-136	3	21	
Styrene	**0.007**	0.001	mg/l	0.0200	ND	37	66-131	42	23	Q-02, Q-04
1,1,1,2-Tetrachloroethane	**0.020**	0.0009	mg/l	0.0200	ND	100	73-126	2	18	
1,1,2,2-Tetrachloroethane	**0.020**	0.0004	mg/l	0.0200	ND	102	59-140	2	26	
Tetrachloroethene (Perchloroethylene)	**0.019**	0.001	mg/l	0.0200	ND	96	38-182	3	27	
Toluene	**0.017**	0.0005	mg/l	0.0200	ND	86	62-135	4	19	
1,2,3-Trichlorobenzene	**0.021**	0.001	mg/l	0.0200	ND	106	63-132	1	27	
1,2,4-Trichlorobenzene	**0.021**	0.0009	mg/l	0.0200	ND	107	65-134	2	24	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.020**	0.001	mg/l	0.0200	0.001	90	75-127	3	19	
1,1,2-Trichloroethane	**0.019**	0.0006	mg/l	0.0200	ND	97	66-131	5	19	
Trichloroethene (Trichloroethylene)	**0.019**	0.0004	mg/l	0.0200	ND	96	55-144	2	18	
Trichlorofluoromethane	**0.018**	0.0004	mg/l	0.0200	ND	88	70-138	1	18	
1,2,3-Trichloropropane	**0.020**	0.0006	mg/l	0.0200	ND	102	66-135	2	36	
1,2,4-Trimethylbenzene	**0.012**	0.0008	mg/l	0.0200	ND	61	66-138	22	21	Q-02, Q-04
1,3,5-Trimethylbenzene	**0.014**	0.0003	mg/l	0.0200	ND	68	70-136	15	21	Q-02
Vinyl Chloride	**0.016**	0.0004	mg/l	0.0200	ND	80	50-153	0.4	24	
m-,p-Xylene	**0.034**	0.002	mg/l	0.0400	ND	84	73-129	8	19	
o-Xylene	**0.018**	0.0004	mg/l	0.0200	ND	89	72-129	6	20	
Surrogate: Toluene-d8	**0.0493**		mg/l	0.0500		99	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0489**		mg/l	0.0500		98	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0479**		mg/l	0.0500		96	18-175			

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Duplicate (2C26085-DUP1)										
Prepared & Analyzed: 03/26/12 15:30					**Source: 1203671-01**					
pH	**6.73**	0.1	pH Units		6.75			0.3	1	M-06b
Reference (2C26085-SRM1)										
Prepared & Analyzed: 03/26/12 15:30										
pH	**5.96**	0.1	pH Units	6.00		99	99-101			M-06c
Blank (2C27051-BLK1)										
Prepared & Analyzed: 03/27/12 07:10										
Hexavalent Chromium	**ND**	0.005	mg/l							
Laboratory Control Sample (2C27051-BS1)										
Prepared & Analyzed: 03/27/12 07:10										
Hexavalent Chromium	**0.447**	0.005	mg/l	0.500		89	87-111			
Laboratory Control Sample Duplicate (2C27051-BSD1)										
Prepared & Analyzed: 03/27/12 07:10										
Hexavalent Chromium	**0.443**	0.005	mg/l	0.500		89	87-111	0.9	5	
Matrix Spike (2C27051-MS1)										
Prepared & Analyzed: 03/27/12 07:10					**Source: 1203688-01**					
Hexavalent Chromium	**0.448**	0.005	mg/l	0.526	ND	85	85-112			
Matrix Spike Duplicate (2C27051-MSD1)										
Prepared & Analyzed: 03/27/12 07:10					**Source: 1203688-01**					
Hexavalent Chromium	**0.452**	0.005	mg/l	0.526	ND	86	85-112	0.7	5	

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C27056-BLK1)										
Prepared & Analyzed: 03/27/12 09:50										
Turbidity	**ND**	0.50	NTU							
Duplicate (2C27056-DUP1)					**Source: 1203688-01**					
Prepared & Analyzed: 03/27/12 09:50										
Turbidity	**160**	0.50	NTU		160			0	2	
Reference (2C27056-SRM1)										
Prepared & Analyzed: 03/27/12 09:50										
Turbidity	**20**	0.50	NTU	20.0		98	90-110			
Blank (2C27061-BLK1)										
Prepared: 03/27/12 11:09 Analyzed: 03/27/12 14:21										
Chloride (Total)	**ND**	0.005	mg/l							
Sulfate (Total) as SO4	**ND**	0.036	mg/l							
Laboratory Control Sample (2C27061-BS1)										
Prepared: 03/27/12 11:09 Analyzed: 03/27/12 14:37										
Chloride (Total)	**4.95**	0.005	mg/l	5.00		99	90-110			
Sulfate (Total) as SO4	**5.29**	0.036	mg/l	5.00		106	90-110			
Laboratory Control Sample Duplicate (2C27061-BSD1)										
Prepared: 03/27/12 11:09 Analyzed: 03/27/12 14:54										
Chloride (Total)	**4.95**	0.005	mg/l	5.00		99	90-110	0.08	20	
Sulfate (Total) as SO4	**5.32**	0.036	mg/l	5.00		106	90-110	0.6	20	
Matrix Spike (2C27061-MS1)					**Source: 1203694-01**					
Prepared: 03/27/12 11:09 Analyzed: 03/27/12 15:10										
Chloride (Total)	**5.53**	0.006	mg/l	5.56	0.037	99	90-110			
Sulfate (Total) as SO4	**5.87**	0.040	mg/l	5.56	ND	106	90-110			

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2C27061-MS2)										
Prepared: 03/29/12 09:30 Analyzed: 03/29/12 09:57					**Source: 1203720-01**					
Chloride (Total)	**95.3**	0.056	mg/l	55.6	34.0	110	90-110			R-01
Sulfate (Total) as SO4	**174**	0.400	mg/l	55.6	101	131	90-110			Q-02
Matrix Spike Duplicate (2C27061-MSD1)										
Prepared: 03/27/12 11:09 Analyzed: 03/27/12 15:26					**Source: 1203694-01**					
Chloride (Total)	**5.44**	0.006	mg/l	5.56	0.037	97	90-110	2	15	
Sulfate (Total) as SO4	**5.71**	0.040	mg/l	5.56	ND	103	90-110	3	15	
Matrix Spike Duplicate (2C27061-MSD2)										
Prepared: 03/29/12 09:30 Analyzed: 03/29/12 10:13					**Source: 1203720-01**					
Chloride (Total)	**94.3**	0.056	mg/l	55.6	34.0	109	90-110	1	15	R-01
Sulfate (Total) as SO4	**172**	0.400	mg/l	55.6	101	127	90-110	1	15	Q-02
Blank (2C27069-BLK1)										
Prepared & Analyzed: 03/27/12 13:00										
Methylene Blue Active Substances	**ND**	0.073	mg/l							
Laboratory Control Sample (2C27069-BS1)										
Prepared & Analyzed: 03/27/12 13:00										
Methylene Blue Active Substances	**1.08**	0.073	mg/l	1.00		108	64-149			
Laboratory Control Sample Duplicate (2C27069-BSD1)										
Prepared & Analyzed: 03/27/12 13:00										
Methylene Blue Active Substances	**1.04**	0.073	mg/l	1.00		104	64-149	4	18	
Matrix Spike (2C27069-MS1)										
Prepared & Analyzed: 03/27/12 13:00					**Source: 1203688-01**					
Methylene Blue Active Substances	**0.915**	0.073	mg/l	1.00	ND	92	11-177			

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
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ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2C27069-MSD1)										
Prepared & Analyzed: 03/27/12 13:00					**Source: 1203688-01**					
Methylene Blue Active Substances	**1.04**	0.073	mg/l	1.00	ND	104	11-177	13	13	
Blank (2C28060-BLK1)										
Prepared: 03/28/12 08:55 Analyzed: 03/28/12 09:05										
Turbidity	**ND**	0.50	NTU							
Duplicate (2C28060-DUP1)										
Prepared: 03/28/12 08:55 Analyzed: 03/28/12 09:05					**Source: 1203688-01RE1**					
Turbidity	**84**	1.5	NTU		84			0	2	R-01
Reference (2C28060-SRM1)										
Prepared: 03/28/12 08:55 Analyzed: 03/28/12 09:05										
Turbidity	**20**	0.50	NTU	20.0		98	90-110			
Blank (2C29011-BLK1)										
Prepared: 03/29/12 09:28 Analyzed: 03/29/12 12:08										
Chloride (Total)	**ND**	0.005	mg/l							
Sulfate (Total) as SO4	**ND**	0.036	mg/l							
Laboratory Control Sample (2C29011-BS1)										
Prepared: 03/29/12 09:28 Analyzed: 03/29/12 12:25										
Chloride (Total)	**4.99**	0.005	mg/l	5.00		100	90-110			
Sulfate (Total) as SO4	**5.28**	0.036	mg/l	5.00		106	90-110			

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2C29011-BSD1)										
Prepared: 03/29/12 09:28 Analyzed: 03/29/12 12:41										
Chloride (Total)	**4.99**	0.005	mg/l	5.00		100	90-110	0.04	20	
Sulfate (Total) as SO4	**5.29**	0.036	mg/l	5.00		106	90-110	0.09	20	
Matrix Spike (2C29011-MS1)										
Prepared: 03/29/12 09:28 Analyzed: 03/29/12 12:57					**Source: 1203786-01**					
Chloride (Total)	**7.70**	0.006	mg/l	5.56	2.35	96	80-120			
Matrix Spike (2C29011-MS3)										
Prepared: 03/29/12 09:27 Analyzed: 03/29/12 19:31					**Source: 1203786-01**					
Sulfate (Total) as SO4	**1580**	4.00	mg/l	556	914	120	90-110			Q-02, R-01
Matrix Spike (2C29011-MS4)										
Prepared: 03/29/12 09:27 Analyzed: 03/29/12 20:04					**Source: 1203787-01**					
Chloride (Total)	**558**	0.556	mg/l	556	2.35	100	80-120			R-01
Sulfate (Total) as SO4	**1570**	4.00	mg/l	556	917	118	90-110			Q-02, R-01
Matrix Spike Duplicate (2C29011-MSD1)										
Prepared: 03/29/12 09:28 Analyzed: 03/29/12 13:14					**Source: 1203786-01**					
Chloride (Total)	**7.78**	0.006	mg/l	5.56	2.35	98	80-120	1	15	
Matrix Spike Duplicate (2C29011-MSD3)										
Prepared: 03/29/12 09:27 Analyzed: 03/29/12 19:47					**Source: 1203786-01**					
Sulfate (Total) as SO4	**1600**	4.00	mg/l	556	914	123	90-110	1	15	Q-02, R-01
Matrix Spike Duplicate (2C29011-MSD4)										
Prepared: 03/29/12 09:27 Analyzed: 03/29/12 20:20					**Source: 1203787-01**					
Chloride (Total)	**548**	0.556	mg/l	556	2.35	98	80-120	2	15	R-01
Sulfate (Total) as SO4	**1550**	4.00	mg/l	556	917	114	90-110	2	15	Q-02, R-01

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C29012-BLK1)										
Prepared & Analyzed: 03/29/12 10:14										
Total Suspended Solids	**ND**	2.50	mg/l							
Laboratory Control Sample (2C29012-BS1)										
Prepared & Analyzed: 03/29/12 10:14										
Total Suspended Solids	**197**	25.0	mg/l	200		98	90-108			
Duplicate (2C29012-DUP1)					**Source: 1203757-01**					
Prepared & Analyzed: 03/29/12 10:14										
Total Suspended Solids	**2580**	500	mg/l		3020			16	20	R-01
Reference (2C29012-SRM1)										
Prepared & Analyzed: 03/29/12 10:14										
Total Suspended Solids	**27.0**	25.0	mg/l	25.0		108	90-110			
Blank (2C29021-BLK1)										
Prepared & Analyzed: 03/29/12 12:08										
Total Dissolved Solids	**ND**	5.07	mg/l							
Laboratory Control Sample (2C29021-BS1)										
Prepared & Analyzed: 03/29/12 12:08										
Total Dissolved Solids	**240**	5.07	mg/l	250		96	93-106			
Duplicate (2C29021-DUP1)					**Source: 1203688-02**					
Prepared & Analyzed: 03/29/12 12:08										
Total Dissolved Solids	**600**	5.07	mg/l		514			15	6	Q-26

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C29022-BLK1)										
Prepared & Analyzed: 03/29/12 12:09										
Conductivity @ 25°C	**ND**	1.00	uS/cm							
Laboratory Control Sample (2C29022-BS1)										
Prepared & Analyzed: 03/29/12 12:09										
Conductivity @ 25°C	**198**	1.00	uS/cm	200		99	98-102			
Duplicate (2C29022-DUP1)					**Source: 1203688-01**					
Prepared & Analyzed: 03/29/12 12:09										
Conductivity @ 25°C	**821**	1.00	uS/cm		827			0.7	2	
Blank (2C30010-BLK1)										
Prepared: 03/30/12 09:28 Analyzed: 03/30/12 15:00										
Oil & Grease (HEM)	**ND**	0.90	mg/l							
Laboratory Control Sample (2C30010-BS1)										
Prepared: 03/30/12 09:28 Analyzed: 03/30/12 15:00										
Oil & Grease (HEM)	**34.8**	0.90	mg/l	40.0		87	78-114			
Laboratory Control Sample Duplicate (2C30010-BSD1)										
Prepared: 03/30/12 09:28 Analyzed: 03/30/12 15:00										
Oil & Grease (HEM)	**33.8**	0.90	mg/l	40.0		84	78-114	3	18	
Matrix Spike (2C30010-MS1)					**Source: 1203748-01**					
Prepared: 03/30/12 09:28 Analyzed: 03/30/12 15:00										
Oil & Grease (HEM)	**87.2**	1.02	mg/l	45.5	49.2	83	78-114			

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C30017-BLK1)										
Prepared & Analyzed: 03/30/12 13:20										
Total Alkalinity	**ND**	20.0	mg CaCO3/l							
Laboratory Control Sample (2C30017-BS1)										
Prepared & Analyzed: 03/30/12 13:20										
Total Alkalinity	**250**	20.0	mg CaCO3/l	250		100	96-102			
Laboratory Control Sample Duplicate (2C30017-BSD1)										
Prepared & Analyzed: 03/30/12 13:20										
Total Alkalinity	**250**	20.0	mg CaCO3/l	250		100	96-102	0	3	
Matrix Spike (2C30017-MS1)										
Prepared & Analyzed: 03/30/12 13:20					**Source: 1203688-01**					
Total Alkalinity	**662**	20.0	mg CaCO3/l	250	410	101	90-110			
Matrix Spike Duplicate (2C30017-MSD1)										
Prepared & Analyzed: 03/30/12 13:20					**Source: 1203688-01**					
Total Alkalinity	**656**	20.0	mg CaCO3/l	250	410	98	90-110	0.9	2	

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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C26083-BLK1)										
Prepared & Analyzed: 03/26/12 16:04										
Acid Digestion of Aqueous	**Completed**	N/A	-							
Arsenic	**ND**	0.010	mg/l							
Barium	**ND**	0.0002	mg/l							
Cadmium	**ND**	0.0003	mg/l							
Calcium	**ND**	0.11	mg/l							
Chromium	**ND**	0.001	mg/l							
Iron	**ND**	0.01	mg/l							
Lead	**ND**	0.001	mg/l							
Magnesium	**ND**	0.005	mg/l							
Manganese	**0.0005**	0.0002	mg/l							J
Potassium	**ND**	0.217	mg/l							
Selenium	**ND**	0.003	mg/l							
Silver	**ND**	0.001	mg/l							
Sodium	**ND**	0.17	mg/l							
Strontium	**ND**	0.0003	mg/l							
Laboratory Control Sample (2C26083-BS1)										
Prepared & Analyzed: 03/26/12 16:04										
Acid Digestion of Aqueous	**Completed**	N/A	-				0-0			
Arsenic	**0.508**	0.010	mg/l	0.500		102	80-120			
Barium	**0.499**	0.0002	mg/l	0.500		100	80-120			
Cadmium	**0.505**	0.0003	mg/l	0.500		101	80-120			
Calcium	**9.54**	0.11	mg/l	10.0		95	80-120			
Chromium	**0.518**	0.001	mg/l	0.500		104	80-120			
Iron	**5.36**	0.01	mg/l	5.00		107	80-120			
Lead	**0.502**	0.001	mg/l	0.500		100	80-120			
Magnesium	**9.67**	0.005	mg/l	10.0		97	80-120			
Manganese	**0.506**	0.0002	mg/l	0.500		101	80-120			
Potassium	**9.64**	0.217	mg/l	10.0		96	80-120			
Selenium	**1.01**	0.003	mg/l	1.00		101	80-120			
Silver	**0.520**	0.001	mg/l	0.500		104	80-120			
Sodium	**9.68**	0.17	mg/l	10.0		97	80-120			
Strontium	**0.497**	0.0003	mg/l	0.500		99	80-120			

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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2C26083-BSD1)										
Prepared & Analyzed: 03/26/12 16:04										
Acid Digestion of Aqueous	**Completed**	N/A	-				0-0		0	
Arsenic	**0.495**	0.010	mg/l	0.500		99	80-120	2	20	
Barium	**0.493**	0.0002	mg/l	0.500		99	80-120	1	20	
Cadmium	**0.494**	0.0003	mg/l	0.500		99	80-120	2	20	
Calcium	**9.78**	0.11	mg/l	10.0		98	80-120	3	20	
Chromium	**0.510**	0.001	mg/l	0.500		102	80-120	2	20	
Iron	**5.26**	0.01	mg/l	5.00		105	80-120	2	20	
Lead	**0.489**	0.001	mg/l	0.500		98	80-120	3	20	
Magnesium	**10.0**	0.005	mg/l	10.0		100	80-120	4	20	
Manganese	**0.499**	0.0002	mg/l	0.500		100	80-120	2	20	
Potassium	**9.83**	0.217	mg/l	10.0		98	80-120	2	20	
Selenium	**0.980**	0.003	mg/l	1.00		98	80-120	3	20	
Silver	**0.497**	0.001	mg/l	0.500		99	80-120	5	20	
Sodium	**9.95**	0.17	mg/l	10.0		100	80-120	3	20	
Strontium	**0.509**	0.0003	mg/l	0.500		102	80-120	2	20	
Matrix Spike (2C26083-MS1)					**Source: 1203688-01**					
Prepared & Analyzed: 03/26/12 16:04										
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0			
Arsenic	**0.488**	0.010	mg/l	0.500	ND	98	75-125			
Barium	**0.468**	0.0002	mg/l	0.500	0.002	93	75-125			
Cadmium	**0.477**	0.0003	mg/l	0.500	ND	95	75-125			
Calcium	**46.4**	0.11	mg/l	10.0	37.5	89	75-125			
Chromium	**0.478**	0.001	mg/l	0.500	ND	96	75-125			
Iron	**4.98**	0.01	mg/l	5.00	0.03	99	75-125			
Lead	**0.469**	0.001	mg/l	0.500	0.006	93	75-125			
Magnesium	**19.0**	0.005	mg/l	10.0	10.1	89	75-125			
Manganese	**0.470**	0.0002	mg/l	0.500	0.005	93	75-125			
Potassium	**11.8**	0.217	mg/l	10.0	1.04	107	75-125			
Selenium	**0.970**	0.003	mg/l	1.00	0.003	97	75-125			
Silver	**0.476**	0.001	mg/l	0.500	ND	95	75-125			
Sodium	**126**	0.17	mg/l	10.0	114	119	75-125			
Strontium	**0.882**	0.0003	mg/l	0.500	0.401	96	75-125			

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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2C26083-MS2)										
Prepared & Analyzed: 03/26/12 16:04					**Source: 1203692-03**					
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0			
Arsenic	**0.502**	0.010	mg/l	0.500	ND	100	75-125			
Barium	**0.584**	0.0002	mg/l	0.500	0.116	94	75-125			
Cadmium	**0.488**	0.0003	mg/l	0.500	ND	98	75-125			
Calcium	**153**	0.11	mg/l	10.0	148	45	75-125			Q-02
Chromium	**0.490**	0.001	mg/l	0.500	0.004	97	75-125			
Iron	**9.65**	0.01	mg/l	5.00	4.67	100	75-125			
Lead	**0.482**	0.001	mg/l	0.500	0.016	93	75-125			
Magnesium	**19.8**	0.005	mg/l	10.0	12.7	71	75-125			Q-02
Manganese	**0.809**	0.0002	mg/l	0.500	0.343	93	75-125			
Potassium	**20.8**	0.217	mg/l	10.0	11.6	92	75-125			
Selenium	**0.984**	0.003	mg/l	1.00	ND	98	75-125			
Silver	**0.482**	0.001	mg/l	0.500	ND	96	75-125			
Sodium	**110**	0.17	mg/l	10.0	102	75	75-125			
Strontium	**1.43**	0.0003	mg/l	0.500	0.954	94	75-125			
Matrix Spike Duplicate (2C26083-MSD1)										
Prepared & Analyzed: 03/26/12 16:04					**Source: 1203688-01**					
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0		0	
Arsenic	**0.481**	0.010	mg/l	0.500	ND	96	75-125	1	20	
Barium	**0.462**	0.0002	mg/l	0.500	0.002	92	75-125	1	20	
Cadmium	**0.471**	0.0003	mg/l	0.500	ND	94	75-125	1	20	
Calcium	**46.9**	0.11	mg/l	10.0	37.5	94	75-125	1	20	
Chromium	**0.476**	0.001	mg/l	0.500	ND	95	75-125	0.4	20	
Iron	**4.96**	0.01	mg/l	5.00	0.03	98	75-125	0.5	20	
Lead	**0.461**	0.001	mg/l	0.500	0.006	91	75-125	2	20	
Magnesium	**18.8**	0.005	mg/l	10.0	10.1	87	75-125	1	20	
Manganese	**0.467**	0.0002	mg/l	0.500	0.005	92	75-125	0.8	20	
Potassium	**11.6**	0.217	mg/l	10.0	1.04	105	75-125	2	20	
Selenium	**0.949**	0.003	mg/l	1.00	0.003	95	75-125	2	20	
Silver	**0.466**	0.001	mg/l	0.500	ND	93	75-125	2	20	
Sodium	**126**	0.17	mg/l	10.0	114	119	75-125	0	20	
Strontium	**0.884**	0.0003	mg/l	0.500	0.401	97	75-125	0.2	20	

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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2C26083-MSD2)										
Prepared & Analyzed: 03/26/12 16:04					**Source: 1203692-03**					
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0		0	
Arsenic	**0.497**	0.010	mg/l	0.500	ND	99	75-125	1	20	
Barium	**0.577**	0.0002	mg/l	0.500	0.116	92	75-125	1	20	
Cadmium	**0.482**	0.0003	mg/l	0.500	ND	96	75-125	1	20	
Calcium	**152**	0.11	mg/l	10.0	148	36	75-125	0.6	20	Q-02
Chromium	**0.481**	0.001	mg/l	0.500	0.004	95	75-125	2	20	
Iron	**9.47**	0.01	mg/l	5.00	4.67	96	75-125	2	20	
Lead	**0.474**	0.001	mg/l	0.500	0.016	91	75-125	2	20	
Magnesium	**20.7**	0.005	mg/l	10.0	12.7	80	75-125	5	20	
Manganese	**0.797**	0.0002	mg/l	0.500	0.343	91	75-125	1	20	
Potassium	**22.6**	0.217	mg/l	10.0	11.6	110	75-125	8	20	
Selenium	**0.975**	0.003	mg/l	1.00	ND	97	75-125	1	20	
Silver	**0.479**	0.001	mg/l	0.500	ND	96	75-125	0.6	20	
Sodium	**112**	0.17	mg/l	10.0	102	97	75-125	2	20	
Strontium	**1.41**	0.0003	mg/l	0.500	0.954	92	75-125	1	20	
Blank (2C28058-BLK1)										
Prepared: 03/28/12 10:29 Analyzed: 03/28/12 12:56										
Mercury	**ND**	0.00004	mg/l							
Laboratory Control Sample (2C28058-BS1)										
Prepared: 03/28/12 10:29 Analyzed: 03/28/12 13:08										
Mercury	**0.00273**	0.00004	mg/l	0.00250		109	85-115			
Laboratory Control Sample Duplicate (2C28058-BSD1)										
Prepared: 03/28/12 10:29 Analyzed: 03/28/12 13:11										
Mercury	**0.00270**	0.00004	mg/l	0.00250		108	85-115	1	20	

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2C28058-MS1)										
Prepared: 03/28/12 10:29 Analyzed: 03/28/12 13:20					**Source: 1203688-02**					
Mercury	**0.00200**	0.00004	mg/l	0.00250	ND	80	70-130			
Matrix Spike Duplicate (2C28058-MSD1)										
Prepared: 03/28/12 10:29 Analyzed: 03/28/12 13:04					**Source: 1203688-02**					
Mercury	**0.00349**	0.00004	mg/l	0.00250	ND	140	70-130	54	20	Q-02, Q-04

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Total Petroleum Hydrocarbons Rev. 3 - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2C28076-BLK1)										
Prepared & Analyzed: 03/28/12 15:15										
TPH 1005 Extraction	**Completed**	N/A	N/A							
TPH (C6-C12)	**ND**	0.598	mg/l							
TPH (>C12-C28)	**ND**	0.230	mg/l							
TPH (>C28-C35)	**ND**	0.069	mg/l							
TPH (C6-C35)	**ND**	0.881	mg/l							
Surrogate: 1-Chlorooctane	**22.9**		mg/l	25.2		91	70-130			
Surrogate: o-Terphenyl	**24.0**		mg/l	25.2		95	70-130			
Laboratory Control Sample (2C28076-BS1)										
Prepared & Analyzed: 03/28/12 15:15										
TPH 1005 Extraction	**Completed**	N/A	N/A				0-0			
TPH (C6-C12)	**36.6**	0.599	mg/l	39.9		92	75-125			
TPH (>C12-C28)	**19.3**	0.231	mg/l	20.0		97	75-125			
TPH (>C28-C35)	**6.46**	0.069	mg/l	6.64		97	75-125			
TPH (C6-C35)	**62.4**	0.883	mg/l	66.4		94	75-125			
Surrogate: 1-Chlorooctane	**21.7**		mg/l	25.2		86	70-130			
Surrogate: o-Terphenyl	**22.1**		mg/l	25.2		88	70-130			
Laboratory Control Sample Duplicate (2C28076-BSD1)										
Prepared & Analyzed: 03/28/12 15:15										
TPH 1005 Extraction	**Completed**	N/A	N/A				0-0		0	
TPH (C6-C12)	**36.0**	0.600	mg/l	40.0		90	75-125	2	20	
TPH (>C12-C28)	**20.0**	0.231	mg/l	20.0		100	75-125	4	20	
TPH (>C28-C35)	**6.12**	0.069	mg/l	6.65		92	75-125	5	20	
TPH (C6-C35)	**62.2**	0.883	mg/l	66.5		94	75-125	0.4	20	
Surrogate: 1-Chlorooctane	**20.1**		mg/l	25.2		80	70-130			
Surrogate: o-Terphenyl	**20.0**		mg/l	25.2		79	70-130			

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Total Petroleum Hydrocarbons Rev. 3 - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2C28076-MS1)										
Prepared & Analyzed: 03/28/12 15:15					**Source: 1203688-01**					
TPH 1005 Extraction	**Completed**	N/A	N/A		ND		0-0			
TPH (C6-C12)	**64.9**	0.579	mg/l	38.6	ND	168	75-125			Q-02
TPH (>C12-C28)	**20.8**	0.223	mg/l	19.3	ND	108	75-125			
TPH (>C28-C35)	**6.61**	0.067	mg/l	6.42	ND	103	75-125			
TPH (C6-C35)	**92.3**	0.853	mg/l	64.2	ND	144	75-125			Q-02
Surrogate: 1-Chlorooctane	**22.4**		mg/l	24.4		92	70-130			
Surrogate: o-Terphenyl	**22.3**		mg/l	24.4		92	70-130			
Matrix Spike Duplicate (2C28076-MSD1)										
Prepared & Analyzed: 03/28/12 15:15					**Source: 1203688-01**					
TPH 1005 Extraction	**Completed**	N/A	N/A		ND		0-0		0	
TPH (C6-C12)	**29.2**	0.554	mg/l	36.9	ND	79	75-125	76	20	Q-04
TPH (>C12-C28)	**16.2**	0.213	mg/l	18.5	ND	88	75-125	25	20	Q-04
TPH (>C28-C35)	**5.16**	0.064	mg/l	6.14	ND	84	75-125	25	20	Q-04
TPH (C6-C35)	**50.6**	0.816	mg/l	61.4	ND	82	75-125	58	20	Q-04
Surrogate: 1-Chlorooctane	**19.4**		mg/l	23.3		83	70-130			
Surrogate: o-Terphenyl	**20.2**		mg/l	23.3		87	70-130			

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

J	This value is above the method detection limit but below the reporting limit.
M-06	The pH was measured at a temperature of 18.3°C.
M-06a	The pH was measured at a temperature of 18.7°C.
M-06b	The pH was measured at a temperature of 19.6°C.
M-06c	The pH was measured at a temperature of 21.9°C.
Q-02	The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range.
Q-04	The RPD of this analyte between the MS(s) was outside of the acceptable range. The RPD of this same analyte between the LCS(s) was within the acceptable range.
Q-20	The recovery of this analyte in the MS was higher than the acceptable range. This indicates a high bias to the result presented.
Q-21	The recovery of this analyte in the MS was lower than the acceptable range. This indicates a low bias to the result presented.
Q-22	The RPD between the MS(s) sample analyses was outside the acceptable range. This indicates the result was not as precise as expected.
Q-26	The RPD between duplicate analyses was outside of the acceptable range. This indicates the result was not as precise as expected.
R-01	The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target and/or non-target parameters in this sample.
S-06	This sample was received outside of the EPA recommended holding time for this parameter. The result presented is, therefore, considered an estimated value.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/kg	micrograms per kilogram
ug/l	micrograms per liter

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Trinity Pad Site
Project #: [none]
Print Date/Time: 04/05/12 17:32

exc	Not covered under scope of NELAP accreditation.
F*	Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor when >1.00.
Inst	Instrument Identification
Anlst	Analyst Initials
SDL	Sample Detection Limit
MQL	Method Quantitation Limit
naa	This analysis/parameter is not accreditable under the current NELAP program

SUBCONTRACT ORDER

PACE Analytical Services, Inc.

1203688

SHORT HOLD 10186999

SENDING LABORATORY:

PACE Analytical Services, Inc.
400 West Bethany, Suite 190
Allen, TX 75013
Phone: (972) 727-1123
Fax: (972) 727-1175
Project Manager: Customer Service

RECEIVING LABORATORY:

Pace Analytical Services - Minneapolis
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1203688-01	**Aqueous**	**Sampled:03/26/12 09:00**		001
Subout1 See Comments	03/30/12 17:00	04/02/12 09:00		RSK 175 - TRRP
Containers Supplied:				
Other - Unpres (P)	Other - Unpres (R)			
Sample ID: 1203688-02	**Aqueous**	**Sampled:03/26/12 10:00**		002
Subout1 See Comments	03/30/12 17:00	04/02/12 10:00		RSK 175 - TRRP
Containers Supplied:				
Other - Unpres (P)	Other - Unpres (R)			

Project Name: Colleyville Trinity Pad Site
Sample ID: -01 WOB
-02 WOB

T=6.0 #2

Released By	Date	Received By	Date
	1800 3-27-12	ILA	3-28-12 1005
Released By	Date	Received By	Date

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 15Feb2012 Page 1 of 1
	Document Number: **F-MN-L-213-rev.02**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace Texas Project # 10186999

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 793387398130

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 _____ Temp Blank: Yes ____ No X

Thermometer Used 80344042 or 80512447 **Type of Ice:** Wet Blue None ☐ Samples on Ice, cooling process has begun

Cooler Temperature 6.0 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/28/12 SBA

		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	☒Yes ☐No ☐N/A	12.
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4, HCL<2; NaOH >12)	☐Yes ☐No ☒N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	14.
Trip Blank Present:	☐Yes ☒No ☐N/A	15.
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: _____

Project Manager Review: _____ **Date:** 3/28/12

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 Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

April 03, 2012

Shelly Connelly
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013

RE: Project 10186999
Project ID: 1203688 Colleyville Trinity

Dear Shelly Connelly:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Kyle Richardson
kyle.richardson@pacelabs.com
(612)607-1700

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Cover No Results 4/3/2012 10:14:

Appendix A
LABORATORY DATA PACKAGE COVER PAGE

This data package is for Job No. 10186999
and consists of:

This signature page, the laboratory review checklist, and the following reportable data:

[X] R1 - Field chain-of-custody documentation;
[X] R2 - Sample identification cross-reference;
[X] R3 - Test reports (analytical data sheets) for each environmental sample that includes:
- a. Items consistent with NELAC Chapter 5,
- b. Dilution factors,
- c. Preparation methods,
- d. Cleanup methods, and
- e. If required for the project, tentatively identified compounds (TICs).

[ ] R4 - Surrogate recovery data including:
- a. Calculated recovery (%R), and
- b. The laboratory's surrogate QC limits.

[X] R5 - Test reports/summary forms for blank samples;
[X] R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
- a. LCS spiking amounts,
- b. Calculated %R for each analyte, and
- c. The laboratory's LCS QC limits.

[X] R7 - Test reports/summary forms for matrix spike/matrix spike duplicates (MS/MSDs) including:
- a. Samples associated with the MS/MSD clearly identified,
- b. MS/MSD spiking amounts,
- c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d. Calculated %Rs and relative percent differences, and
- e. The laboratory's MS/MSD QC limits.

[ ] R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
- a. The amount of analyte measured in the duplicate,
- b. The calculated RPD, and
- c. The laboratory's QC limits for analytical duplicated.

[X] R9 - List of method quantitation limits (MQLs) and detectibility check sample results for each analyte and matrix.
[X] R10 - Other problems or anomolies.

The exception Report for each "No" or Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix and method for which the laboratory does not hold NELAC accredidation under the Texas Laboratory Accredidation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [X] MN DNR 05/26/2011

Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (Printed)	Date
Kyle Richardson		Project Manager	4/3/2012

Laboratory Certifications

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10186999

Client: Pasi- Dallas

Project ID: 1203688 Colleyville Trinity

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Certification IDs

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nebraska Certification #: Pace

Nevada Certification #: MN_00064

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oklahoma Certification #: D9921

REPORT OF LABORATORY ANALYSIS

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Laboratory Certifications

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10186999

Client: Pasi- Dallas

Project ID: 1203688 Colleyville Trinity

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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Sample Cross Reference

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10186999

Client: Pasi- Dallas

Project ID: 1203688 Colleyville Trinity

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
WLOB	10186999001	WATER	26-Mar-12 09:00	28-Mar-12 10:05
WLOG	10186999002	WATER	26-Mar-12 10:00	28-Mar-12 10:05

Project Narrative

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10186999

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Sample Results

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Client: Pasi- Dallas

Client ID: WLOB
Project ID: 1203688 Colleyville Trinity
Lab ID: 10186999001
Description: none
Method: RSK 175
RSK 175 AIR Headspace

Project: 10186999
Site: none
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 202208
Collected: 26-Mar-12
Received: 28-Mar-12
Prepared: 28-Mar-12

Units: mg/L

CAS No.	Analyte	Dilution	Qu	Result	MQL	SQL	UQL	Analysis	
74-84-0	Ethane	1	U	<0.00620	0.0124	0.00620		28-Mar-12 19:05	CJR
74-85-1	Ethene	1	U	<0.00620	0.0124	0.00620		28-Mar-12 19:05	CJR
74-82-8	Methane	1		0.00820	0.00660	0.000690	16.7	28-Mar-12 19:05	CJR

3 compound(s) reported

Protocol 4/3/2012 10:14:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Client: Pasi- Dallas

Client ID: WLOG
Project ID: 1203688 Colleyville Trinity
Lab ID: 10186999002
Description: none
Method: RSK 175
RSK 175 AIR Headspace

Project: 10186999
Site: none
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 202208
Collected: 26-Mar-12
Received: 28-Mar-12
Prepared: 28-Mar-12

Units: mg/L

CAS No.	Analyte	Dilution	Qu	Result	MQL	SQL	UQL	Analysis	
74-84-0	Ethane	1	U	<0.00620	0.0124	0.00620		28-Mar-12 19:15	CJR
74-85-1	Ethene	1	U	<0.00620	0.0124	0.00620		28-Mar-12 19:15	CJR
74-82-8	Methane	1	U	<0.000690	0.00660	0.000690	16.7	28-Mar-12 19:15	CJR

3 compound(s) reported

Protocol 4/3/2012 10:14:41

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Quality Control

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Batch: 202208 **Project:** 10186999 **LCS:** 1163765 28-Mar-12 17:50

MS: 1163799 29-Mar-12 12:20

Units: mg/L **MSD:** 1163800 29-Mar-12 12:31

Original for MS: Project Sample 10186999001

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Ethane	0.114	0.107	94	0.103	0.00	0.109	0.107	105	99	1	70 - 130	30 - 150	30	
Ethene	0.106	0.102	96	0.0964	0.00	0.101	0.1	105	99	1	70 - 130	30 - 150	30	
Methane	0.0607	0.0618	102	0.0551	0.01	0.066	0.0653	105	99	1	70 - 130	30 - 150	30	

3 compound(s) reported

4/3/2012 10:14:42

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Organics Method Blank

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Blank ID: BLANK for HBN 202208 **Project:** 10186999

Lab ID: 1163764

Prep Level: Water **Batch:** 202208

Method: Water RSK 175
RSK 175 AIR Headspace

Prepared: 28-Mar-12

Units: mg/L

CAS Numb	Analyte	Dilution	Qu	Result	Reporting MQL	SQL	Analysis	
74-84-0	Ethane	1	U	<0.00620	0.0124	0.00620	28-Mar-12 18:01	CJR
74-85-1	Ethene	1	U	<0.00620	0.0124	0.00620	28-Mar-12 18:01	CJR
74-82-8	Methane	1	U	<0.000690	0.00660	0.000690	28-Mar-12 18:01	CJR

3 compound(s) reported

4/3/2012 10:14:43

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Unadjusted MQL Summary

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10186999

Analyte	Method	Unadjusted MQL	Reporting Units
Ethane	RSK 175	0.0124	mg/L
Ethene	RSK 175	0.0124	mg/L
Methane	RSK 175	0.00660	mg/L

Definitions/Qualifiers

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10186999

Value	Description
R1	RPD value was outside control limits.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

TRRP LABORATORY REVIEW CHECKLIST							
Laboratory Name:		Pace Analytical Services, Inc.	**LRC Date:**			4/3/2012	
Project Name:		1203688 Colleyville Trinity	**Lab Job Number:**			10186999	
Reviewer Name:		Kyle Richardson					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER #[5]**
R1	**OI**	**CHAIN-OF-CUSTODY (COC):**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	**Auto**				
		Were all departures from standard conditions described in an exception report?	**X**				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION:**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	**X**				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	**X**				
R3	**OI**	**TEST REPORTS:**					
		Were samples prepared and analyzed within holding times?	**X**				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	**X**				
		Were calculations checked by a peer or supervisor?	**X**				
		Were all analyte identifications checked by a peer or supervisor?	**X**				
		Were sample detection limits reported for all analytes not detected?	**X**				
		Were all results for soil and sediment samples reported on a dry weight basis?		X			
		Were % moisture (or solids) reported for all soil and sediment samples?		X			
		If required for the project, were TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA:**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	**X**				
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES:**					
		Were appropriate type(s) of blanks analyzed?	**X**				
		Were blanks analyzed at the appropriate frequency?	**X**				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	**X**				
		Were blank concentrations < MQL?	**X**				
R6	**OI**	**LABORATORY CONTROL SAMPLES (LCSs):**					
		Were all COCs included in the LCS?	**X**				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	**X**				
		Were LCSs analyzed at the required frequency?	**X**				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	**X**				
		Was the LCSD RPD within QC limits?	**X**				
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA:**					
		Were the project/method specified analytes included in the MS and MSD?	**X**				
		Were MS/MSD analyzed at the appropriate frequency?	**X**				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		Were MS/MSD RPDs within the laboratory QC limits?	**X**				
R8	**OI**	**ANALYTICAL DUPLICATE DATA:**					
		Were appropriate analytical duplicates analyzed for each matrix?	**X**				
		Were analytical duplicates analyzed at the appropriate frequency?	**X**				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			5D
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	**X**				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	**X**				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	**X**				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES:**					
		Are all known problems/anomalies/special conditions noted in this LCR and ER?	**X**				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	**X**				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analtes, matrices, and methods associated with this laboratory data package?	**X**				

R-Required items S-Available if requested 2-O=organic, I=inorganic 3-NA=Not applicable 4-NR=Not reviewed 5-ER=Exception report #

TRRP LABORATORY REVIEW CHECKLIST							
Laboratory Name:		Pace Analytical Services, Inc.	**LRC Date:**			4/3/2012	
Project Name:		1203688 Colleyville Trinity	**Lab Job Number:**			10186999	
Reviewer Name:		Kyle Richardson					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER #[5]**
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	**X**				
		Were percent RSDs or correlation coefficient criteria met?	**X**				
		Was the number of standards recommended in the method used for all analytes?	**X**				
		Were all points generated between the lowest and highest standard used to calculate the curve?	**X**				
		Are ICAL data available for all instruments used?	**X**				
		Has the initial calibration curve been verified using an appropriate second source standard?	**X**				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV**					
		Was the CCV analyzed at the method-required frequency?	**X**				
		Were percent differences for each analyte within the method-required QC limits?	**X**				
		Was the ICAL curve verified for each analyte?	**X**				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	**X**				
S3	**O**	**MASS SPECTRAL TUNING:**					
		Was the appropriate compound for the method used for tuning?	**X**				
		Were ion abundance data within the method-required QC limits?	**X**				
S4	**O**	**INTERNAL STANDARD (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	**X**				
S5	**OI**	**RAW DATA (NELAC SECTION 5.5.10):**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	**X**				
		2) Were data associated with manual integrations flagged on the raw data?	**X**				
S6	**O**	**DUAL COLUMN CONFIRMATION:**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS:**					
		1) Were percent recoveries within method QC limits?	**X**				
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITIONS**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	**X**				
S10	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES:**					
		Was a MDL study performed for each reported analyte?	**X**				
		Is the MDL either adjusted or supported by the analysis of DCSs?	**X**				
S11	**OI**	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	**X**				
S12	**OI**	**STANDARDS DOCUMENTATION:**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	**X**				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES:**					
		Are the procedures for compound/analyte identification documented?	**X**				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	**X**				
		Is documentation of the analyst's competency up-to-date and on file?	**X**				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC CHAPTER 5)**					
		Are all the methods used to generate the data documented, verified and validated, where applicable?	**X**				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	**X**				

R-Required items S-Available if requested 2-O=organic, I=inorganic 3-NA=Not applicable 4-NR=Not reviewed 5-ER=Exception report #

TRRP LABORATORY REVIEW CHECKLIST			
Laboratory Name:		**LRC Date:**	
Project Name:		**Lab Job Number:**	
Reviewer Name:	Pace Analytical Services, Inc.		######
ER #	**1203688 Colleyville Trinity**		1E+07
5D	DUP 1163786 batch AIR/14564 Methane Rec limits 30%.		

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663
Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com
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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Results

Printed: 04/02/2012

Client: PAS5 *Project:* 565048

Report To

Default

Account	*Project*
PAS5-N	565048

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Results

Parameter		Results	Units	RL	Flags	CAS	Bottle
1108467	**1203688-01**					*Received:*	03/27/2012
Liquid Aqueous		*Collected by:* Client		*Affiliation:*	Pace Analytical Serv	03/26/2012	09:00:00
	Prepared:	***470235***	*03/29/2012*		*11:45:00*		
EPA 200.7, Rev. 4.4			*Analyzed: WOB*	*03/30/2012*	*08:11:07*	*QCgroup*	*470417*
z	**Sulfur**	**23.3**	**mg/L**	2.50		**7704-34-9**	02

The above methods that we used are approved for NPDES reporting as listed in 40 CFR 136 Table 1B or Ana-Lab has specific approval from EPA to use these methods for NPDES reporting.

1108469	**1203688-02**					*Received:*	03/27/2012
Liquid Aqueous		*Collected by:* Client		*Affiliation:*	Pace Analytical Serv	03/26/2026	10:00:00
	Prepared:	***470235***	*03/29/2012*		*11:45:00*		
EPA 200.7, Rev. 4.4			*Analyzed: WOB*	*03/30/2012*	*09:26:32*	*QCgroup*	*470417*
z	**Sulfur**	**23.3**	**mg/L**	2.50		**7704-34-9**	02

The above methods that we used are approved for NPDES reporting as listed in 40 CFR 136 Table 1B or Ana-Lab has specific approval from EPA to use these methods for NPDES reporting.

Sample Preparation

1108467	**1203688-01**					*Received:*	03/27/2012
	Prepared:		*03/27/2012*		*00:00:00*		
			Analyzed: GDG	*03/27/2012*	*00:00:00*	*QCgroup*	
z	**Bottle pH**	**<2**	**SU**				01
	Bottle Temperature on Receipt	**23**	**degrees**				01
	Prepared:	***470235***	*03/29/2012*		*11:45:00*		
EPA 200.2 2.8			*Analyzed: TES*	*03/29/2012*	*11:45:00*	*QCgroup*	*470235*
N	**Liquid Metals Digestion**	**50/50**	**ml**				01
1108469	**1203688-02**					*Received:*	03/27/2012
	Prepared:		*03/27/2012*		*00:00:00*		
			Analyzed: GDG	*03/27/2012*	*00:00:00*	*QCgroup*	

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Results

Printed: 04/02/2012

Client: PAS5 *Project:* 565048

Sample Preparation

1108469 **1203688-02** *Received:* 03/27/2012

			Analyzed: GDG	*03/27/2012*	*00:00:00*	*QCgroup*
z	**Bottle pH**	**<2**	**SU**			01
	Bottle Temperature on Receipt	**23**	**degrees**			01
	Prepared:	***470235***	*03/29/2012*		*11:45:00*	
EPA 200.2 2.8			*Analyzed: TES*	*03/29/2012*	*11:45:00*	*QCgroup* *470235*
N	**Liquid Metals Digestion**	**50/50**	**ml**			01

Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commisson on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

C. H. Whiteside, Ph.D., President

Ethics Service Quality ACIL 2005 SEAL OF EXCELLENCE PROGRAM Environmental

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

LELAP-accredited #02008

Results Summary

Project **565048**

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Liquid Aqueous	**Metals**					**EPA 200.7, Rev. 4.4**					
1108467	**1203688-01**										
		Collection:	03/26/2012		09:00:00	Client			*Received:*	03/27/2012	
Prepared:	***470235***			*Analyzed:*		***470417***		3/30/12	08:11:07		
7704-34-9	**Sulfur**	**23.3**	0.050	0.500	0.250	2.50		**mg/L**		02	10.00
1108469	**1203688-02**										
		Collection:	03/26/2026		10:00:00	Client			*Received:*	03/27/2012	
Prepared:	***470235***			*Analyzed:*		***470417***		3/30/12	09:26:32		
7704-34-9	**Sulfur**	**23.3**	0.050	0.500	0.250	2.50		**mg/L**		02	10.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)
MQL is the Method Quantitation Limit and corresponds to a low standard
Qualifiers:

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)
MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commisson on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

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Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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LELAP-accredited #02008

Results Summary

Project **565048**

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

C. H. Whiteside

C. H. Whiteside, Ph.D., President

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Quality Control

Printed 04/02/2012

Report To

WATER

Account	Project
PAS5 -N	565048

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

470417 M Liquid Aqueous — EPA 200.7, Rev. 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfur	470235	0.0785	0.050	0.250	mg/L	112361745

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	19.8	20.0	mg/L	99.0	90.0 - 110		112361735
Sulfur	20.7	20.0	mg/L	104	90.0 - 110		112361744
Sulfur	20.9	20.0	mg/L	104	90.0 - 110		112361752
Sulfur	20.3	20.0	mg/L	102	90.0 - 110		112361755
Sulfur	21.5	20.0	mg/L	108	90.0 - 110		112361761

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	41.2	40.0	mg/L	103	95.0 - 105		112361733
Sulfur	42.0	40.0	mg/L	105	95.0 - 105		112361753

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	20.1	20.0	mg/L	100	90.0 - 110		112361734
Sulfur	19.9	20.0	mg/L	99.5	90.0 - 110		112361754

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Sulfur	470235	4.53	4.00	mg/L	113	85.0 - 115	112361746	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Sulfur	470235	4.53	4.44	4.00	85.0 - 115	113	111	mg/L	2.01	20.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfur	1108860	5.85	0	1.34	4.00	75.0 - 125	113		mg/L		20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfur	1108860	5.85	5.85	1.34	4.00	75.0 - 125	113	113	mg/L	0	20.0

470419 M Liquid Aqueous — EPA 200.7, Rev. 4.4

Duplicate

Parameter	Sample	Type	Result	Unknown	Unit	RPD	Limit%
Sulfur	1107687	Duplicate	145000	166000	mg/Kg	13.5	20.0

RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100%

Recover% is Recovery Percent: result / known * 100%

565048 CoC Print Group 001 of 001

PASS

SUBCONTRACT ORDER

PACE Analytical Services, Inc.

1203688

SENDING LABORATORY:	RECEIVING LABORATORY:
PACE Analytical Services, Inc.	Ana Lab Corporation
400 West Bethany, Suite 190	2600 Dudley Rd
Allen, TX 75013	Kilgore, TX 75662
Phone: (972) 727-1123	Phone :(903) 984-0551
Fax: (972) 727-1175	Fax: (903) 984-5914
Project Manager: Customer Service	

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1203688-01	Aqueous	Sampled:03/26/12 09:00		
Subout2 See Comments *Containers Supplied:* Poly 500mL - pH<2 (O)	[redacted]	[redacted]		Sulfur - TRRP 1108467
Sample ID: 1203688-02	Aqueous	Sampled:03/26/12 10:00		
Subout2 See Comments *Containers Supplied:* Poly 500mL - pH<2 (O)	[redacted]	[redacted]		Sulfur - TRRP 1108469

Normal TAT

005057 ☐ CF
005112 ☐ CF NOI 23°C
003688 ☒ CF-133

Released By	Date	Received By	Date
[signature]	1700 3-26-12	LSO 2N506638	
LSO	3/27/12 1105	Gayle Gardner Ana-Lab	3/27/12 1105
Released By	Date	Received By	Date

ANA LAB CORP.
THE COMPLETE SERVICE LAB

565048 CoC Print Group 001 of 001

11 05 23°C GDG

Lone Star Overnight

Airbill No. ZN506638

Lone Star Overnight
800.800.8984
www.lso.com

To: **SAMPLE RECEIVING**
ANA LAB CORPORATION
2600 DUDLEY RD
KILGORE, TX 75662
(903) 984 - 0551

From: PACE ANALYTICAL
PACE ANALYTICAL
400 W. BETHANY RD
#190
ALLEN, TX 75013
(972) 727 - 1123

Service Type: Ground
1D00V

GGG

Ground

QuickCode: **ANA LAB**
Date Printed: 3/26/2012
Billing Ref 1:

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned.

Shipping Instructions

1. Fold this page along the horizontal line above.
2. Place this Airbill in the shipping label pouch on the package you are shipping. Please be sure the barcodes and addresses can be read and scanned.
3. To locate a drop box near you, click on **Find Drop Box** from the home page main menu.
4. To schedule a pickup, click on **Request Pickup**

WARNING: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your Lone Star Overnight account number.
LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES OR RESIDENTIAL DELIVERIES.

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663
Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008
Employee Owned Integrity Caring Continual Improvement

ANA-LAB CORP. THE COMPLETE SERVICE LAB

Cooler Review

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 565048

WATER

Receipt	Cooler	Air Bill	Date Recvd	By
0000000017	**17628**	PAS5 LSO ZN506638	03/27/2012	GDG

1. Was the cooler received intact and sealed. If no, notify client.	Yes
2. Was the cooler screened following the Radiochemistry survey procedure.	Yes
2a. Was the survey result negative. If no, notify the client.	Yes
2b. Are any of the samples identified by the client as radioactive.	No
2c. If radioactive, did the client provide RAD Activity	N/A
3. Were chain of custody documents included.	Yes
4. Was the cooler temperature checked.	Yes
5. Was cooler temperature within specifications (less than or equal to 6 C).	Yes
6. Is temperature documented on the Chain of Custody.	Yes
7. Lab has resources for these services (testing capability, available personnel, and can meet requested TAT). If no, notify client.	Yes
8. Cooler Seal Attached	Yes
9. Other Comments	N/A

N/R: Not Reviewed N/A: Not Applicable * Out

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663
Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008
Employee Owned Integrity Caring Continual Improvement

ANA-LAB CORP. THE COMPLETE SERVICE LAB

Bottle Review

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 565048

WATER

Receipt	Cooler	Air Bill	Received	By
17628	**0000000017**	PAS5 LSO ZN506638	03/27/2012	GDG

Sample	Bottle	Barcode	Description
1108467	***01***	*000000001740*	***Client supplied HNO3 to pH <2***

1.Was the sample container properly labeled.	Yes
2. Was the proper sample container type received.	Yes
3. Does the bottle label indicate that proper chemical preservatives were added if required.	Yes
3a. If preserved, was the sample bottle (except VOC Vials, 1005 Vials and FC bottles) at the proper pH.	Yes
3b. If no, was the sample's pH adjusted (except VOC Vials, 1005 Vials & FC Bottles) and the changes in pH recorded.	N/A
4. If the bottle was a VOC vial, was it free of headspace.	N/A
5. Was the bottle received intact.	Yes
6. Was the sample received within holding time. If no, notify the client.	Yes
7. Was the chain of custody documents completed correctly. (Ink, signed, matches container)	Yes
8. Bottle Seals Attached	N/R

Sample	Bottle	Barcode	Description
1108469	***01***	*000000001740*	***Client supplied HNO3 to pH <2***

1.Was the sample container properly labeled.	Yes
2. Was the proper sample container type received.	Yes
3. Does the bottle label indicate that proper chemical preservatives were added if required.	Yes
3a. If preserved, was the sample bottle (except VOC Vials, 1005 Vials and FC bottles) at the proper pH.	Yes
3b. If no, was the sample's pH adjusted (except VOC Vials, 1005 Vials & FC Bottles) and the changes in pH recorded.	N/A
4. If the bottle was a VOC vial, was it free of headspace.	N/A
5. Was the bottle received intact.	Yes

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Bottle Review

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 565048

WATER

Receipt	Cooler	Air Bill	Received	By
17628	**0000000017**	PAS5 LSO ZN506638	03/27/2012	GDG

Sample	Bottle	Barcode	Description	
6. Was the sample received within holding time. If no, notify the client.				Yes
7. Was the chain of custody documents completed correctly. (Ink, signed, matches container)				Yes
8. Bottle Seals Attached				N/R

N/R: Not Reviewed N/A: Not Applicable * Out

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Sample Cross Reference

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 565048

WATER

Sample	Sample ID	Taken	Time	Received
1108467	*1203688-01*	03/26/2012	09:00:00	03/27/2012

Bottle 01 Client supplied HNO3 to pH <2
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 470235) Volume: 50.00000 mL <== Derived from 01 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.7, Rev. 4.4	02	470235	03/29/2012	470417	03/30/2012

1108469	*1203688-02*	03/26/2026	10:00:00	03/27/2012

Bottle 01 Client supplied HNO3 to pH <2
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 470235) Volume: 50.00000 mL <== Derived from 01 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.7, Rev. 4.4	02	470235	03/29/2012	470417	03/30/2012

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 756633

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Sample Preparation

04/02/2012

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project **565048**

Default

Prep Set # **470235** 03/29/2012

Analytical Set # **470417** **EPA 200.7, Rev. 4.4** 03/30/2012

Sample	Sample ID	Bottle
1108467	1203688-01	02
1108469	1203688-02	02

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Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Holding Time Compliance

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 565048

WATER

Name	Method	Taken:	Received	Analyzed	Hold	Elapsed
	1108467	**3/26/12 9:00**	03/27/2012			
Sulfur	EPA 200.7, Rev. 4.4			3/30/12 8:11	180.00	3.00
Liquid Metals Digestion	EPA 200.2 2.8			3/29/12 11:45	180.00	3.00
	1108469	**3/26/26 10:00**	03/27/2012			
Sulfur	EPA 200.7, Rev. 4.4			3/30/12 9:26	180.00	
Liquid Metals Digestion	EPA 200.2 2.8			3/29/12 11:45	180.00	

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Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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Analytical Results

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Report Table of Contents

Account	*Project*
PAS5 -N	**565048**

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
565048_r00_00__TRRPcover	Ana-Lab Project P:565048 C:PAS5 TRRP Project Report Cover Page	1
565048_r01_07_CoolerReview	Ana-Lab Project P:565048 Project Cooler Review Report	1
565048_r01_08_ProjectBottleReview	Ana-Lab Project P:565048 Project Bottle Review Report	2
565048_r02_01_ProjectSamples	Ana-Lab Project P:565048 C:PAS5 Project Sample Cross Reference	1
565048_r02_03_ProjectPrep	Ana-Lab Project P:565048 C:PAS5 Project Preparation And QCgroup (Set) Listings	1
565048_r03_01_ProjectHold	Ana-Lab Project P:565048 C:PAS5 Project Holding Time Compliance	1
565048_r03_03_ProjectResults	Ana-Lab Project P:565048 C:PAS5 Project Results	2
565048_r03_06_M_ProjectTRRP	Ana-Lab Project P:565048 C:PAS5 Project TRRP Results Report for Class M	2
565048_r10_05_ProjectQC_EPA 200.7,	Ana-Lab Project P:565048 C:PAS5 Project Quality Control Groups _EPA 200.7, Rev. 4.4	1
565048_r99_09_CoC__1_of_1	Ana-Lab CoC PAS5 565048_1_of_1	2
565048_SETQA_470235_470417	Ana-Lab Project P:565048 C:PAS5 Project Quality Control TRRP-13 Check Lists 470235_470417	2

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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Analytical Results

Report Table of Contents

Account	Project
PAS5 -N	565048

Report To

Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Total Pages: 16

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

Employee Owned Integrity Caring Continual Improvement

ANA-LAB CORP. THE COMPLETE SERVICE LAB

Laboratory Data Package Cover Page 565048

WATER

This data package consists of:

- ☑ This signature page, the laboratory review checklist, and the following reportable data:
- ☑ R1 Field chain-of-custody documentation;
- ☑ R2 Sample identification cross-reference;
- ☑ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ R4 Surrogate recovery data including: (R4 - R8: See QC Report)
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ R5 Test reports/summary forms for blank samples;
- ☑ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☑ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix; See Results Summary
- ☑ R10 Other problems or anomalies.
- ☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Charles H Whiteside, PhD (CHW)	C.H. Whiteside	President	4/2/2012
Name	Signature	Official Title	Date

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

North Texas Region: 11105 Shady Trl Ste. 123 Dallas TX 75229-7633

NELAP-accredited #T104704201

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Appendix A:	Laboratory Review Checklist: Reportable Data
Laboratory Name: ANA-LAB	LRC Date: 04/02/2012
Project Name: Default	Laboratory Job (Project) Number: 565048
Reviewer Name: Charles H Whiteside, PhD (CHW)	PrepSet: 470235 QCgroup: 470417

#	A	Description	Yes	No	NA	NR	ER#
R01	OI	**Chain-of-Custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in the exception report?			X		
R02	OI	**Sample and Quality Control (QC) Identification**					
		Are all field sample ID numbers cross referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R03	OI	**Test Reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, tentatively identified compounds reported?			X		
R04	O	**Surrogate Recovery Data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R05	OI	**Test Reports/Summary Forms for Blank Samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R06	OI	**Laboratory Control Samples (LCS)**					
		Were all chemicals of concern included in the LCS?	X				
		Was each LCS taken though the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCS duplicate, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the chemicals of concern at the MDL used to calculate the SQLs?	X				
		Was the LCS duplicate relative percent difference within QC limits?	X				
R07		**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R08	OI	**Analytical Duplicate Data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R09	OI	**Method Quantitation Limits (MQLs)**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		Are all known problems/anomalies/special condition noted in this LRC and ER?	X				
		Were all necessary corrective actions preformed for the reported data?	X				
		Was applicable and available technology used to lower the SQL and minimize the matrix interference effects on the sample results?	X				

Appendix A:	Laboratory Review Checklist: Reportable Data
Laboratory Name: ANA-LAB	LRC Date: 04/02/2012
Project Name: Default	Laboratory Job (Project) Number: 565048
Reviewer Name: Charles H Whiteside, PhD (CHW)	PrepSet: 470235 QCgroup: 470417

#	A	Description	Yes	No	NA	NR	ER#
S01	OI	**Initial Calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S02	OI	**Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MQL?			X		
S03	O	**Mass Spectral Tuning**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S04	O	**Internal Standards (IS)**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S05	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section . . .)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S06	O	**Dual Column Confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S07	O	**Tentatively Identified Compounds (TICs)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S08	I	**Interference Check Sample (ICS) Results**					
		Were precent recoveries within method QC limits?	X				
S09	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or suppported by the analysis of detectability check samples?	X				
S11	OI	**Proficiency Test Reports**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?	X				
S13	IO	**Compound/Analyte Identification Procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Compentency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO/IEC Section 5)**					
		Are all the methods used to generate the data documented, verified and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
3. N/A = Not applicable;
4. NR = Not reviewed
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CHAIN OF CUSTODY RECORD

MODERN GEOSCIENCES

Laboratory: Erm / Pace
Address: Allen TX

Office Location: 1904 Industrial Blvd #105 Colleyville TX
Contact: Shelly Connelly
Phone: (972) 727-1123
Project Manager: Kenneth Traum
PO/SO #:
Sampler's Name: J.J. Hollingshead
Sampler's Signature:

Project No.: DFW12028
Project Name: Colleyville Water Resampling

Page 1 of 1

Turn around time:
☒ Normal ☐ 25% Rush
☐ 50% Rush ☐ 100% Rush

Temp. of coolers when received (C°): 1 0.8°C 2 3 4 5

ANALYSIS REQUESTED: See attached list

See attached list for analysis requested

Matrix	Date	Time	Comp	Grab	Sample ID:	VOA	A/G 1 Lt.	250 ml	P/O	See attached list	Lab Sample ID
W	4/03/12	1021		X	WW K	X			X	X	1204039-01
W	4/03/12	11:26		X	WW F	X			X	X	1204039-02

NFF

Relinquished by (signature):	Date / Time:	Received by (signature):	Date / Time:
[signature]	4/03/12 1225	[signature]	4/3/12
[signature]	4/3/12 13:55	Melissa McCullough	1355 4-3-12

Notes: (2)

E-mail results to: ktraum@moderngeosciences.com
jhollingshead@moderngeosciences.com

Matrix: WW - Wastewater, W - Water, S- Soil, SD - Solid, L - Liquid, A - Air Sample, C - Charcoal Tube, SL - Sludge, O - Oil

Container: VOA - 40 ml vial, A/G - Amber / or Glass 1 Liter, 250 ml - Glass Wide Mouth, P/O - Plastic or other _____

WHITE - LABORATORY
YELLOW - RETAINED COPY

Analyte	Method	Container Size, Notes on Sampling/Preservation
VOC	EPA 8260B	3 - 40ml w/HCL voas for 8260 [Green Cap]
TPH	TX 1005	3 - 40ml w/HCL preweighed voas for TPH-1005 [Red Cap]
Methane, Ethane, and Ethene	RSK 175	3 - 30ml voas w/silver screw cap for RSK-175 [Silver Cap]
Methanol	8015B	3 - 40ml unpreserved voas for Methanol [White Cap]
Glycols	8015B	1 - 1L amber glass unpreserved for Glycols
Oil and Grease	EPA9070A	1 - 1L clear glass w/H2SO4 for O&G
TSS	SM2540D	1 - 1000ml unpreserved plastic for TSS
Hexavalent Chromium	7196A	1 - 1000ml unpreserved plastic for Alk, Cl, Cr+6, MBAS, pH, Cond, SO4, TDS, Turbidity
TDS	SM2540C	
Chloride	EPA 9056A	
Sulfate	EPA 9056A	
pH	SM4500H+B	
Bicarbonate Alkalinity	SM2320B	
Conductivity	EPA 9050A	
Turbidity	EPA 180.1	
Methylene Blue Active Substances	SM5540C	
Sulfur	EPA 6010B	1 - 500ml plastic w/HNO3 for Sulfur
RCRA 8 (As, Ba, Cd, Cr, Pb, Hg*, Se,Ag)	EPA 6010B	1 - 500ml plastic w/HNO3 for Total Metals
Calcium	EPA 6010B	
Iron	EPA 6010B	
Magnesium	EPA 6010B	
Manganese	EPA 6010B	
Potassium	EPA 6010B	
Sodium	EPA 6010B	
Strontium	EPA 6010B	
*Mercury- EPA 7470A		

MODERN GEOSCIENCES

DDY SEAL CUSTODY SEAL CUSTODY SEAL

217 Initials: JH

Falcon X-Press We Deliver

P.O. BOX 940303
PLANO, TX 75094-0303
(972) 881-7577

NOTARY SERVICE AVAILABLE

No.

SHIPPER	NAME		DATE 6/3/12
	ADDRESS	SUITE	
	CITY		
	REFERENCE NO.		
CONSIGNEE	NAME		
	ADDRESS	SUITE	
	CITY		
	ATTN:		

Falcon Charges	Type of Delivery
☐ PREPAID	☐ X-Press
☐ COLLECT	☐ 2 HOUR
☐ ROUND TRIP	☐ 4 HOUR
☐ NIGHT-WEEKEND	☐ NEXT DAY

NO. PCS.	DESCRIPTION AND REMARKS	WEIGHT	CHARGES	
			WEIGHT CHARGE	
			WAITING TIME CHG	
			DELIVERY CHARGE	
WAITING TIME			TOTAL CHARGES	

NOT RESPONSIBLE FOR FREIGHT CLAIMS AFTER 72 HRS. NOT RESPONSIBLE FOR CONCEALED DAMAGE. DUE AND PAYABLE PLANO, COLLIN COUNTY, TEXAS

$50 DECLARED VALUE UNLESS SPECIFIED HERE $

DRIVER NAME & NO.	DRIVER NAME & NO.	TIME OF DEL.	RECEIVED BY	RECEIVED BY
		12:55	X Helen M. Calloway	X

MODERN GEOSCIENCES

CUSTODY SEAL CUSTODY SEAL CUSTO

Date / Time Sealed: 4/03/12 ; 1

Lab Number(s): 1204039

ERMI

Sample Preservation Documentation*

On Ice (Circle One): YES OR NO (check if on Dry Ice_____)

Parameters	Containers #	Containers Size	Required Preservation	Sample Container	Circle pH Note any discrepancy
Metals	4	500 ml	pH < 2	Glass or Plastic	pH < 2
* Dissolved Metals			Unpreserved prior to being filtered, Cool**	Glass or Plastic	
Hexavalent Chromium			CWA - pH 9.3-9.7, Cool; RCRA - Cool	Glass or Plastic	Checked At Analysis
Semivolatiles, Pesticides, PCBs, Herbicides			Cool	Glass only with Teflon lid	Chlorine ☐yes ☐no
VOA (BTEX, MTBE, 624, 8260, TPH-GRO)	12	40 ml	Cool, pH < 2 Zero Head Space	40 ml VOA vial	DO NOT OPEN
VOA (TPH-1005)	6	40 ml	Cool, Zero Head Space Please check if collected in pre-weighed vials ✓	40 ml VOA vial	DO NOT OPEN
Phos., NO_3/NO_2, NH_3N, COD, TKN, TOC			Cool, pH < 2	Glass or Plastic	pH < 2
TDS, BOD, CBOD, Cond, pH, TSS, F, SO_4, Cl, Alk, Sulfite	4	1000 ml	Cool	Glass or Plastic, Plastic only if F	
Phenols, TPH-DRO			Cool, pH < 2	Glass only Teflon lid____ Foil lid_____	pH < 2
Oil & Grease, TPH (by 1664a)	2	1L	Cool, pH < 2	Glass only Teflon lid ✓ Foil lid_____	DO NOT Check pH
Cyanide			Cool, pH >12	Glass or Plastic	pH > 12 Chlorine ☐yes ☐no Sulfide ☐yes ☐no ☐na
Sulfide			Cool, pH > 9	Glass or Plastic	pH > 9
Bacteria			Cool	Plastic Sterile Cup	
Soil, Sludge, Solid, Oil, Liquid	2 / 6	1L / 4oz	Cool Note: please check if collected in pre-weighed vials_____	Glass	

Metals Preserved By Login ☐yes ☐no Trip Blanks Received ☐yes ☐no

COMMENTS: Subout

*This form is used to document sample preservation. Circle parameter requested. Fill in number and size of containers received. Check pH (adjust if needed) and note if different from what is required and make a notation of any samples not received on ice. Note any incorrect sample containers or preservation on chain-of-custody.

**Cool means cooled to ≤6°C but not frozen.

Preservation Checked By _____ 4/3/12 Date 1709 Time

1000.0-3.2 2/17/09 KW kdy 7/10/08

Q:\Form Masters\1000.0-3.2 Sample Preservation Form

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

PACE Analytical Services, Inc. certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
1204039-01	WW K	Aqueous	04/03/12 10:21	04/03/12 13:55
1204039-02	WW F	Aqueous	04/03/12 11:26	04/03/12 13:55

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Shelly Connelly

Shelly Connelly
Client Services Manager

Arkansas: 88-0647
Oklahoma: 8727

Louisiana: 02007
Kansas: E-10388
Texas: T104704232-11-3

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW K
Sample Date/Time: 04/03/12 1021

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Methanol, EPA 8015B mod										
Methanol	**ND**	10.0	10	mg/l	1.00	V5	2D04071	04/04/12 1411	BM	
Glycols, EPA 8015B mod										
Ethylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2D09071	04/10/12 1032	TA	Q-10
Propylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2D09071	04/10/12 1032	TA	Q-10

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Laboratory ID #: 1204039-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW K
Sample Date/Time: 04/03/12 1021

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B										
Benzene	**ND**	0.000620	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Bromobenzene	**ND**	0.000750	0.003	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Bromochloromethane	**ND**	0.000520	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Bromodichloromethane	**ND**	0.000330	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Bromoform (Tribromomethane)	**ND**	0.000690	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Bromomethane (Methyl Bromide)	**ND**	0.000560	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
n-Butylbenzene	**ND**	0.000680	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
sec-Butylbenzene	**ND**	0.000890	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
tert-Butylbenzene	**ND**	0.000350	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Carbon Tetrachloride	**ND**	0.00147	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Chlorobenzene	**ND**	0.000530	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Chloroethane (Ethyl Chloride)	**ND**	0.000560	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Chloroform	**ND**	0.000510	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Chloromethane (Methyl Chloride)	**ND**	0.00167	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
2-Chlorotoluene	**ND**	0.000330	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
4-Chlorotoluene	**ND**	0.000550	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Dibromochloromethane (Chlorodibromo...)	**ND**	0.000470	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.000980	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.000400	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,2-Dichlorobenzene	**ND**	0.000350	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,3-Dichlorobenzene	**ND**	0.000390	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,4-Dichlorobenzene	**ND**	0.000380	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Dichlorodifluoromethane	**ND**	0.000580	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,1-Dichloroethane	**ND**	0.000570	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.000400	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.00550	0.0055	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
cis-1,2-Dichloroethene	**ND**	0.000450	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
trans-1,2-Dichloroethene	**ND**	0.000920	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW K
Sample Date/Time: 04/03/12 1021

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.000360	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,3-Dichloropropane	**ND**	0.000700	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
2,2-Dichloropropane	**ND**	0.00126	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,1-Dichloropropene	**ND**	0.00105	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Ethyl Benzene	**ND**	0.000670	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Hexachlorobutadiene	**ND**	0.000960	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Isopropylbenzene (Cumene)	**ND**	0.00108	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
p-Isopropyltoluene	**ND**	0.000390	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Methyl tert butyl ether (MTBE)	**ND**	0.000370	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Methylene Bromide (Dibromomethane)	**ND**	0.000500	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Methylene Chloride (Dichloromethane)	**ND**	0.00300	0.003	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Naphthalene	**ND**	0.00100	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
n-Propylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Styrene	**ND**	0.00114	0.003	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,1,1,2-Tetrachloroethane	**ND**	0.000860	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,1,2,2-Tetrachloroethane	**ND**	0.000400	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Tetrachloroethene (Perchloroethylene)	**ND**	0.00141	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Toluene	**ND**	0.000540	0.003	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,2,3-Trichlorobenzene	**ND**	0.000960	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,2,4-Trichlorobenzene	**ND**	0.000900	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.000980	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,1,2-Trichloroethane	**ND**	0.000550	0.003	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Trichloroethene (Trichloroethylene)	**ND**	0.000390	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Trichlorofluoromethane	**ND**	0.000440	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,2,3-Trichloropropane	**ND**	0.000600	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,2,4-Trimethylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
1,3,5-Trimethylbenzene	**ND**	0.000330	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	
Vinyl Chloride	**ND**	0.000450	0.002	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	

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Report of Sample Analysis

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Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW K
Sample Date/Time: 04/03/12 1021

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
Xylenes (total)	**ND**	0.00154	0.004	mg/l	1.00	V3	2D06011	04/08/12 1149	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*0.0490 mg/l*	*0.0500 mg/l*	*98 %*	*19-168*
4-Bromofluorobenzene (EPA 8260B)	*0.0504 mg/l*	*0.0500 mg/l*	*101 %*	*18-171*
1,2-Dichloroethane-d4 (EPA 8260B)	*0.0508 mg/l*	*0.0500 mg/l*	*102 %*	*18-175*

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, 7196A										
Hexavalent Chromium	**ND**	0.005	0.005	mg/l	1.00	SB	2D04057	04/04/12 0826	BLF	
Conventional Chemistry Parameters, EPA 180.1 Rev2.0										
Turbidity	**7.4**	0.50	0.5	NTU	1.00	O1	2D03081	04/03/12 1620	BAF	
Conventional Chemistry Parameters, EPA 9050A										
Conductivity @ 25°C	**3590**	1.00	1	uS/cm	1.00	Y1	2D04068	04/04/12 1322	BLF	
Conventional Chemistry Parameters, EPA 9056A										
Chloride (Total)	**77.4**	0.050	0.1	mg/l	10.00	I2	2D06007	04/06/12 1914	MDG	R-01
Sulfate (Total) as SO4	**1350**	3.60	0.1	mg/l	100.00	I2	2D06007	04/09/12 1033	MDG	R-01
Conventional Chemistry Parameters, EPA 9070A										
Oil & Grease (HEM)	**ND**	1.07	2.6	mg/l	1.19	W3	2D05046	04/05/12 1700	XY	
Conventional Chemistry Parameters, SM 2320B										
Bicarbonate Alkalinity	**392**	20.0	20	mg CaCO3/l	1.00	IA3	2D11061	04/11/12 0932	BLF	
Conventional Chemistry Parameters, SM2540C										
Total Dissolved Solids	**2600**	5.07	25	mg/l	1.00	W3	2D05057	04/05/12 1353	BLF	
Conventional Chemistry Parameters, SM2540D										
Total Suspended Solids	**ND**	2.50	2.5	mg/l	1.00	Proweig	2D05038	04/05/12 0759	BLF	

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Project #: DFW12028
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Laboratory ID #: 1204039-01
Sample Type: Grab
Sample Description: WW K
Matrix: Aqueous
Sample Date/Time: 04/03/12 1021
Sample Collected By: J.J. Hollingshead
Customer

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM4500H+B										
pH	**8.1**	0.1	0.1	pH Units	1.00	IA3	2D03082	04/03/12 1635	BAF	M-06a, S-06
Conventional Chemistry Parameters, SM5540C										
Methylene Blue Active Substances	**ND**	0.073	0.2	mg/l	1.00	SB	2D05041	04/05/12 0830	BAF	
Metals (Total), EPA 3010A										
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB1	2D11089	04/11/12 1821	SPS	
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB1	2D11089	04/11/12 1821	SPS	
Metals (Total), EPA 6010B										
Arsenic	**ND**	0.010	0.01	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Barium	**0.013**	0.0002	0.0008	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Cadmium	**ND**	0.0003	0.001	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Calcium	**11.8**	0.11	0.5	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Chromium	**ND**	0.001	0.002	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Iron	**1.29**	0.01	0.1	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Lead	**0.002**	0.001	0.0025	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Magnesium	**10.6**	0.005	0.01	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Manganese	**0.019**	0.002	0.002	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Potassium	**6.06**	0.217	0.5	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	Q-20
Selenium	**ND**	0.003	0.005	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Silver	**ND**	0.001	0.002	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	
Sodium	**847**	0.17	0.5	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	Q-21
Strontium	**1.70**	0.0003	0.001	mg/l	1.00	M4	2D11089	04/12/12 1457	SPS	Q-21
Metals (Total), EPA 7470A										
Mercury	**ND**	0.00004	0.0002	mg/l	1.00	M6	2D05048	04/05/12 1545	SPS	

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Project #: DFW12028
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Laboratory ID #: 1204039-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW K
Sample Date/Time: 04/03/12 1021

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Total Petroleum Hydrocarbons Rev. 3, TX-1005										
TPH 1005 Extraction	**Completed**	N/A	N/A	N/A	0.94		2D05061	04/05/12 1520	PMS	
TPH (C6-C12)	**ND**	1.78	1.9	mg/l	0.94	P7	2D05061	04/05/12 2159	TA	
TPH (>C12-C28)	**ND**	0.217	0.52	mg/l	0.94	P7	2D05061	04/05/12 2159	TA	
TPH (>C28-C35)	**ND**	0.065	0.6	mg/l	0.94	P7	2D05061	04/05/12 2159	TA	
TPH (C6-C35)	**ND**	1.78	2	mg/l	0.94	P7	2D05061	04/05/12 2159	TA	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
1-Chlorooctane (TX-1005)	*21.3 mg/l*	*23.7 mg/l*	*90 %*	*70-130*
o-Terphenyl (TX-1005)	*21.5 mg/l*	*23.7 mg/l*	*91 %*	*70-130*

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW F
Sample Date/Time: 04/03/12 1126

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Methanol, EPA 8015B mod										
Methanol	**ND**	10.0	10	mg/l	1.00	V5	2D04071	04/04/12 1439	BM	
Glycols, EPA 8015B mod										
Ethylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2D09071	04/10/12 1048	TA	Q-10
Propylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2D09071	04/10/12 1048	TA	Q-10

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW F
Sample Date/Time: 04/03/12 1126

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B										
Benzene	**ND**	0.000620	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Bromobenzene	**ND**	0.000750	0.003	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Bromochloromethane	**ND**	0.000520	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Bromodichloromethane	**ND**	0.000330	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Bromoform (Tribromomethane)	**ND**	0.000690	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Bromomethane (Methyl Bromide)	**ND**	0.000560	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
n-Butylbenzene	**ND**	0.000680	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
sec-Butylbenzene	**ND**	0.000890	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
tert-Butylbenzene	**ND**	0.000350	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Carbon Tetrachloride	**ND**	0.00147	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Chlorobenzene	**ND**	0.000530	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Chloroethane (Ethyl Chloride)	**ND**	0.000560	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Chloroform	**ND**	0.000510	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Chloromethane (Methyl Chloride)	**ND**	0.00167	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
2-Chlorotoluene	**ND**	0.000330	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
4-Chlorotoluene	**ND**	0.000550	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Dibromochloromethane (Chlorodibromo...)	**ND**	0.000470	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.000980	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.000400	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,2-Dichlorobenzene	**ND**	0.000350	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,3-Dichlorobenzene	**ND**	0.000390	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,4-Dichlorobenzene	**ND**	0.000380	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Dichlorodifluoromethane	**ND**	0.000580	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,1-Dichloroethane	**ND**	0.000570	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.000400	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.00550	0.0055	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
cis-1,2-Dichloroethene	**ND**	0.000450	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
trans-1,2-Dichloroethene	**ND**	0.000920	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW F
Sample Date/Time: 04/03/12 1126

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.000360	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,3-Dichloropropane	**ND**	0.000700	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
2,2-Dichloropropane	**ND**	0.00126	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,1-Dichloropropene	**ND**	0.00105	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Ethyl Benzene	**ND**	0.000670	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Hexachlorobutadiene	**ND**	0.000960	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Isopropylbenzene (Cumene)	**ND**	0.00108	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
p-Isopropyltoluene	**ND**	0.000390	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Methyl tert butyl ether (MTBE)	**ND**	0.000370	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Methylene Bromide (Dibromomethane)	**ND**	0.000500	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Methylene Chloride (Dichloromethane)	**ND**	0.00300	0.003	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Naphthalene	**ND**	0.00100	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
n-Propylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Styrene	**ND**	0.00114	0.003	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,1,1,2-Tetrachloroethane	**ND**	0.000860	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,1,2,2-Tetrachloroethane	**ND**	0.000400	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Tetrachloroethene (Perchloroethylene)	**ND**	0.00141	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Toluene	**ND**	0.000540	0.003	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,2,3-Trichlorobenzene	**ND**	0.000960	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,2,4-Trichlorobenzene	**ND**	0.000900	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.000980	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,1,2-Trichloroethane	**ND**	0.000550	0.003	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Trichloroethene (Trichloroethylene)	**ND**	0.000390	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Trichlorofluoromethane	**ND**	0.000440	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,2,3-Trichloropropane	**ND**	0.000600	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,2,4-Trimethylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
1,3,5-Trimethylbenzene	**ND**	0.000330	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	
Vinyl Chloride	**ND**	0.000450	0.002	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-02
Sample Type: Grab
Sample Description: WW F
Matrix: Aqueous
Sample Date/Time: 04/03/12 1126
Sample Collected By: J.J. Hollingshead
Customer

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
Xylenes (total)	**ND**	0.00154	0.004	mg/l	1.00	V3	2D06011	04/08/12 1222	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*0.0495 mg/l*	*0.0500 mg/l*	*99 %*	*19-168*
4-Bromofluorobenzene (EPA 8260B)	*0.0527 mg/l*	*0.0500 mg/l*	*105 %*	*18-171*
1,2-Dichloroethane-d4 (EPA 8260B)	*0.0507 mg/l*	*0.0500 mg/l*	*101 %*	*18-175*

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, 7196A										
Hexavalent Chromium	**ND**	0.005	0.005	mg/l	1.00	SB	2D04057	04/04/12 0826	BLF	
Conventional Chemistry Parameters, EPA 180.1 Rev2.0										
Turbidity	**90**	2.0	0.5	NTU	4.00	O1	2D03081	04/03/12 1620	BAF	R-01
Conventional Chemistry Parameters, EPA 9050A										
Conductivity @ 25°C	**525**	1.00	1	uS/cm	1.00	Y1	2D04068	04/04/12 1322	BLF	
Conventional Chemistry Parameters, EPA 9056A										
Chloride (Total)	**67.6**	0.050	0.1	mg/l	10.00	I2	2D06008	04/06/12 2052	MDG	R-01
Sulfate (Total) as SO4	**39.6**	0.360	0.1	mg/l	10.00	I2	2D06008	04/06/12 2052	MDG	R-01
Conventional Chemistry Parameters, EPA 9070A										
Oil & Grease (HEM)	**ND**	1.07	2.6	mg/l	1.19	W3	2D05046	04/05/12 1700	XY	
Conventional Chemistry Parameters, SM 2320B										
Bicarbonate Alkalinity	**110**	20.0	20	mg CaCO3/l	1.00	IA3	2D11061	04/11/12 0932	BLF	
Conventional Chemistry Parameters, SM2540C										
Total Dissolved Solids	**310**	5.07	25	mg/l	1.00	W3	2D05057	04/05/12 1353	BLF	
Conventional Chemistry Parameters, SM2540D										
Total Suspended Solids	**46.0**	5.00	2.5	mg/l	2.00	Proweig	2D05038	04/05/12 0759	BLF	R-01

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW F
Sample Date/Time: 04/03/12 1126

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM4500H+B										
pH	**6.1**	0.1	0.1	pH Units	1.00	IA3	2D03082	04/03/12 1635	BAF	M-06, S-06
Conventional Chemistry Parameters, SM5540C										
Methylene Blue Active Substances	**ND**	0.073	0.2	mg/l	1.00	SB	2D05041	04/05/12 0830	BAF	
Metals (Total), EPA 3010A										
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB1	2D11089	04/11/12 1821	SPS	
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB1	2D11089	04/11/12 1821	SPS	
Metals (Total), EPA 6010B										
Arsenic	**ND**	0.010	0.01	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Barium	**0.016**	0.0002	0.0008	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Cadmium	**ND**	0.0003	0.001	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Calcium	**29.4**	0.11	0.5	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Chromium	**0.003**	0.001	0.002	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Iron	**17.8**	0.01	0.1	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Lead	**0.007**	0.001	0.0025	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Magnesium	**11.7**	0.005	0.01	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Manganese	**1.56**	0.002	0.002	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Potassium	**2.30**	0.217	0.5	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Selenium	**ND**	0.003	0.005	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Silver	**ND**	0.001	0.002	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Sodium	**56.2**	0.17	0.5	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Strontium	**0.330**	0.0003	0.001	mg/l	1.00	M4	2D11089	04/12/12 1510	SPS	
Metals (Total), EPA 7470A										
Mercury	**0.00013**	0.00004	0.0002	mg/l	1.00	M6	2D05048	04/05/12 1548	SPS	J

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Laboratory ID #: 1204039-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW F
Sample Date/Time: 04/03/12 1126

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Total Petroleum Hydrocarbons Rev. 3, TX-1005										
TPH 1005 Extraction	**Completed**	N/A	N/A	N/A	0.86		2D05061	04/05/12 1520	PMS	
TPH (C6-C12)	**ND**	1.64	1.9	mg/l	0.86	P7	2D05061	04/05/12 2223	TA	
TPH (>C12-C28)	**ND**	0.199	0.52	mg/l	0.86	P7	2D05061	04/05/12 2223	TA	
TPH (>C28-C35)	**ND**	0.060	0.6	mg/l	0.86	P7	2D05061	04/05/12 2223	TA	
TPH (C6-C35)	**ND**	1.64	2	mg/l	0.86	P7	2D05061	04/05/12 2223	TA	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
1-Chlorooctane (TX-1005)	*20.2 mg/l*	*21.8 mg/l*	*92 %*	*70-130*
o-Terphenyl (TX-1005)	*20.7 mg/l*	*21.8 mg/l*	*95 %*	*70-130*

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Project #: DFW12028
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Methanol - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D04071-BLK1)										
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 12:05										
Methanol	**ND**	N/A	mg/l							
Laboratory Control Sample (2D04071-BS1)										
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 12:33										
Methanol	**84.1**	N/A	mg/l	100		84	58-133			
Laboratory Control Sample Duplicate (2D04071-BSD1)										
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 12:47										
Methanol	**105**	N/A	mg/l	100		105	58-133	22	28	
Matrix Spike (2D04071-MS1)					**Source: 1203688-01**					
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 13:01										
Methanol	**100**	N/A	mg/l	100	ND	100	37-140			
Matrix Spike Duplicate (2D04071-MSD1)					**Source: 1203688-01**					
Prepared: 04/04/12 11:12 Analyzed: 04/04/12 13:15										
Methanol	**105**	N/A	mg/l	100	ND	105	37-140	5	40	

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Glycols - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D09071-BLK1)										
Prepared: 04/09/12 17:47 Analyzed: 04/10/12 08:53										
Ethylene Glycol	**ND**	25.0	mg/l							Q-10
Propylene Glycol	**ND**	25.0	mg/l							Q-10
Laboratory Control Sample (2D09071-BS1)										
Prepared: 04/09/12 17:47 Analyzed: 04/10/12 09:10										
Ethylene Glycol	**73.9**	25.0	mg/l	100		74	10-140			Q-10
Propylene Glycol	**79.0**	25.0	mg/l	100		79	10-140			Q-10
Laboratory Control Sample Duplicate (2D09071-BSD1)										
Prepared: 04/09/12 17:47 Analyzed: 04/10/12 09:26										
Ethylene Glycol	**89.9**	25.0	mg/l	100		90	10-140	20	40	Q-10
Propylene Glycol	**89.4**	25.0	mg/l	100		89	10-140	12	40	Q-10
Matrix Spike (2D09071-MS1)					**Source: 1204039-01**					
Prepared: 04/09/12 17:47 Analyzed: 04/10/12 09:43										
Ethylene Glycol	**112**	25.0	mg/l	100	ND	112	10-140			Q-10
Propylene Glycol	**95.0**	25.0	mg/l	100	ND	95	10-140			Q-10
Matrix Spike Duplicate (2D09071-MSD1)					**Source: 1204039-01**					
Prepared: 04/09/12 17:47 Analyzed: 04/10/12 09:59										
Ethylene Glycol	**129**	25.0	mg/l	100	ND	129	10-140	14	40	Q-10
Propylene Glycol	**118**	25.0	mg/l	100	ND	118	10-140	22	30	Q-10

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Project #: DFW12028
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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D06011-BLK1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 03:17										
Benzene	**ND**	0.0006	mg/l							
Bromobenzene	**ND**	0.0008	mg/l							
Bromochloromethane	**ND**	0.0005	mg/l							
Bromodichloromethane	**ND**	0.0003	mg/l							
Bromoform (Tribromomethane)	**ND**	0.0007	mg/l							
Bromomethane (Methyl Bromide)	**ND**	0.0006	mg/l							
n-Butylbenzene	**ND**	0.0007	mg/l							
sec-Butylbenzene	**ND**	0.0009	mg/l							
tert-Butylbenzene	**ND**	0.0004	mg/l							
Carbon Tetrachloride	**ND**	0.001	mg/l							
Chlorobenzene	**ND**	0.0005	mg/l							
Chloroethane (Ethyl Chloride)	**ND**	0.0006	mg/l							
Chloroform	**ND**	0.0005	mg/l							
Chloromethane (Methyl Chloride)	**ND**	0.002	mg/l							
2-Chlorotoluene	**ND**	0.0003	mg/l							
4-Chlorotoluene	**ND**	0.0006	mg/l							
Dibromochloromethane (Chlorodibromo...)	**ND**	0.0005	mg/l							
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.001	mg/l							
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.0004	mg/l							
1,2-Dichlorobenzene	**ND**	0.0004	mg/l							
1,3-Dichlorobenzene	**ND**	0.0004	mg/l							
1,4-Dichlorobenzene	**ND**	0.0004	mg/l							
Dichlorodifluoromethane	**ND**	0.0006	mg/l							
1,1-Dichloroethane	**ND**	0.0006	mg/l							
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.0004	mg/l							
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.0004	mg/l							
cis-1,2-Dichloroethene	**ND**	0.0004	mg/l							
trans-1,2-Dichloroethene	**ND**	0.0009	mg/l							
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.0004	mg/l							
1,3-Dichloropropane	**ND**	0.0007	mg/l							
2,2-Dichloropropane	**ND**	0.001	mg/l							
1,1-Dichloropropene	**ND**	0.001	mg/l							

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D06011-BLK1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 03:17										
Ethyl Benzene	**ND**	0.0007	mg/l							
Hexachlorobutadiene	**ND**	0.001	mg/l							
Isopropylbenzene (Cumene)	**ND**	0.001	mg/l							
p-Isopropyltoluene	**ND**	0.0004	mg/l							
Methyl Ethyl Ketone (2-Butanone)	**ND**	0.004	mg/l							
Methyl tert butyl ether (MTBE)	**ND**	0.0004	mg/l							
Methylene Bromide (Dibromomethane)	**ND**	0.0005	mg/l							
Methylene Chloride (Dichloromethane)	**ND**	0.003	mg/l							
Naphthalene	**ND**	0.001	mg/l							
n-Propylbenzene	**ND**	0.0008	mg/l							
Styrene	**ND**	0.001	mg/l							
1,1,1,2-Tetrachloroethane	**ND**	0.0009	mg/l							
1,1,2,2-Tetrachloroethane	**ND**	0.0004	mg/l							
Tetrachloroethene (Perchloroethylene)	**ND**	0.001	mg/l							
Toluene	**ND**	0.002	mg/l							
1,2,3-Trichlorobenzene	**ND**	0.001	mg/l							
1,2,4-Trichlorobenzene	**ND**	0.0009	mg/l							
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.001	mg/l							
1,1,2-Trichloroethane	**ND**	0.0006	mg/l							
Trichloroethene (Trichloroethylene)	**ND**	0.0004	mg/l							
Trichlorofluoromethane	**ND**	0.0004	mg/l							
1,2,3-Trichloropropane	**ND**	0.0006	mg/l							
1,2,4-Trimethylbenzene	**ND**	0.0008	mg/l							
1,3,5-Trimethylbenzene	**ND**	0.0003	mg/l							
Vinyl Chloride	**ND**	0.0004	mg/l							
Xylenes (total)	**ND**	0.002	mg/l							
Surrogate: Toluene-d8	**0.0492**		mg/l	0.0500		98	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0511**		mg/l	0.0500		102	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0506**		mg/l	0.0500		101	18-175			

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
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Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2D06011-BS1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 03:50										
Benzene	**0.020**	0.0006	mg/l	0.0200		101	80-125			
Bromobenzene	**0.021**	0.0008	mg/l	0.0200		103	77-127			
Bromochloromethane	**0.020**	0.0005	mg/l	0.0200		98	75-134			
Bromodichloromethane	**0.021**	0.0003	mg/l	0.0200		104	77-126			
Bromoform (Tribromomethane)	**0.021**	0.0007	mg/l	0.0200		105	73-116			
Bromomethane (Methyl Bromide)	**0.014**	0.0006	mg/l	0.0200		72	56-156			
n-Butylbenzene	**0.020**	0.0007	mg/l	0.0200		98	72-137			
sec-Butylbenzene	**0.021**	0.0009	mg/l	0.0200		106	79-130			
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200		107	81-125			
Carbon Tetrachloride	**0.023**	0.001	mg/l	0.0200		113	76-126			
Chlorobenzene	**0.021**	0.0005	mg/l	0.0200		104	82-122			
Chloroethane (Ethyl Chloride)	**0.021**	0.0006	mg/l	0.0200		106	71-140			
Chloroform	**0.021**	0.0005	mg/l	0.0200		103	71-134			
Chloromethane (Methyl Chloride)	**0.021**	0.002	mg/l	0.0200		104	68-139			
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200		105	78-128			
4-Chlorotoluene	**0.021**	0.0006	mg/l	0.0200		105	75-131			
Dibromochloromethane (Chlorodibromo...)	**0.021**	0.0005	mg/l	0.0200		105	77-120			
1,2-Dibromo-3-chloropropane (DBCP)	**0.021**	0.001	mg/l	0.0200		104	66-126			
1,2-Dibromoethane (Ethylene Dibromide)	**0.021**	0.0004	mg/l	0.0200		105	80-124			
1,2-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		102	77-126			
1,3-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200		104	77-128			
1,4-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200		104	78-127			
Dichlorodifluoromethane	**0.021**	0.0006	mg/l	0.0200		107	54-156			
1,1-Dichloroethane	**0.021**	0.0006	mg/l	0.0200		107	78-133			
1,2-Dichloroethane (Ethylene Dichloride)	**0.020**	0.0004	mg/l	0.0200		102	72-139			
1,1-Dichloroethene (Vinylidene Chloride)	**0.020**	0.0004	mg/l	0.0200		99	75-136			
cis-1,2-Dichloroethene	**0.021**	0.0004	mg/l	0.0200		104	75-132			
trans-1,2-Dichloroethene	**0.021**	0.0009	mg/l	0.0200		106	77-134			
1,2-Dichloropropane (Propylene Dichloride)	**0.020**	0.0004	mg/l	0.0200		100	80-125			
1,3-Dichloropropane	**0.021**	0.0007	mg/l	0.0200		107	78-126			
2,2-Dichloropropane	**0.019**	0.001	mg/l	0.0200		96	68-142			
1,1-Dichloropropene	**0.021**	0.001	mg/l	0.0200		105	76-125			

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2D06011-BS1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 03:50										
Ethyl Benzene	**0.021**	0.0007	mg/l	0.0200		105	79-127			
Hexachlorobutadiene	**0.021**	0.001	mg/l	0.0200		107	77-125			
Isopropylbenzene (Cumene)	**0.021**	0.001	mg/l	0.0200		106	81-128			
p-Isopropyltoluene	**0.021**	0.0004	mg/l	0.0200		106	78-131			
Methyl Ethyl Ketone (2-Butanone)	**0.023**	0.004	mg/l	0.0200		115	14-167			
Methyl tert butyl ether (MTBE)	**0.020**	0.0004	mg/l	0.0200		102	75-126			
Methylene Bromide (Dibromomethane)	**0.020**	0.0005	mg/l	0.0200		98	79-125			
Methylene Chloride (Dichloromethane)	**0.021**	0.003	mg/l	0.0200		103	62-151			
Naphthalene	**0.020**	0.001	mg/l	0.0200		101	71-125			
n-Propylbenzene	**0.021**	0.0008	mg/l	0.0200		105	77-131			
Styrene	**0.020**	0.001	mg/l	0.0200		100	77-125			
1,1,1,2-Tetrachloroethane	**0.020**	0.0009	mg/l	0.0200		102	80-122			
1,1,2,2-Tetrachloroethane	**0.021**	0.0004	mg/l	0.0200		105	71-131			
Tetrachloroethene (Perchloroethylene)	**0.021**	0.001	mg/l	0.0200		105	73-126			
Toluene	**0.020**	0.0005	mg/l	0.0200		98	78-126			
1,2,3-Trichlorobenzene	**0.020**	0.001	mg/l	0.0200		100	74-126			
1,2,4-Trichlorobenzene	**0.019**	0.0009	mg/l	0.0200		97	72-131			
1,1,1-Trichloroethane (Methyl Chloroform)	**0.021**	0.001	mg/l	0.0200		106	78-129			
1,1,2-Trichloroethane	**0.021**	0.0006	mg/l	0.0200		104	75-124			
Trichloroethene (Trichloroethylene)	**0.020**	0.0004	mg/l	0.0200		97	78-126			
Trichlorofluoromethane	**0.022**	0.0004	mg/l	0.0200		110	70-142			
1,2,3-Trichloropropane	**0.023**	0.0006	mg/l	0.0200		113	73-127			
1,2,4-Trimethylbenzene	**0.021**	0.0008	mg/l	0.0200		104	78-129			
1,3,5-Trimethylbenzene	**0.021**	0.0003	mg/l	0.0200		104	79-128			
Vinyl Chloride	**0.021**	0.0004	mg/l	0.0200		107	65-141			
Xylenes (total)	**0.063**	0.002	mg/l	0.0600		105	81-126			
Surrogate: Toluene-d8	**0.0502**		mg/l	0.0500		100	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0510**		mg/l	0.0500		102	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0511**		mg/l	0.0500		102	18-175			

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2D06011-BSD1) Prepared: 04/06/12 09:14 Analyzed: 04/07/12 04:23										
Benzene	**0.021**	0.0006	mg/l	0.0200		105	80-125	4	11	
Bromobenzene	**0.020**	0.0008	mg/l	0.0200		100	77-127	3	12	
Bromochloromethane	**0.020**	0.0005	mg/l	0.0200		101	75-134	3	15	
Bromodichloromethane	**0.020**	0.0003	mg/l	0.0200		102	77-126	2	12	
Bromoform (Tribromomethane)	**0.020**	0.0007	mg/l	0.0200		102	73-116	3	13	
Bromomethane (Methyl Bromide)	**0.017**	0.0006	mg/l	0.0200		85	56-156	16	24	
n-Butylbenzene	**0.020**	0.0007	mg/l	0.0200		99	72-137	0.4	15	
sec-Butylbenzene	**0.021**	0.0009	mg/l	0.0200		107	79-130	0.8	12	
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200		107	81-125	0.2	11	
Carbon Tetrachloride	**0.023**	0.001	mg/l	0.0200		117	76-126	3	10	
Chlorobenzene	**0.020**	0.0005	mg/l	0.0200		103	82-122	1	10	
Chloroethane (Ethyl Chloride)	**0.022**	0.0006	mg/l	0.0200		110	71-140	4	13	
Chloroform	**0.021**	0.0005	mg/l	0.0200		106	71-134	3	13	
Chloromethane (Methyl Chloride)	**0.022**	0.002	mg/l	0.0200		109	68-139	5	18	
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200		105	78-128	0.1	11	
4-Chlorotoluene	**0.021**	0.0006	mg/l	0.0200		103	75-131	2	11	
Dibromochloromethane (Chlorodibromo...)	**0.021**	0.0005	mg/l	0.0200		104	77-120	1	11	
1,2-Dibromo-3-chloropropane (DBCP)	**0.019**	0.001	mg/l	0.0200		95	66-126	9	19	
1,2-Dibromoethane (Ethylene Dibromide)	**0.021**	0.0004	mg/l	0.0200		104	80-124	2	13	
1,2-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		101	77-126	1	13	
1,3-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		101	77-128	3	12	
1,4-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		102	78-127	2	12	
Dichlorodifluoromethane	**0.022**	0.0006	mg/l	0.0200		108	54-156	0.5	15	
1,1-Dichloroethane	**0.022**	0.0006	mg/l	0.0200		109	78-133	2	13	
1,2-Dichloroethane (Ethylene Dichloride)	**0.020**	0.0004	mg/l	0.0200		102	72-139	0.3	17	
1,1-Dichloroethene (Vinylidene Chloride)	**0.021**	0.0004	mg/l	0.0200		106	75-136	6	12	
cis-1,2-Dichloroethene	**0.020**	0.0004	mg/l	0.0200		103	75-132	1	11	
trans-1,2-Dichloroethene	**0.022**	0.0009	mg/l	0.0200		109	77-134	2	13	
1,2-Dichloropropane (Propylene Dichloride)	**0.020**	0.0004	mg/l	0.0200		102	80-125	2	10	
1,3-Dichloropropane	**0.021**	0.0007	mg/l	0.0200		103	78-126	4	12	
2,2-Dichloropropane	**0.020**	0.001	mg/l	0.0200		100	68-142	4	13	
1,1-Dichloropropene	**0.021**	0.001	mg/l	0.0200		106	76-125	0.9	12	

Pace Analytical Services, Inc.
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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2D06011-BSD1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 04:23										
Ethyl Benzene	**0.021**	0.0007	mg/l	0.0200		104	79-127	0.7	11	
Hexachlorobutadiene	**0.021**	0.001	mg/l	0.0200		104	77-125	3	14	
Isopropylbenzene (Cumene)	**0.021**	0.001	mg/l	0.0200		105	81-128	0.3	10	
p-Isopropyltoluene	**0.021**	0.0004	mg/l	0.0200		106	78-131	0.4	12	
Methyl Ethyl Ketone (2-Butanone)	**0.022**	0.004	mg/l	0.0200		111	14-167	3	37	
Methyl tert butyl ether (MTBE)	**0.020**	0.0004	mg/l	0.0200		102	75-126	0	14	
Methylene Bromide (Dibromomethane)	**0.019**	0.0005	mg/l	0.0200		95	79-125	3	12	
Methylene Chloride (Dichloromethane)	**0.020**	0.003	mg/l	0.0200		101	62-151	2	16	
Naphthalene	**0.020**	0.001	mg/l	0.0200		101	71-125	0.4	19	
n-Propylbenzene	**0.021**	0.0008	mg/l	0.0200		105	77-131	0.2	11	
Styrene	**0.020**	0.001	mg/l	0.0200		100	77-125	0.3	14	
1,1,1,2-Tetrachloroethane	**0.021**	0.0009	mg/l	0.0200		104	80-122	2	12	
1,1,2,2-Tetrachloroethane	**0.020**	0.0004	mg/l	0.0200		103	71-131	2	15	
Tetrachloroethene (Perchloroethylene)	**0.021**	0.001	mg/l	0.0200		105	73-126	0.5	11	
Toluene	**0.020**	0.0005	mg/l	0.0200		97	78-126	0.7	10	
1,2,3-Trichlorobenzene	**0.020**	0.001	mg/l	0.0200		102	74-126	2	16	
1,2,4-Trichlorobenzene	**0.019**	0.0009	mg/l	0.0200		97	72-131	0.5	14	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.022**	0.001	mg/l	0.0200		110	78-129	3	11	
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200		102	75-124	2	12	
Trichloroethene (Trichloroethylene)	**0.020**	0.0004	mg/l	0.0200		98	78-126	1	11	
Trichlorofluoromethane	**0.023**	0.0004	mg/l	0.0200		113	70-142	2	12	
1,2,3-Trichloropropane	**0.020**	0.0006	mg/l	0.0200		102	73-127	10	15	
1,2,4-Trimethylbenzene	**0.021**	0.0008	mg/l	0.0200		104	78-129	0.6	12	
1,3,5-Trimethylbenzene	**0.021**	0.0003	mg/l	0.0200		104	79-128	0.7	11	
Vinyl Chloride	**0.023**	0.0004	mg/l	0.0200		113	65-141	5	22	
Xylenes (total)	**0.063**	0.002	mg/l	0.0600		106	81-126	0.3	11	
Surrogate: Toluene-d8	**0.0500**		mg/l	0.0500		100	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0501**		mg/l	0.0500		100	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0510**		mg/l	0.0500		102	18-175			

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2D06011-MS1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 04:57					**Source: 1204084-01**					
Benzene	**0.022**	0.0006	mg/l	0.0200	ND	109	74-127			
Bromobenzene	**0.022**	0.0008	mg/l	0.0200	ND	108	65-134			
Bromochloromethane	**0.021**	0.0005	mg/l	0.0200	ND	103	78-125			
Bromodichloromethane	**0.022**	0.0003	mg/l	0.0200	ND	109	63-133			
Bromoform (Tribromomethane)	**0.021**	0.0007	mg/l	0.0200	ND	104	63-123			
Bromomethane (Methyl Bromide)	**0.018**	0.0006	mg/l	0.0200	ND	88	38-159			
n-Butylbenzene	**0.021**	0.0007	mg/l	0.0200	ND	106	65-138			
sec-Butylbenzene	**0.023**	0.0009	mg/l	0.0200	ND	115	69-137			
tert-Butylbenzene	**0.023**	0.0004	mg/l	0.0200	ND	113	62-143			
Carbon Tetrachloride	**0.025**	0.001	mg/l	0.0200	ND	124	73-126			
Chlorobenzene	**0.022**	0.0005	mg/l	0.0200	ND	111	73-128			
Chloroethane (Ethyl Chloride)	**0.023**	0.0006	mg/l	0.0200	ND	116	69-141			
Chloroform	**0.022**	0.0005	mg/l	0.0200	ND	112	58-137			
Chloromethane (Methyl Chloride)	**0.022**	0.002	mg/l	0.0200	ND	112	64-139			
2-Chlorotoluene	**0.023**	0.0003	mg/l	0.0200	ND	113	68-136			
4-Chlorotoluene	**0.023**	0.0006	mg/l	0.0200	ND	114	68-135			
Dibromochloromethane (Chlorodibromo...)	**0.022**	0.0005	mg/l	0.0200	ND	110	66-128			
1,2-Dibromo-3-chloropropane (DBCP)	**0.020**	0.001	mg/l	0.0200	ND	101	59-134			
1,2-Dibromoethane (Ethylene Dibromide)	**0.022**	0.0004	mg/l	0.0200	ND	108	74-127			
1,2-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	109	68-133			
1,3-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	110	70-133			
1,4-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	110	71-132			
Dichlorodifluoromethane	**0.023**	0.0006	mg/l	0.0200	ND	114	38-170			
1,1-Dichloroethane	**0.023**	0.0006	mg/l	0.0200	ND	114	76-129			
1,2-Dichloroethane (Ethylene Dichloride)	**0.021**	0.0004	mg/l	0.0200	ND	107	73-130			
1,1-Dichloroethene (Vinylidene Chloride)	**0.022**	0.0004	mg/l	0.0200	ND	110	49-150			
cis-1,2-Dichloroethene	**0.022**	0.0004	mg/l	0.0200	ND	110	38-157			
trans-1,2-Dichloroethene	**0.022**	0.0009	mg/l	0.0200	ND	112	73-132			
1,2-Dichloropropane (Propylene Dichloride)	**0.022**	0.0004	mg/l	0.0200	ND	108	75-127			
1,3-Dichloropropane	**0.022**	0.0007	mg/l	0.0200	ND	108	71-129			
2,2-Dichloropropane	**0.020**	0.001	mg/l	0.0200	ND	102	73-130			
1,1-Dichloropropene	**0.021**	0.001	mg/l	0.0200	ND	105	73-126			

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Report of Sample Analysis

Modern Geosciences LLC
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Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2D06011-MS1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 04:57					**Source: 1204084-01**					
Ethyl Benzene	**0.022**	0.0007	mg/l	0.0200	ND	111	69-134			
Hexachlorobutadiene	**0.023**	0.001	mg/l	0.0200	ND	113	65-131			
Isopropylbenzene (Cumene)	**0.022**	0.001	mg/l	0.0200	ND	111	70-137			
p-Isopropyltoluene	**0.023**	0.0004	mg/l	0.0200	ND	114	68-138			
Methyl Ethyl Ketone (2-Butanone)	**0.021**	0.004	mg/l	0.0200	ND	104	10-194			
Methyl tert butyl ether (MTBE)	**0.021**	0.0004	mg/l	0.0200	ND	105	70-125			
Methylene Bromide (Dibromomethane)	**0.020**	0.0005	mg/l	0.0200	ND	100	76-125			
Methylene Chloride (Dichloromethane)	**0.026**	0.003	mg/l	0.0200	ND	130	23-171			
Naphthalene	**0.021**	0.001	mg/l	0.0200	ND	105	45-147			
n-Propylbenzene	**0.023**	0.0008	mg/l	0.0200	ND	115	69-136			
Styrene	**0.021**	0.001	mg/l	0.0200	ND	105	66-131			
1,1,1,2-Tetrachloroethane	**0.022**	0.0009	mg/l	0.0200	ND	108	73-126			
1,1,2,2-Tetrachloroethane	**0.021**	0.0004	mg/l	0.0200	ND	106	59-140			
Tetrachloroethene (Perchloroethylene)	**0.023**	0.001	mg/l	0.0200	ND	117	38-182			
Toluene	**0.021**	0.0005	mg/l	0.0200	ND	103	62-135			
1,2,3-Trichlorobenzene	**0.021**	0.001	mg/l	0.0200	ND	103	63-132			
1,2,4-Trichlorobenzene	**0.021**	0.0009	mg/l	0.0200	ND	107	65-134			
1,1,1-Trichloroethane (Methyl Chloroform)	**0.022**	0.001	mg/l	0.0200	ND	112	75-127			
1,1,2-Trichloroethane	**0.022**	0.0006	mg/l	0.0200	ND	108	66-131			
Trichloroethene (Trichloroethylene)	**0.021**	0.0004	mg/l	0.0200	ND	104	55-144			
Trichlorofluoromethane	**0.024**	0.0004	mg/l	0.0200	ND	118	70-138			
1,2,3-Trichloropropane	**0.021**	0.0006	mg/l	0.0200	ND	105	66-135			
1,2,4-Trimethylbenzene	**0.022**	0.0008	mg/l	0.0200	ND	112	66-138			
1,3,5-Trimethylbenzene	**0.022**	0.0003	mg/l	0.0200	ND	112	70-136			
Vinyl Chloride	**0.024**	0.0004	mg/l	0.0200	ND	122	50-153			
Xylenes (total)	**0.067**	0.002	mg/l	0.0600	ND	112	73-129			
Surrogate: Toluene-d8	**0.0498**		mg/l	0.0500		100	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0509**		mg/l	0.0500		102	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0500**		mg/l	0.0500		100	18-175			

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Report of Sample Analysis

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1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D06011-MSD1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 05:30					**Source: 1204084-01**					
Benzene	**0.023**	0.0006	mg/l	0.0200	ND	113	74-127	4	18	
Bromobenzene	**0.022**	0.0008	mg/l	0.0200	ND	111	65-134	3	23	
Bromochloromethane	**0.021**	0.0005	mg/l	0.0200	ND	107	78-125	4	16	
Bromodichloromethane	**0.022**	0.0003	mg/l	0.0200	ND	111	63-133	2	18	
Bromoform (Tribromomethane)	**0.022**	0.0007	mg/l	0.0200	ND	112	63-123	8	18	
Bromomethane (Methyl Bromide)	**0.020**	0.0006	mg/l	0.0200	ND	98	38-159	11	22	
n-Butylbenzene	**0.022**	0.0007	mg/l	0.0200	ND	108	65-138	2	23	
sec-Butylbenzene	**0.023**	0.0009	mg/l	0.0200	ND	117	69-137	2	22	
tert-Butylbenzene	**0.023**	0.0004	mg/l	0.0200	ND	115	62-143	2	23	
Carbon Tetrachloride	**0.025**	0.001	mg/l	0.0200	ND	125	73-126	1	18	
Chlorobenzene	**0.022**	0.0005	mg/l	0.0200	ND	112	73-128	2	18	
Chloroethane (Ethyl Chloride)	**0.024**	0.0006	mg/l	0.0200	ND	119	69-141	2	19	
Chloroform	**0.022**	0.0005	mg/l	0.0200	ND	113	58-137	1	18	
Chloromethane (Methyl Chloride)	**0.023**	0.002	mg/l	0.0200	ND	116	64-139	3	21	
2-Chlorotoluene	**0.023**	0.0003	mg/l	0.0200	ND	114	68-136	0.4	29	
4-Chlorotoluene	**0.024**	0.0006	mg/l	0.0200	ND	117	68-135	3	22	
Dibromochloromethane (Chlorodibromo...)	**0.022**	0.0005	mg/l	0.0200	ND	110	66-128	0.3	20	
1,2-Dibromo-3-chloropropane (DBCP)	**0.021**	0.001	mg/l	0.0200	ND	105	59-134	3	27	
1,2-Dibromoethane (Ethylene Dibromide)	**0.023**	0.0004	mg/l	0.0200	ND	113	74-127	5	17	
1,2-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	111	68-133	2	23	
1,3-Dichlorobenzene	**0.023**	0.0004	mg/l	0.0200	ND	116	70-133	5	23	
1,4-Dichlorobenzene	**0.023**	0.0004	mg/l	0.0200	ND	114	71-132	4	22	
Dichlorodifluoromethane	**0.023**	0.0006	mg/l	0.0200	ND	113	38-170	0.8	24	
1,1-Dichloroethane	**0.023**	0.0006	mg/l	0.0200	ND	117	76-129	3	16	
1,2-Dichloroethane (Ethylene Dichloride)	**0.022**	0.0004	mg/l	0.0200	ND	111	73-130	4	17	
1,1-Dichloroethene (Vinylidene Chloride)	**0.023**	0.0004	mg/l	0.0200	ND	114	49-150	4	23	
cis-1,2-Dichloroethene	**0.022**	0.0004	mg/l	0.0200	ND	112	38-157	2	24	
trans-1,2-Dichloroethene	**0.023**	0.0009	mg/l	0.0200	ND	116	73-132	3	19	
1,2-Dichloropropane (Propylene Dichloride)	**0.022**	0.0004	mg/l	0.0200	ND	112	75-127	3	19	
1,3-Dichloropropane	**0.022**	0.0007	mg/l	0.0200	ND	111	71-129	3	18	
2,2-Dichloropropane	**0.021**	0.001	mg/l	0.0200	ND	107	73-130	4	17	
1,1-Dichloropropene	**0.021**	0.001	mg/l	0.0200	ND	104	73-126	1	18	

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D06011-MSD1)										
Prepared: 04/06/12 09:14 Analyzed: 04/07/12 05:30					**Source: 1204084-01**					
Ethyl Benzene	**0.022**	0.0007	mg/l	0.0200	ND	112	69-134	1	17	
Hexachlorobutadiene	**0.022**	0.001	mg/l	0.0200	ND	112	65-131	0.9	24	
Isopropylbenzene (Cumene)	**0.023**	0.001	mg/l	0.0200	ND	116	70-137	4	23	
p-Isopropyltoluene	**0.023**	0.0004	mg/l	0.0200	ND	117	68-138	2	22	
Methyl Ethyl Ketone (2-Butanone)	**0.016**	0.004	mg/l	0.0200	ND	83	10-194	23	40	
Methyl tert butyl ether (MTBE)	**0.022**	0.0004	mg/l	0.0200	ND	109	70-125	3	20	
Methylene Bromide (Dibromomethane)	**0.020**	0.0005	mg/l	0.0200	ND	101	76-125	1	19	
Methylene Chloride (Dichloromethane)	**0.027**	0.003	mg/l	0.0200	ND	137	23-171	5	30	
Naphthalene	**0.022**	0.001	mg/l	0.0200	ND	111	45-147	6	27	
n-Propylbenzene	**0.023**	0.0008	mg/l	0.0200	ND	116	69-136	1	21	
Styrene	**0.021**	0.001	mg/l	0.0200	ND	107	66-131	2	23	
1,1,1,2-Tetrachloroethane	**0.022**	0.0009	mg/l	0.0200	ND	109	73-126	0.9	18	
1,1,2,2-Tetrachloroethane	**0.023**	0.0004	mg/l	0.0200	ND	113	59-140	6	26	
Tetrachloroethene (Perchloroethylene)	**0.024**	0.001	mg/l	0.0200	ND	119	38-182	2	27	
Toluene	**0.021**	0.0005	mg/l	0.0200	ND	103	62-135	0.2	19	
1,2,3-Trichlorobenzene	**0.022**	0.001	mg/l	0.0200	ND	112	63-132	8	27	
1,2,4-Trichlorobenzene	**0.022**	0.0009	mg/l	0.0200	ND	111	65-134	4	24	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.024**	0.001	mg/l	0.0200	ND	118	75-127	5	19	
1,1,2-Trichloroethane	**0.022**	0.0006	mg/l	0.0200	ND	109	66-131	0.6	19	
Trichloroethene (Trichloroethylene)	**0.022**	0.0004	mg/l	0.0200	ND	108	55-144	3	18	
Trichlorofluoromethane	**0.025**	0.0004	mg/l	0.0200	ND	124	70-138	5	18	
1,2,3-Trichloropropane	**0.022**	0.0006	mg/l	0.0200	ND	111	66-135	5	36	
1,2,4-Trimethylbenzene	**0.023**	0.0008	mg/l	0.0200	ND	115	66-138	2	21	
1,3,5-Trimethylbenzene	**0.023**	0.0003	mg/l	0.0200	ND	116	70-136	4	21	
Vinyl Chloride	**0.024**	0.0004	mg/l	0.0200	ND	120	50-153	1	24	
Xylenes (total)	**0.068**	0.002	mg/l	0.0600	ND	113	73-129	1	19	
Surrogate: Toluene-d8	**0.0502**		mg/l	0.0500		100	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0513**		mg/l	0.0500		103	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0511**		mg/l	0.0500		102	18-175			

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D03081-BLK1)										
Prepared & Analyzed: 04/03/12 16:20										
Turbidity	**ND**	0.50	NTU							
Duplicate (2D03081-DUP1)										
Prepared & Analyzed: 04/03/12 16:20					**Source: 1204039-01**					
Turbidity	**7.4**	0.50	NTU		7.4			0.3	2	
Reference (2D03081-SRM1)										
Prepared & Analyzed: 04/03/12 16:20										
Turbidity	**20**	0.50	NTU	20.0		98	90-110			
Duplicate (2D03082-DUP1)										
Prepared & Analyzed: 04/03/12 16:35					**Source: 1204039-01**					
pH	**8.10**	0.1	pH Units		8.08			0.2	1	M-06a
Reference (2D03082-SRM1)										
Prepared & Analyzed: 04/03/12 16:35										
pH	**5.98**	0.1	pH Units	6.00		100	99-101			M-06b
Blank (2D04057-BLK1)										
Prepared & Analyzed: 04/04/12 08:26										
Hexavalent Chromium	**ND**	0.005	mg/l							
Laboratory Control Sample (2D04057-BS1)										
Prepared & Analyzed: 04/04/12 08:26										
Hexavalent Chromium	**0.497**	0.005	mg/l	0.500		99	87-111			

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2D04057-BSD1)										
Prepared & Analyzed: 04/04/12 08:26										
Hexavalent Chromium	**0.492**	0.005	mg/l	0.500		98	87-111	1	5	
Matrix Spike (2D04057-MS1)										
Prepared & Analyzed: 04/04/12 08:26					**Source: 1204039-01**					
Hexavalent Chromium	**0.520**	0.005	mg/l	0.526	ND	99	85-112			
Matrix Spike Duplicate (2D04057-MSD1)										
Prepared & Analyzed: 04/04/12 08:26					**Source: 1204039-01**					
Hexavalent Chromium	**0.517**	0.005	mg/l	0.526	ND	98	85-112	0.6	5	
Blank (2D04068-BLK1)										
Prepared: 04/04/12 10:43 Analyzed: 04/04/12 13:22										
Conductivity @ 25°C	**ND**	1.00	uS/cm							
Laboratory Control Sample (2D04068-BS1)										
Prepared: 04/04/12 10:43 Analyzed: 04/04/12 13:22										
Conductivity @ 25°C	**199**	1.00	uS/cm	200		100	98-102			
Duplicate (2D04068-DUP1)										
Prepared: 04/04/12 10:43 Analyzed: 04/04/12 13:22					**Source: 1204006-01**					
Conductivity @ 25°C	**4770**	1.00	uS/cm		4780			0.2	2	
Blank (2D05038-BLK1)										
Prepared & Analyzed: 04/05/12 07:59										
Total Suspended Solids	**ND**	2.50	mg/l							

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2D05038-BS1)										
Prepared & Analyzed: 04/05/12 07:59										
Total Suspended Solids	**187**	25.0	mg/l	200		94	90-108			
Duplicate (2D05038-DUP1)										
Prepared & Analyzed: 04/05/12 07:59					**Source: 1204039-02**					
Total Suspended Solids	**47.6**	5.00	mg/l		46.0			3	20	
Reference (2D05038-SRM1)										
Prepared & Analyzed: 04/05/12 07:59										
Total Suspended Solids	**26.0**	25.0	mg/l	25.0		104	90-110			
Blank (2D05041-BLK1)										
Prepared & Analyzed: 04/05/12 08:30										
Methylene Blue Active Substances	**ND**	0.073	mg/l							
Laboratory Control Sample (2D05041-BS1)										
Prepared & Analyzed: 04/05/12 08:30										
Methylene Blue Active Substances	**0.783**	0.073	mg/l	1.00		78	64-149			
Laboratory Control Sample Duplicate (2D05041-BSD1)										
Prepared & Analyzed: 04/05/12 08:30										
Methylene Blue Active Substances	**0.852**	0.073	mg/l	1.00		85	64-149	8	18	
Matrix Spike (2D05041-MS1)										
Prepared & Analyzed: 04/05/12 08:30					**Source: 1204039-01**					
Methylene Blue Active Substances	**1.07**	0.073	mg/l	1.00	ND	107	11-177			

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Matrix Spike Duplicate (2D05041-MSD1)										
Prepared & Analyzed: 04/05/12 08:30					**Source: 1204039-01**					
Methylene Blue Active Substances	**0.962**	0.073	mg/l	1.00	ND	96	11-177	10	13	
Blank (2D05046-BLK1)										
Prepared: 04/05/12 10:48 Analyzed: 04/05/12 15:00										
Oil & Grease (HEM)	**ND**	0.90	mg/l							
Laboratory Control Sample (2D05046-BS1)										
Prepared: 04/05/12 10:48 Analyzed: 04/05/12 15:00										
Oil & Grease (HEM)	**35.8**	0.90	mg/l	40.0		90	78-114			
Laboratory Control Sample Duplicate (2D05046-BSD1)										
Prepared: 04/05/12 10:48 Analyzed: 04/05/12 15:00										
Oil & Grease (HEM)	**34.4**	0.90	mg/l	40.0		86	78-114	4	18	
Matrix Spike (2D05046-MS1)										
Prepared: 04/05/12 10:48 Analyzed: 04/05/12 15:00					**Source: 1204053-01**					
Oil & Grease (HEM)	**43.2**	1.07	mg/l	47.6	ND	91	78-114			
Blank (2D05057-BLK1)										
Prepared & Analyzed: 04/05/12 13:53										
Total Dissolved Solids	**ND**	5.07	mg/l							
Laboratory Control Sample (2D05057-BS1)										
Prepared & Analyzed: 04/05/12 13:53										
Total Dissolved Solids	**235**	5.07	mg/l	250		94	93-106			

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Duplicate (2D05057-DUP1)										
Prepared & Analyzed: 04/05/12 13:53					**Source: 1204039-01**					
Total Dissolved Solids	**2700**	5.07	mg/l		2600			4	6	
Blank (2D06007-BLK1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 09:56										
Chloride (Total)	**ND**	0.005	mg/l							
Sulfate (Total) as SO4	**ND**	0.036	mg/l							
Laboratory Control Sample (2D06007-BS1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 10:12										
Chloride (Total)	**5.12**	0.005	mg/l	5.00		102	90-110			
Sulfate (Total) as SO4	**4.97**	0.036	mg/l	5.00		99	90-110			
Laboratory Control Sample Duplicate (2D06007-BSD1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 10:29										
Chloride (Total)	**5.07**	0.005	mg/l	5.00		101	90-110	0.9	20	
Sulfate (Total) as SO4	**4.91**	0.036	mg/l	5.00		98	90-110	1	20	
Matrix Spike (2D06007-MS1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 10:45					**Source: 1203787-07RE1**					
Chloride (Total)	**1140**	0.556	mg/l	556	498	116	80-120			R-01
Sulfate (Total) as SO4	**1590**	4.00	mg/l	556	903	124	80-120			Q-02, R-01
Matrix Spike (2D06007-MS2)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 11:18					**Source: 1203789-07**					
Chloride (Total)	**1310**	0.556	mg/l	556	633	121	80-120			Q-02, R-01
Sulfate (Total) as SO4	**1560**	4.00	mg/l	556	865	125	80-120			Q-02, R-01

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D06007-MSD1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 11:02					**Source: 1203787-07RE1**					
Chloride (Total)	**1130**	0.556	mg/l	556	498	114	80-120	0.8	15	R-01
Sulfate (Total) as SO4	**1570**	4.00	mg/l	556	903	120	80-120	1	15	R-01
Matrix Spike Duplicate (2D06007-MSD2)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 12:07					**Source: 1203789-07**					
Chloride (Total)	**1300**	0.556	mg/l	556	633	120	80-120	0.5	15	R-01
Sulfate (Total) as SO4	**1550**	4.00	mg/l	556	865	124	80-120	0.2	15	Q-02, R-01
Blank (2D06008-BLK1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 21:58										
Chloride (Total)	**ND**	0.005	mg/l							
Sulfate (Total) as SO4	**ND**	0.036	mg/l							
Laboratory Control Sample (2D06008-BS1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 19:30										
Chloride (Total)	**4.95**	0.005	mg/l	5.00		99	90-110			
Sulfate (Total) as SO4	**4.87**	0.036	mg/l	5.00		97	90-110			
Laboratory Control Sample Duplicate (2D06008-BSD1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 19:46										
Chloride (Total)	**4.94**	0.005	mg/l	5.00		99	90-110	0.1	20	
Sulfate (Total) as SO4	**4.85**	0.036	mg/l	5.00		97	90-110	0.5	20	
Matrix Spike (2D06008-MS1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 20:03					**Source: 1204093-01**					
Chloride (Total)	**80.0**	0.006	mg/l	5.56	74.0	109	80-120			R-01
Sulfate (Total) as SO4	**73.8**	0.040	mg/l	5.56	67.3	118	80-120			R-01

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D06008-MSD1)										
Prepared: 04/06/12 07:36 Analyzed: 04/06/12 20:19					**Source: 1204093-01**					
Chloride (Total)	**80.0**	0.006	mg/l	5.56	74.0	109	80-120	0.007	15	R-01
Sulfate (Total) as SO4	**73.5**	0.040	mg/l	5.56	67.3	112	80-120	0.5	15	R-01
Laboratory Control Sample (2D11061-BS1)										
Prepared & Analyzed: 04/11/12 09:32										
Total Alkalinity	**252**	20.0	mg CaCO3/l	250		101	96-102			
Laboratory Control Sample Duplicate (2D11061-BSD1)										
Prepared & Analyzed: 04/11/12 09:32										
Total Alkalinity	**252**	20.0	mg CaCO3/l	250		101	96-102	0	3	
Matrix Spike (2D11061-MS1)										
Prepared & Analyzed: 04/11/12 09:32					**Source: 1204039-02**					
Total Alkalinity	**352**	20.0	mg CaCO3/l	250	110	97	90-110			
Matrix Spike Duplicate (2D11061-MSD1)										
Prepared & Analyzed: 04/11/12 09:32					**Source: 1204039-02**					
Total Alkalinity	**352**	20.0	mg CaCO3/l	250	110	97	90-110	0	2	

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D05048-BLK1)										
Prepared: 04/05/12 11:28 Analyzed: 04/05/12 14:35										
Mercury	**ND**	0.00004	mg/l							
Laboratory Control Sample (2D05048-BS1)										
Prepared: 04/05/12 11:28 Analyzed: 04/05/12 14:49										
Mercury	**0.00286**	0.00004	mg/l	0.00250		114	85-115			
Laboratory Control Sample Duplicate (2D05048-BSD1)										
Prepared: 04/05/12 11:28 Analyzed: 04/05/12 14:57										
Mercury	**0.00251**	0.00004	mg/l	0.00250		100	85-115	13	20	
Matrix Spike (2D05048-MS1)					**Source: 1204002-01**					
Prepared: 04/05/12 11:28 Analyzed: 04/05/12 15:30										
Mercury	**0.00280**	0.00004	mg/l	0.00250	ND	112	70-130			
Matrix Spike Duplicate (2D05048-MSD1)					**Source: 1204002-01**					
Prepared: 04/05/12 11:28 Analyzed: 04/05/12 15:33										
Mercury	**0.00279**	0.00004	mg/l	0.00250	ND	112	70-130	0.4	20	
Blank (2D11089-BLK1)										
Prepared & Analyzed: 04/11/12 18:21										
Acid Digestion of Aqueous	**Completed**	N/A	-							
Arsenic	**ND**	0.010	mg/l							
Barium	**ND**	0.0002	mg/l							
Cadmium	**ND**	0.0003	mg/l							
Calcium	**ND**	0.11	mg/l							
Chromium	**ND**	0.001	mg/l							
Iron	**ND**	0.01	mg/l							
Lead	**ND**	0.001	mg/l							
Magnesium	**ND**	0.005	mg/l							
Manganese	**ND**	0.002	mg/l							
Potassium	**ND**	0.217	mg/l							
Selenium	**ND**	0.003	mg/l							
Silver	**ND**	0.001	mg/l							
Sodium	**ND**	0.17	mg/l							
Strontium	**ND**	0.0003	mg/l							

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2D11089-BS1)										
Prepared & Analyzed: 04/11/12 18:21										
Acid Digestion of Aqueous	**Completed**	N/A	-				0-0			
Arsenic	**0.501**	0.010	mg/l	0.500		100	80-120			
Barium	**0.482**	0.0002	mg/l	0.500		96	80-120			
Cadmium	**0.502**	0.0003	mg/l	0.500		100	80-120			
Calcium	**9.45**	0.11	mg/l	10.0		94	80-120			
Chromium	**0.505**	0.001	mg/l	0.500		101	80-120			
Iron	**5.23**	0.01	mg/l	5.00		105	80-120			
Lead	**0.492**	0.001	mg/l	0.500		98	80-120			
Magnesium	**9.64**	0.005	mg/l	10.0		96	80-120			
Manganese	**0.497**	0.002	mg/l	0.500		99	80-120			
Potassium	**10.4**	0.217	mg/l	10.0		104	80-120			
Selenium	**0.991**	0.003	mg/l	1.00		99	80-120			
Silver	**0.495**	0.001	mg/l	0.500		99	80-120			
Sodium	**10.4**	0.17	mg/l	10.0		104	80-120			
Strontium	**0.497**	0.0003	mg/l	0.500		99	80-120			
Laboratory Control Sample Duplicate (2D11089-BSD1)										
Prepared & Analyzed: 04/11/12 18:21										
Acid Digestion of Aqueous	**Completed**	N/A	-				0-0		0	
Arsenic	**0.501**	0.010	mg/l	0.500		100	80-120	0	20	
Barium	**0.475**	0.0002	mg/l	0.500		95	80-120	1	20	
Cadmium	**0.501**	0.0003	mg/l	0.500		100	80-120	0.3	20	
Calcium	**9.24**	0.11	mg/l	10.0		92	80-120	2	20	
Chromium	**0.498**	0.001	mg/l	0.500		100	80-120	1	20	
Iron	**5.14**	0.01	mg/l	5.00		103	80-120	2	20	
Lead	**0.488**	0.001	mg/l	0.500		98	80-120	0.9	20	
Magnesium	**9.54**	0.005	mg/l	10.0		95	80-120	1	20	
Manganese	**0.492**	0.002	mg/l	0.500		98	80-120	1	20	
Potassium	**10.2**	0.217	mg/l	10.0		102	80-120	1	20	
Selenium	**0.990**	0.003	mg/l	1.00		99	80-120	0.06	20	
Silver	**0.490**	0.001	mg/l	0.500		98	80-120	1	20	
Sodium	**10.4**	0.17	mg/l	10.0		104	80-120	1	20	
Strontium	**0.489**	0.0003	mg/l	0.500		98	80-120	2	20	

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2D11089-MS1)										
Prepared & Analyzed: 04/11/12 18:21					**Source: 1204039-01RE1**					
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0			
Arsenic	**0.498**	0.010	mg/l	0.500	ND	100	75-125			
Barium	**0.478**	0.0002	mg/l	0.500	0.013	93	75-125			
Cadmium	**0.495**	0.0003	mg/l	0.500	ND	99	75-125			
Calcium	**20.0**	0.11	mg/l	10.0	11.8	82	75-125			
Chromium	**0.458**	0.001	mg/l	0.500	ND	92	75-125			
Iron	**5.95**	0.01	mg/l	5.00	1.29	93	75-125			
Lead	**0.454**	0.001	mg/l	0.500	0.002	90	75-125			
Magnesium	**19.0**	0.005	mg/l	10.0	10.6	85	75-125			
Manganese	**0.472**	0.002	mg/l	0.500	0.019	91	75-125			
Potassium	**19.4**	0.217	mg/l	10.0	6.06	133	75-125			Q-02
Selenium	**1.03**	0.003	mg/l	1.00	ND	103	75-125			
Silver	**0.495**	0.001	mg/l	0.500	ND	99	75-125			
Sodium	**810**	0.17	mg/l	10.0	847	-372	75-125			Q-02
Strontium	**2.00**	0.0003	mg/l	0.500	1.70	61	75-125			Q-02
Matrix Spike Duplicate (2D11089-MSD1)										
Prepared & Analyzed: 04/11/12 18:21					**Source: 1204039-01RE1**					
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0		0	
Arsenic	**0.523**	0.010	mg/l	0.500	ND	105	75-125	5	20	
Barium	**0.488**	0.0002	mg/l	0.500	0.013	95	75-125	2	20	
Cadmium	**0.519**	0.0003	mg/l	0.500	ND	104	75-125	5	20	
Calcium	**20.8**	0.11	mg/l	10.0	11.8	90	75-125	4	20	
Chromium	**0.481**	0.001	mg/l	0.500	ND	96	75-125	5	20	
Iron	**6.20**	0.01	mg/l	5.00	1.29	98	75-125	4	20	
Lead	**0.473**	0.001	mg/l	0.500	0.002	94	75-125	4	20	
Magnesium	**19.3**	0.005	mg/l	10.0	10.6	88	75-125	2	20	
Manganese	**0.495**	0.002	mg/l	0.500	0.019	95	75-125	5	20	
Potassium	**19.9**	0.217	mg/l	10.0	6.06	139	75-125	3	20	Q-02
Selenium	**1.08**	0.003	mg/l	1.00	ND	108	75-125	4	20	
Silver	**0.514**	0.001	mg/l	0.500	ND	103	75-125	4	20	
Sodium	**818**	0.17	mg/l	10.0	847	-294	75-125	1	20	Q-02
Strontium	**2.02**	0.0003	mg/l	0.500	1.70	65	75-125	0.9	20	Q-02

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Report of Sample Analysis

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1904 Industrial Blvd., Suite 105
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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Total Petroleum Hydrocarbons Rev. 3 - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D05061-BLK1)										
Prepared & Analyzed: 04/05/12 15:20										
TPH 1005 Extraction	**Completed**	N/A	N/A							
TPH (C6-C12)	**ND**	1.90	mg/l							
TPH (>C12-C28)	**ND**	0.231	mg/l							
TPH (>C28-C35)	**ND**	0.069	mg/l							
TPH (C6-C35)	**ND**	1.90	mg/l							
Surrogate: 1-Chlorooctane	**24.0**		mg/l	25.2		95	70-130			
Surrogate: o-Terphenyl	**24.6**		mg/l	25.2		98	70-130			
Laboratory Control Sample (2D05061-BS1)										
Prepared & Analyzed: 04/05/12 15:20										
TPH 1005 Extraction	**Completed**	N/A	N/A				0-0			
TPH (C6-C12)	**42.5**	0.600	mg/l	40.0		106	75-125			
TPH (>C12-C28)	**22.5**	0.231	mg/l	20.0		112	75-125			
TPH (>C28-C35)	**7.07**	0.069	mg/l	6.65		106	75-125			
TPH (C6-C35)	**72.1**	0.884	mg/l	66.5		108	75-125			
Surrogate: 1-Chlorooctane	**27.4**		mg/l	25.2		108	70-130			
Surrogate: o-Terphenyl	**29.0**		mg/l	25.2		115	70-130			
Laboratory Control Sample Duplicate (2D05061-BSD1)										
Prepared & Analyzed: 04/05/12 15:20										
TPH 1005 Extraction	**Completed**	N/A	N/A				0-0		0	
TPH (C6-C12)	**41.8**	0.600	mg/l	40.0		105	75-125	2	20	
TPH (>C12-C28)	**22.8**	0.231	mg/l	20.0		114	75-125	2	20	
TPH (>C28-C35)	**6.98**	0.069	mg/l	6.65		105	75-125	1	20	
TPH (C6-C35)	**71.6**	0.883	mg/l	66.5		108	75-125	0.6	20	
Surrogate: 1-Chlorooctane	**27.2**		mg/l	25.2		108	70-130			
Surrogate: o-Terphenyl	**28.6**		mg/l	25.2		113	70-130			

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 04/14/12 10:22

Total Petroleum Hydrocarbons Rev. 3 - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2D05061-MS1)										
Prepared & Analyzed: 04/05/12 15:20					**Source: 1204086-01**					
TPH 1005 Extraction	**Completed**	N/A	N/A		ND		0-0			
TPH (C6-C12)	**36.8**	0.583	mg/l	38.9	ND	95	75-125			
TPH (>C12-C28)	**24.6**	0.224	mg/l	19.4	8.08	85	75-125			
TPH (>C28-C35)	**5.96**	0.067	mg/l	6.46	0.600	83	75-125			
TPH (C6-C35)	**67.3**	0.859	mg/l	64.6	8.68	91	75-125			
Surrogate: 1-Chlorooctane	**21.3**		mg/l	24.5		87	70-130			
Surrogate: o-Terphenyl	**22.0**		mg/l	24.5		90	70-130			
Matrix Spike Duplicate (2D05061-MSD1)										
Prepared & Analyzed: 04/05/12 15:20					**Source: 1204086-01**					
TPH 1005 Extraction	**Completed**	N/A	N/A		ND		0-0		0	
TPH (C6-C12)	**30.7**	0.514	mg/l	34.3	ND	89	75-125	18	20	
TPH (>C12-C28)	**23.1**	0.198	mg/l	17.1	8.08	87	75-125	6	20	
TPH (>C28-C35)	**5.09**	0.059	mg/l	5.70	0.600	79	75-125	16	20	
TPH (C6-C35)	**58.8**	0.758	mg/l	57.0	8.68	88	75-125	13	20	
Surrogate: 1-Chlorooctane	**18.3**		mg/l	21.6		85	70-130			
Surrogate: o-Terphenyl	**19.7**		mg/l	21.6		91	70-130			

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Project: Colleyville Water Resampling
Project #: DFW12028
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Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

J	This value is above the method detection limit but below the reporting limit.
M-06	The pH was measured at a temperature of 18.2°C.
M-06a	The pH was measured at a temperature of 18.3°C.
M-06b	The pH was measured at a temperature of 21.7°C.
Q-02	The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range.
Q-10	The recovery of the calibration check standard for this analyte was higher than the acceptable range. This may indicate a high bias to the result presented.
Q-20	The recovery of this analyte in the MS was higher than the acceptable range. This indicates a high bias to the result presented.
Q-21	The recovery of this analyte in the MS was lower than the acceptable range. This indicates a low bias to the result presented.
R-01	The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target and/or non-target parameters in this sample.
S-06	This sample was received outside of the EPA recommended holding time for this parameter. The result presented is, therefore, considered an estimated value.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/kg	micrograms per kilogram
ug/l	micrograms per liter
exc	Not covered under scope of NELAP accreditation.
F*	Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor when >1.00.
Inst	Instrument Identification

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Anlst	Analyst Initials
SDL	Sample Detection Limit
MQL	Method Quantitation Limit
naa	This analysis/parameter is not accreditable under the current NELAP program

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

April 11, 2012

Leslie Underwood
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013

RE: Project 10187649
Project ID: 1204039 Coleyville Water Resam

Dear Leslie Underwood:

Enclosed are the analytical results for sample(s) received by the laboratory on April 04, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Kyle Richardson
kyle.richardson@pacelabs.com
(612)607-1700

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Appendix A
LABORATORY DATA PACKAGE COVER PAGE

This data package is for Job No. 10187649
and consists of:

This signature page, the laboratory review checklist, and the following reportable data:

[X] R1 - Field chain-of-custody documentation;
[X] R2 - Sample identification cross-reference;
[X] R3 - Test reports (analytical data sheets) for each environmental sample that includes:
- a. Items consistent with NELAC Chapter 5,
- b. Dilution factors,
- c. Preparation methods,
- d. Cleanup methods, and
- e. If required for the project, tentatively identified compounds (TICs).

[ ] R4 - Surrogate recovery data including:
- a. Calculated recovery (%R), and
- b. The laboratory's surrogate QC limits.

[X] R5 - Test reports/summary forms for blank samples;
[X] R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
- a. LCS spiking amounts,
- b. Calculated %R for each analyte, and
- c. The laboratory's LCS QC limits.

[ ] R7 - Test reports/summary forms for matrix spike/matrix spike duplicates (MS/MSDs) including:
- a. Samples associated with the MS/MSD clearly identified,
- b. MS/MSD spiking amounts,
- c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d. Calculated %Rs and relative percent differences, and
- e. The laboratory's MS/MSD QC limits.

[ ] R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
- a. The amount of analyte measured in the duplicate,
- b. The calculated RPD, and
- c. The laboratory's QC limits for analytical duplicated.

[X] R9 - List of method quantitation limits (MQLs) and detectibility check sample results for each analyte and matrix.
[X] R10 - Other problems or anomolies.

The exception Report for each "No" or Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix and method for which the laboratory does not hold NELAC accredidation under the Texas Laboratory Accredidation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [X] MN DNR 05/26/2011

Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (Printed)	Date
Kyle Richardson		Project Manager	4/11/2012

Laboratory Certifications

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10187649

Client: Pasi- Dallas

Project ID: 1204039 Coleyville Water Resam

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Certification IDs

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nebraska Certification #: Pace

Nevada Certification #: MN_00064

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oklahoma Certification #: D9921

REPORT OF LABORATORY ANALYSIS

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the written consent of Pace Analytical Services, Inc.

Laboratory Certifications

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10187649

Client: Pasi- Dallas

Project ID: 1204039 Coleyville Water Resam

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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Sample Cross Reference

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10187649

Client: Pasi- Dallas

Project ID: 1204039 Coleyville Water Resam

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
WWK 1204039-01	10187649001	WATER	03-Apr-12 10:21	04-Apr-12 10:07
WWF 1204039-02	10187649002	WATER	03-Apr-12 11:26	04-Apr-12 10:07

Project Narrative

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10187649

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Sample Results

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Client: Pasi- Dallas

Client ID: WWK 1204039-01
Project ID: 1204039 Coleyville Water Resam
Lab ID: 10187649001
Description: none
Method: RSK 175
RSK 175 AIR Headspace

Project: 10187649
Site: none
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 203328
Collected: 03-Apr-12
Received: 04-Apr-12
Prepared: 09-Apr-12

Units: mg/L

CAS No.	Analyte	Dilution	Qu	Result	MQL	SQL	UQL	Analysis	
74-84-0	Ethane	1	U	<0.00620	0.0124	0.00620		09-Apr-12 15:51	SK4
74-85-1	Ethene	1	U	<0.00620	0.0124	0.00620		09-Apr-12 15:51	SK4
74-82-8	Methane	1		0.0640	0.00660	0.000690	16.7	09-Apr-12 15:51	SK4

3 compound(s) reported

Protocol 4/11/2012 09:54:13

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Client: Pasi- Dallas

Client ID: WWF 1204039-02
Project ID: 1204039 Coleyville Water Resam
Lab ID: 10187649002
Description: none
Method: RSK 175
RSK 175 AIR Headspace

Project: 10187649
Site: none
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 203328
Collected: 03-Apr-12
Received: 04-Apr-12
Prepared: 09-Apr-12

Units: mg/L

CAS No.	Analyte	Dilution	Qu	Result	MQL	SQL	UQL	Analysis	
74-84-0	Ethane	1	U	<0.00620	0.0124	0.00620		09-Apr-12 16:02	SK4
74-85-1	Ethene	1	U	<0.00620	0.0124	0.00620		09-Apr-12 16:02	SK4
74-82-8	Methane	1	U	<0.000690	0.00660	0.000690	16.7	09-Apr-12 16:02	SK4

3 compound(s) reported

Protocol 4/11/2012 09:54:13

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Quality Control

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Batch: 203328 **Project:** 10187649 **LCS:** 1170268 09-Apr-12 7:45

MS:

Units: mg/L **MSD:**

Original for MS:

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Ethane	0.114	0.13	114								70 - 130	-	30	
Ethene	0.106	0.118	111								70 - 130	-	30	
Methane	0.0607	0.0672	111								70 - 130	-	30	

3 compound(s) reported

4/11/2012 09:54:13

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Organics Method Blank

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Blank ID: BLANK for HBN 203328 **Project:** 10187649

Lab ID: 1170267

Prep Level: Water **Batch:** 203328

Method: Water RSK 175
RSK 175 AIR Headspace

Prepared: 09-Apr-12

Units: mg/L

CAS Numb	Analyte	Dilution	Qu	Result	Reporting MQL	SQL	Analysis	
74-84-0	Ethane	1	U	<0.00620	0.0124	0.00620	09-Apr-12 07:56	SK4
74-85-1	Ethene	1	U	<0.00620	0.0124	0.00620	09-Apr-12 07:56	SK4
74-82-8	Methane	1	U	<0.000690	0.00660	0.000690	09-Apr-12 07:56	SK4

3 compound(s) reported

4/11/2012 09:54:14

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Unadjusted MQL Summary

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10187649

Analyte	Method	Unadjusted MQL	Reporting Units
Ethane	RSK 175	0.0124	mg/L
Ethene	RSK 175	0.0124	mg/L
Methane	RSK 175	0.00660	mg/L

Definitions/Qualifiers

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10187649

Value	Description
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

TRRP LABORATORY REVIEW CHECKLIST							
Laboratory Name:		Pace Analytical Services, Inc.	**LRC Date:**			4/11/2012	
Project Name:		1204039 Coleyville Water Resam	**Lab Job Number:**			10187649	
Reviewer Name:		Kyle Richardson					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER #[5]**
R1	**OI**	**CHAIN-OF-CUSTODY (COC):**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	**Auto**				
		Were all departures from standard conditions described in an exception report?	**X**				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION:**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	**X**				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	**X**				
R3	**OI**	**TEST REPORTS:**					
		Were samples prepared and analyzed within holding times?	**X**				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	**X**				
		Were calculations checked by a peer or supervisor?	**X**				
		Were all analyte identifications checked by a peer or supervisor?	**X**				
		Were sample detection limits reported for all analytes not detected?	**X**				
		Were all results for soil and sediment samples reported on a dry weight basis?		X			
		Were % moisture (or solids) reported for all soil and sediment samples?		X			
		If required for the project, were TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA:**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	**X**				
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES:**					
		Were appropriate type(s) of blanks analyzed?	**X**				
		Were blanks analyzed at the appropriate frequency?	**X**				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	**X**				
		Were blank concentrations < MQL?	**X**				
R6	**OI**	**LABORATORY CONTROL SAMPLES (LCSs):**					
		Were all COCs included in the LCS?	**X**				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	**X**				
		Were LCSs analyzed at the required frequency?	**X**				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	**X**				
		Was the LCSD RPD within QC limits?	**X**				
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA:**					
		Were the project/method specified analytes included in the MS and MSD?		X			14M
		Were MS/MSD analyzed at the appropriate frequency?	**X**				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		Were MS/MSD RPDs within the laboratory QC limits?	**X**				
R8	**OI**	**ANALYTICAL DUPLICATE DATA:**					
		Were appropriate analytical duplicates analyzed for each matrix?	**X**				
		Were analytical duplicates analyzed at the appropriate frequency?	**X**				
		Were RPDs or relative standard deviations within the laboratory QC limits?	**X**				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	**X**				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	**X**				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	**X**				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES:**					
		Are all known problems/anomalies/special conditions noted in this LCR and ER?	**X**				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	**X**				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analtes, matrices, and methods associated with this laboratory data package?	**X**				

R-Required items S-Available if requested 2-O=organic, I=inorganic 3-NA=Not applicable 4-NR=Not reviewed 5-ER=Exception report #

TRRP LABORATORY REVIEW CHECKLIST							
Laboratory Name:		Pace Analytical Services, Inc.	**LRC Date:**			4/11/2012	
Project Name:		1204039 Coleyville Water Resam	**Lab Job Number:**			10187649	
Reviewer Name:		Kyle Richardson					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER #[5]**
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	**X**				
		Were percent RSDs or correlation coefficient criteria met?	**X**				
		Was the number of standards recommended in the method used for all analytes?	**X**				
		Were all points generated between the lowest and highest standard used to calculate the curve?	**X**				
		Are ICAL data available for all instruments used?	**X**				
		Has the initial calibration curve been verified using an appropriate second source standard?	**X**				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV**					
		Was the CCV analyzed at the method-required frequency?	**X**				
		Were percent differences for each analyte within the method-required QC limits?	**X**				
		Was the ICAL curve verified for each analyte?	**X**				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	**X**				
S3	**O**	**MASS SPECTRAL TUNING:**					
		Was the appropriate compound for the method used for tuning?	**X**				
		Were ion abundance data within the method-required QC limits?	**X**				
S4	**O**	**INTERNAL STANDARD (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	**X**				
S5	**OI**	**RAW DATA (NELAC SECTION 5.5.10):**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	**X**				
		2) Were data associated with manual integrations flagged on the raw data?	**X**				
S6	**O**	**DUAL COLUMN CONFIRMATION:**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS:**					
		1) Were percent recoveries within method QC limits?	**X**				
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITIONS**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	**X**				
S10	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES:**					
		Was a MDL study performed for each reported analyte?	**X**				
		Is the MDL either adjusted or supported by the analysis of DCSs?	**X**				
S11	**OI**	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	**X**				
S12	**OI**	**STANDARDS DOCUMENTATION:**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	**X**				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES:**					
		Are the procedures for compound/analyte identification documented?	**X**				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	**X**				
		Is documentation of the analyst's competency up-to-date and on file?	**X**				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC CHAPTER 5)**					
		Are all the methods used to generate the data documented, verified and validated, where applicable?	**X**				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	**X**				

R-Required items S-Available if requested 2-O=organic, I=inorganic 3-NA=Not applicable 4-NR=Not reviewed 5-ER=Exception report #

TRRP LABORATORY REVIEW CHECKLIST			
Laboratory Name:		**LRC Date:**	
Project Name:		**Lab Job Number:**	
Reviewer Name:	Pace Analytical Services, Inc.		######
ER #	**1204039 Coleyville Water Resam**		1E+07
14M	MS 203328 Ethane is not spiked.		
14M	MS 203328 Ethene is not spiked.		
14M	MS 203328 Methane is not spiked.		

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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Laboratory Data Package Cover Page 566334

AQUEOUS

This data package consists of:

- ☑ This signature page, the laboratory review checklist, and the following reportable data:
- ☑ R1 Field chain-of-custody documentation;
- ☑ R2 Sample identification cross-reference;
- ☑ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ R4 Surrogate recovery data including: (R4 - R8: See QC Report)
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ R5 Test reports/summary forms for blank samples;
- ☑ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☑ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix; See Results Summary
- ☑ R10 Other problems or anomalies.
- ☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Name	Signature	Official Title	Date
Charles H Whiteside, PhD (CHW)	C.H. Whiteside	President	4/12/2012

Appendix A:	Laboratory Review Checklist: Reportable Data
Laboratory Name: ANA-LAB	LRC Date: 04/12/2012
Project Name: Default	Laboratory Job (Project) Number: 566334
Reviewer Name: Charles H Whiteside, PhD (CHW)	PrepSet: 471375 QCgroup: 471867

#	A	Description	Yes	No	NA	NR	ER#
R01	OI	**Chain-of-Custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in the exception report?			X		
R02	OI	**Sample and Quality Control (QC) Identification**					
		Are all field sample ID numbers cross referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R03	OI	**Test Reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, tentatively identified compounds reported?			X		
R04	O	**Surrogate Recovery Data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R05	OI	**Test Reports/Summary Forms for Blank Samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R06	OI	**Laboratory Control Samples (LCS)**					
		Were all chemicals of concern included in the LCS?	X				
		Was each LCS taken though the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCS duplicate, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the chemicals of concern at the MDL used to calculate the SQLs?	X				
		Was the LCS duplicate relative percent difference within QC limits?	X				
R07		**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R08	OI	**Analytical Duplicate Data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R09	OI	**Method Quantitation Limits (MQLs)**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		Are all known problems/anomalies/special condition noted in this LRC and ER?	X				
		Were all necessary corrective actions preformed for the reported data?	X				
		Was applicable and available technology used to lower the SQL and minimize the matrix interference effects on the sample results?	X				

Appendix A:	Laboratory Review Checklist: Reportable Data
Laboratory Name: ANA-LAB	LRC Date: 04/12/2012
Project Name: Default	Laboratory Job (Project) Number: 566334
Reviewer Name: Charles H Whiteside, PhD (CHW)	PrepSet: 471375 QCgroup: 471867

#	A	Description	Yes	No	NA	NR	ER#
S01	OI	**Initial Calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S02	OI	**Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MQL?			X		
S03	O	**Mass Spectral Tuning**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S04	O	**Internal Standards (IS)**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S05	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section . . .)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S06	O	**Dual Column Confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S07	O	**Tentatively Identified Compounds (TICs)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S08	I	**Interference Check Sample (ICS) Results**					
		Were precent recoveries within method QC limits?	X				
S09	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or suppported by the analysis of detectability check samples?	X				
S11	OI	**Proficiency Test Reports**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?	X				
S13	IO	**Compound/Analyte Identification Procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Compentency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO/IEC Section 5)**					
		Are all the methods used to generate the data documented, verified and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
3. N/A = Not applicable;
4. NR = Not reviewed
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Results

Printed: 04/12/2012

Client: PAS5 *Project:* 566334

Default

Account	*Project*
PAS5-N	**566334**

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1111067 1204039-01						*Received:* 04/05/2012
Liquid Aqueous	*Collected by:* Client		*Affiliation:* Pace Analytical Serv		04/03/2012	10:21:00
Prepared:	*471375*	*04/06/2012*		*13:00:00*		
SW-846 6010B		*Analyzed: SAM*	*04/11/2012*	*14:33:56 QCgroup*		*471867*
z **Sulfur**	**481**	**mg/L**	10.0		**7704-34-9**	02
1111068 1204039-02						*Received:* 04/05/2012
Liquid Aqueous	*Collected by:* Client		*Affiliation:* Pace Analytical Serv		04/03/2012	11:26:00
Prepared:	*471375*	*04/06/2012*		*13:00:00*		
SW-846 6010B		*Analyzed: SAM*	*04/11/2012*	*14:36:45 QCgroup*		*471867*
z **Sulfur**	**18.7**	**mg/L**	10.0		**7704-34-9**	02

Sample Preparation

1111067 1204039-01						*Received:* 04/05/2012
Prepared:		*04/05/2012*		*00:00:00*		
		Analyzed: KAT	*04/05/2012*	*00:00:00 QCgroup*		
z **Bottle pH**	<2	**SU**				01
Bottle Temperature on Receipt	<1	**degrees**				01
Prepared:	*471375*	*04/06/2012*		*13:00:00*		
EPA 200.2 2.8		*Analyzed: WOB*	*04/06/2012*	*13:00:00 QCgroup*		*471375*
N **Liquid Metals Digestion**	**50/50**	**ml**				01
1111068 1204039-02						*Received:* 04/05/2012
Prepared:		*04/05/2012*		*00:00:00*		
		Analyzed: KAT	*04/05/2012*	*00:00:00 QCgroup*		
z **Bottle pH**	<2	**SU**				01
Bottle Temperature on Receipt	<1	**degrees**				01
Prepared:	*471375*	*04/06/2012*		*13:00:00*		
EPA 200.2 2.8		*Analyzed: WOB*	*04/06/2012*	*13:00:00 QCgroup*		*471375*

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Results

Printed: 04/12/2012

Client: PAS5 *Project:* 566334

Sample Preparation

1111068 **1204039-02** *Received:* 04/05/2012

EPA 200.2 2.8			*Analyzed:*	*WOB*	*04/06/2012*	*13:00:00*	*QCgroup*	*471375*
N	**Liquid Metals Digestion**	**50/50**	**ml**				01

Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commisson on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

C. H. Whiteside

C. H. Whiteside, Ph.D., President

Ethics Service Quality ACIL 2005 SEAL OF EXCELLENCE PROGRAM Environmental

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Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

LELAP-accredited #02008

Results Summary

Project **566334**

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Liquid Aqueous	**Metals**					**SW-846 6010B**					
1111067	**1204039-01**										
		Collection:	04/03/2012		10:21:00	Client			*Received:*	04/05/2012	
Prepared:	***471375***			*Analyzed:*		***471867***		4/11/12	14:33:56		
7704-34-9	**Sulfur**	**481**	0.050	1.00	0.500	10.0		**mg/L**		02	20.00
1111068	**1204039-02**										
		Collection:	04/03/2012		11:26:00	Client			*Received:*	04/05/2012	
Prepared:	***471375***			*Analyzed:*		***471867***		4/11/12	14:36:45		
7704-34-9	**Sulfur**	**18.7**	0.050	1.00	0.500	10.0		**mg/L**		02	20.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)
MQL is the Method Quantitation Limit and corresponds to a low standard
Qualifiers:

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)
MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commisson on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

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Results Summary

Project **566334**

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

C. H. Whiteside

C. H. Whiteside, Ph.D., President

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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Quality Control

Printed 04/12/2012

AQUEOUS

Account	Project
PAS5 -N	566334

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

471867 M Liquid Aqueous — SW-846 6010B

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfur	471375	ND	0.050	0.500	mg/L	112392684

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	19.9	20.0	mg/L	99.5	90.0 - 110		112392683
Sulfur	19.9	20.0	mg/L	99.5	90.0 - 110		112392688
Sulfur	20.5	20.0	mg/L	102	90.0 - 110		112392695

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	40.6	40.0	mg/L	102	95.0 - 105		112392681

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	20.0	20.0	mg/L	100	90.0 - 110		112392682

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Sulfur	471375	3.90	4.00	mg/L	97.6	90.0 - 110	112392685	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Sulfur	471375	3.90	3.87	4.00	90.0 - 110	97.6	96.7	mg/L	0.772	14.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfur	1111090	8.25	0	4.27	4.00	71.0 - 134	99.5		mg/L		30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfur	1111090	8.25	8.22	4.27	4.00	71.0 - 134	99.5	98.8	mg/L	0.706	30.0

RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100%

Recover% is Recovery Percent: result / known * 100%

566334 CoC Print Group 001 of 001

SUBCONTRACT ORDER

PACE Analytical Services, Inc.

1204039

SENDING LABORATORY:

PACE Analytical Services, Inc.
400 West Bethany, Suite 190
Allen, TX 75013
Phone: (972) 727-1123
Fax: (972) 727-1175
Project Manager: Customer Service

RECEIVING LABORATORY:

Ana Lab Corporation
2600 Dudley Rd
Kilgore, TX 75662
Phone :(903) 984-0551
Fax: (903) 984-5914

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1204039-01	Aqueous	Sampled:04/03/12 10:21	141067	
Subout2 See Comments *Containers Supplied:* Poly 500mL - pH<2 (O)	[redacted]	[redacted]		Sulfur - TRRP
Sample ID: 1204039-02	Aqueous	Sampled:04/03/12 11:26	068	
Subout2 See Comments *Containers Supplied:* Poly 500mL - pH<2 (O)	[redacted]	[redacted]		Sulfur - TRRP

Normal TAT

005057 ☐ CF 0.057
005112 ☑ CF 0.000
003688 ☐ CF 0.190

<1°C

Released By	Date	Received By	Date
[illegible]	4/4/12	LSD # ZN541431	
LSD	4/5/12 0745	[illegible]	4/5/12 0745

Christi Parker Ana-Lab

ANA LAB CORP.
THE COMPLETE SERVICE LAB

566334 CoC Print Group 001 of 001

Lone Star Overnight

Airbill No. ZN541431

Lone Star Overnight
800.800.8984
www.lso.com

To: SAMPLE RECEIVING
ANA LAB CORPORATION
2600 DUDLEY RD
KILGORE, TX 75662
(903) 984 - 0551

From: PACE ANALYTICAL
PACE ANALYTICAL
400 W. BETHANY RD
#190
ALLEN, TX 75013
(972) 727 - 1123

2.1
8

Service Type: Ground
1D00V

GGG

Ground

QuickCode: ANA LAB
Date Printed: 4/4/2012
Billing Ref 1:

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned.

Shipping Instructions

1. Fold this page along the horizontal line above.
2. Place this Airbill in the shipping label pouch on the package you are shipping. Please be sure the barcodes and addresses can be read and scanned.
3. To locate a drop box near you, click on **Find Drop Box** from the home page main menu.
4. To schedule a pickup, click on **Request Pickup**

WARNING: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your Lone Star Overnight account number.
LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES OR RESIDENTIAL DELIVERIES.

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663 Rec 4/14/12

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Analytical Results

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Report Table of Contents

Account	*Project*
PAS5 -N	**566334**

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
566334_r00_00__TRRPcover	Ana-Lab Project P:566334 C:PAS5 TRRP Project Report Cover Page	1
566334_r01_07_CoolerReview	Ana-Lab Project P:566334 Project Cooler Review Report	1
566334_r01_08_ProjectBottleReview	Ana-Lab Project P:566334 Project Bottle Review Report	2
566334_r02_01_ProjectSamples	Ana-Lab Project P:566334 C:PAS5 Project Sample Cross Reference	1
566334_r02_03_ProjectPrep	Ana-Lab Project P:566334 C:PAS5 Project Preparation And QCgroup (Set) Listings	1
566334_r03_01_ProjectHold	Ana-Lab Project P:566334 C:PAS5 Project Holding Time Compliance	1
566334_r03_03_ProjectResults	Ana-Lab Project P:566334 C:PAS5 Project Results	2
566334_r03_06_M_ProjectTRRP	Ana-Lab Project P:566334 C:PAS5 Project TRRP Results Report for Class M	2
566334_r10_05_ProjectQC_SW-846 60	Ana-Lab Project P:566334 C:PAS5 Project Quality Control Groups _SW-846 6010B	1
566334_r99_09_CoC__1_of_1	Ana-Lab CoC PAS5 566334_1_of_1	2
566334_SETQA_471375_471867	Ana-Lab Project P:566334 C:PAS5 Project Quality Control TRRP-13 Check Lists 471375_471867	2

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

Employee Owned Integrity Caring Continual Improvement

Analytical Results

Report Table of Contents

Account	Project
PAS5 -N	566334

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Total Pages: 16

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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Cooler Review

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 566334

AQUEOUS

Receipt	Cooler	Air Bill	Date Recvd	By
0000000002	**17709**	pace lsZN541431	04/05/2012	KAT

1. Was the cooler received intact and sealed. If no, notify client.	Yes
2. Was the cooler screened following the Radiochemistry survey procedure.	Yes
2a. Was the survey result negative. If no, notify the client.	Yes
2b. Are any of the samples identified by the client as radioactive.	No
2c. If radioactive, did the client provide RAD Activity	N/A
3. Were chain of custody documents included.	Yes
4. Was the cooler temperature checked.	Yes
5. Was cooler temperature within specifications (less than or equal to 6 C).	Yes
6. Is temperature documented on the Chain of Custody.	Yes
7. Lab has resources for these services (testing capability, available personnel, and can meet requested TAT). If no, notify client.	Yes
8. Cooler Seal Attached	Yes
9. Other Comments	N/A

N/R: Not Reviewed N/A: Not Applicable * Out

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Bottle Review

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 566334

AQUEOUS

Receipt	Cooler	Air Bill	Received	By
17709	**0000000002**	pace lsZN541431	04/05/2012	KAT

Sample	Bottle	Barcode	Description
1111067	***01***	*000000000277*	***Client supplied HNO3 to pH <2***

1.Was the sample container properly labeled.	Yes
2. Was the proper sample container type received.	Yes
3. Does the bottle label indicate that proper chemical preservatives were added if required.	Yes
3a. If preserved, was the sample bottle (except VOC Vials, 1005 Vials and FC bottles) at the proper pH.	Yes
3b. If no, was the sample's pH adjusted (except VOC Vials, 1005 Vials & FC Bottles) and the changes in pH recorded.	N/A
4. If the bottle was a VOC vial, was it free of headspace.	N/A
5. Was the bottle received intact.	Yes
6. Was the sample received within holding time. If no, notify the client.	Yes
7. Was the chain of custody documents completed correctly. (Ink, signed, matches container)	Yes
8. Bottle Seals Attached	N/R

Sample	Bottle	Barcode	Description
1111068	***01***	*000000000277*	***Client supplied HNO3 to pH <2***

1.Was the sample container properly labeled.	Yes
2. Was the proper sample container type received.	Yes
3. Does the bottle label indicate that proper chemical preservatives were added if required.	Yes
3a. If preserved, was the sample bottle (except VOC Vials, 1005 Vials and FC bottles) at the proper pH.	Yes
3b. If no, was the sample's pH adjusted (except VOC Vials, 1005 Vials & FC Bottles) and the changes in pH recorded.	N/A
4. If the bottle was a VOC vial, was it free of headspace.	N/A
5. Was the bottle received intact.	Yes

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Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Bottle Review

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 566334

AQUEOUS

Receipt	Cooler	Air Bill	Received	By
17709	**0000000002**	pace lsZN541431	04/05/2012	KAT

Sample	Bottle	Barcode	Description

6. Was the sample received within holding time. If no, notify the client.	Yes
7. Was the chain of custody documents completed correctly. (Ink, signed, matches container)	Yes
8. Bottle Seals Attached	N/R

N/R: Not Reviewed N/A: Not Applicable * Out

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

Employee Owned Integrity Caring Continual Improvement

ANA-LAB CORP. THE COMPLETE SERVICE LAB

Sample Cross Reference

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 566334

AQUEOUS

Sample	Sample ID	Taken	Time	Received
1111067	*1204039-01*	04/03/2012	10:21:00	04/05/2012

Bottle 01 Client supplied HNO3 to pH <2
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 471375) Volume: 50.00000 mL <== Derived from 01 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SW-846 6010B	02	471375	04/06/2012	471867	04/11/2012

1111068	*1204039-02*	04/03/2012	11:26:00	04/05/2012

Bottle 01 Client supplied HNO3 to pH <2
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 471375) Volume: 50.00000 mL <== Derived from 01 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SW-846 6010B	02	471375	04/06/2012	471867	04/11/2012

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 756633

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Sample Preparation

04/12/2012 Page 1 of 1

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project

566334

Default

Prep Set # **471375** 04/06/2012

Analytical Set # **471867** **SW-846 6010B** 04/11/2012

Sample	Sample ID	Bottle
1111067	1204039-01	02
1111068	1204039-02	02

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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Holding Time Compliance

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 566334

AQUEOUS

Name	Method	Taken:	Received	Analyzed	Hold	Elapsed
1111067		**4/3/12 10:21**	04/05/2012			
Sulfur	SW-846 6010B			4/11/12 14:33	180.00	8.00
Liquid Metals Digestion	EPA 200.2 2.8			4/6/12 13:00	180.00	3.00
1111068		**4/3/12 11:26**	04/05/2012			
Sulfur	SW-846 6010B			4/11/12 14:36	180.00	8.00
Liquid Metals Digestion	EPA 200.2 2.8			4/6/12 13:00	180.00	3.00

CHAIN OF CUSTODY RECORD

MODERN GEOSCIENCES

Laboratory: Fermi/Pace
Address: Allen TX

Office Location: 1904 Industrial Blvd. #105 Colleyville TX
Contact: Shelly Connelly
Phone: (972) 727-1123
Project Manager: Kenneth Tramm
PO/SO #:
Sampler's Name: J J Hollingshead
Sampler's Signature: J J Hollingshead
Project No.: DFW12028
Project Name: Colleyville Water Resampling

Page 1 of 1

Turn around time:
☒ Normal ☐ 25% Rush
☐ 50% Rush ☐ 100% Rush

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

ANALYSIS REQUESTED: See Attached list

See Attached list for Analysis requested

Matrix	Date	Time	Comp	Grab	Sample ID:	No./Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	See Attached list	Lab Sample ID
W	4/25/12	1400		X	WWE	X			X	X	1204629-01

NFE

Relinquished by (signature):	Date / Time:	Received by (signature):	Date / Time:
J J Hollingshead	4/25/12; 1531	Le Cu/G	4.25.12/3:31
Le Cu/G	4-25-12/ 16:47	Kathy Ullum/Pace	4-25-12-1647

Notes:

E-mail results to: ktramm@modernGeosciences.com
jhollingshead@modernGeosciences.com

Matrix: WW - Wastewater, W - Water, S- Soil, SD - Solid, L - Liquid, A - Air Sample, C - Charcoal Tube, SL - Sludge, O - Oil
Container: VOA - 40 ml vial, A/G - Amber / or Glass 1 Liter, 250 ml - Glass Wide Mouth, P/O - Plastic or other _____

WHITE - LABORATORY
YELLOW - RETAINED COPY

1204629

Analyte	Method	Container Size, Notes on Sampling/Preservation
VOC	EPA 8260B	3 - 40ml w/HCL voas for 8260 [Green Cap]
TPH	TX 1005	3 - 40ml w/HCL preweighed voas for TPH-1005 [Red Cap]
Methane, Ethane, and Ethene	RSK 175	3 - 30ml voas w/silver screw cap for RSK-175 [Silver Cap]
Methanol	8015B	3 - 40ml unpreserved voas for Methanol [White Cap]
Glycols	8015B	1 - 1L amber glass unpreserved for Glycols
Oil and Grease	EPA9070A	1 - 1L clear glass w/H2SO4 for O&G
TSS	SM2540D	1 - 1000ml unpreserved plastic for TSS
Hexavalent Chromium	7196A	1 - 1000ml unpreserved plastic for Alk, Cl, Cr+6, MBAS, pH, Cond, SO4, TDS, Turbidity
TDS	SM2540C	
Chloride	EPA 9056A	
Sulfate	EPA 9056A	
pH	SM4500H+B	
Bicarbonate Alkalinity	SM2320B	
Conductivity	EPA 9050A	
Turbidity	EPA 180.1	
Methylene Blue Active Substances	SM5540C	
Sulfur	EPA 6010B	1 - 500ml plastic w/HNO3 for Sulfur
RCRA 8 (As, Ba, Cd, Cr, Pb, Hg*, Se,Ag)	EPA 6010B	1 - 500ml plastic w/HNO3 for Total Metals
Calcium	EPA 6010B	
Iron	EPA 6010B	
Magnesium	EPA 6010B	
Manganese	EPA 6010B	
Potassium	EPA 6010B	
Sodium	EPA 6010B	
Strontium	EPA 6010B	
*Mercury- EPA 7470A		

1204629

Falcon X-Press We Deliver

P.O. BOX 940303
PLANO, TX 75094-0303
(972) 881-7577

NOTARY SERVICE AVAILABLE

No.

SHIPPER	NAME: MODERN GEOSCIENCES		DATE: 4-25-12
	ADDRESS: 1904 INDUSTRIAL	SUITE	
	CITY: COLLEYVILLE TX		
	REFERENCE NO.		
CONSIGNEE	NAME: PACE		
	ADDRESS: 400 W Bethany	SUITE	
	CITY: ALLEN TX		
	ATTN:		

Falcon Charges	Type of Delivery
☐ PREPAID	☐ X-Press
☐ COLLECT	☐ 2 HOUR
☐ ROUND TRIP	☐ 4 HOUR
☐ NIGHT-WEEKEND	☐ NEXT DAY

DESCRIPTION AND REMARKS	WEIGHT	CHARGES	
SAMPLE		WEIGHT CHARGE	
		WAITING TIME CHG	
		DELIVERY CHARGE	
		TOTAL CHARGES	

ONSIBLE FOR FREIGHT CLAIMS AFTER 72 HRS. NOT RESPONSIBLE FOR D DAMAGE, DUE AND PAYABLE PLANO, COLLIN COUNTY, TEXAS

$50 DECLARED VALUE UNLESS SPECIFIED HERE $

E & NO.	DRIVER NAME & NO.	TIME OF DEL.	RECEIVED BY	RECEIVED BY
OUNT	McLAUGHLIN	11:47	X Kathy Wilson	X Kathy Wilson

MODERN GEOSCIENCES
CUSTODY SEAL CUSTODY SEAL CUSTODY SEAL
1446 Initials: JH

MODERN GEOSCIENCES
CUSTODY SEAL CUSTODY SEAL
Date / Time Sealed: 4/25/12

Lab Number(s): 1204629

ERMI

Sample Preservation Documentation*

On Ice (Circle One): YES OR NO (check if on Dry Ice_____)

Parameters	Containers #	Containers Size	Required Preservation	Sample Container	Circle pH Note any discrepancy
Metals * sulfur	2	500 ml	pH < 2	Glass or Plastic	pH < 2
Dissolved Metals			Unpreserved prior to being filtered, Cool**	Glass or Plastic	
Hexavalent Chromium			CWA - pH 9.3-9.7, Cool; RCRA - Cool	Glass or Plastic	Checked At Analysis
Semivolatiles, Pesticides, PCBs, Herbicides			Cool	Glass only with Teflon lid	Chlorine ☐yes ☐no
VOA (BTEX, MTBE, 624, 8260, TPH-GRO) methanol	6	40 ml	Cool, pH < 2 Zero Head Space	40 ml VOA vial	DO NOT OPEN
VOA (TPH-1005)	3	40 ml	Cool, Zero Head Space Please check if collected in pre-weighed vials ✓	40 ml VOA vial	DO NOT OPEN
Phos., NO_3/NO_2, NH_3N, COD, TKN,TOC			Cool, pH < 2	Glass or Plastic	pH < 2
TDS, BOD, ortho, Fluo, CBOD, Cond, pH, TSS, F, SO_4, Cl, Alk, Sulfite NO2	2	1000 ml	Cool	Glass or Plastic, Plastic only if F	
Phenols, TPH-DRO			Cool, pH < 2	Glass only Teflon lid____ Foil lid_____	pH < 2
Oil & Grease, TPH (by 1664a)	1	1L	Cool, pH < 2	Glass only Teflon lid ✓ Foil lid_____	DO NOT Check pH
Cyanide			Cool, pH >12	Glass or Plastic	pH > 12 Chlorine ☐yes ☐no Sulfide ☐yes ☐no ☐na
Sulfide			Cool, pH > 9	Glass or Plastic	pH > 9
Bacteria			Cool	Plastic Sterile Cup	
Soil, Sludge, Solid, Oil, Liquid	1 / *3	1L / other	Cool Note: please check if collected in pre-weighed vials_____	glass	

Metals Preserved By Login ☐yes ☐no Trip Blanks Received ☐yes ☐no

* COMMENTS: sub out for RSK 175
** sub out for sulfur

*This form is used to document sample preservation. Circle parameter requested. Fill in number and size of containers received. Check pH (adjust if needed) and note if different from what is required and make a notation of any samples not received on ice. Note any incorrect sample containers or preservation on chain-of-custody.
**Cool means cooled to ≤6°C but not frozen.

Preservation Checked By _____ 9-26-12 Date 0952 Time

1000.0-3.2 2/17/09 MM

kdy 7/10/08
Q:\Form Masters\1000.0-3.2 Sample Preservation Form

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

PACE Analytical Services, Inc. certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
1204629-01	WW-E	Aqueous	04/25/12 14:00	04/25/12 16:47

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Shelly Connelly

Shelly Connelly
Client Services Manager

Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10388
Texas: T104704232-11-3

Pace Analytical Services, Inc.
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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Laboratory ID #: 1204629-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-E
Sample Date/Time: 04/25/12 1400

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Methanol, EPA 8015B mod										
Methanol	**ND**	2.84	10	mg/l	1.00	V5	2E02069	05/02/12 1523	TA	
Glycols, EPA 8015B mod										
Ethylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2E01064	05/01/12 1702	TA	
Propylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2E01064	05/01/12 1702	TA	

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Laboratory ID #: 1204629-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-E
Sample Date/Time: 04/25/12 1400

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B										
Benzene	**ND**	0.000620	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Bromobenzene	**ND**	0.000750	0.003	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Bromochloromethane	**ND**	0.000520	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Bromodichloromethane	**ND**	0.000330	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Bromoform (Tribromomethane)	**ND**	0.000690	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Bromomethane (Methyl Bromide)	**ND**	0.000560	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
n-Butylbenzene	**ND**	0.000680	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
sec-Butylbenzene	**ND**	0.000890	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
tert-Butylbenzene	**ND**	0.000350	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Carbon Tetrachloride	**ND**	0.00147	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Chlorobenzene	**ND**	0.000530	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Chloroethane (Ethyl Chloride)	**ND**	0.000560	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Chloroform	**ND**	0.000510	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Chloromethane (Methyl Chloride)	**ND**	0.00167	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
2-Chlorotoluene	**ND**	0.000330	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
4-Chlorotoluene	**ND**	0.000550	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Dibromochloromethane (Chlorodibromo...)	**ND**	0.000470	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.000980	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.000400	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,2-Dichlorobenzene	**ND**	0.000350	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,3-Dichlorobenzene	**ND**	0.000390	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,4-Dichlorobenzene	**ND**	0.000380	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Dichlorodifluoromethane	**ND**	0.000580	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,1-Dichloroethane	**ND**	0.000570	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.000400	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.000370	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
cis-1,2-Dichloroethene	**ND**	0.000450	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
trans-1,2-Dichloroethene	**ND**	0.000920	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Laboratory ID #: 1204629-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-E
Sample Date/Time: 04/25/12 1400

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.000360	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,3-Dichloropropane	**ND**	0.000700	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
2,2-Dichloropropane	**ND**	0.00126	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,1-Dichloropropene	**ND**	0.00105	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Ethyl Benzene	**ND**	0.000670	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Hexachlorobutadiene	**ND**	0.000960	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Isopropylbenzene (Cumene)	**ND**	0.00108	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
p-Isopropyltoluene	**ND**	0.000390	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Methyl tert butyl ether (MTBE)	**ND**	0.000370	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Methylene Bromide (Dibromomethane)	**ND**	0.000500	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Methylene Chloride (Dichloromethane)	**ND**	0.00300	0.003	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Naphthalene	**ND**	0.00100	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
n-Propylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Styrene	**ND**	0.00114	0.003	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	Q-21
1,1,1,2-Tetrachloroethane	**ND**	0.000860	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,1,2,2-Tetrachloroethane	**ND**	0.000400	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Tetrachloroethene (Perchloroethylene)	**ND**	0.00141	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Toluene	**ND**	0.000540	0.003	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,2,3-Trichlorobenzene	**ND**	0.000960	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,2,4-Trichlorobenzene	**ND**	0.000900	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.000980	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,1,2-Trichloroethane	**ND**	0.000550	0.003	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Trichloroethene (Trichloroethylene)	**ND**	0.000390	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Trichlorofluoromethane	**ND**	0.000440	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,2,3-Trichloropropane	**ND**	0.000600	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,2,4-Trimethylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
1,3,5-Trimethylbenzene	**ND**	0.000330	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	
Vinyl Chloride	**ND**	0.000450	0.002	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Laboratory ID #: 1204629-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-E
Sample Date/Time: 04/25/12 1400

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
Xylenes (total)	**ND**	0.00154	0.004	mg/l	1.00	V3	2D26056	04/26/12 1850	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*0.0481 mg/l*	*0.0500 mg/l*	*96 %*	*19-168*
4-Bromofluorobenzene (EPA 8260B)	*0.0522 mg/l*	*0.0500 mg/l*	*104 %*	*18-171*
1,2-Dichloroethane-d4 (EPA 8260B)	*0.0480 mg/l*	*0.0500 mg/l*	*96 %*	*18-175*

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, 7196A										
Hexavalent Chromium	**ND**	0.005	0.005	mg/l	1.00	SB	2D26039	04/26/12 1040	BLF	
Conventional Chemistry Parameters, EPA 180.1 Rev2.0										
Turbidity	**8.3**	0.50	0.5	NTU	1.00	O1	2D26054	04/26/12 1140	BAF	
Conventional Chemistry Parameters, EPA 9050A										
Conductivity @ 25°C	**329**	1.00	1	uS/cm	1.00	Y1	2D30040	04/30/12 0930	BLF	
Conventional Chemistry Parameters, EPA 9056A										
Chloride (Total)	**17.5**	0.050	0.1	mg/l	10.00	I2	2D26059	04/26/12 1923	MDG	R-01
Sulfate (Total) as SO4	**11.7**	0.360	0.1	mg/l	10.00	I2	2D26059	04/26/12 1923	MDG	R-01
Conventional Chemistry Parameters, EPA 9070A										
Oil & Grease (HEM)	**ND**	1.00	2.6	mg/l	1.11	W3	2D27020	04/30/12 1200	XY	
Conventional Chemistry Parameters, SM 2320B										
Bicarbonate Alkalinity	**124**	20.0	20	mg CaCO3/l	1.00	IA3	2E01039	05/01/12 0758	BLF	
Conventional Chemistry Parameters, SM2540C										
Total Dissolved Solids	**180**	5.07	25	mg/l	1.00	W3	2D30035	04/30/12 0714	BLF	
Conventional Chemistry Parameters, SM2540D										
Total Suspended Solids	**5.70**	2.50	2.5	mg/l	1.00	Proweig	2D27026	04/27/12 1113	BLF	

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Laboratory ID #: 1204629-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-E
Sample Date/Time: 04/25/12 1400

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, SM4500H+B										
pH	**6.6**	0.1	0.1	pH Units	1.00	IA3	2D26053	04/26/12 1040	BAF	M-06a, S-06
Conventional Chemistry Parameters, SM5540C										
Methylene Blue Active Substances	**ND**	0.073	0.2	mg/l	1.00	SB	2D26057	04/26/12 1300	BAF	
Metals (Total), EPA 3010A										
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB2	2D30051	04/30/12 1157	RLC	
Metals (Total), EPA 6010B										
Arsenic	**ND**	0.010	0.01	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Barium	**0.006**	0.0002	0.0008	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Cadmium	**ND**	0.0003	0.001	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Calcium	**20.3**	0.11	0.5	mg/l	1.00	M4	2D30051	05/01/12 1258	SPS	
Chromium	**ND**	0.001	0.002	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Iron	**2.72**	0.01	0.1	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Lead	**0.012**	0.001	0.0025	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Magnesium	**5.77**	0.020	0.02	mg/l	1.00	M4	2D30051	05/01/12 1258	SPS	
Manganese	**0.118**	0.003	0.0026	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Potassium	**2.02**	0.217	0.5	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Selenium	**ND**	0.003	0.005	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Silver	**ND**	0.001	0.002	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Sodium	**41.3**	0.17	0.5	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Strontium	**0.515**	0.0003	0.001	mg/l	1.00	M4	2D30051	04/30/12 2356	SPS	
Metals (Total), EPA 7470A										
Mercury	**ND**	0.00004	0.0002	mg/l	1.00	M6	2D26046	04/27/12 1531	RLC	

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Sample Description: WW-E
Sample Date/Time: 04/25/12 1400

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Total Petroleum Hydrocarbons Rev. 3, TX-1005										
TPH 1005 Extraction	**Completed**	N/A	N/A	N/A	0.88		2D27031	04/27/12 1345	PMS	
TPH (C6-C12)	**ND**	0.525	1.2	mg/l	0.88	P7	2D27031	04/28/12 0406	PMS	
TPH (>C12-C28)	**ND**	0.202	0.52	mg/l	0.88	P7	2D27031	04/28/12 0406	PMS	
TPH (>C28-C35)	**ND**	0.060	0.6	mg/l	0.88	P7	2D27031	04/28/12 0406	PMS	
TPH (C6-C35)	**ND**	0.774	2	mg/l	0.88	P7	2D27031	04/28/12 0406	PMS	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
1-Chlorooctane (TX-1005)	*25.8 mg/l*	*22.1 mg/l*	*117 %*	*70-130*
o-Terphenyl (TX-1005)	*25.9 mg/l*	*22.1 mg/l*	*117 %*	*70-130*

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Methanol - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E02069-BLK1)										
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 14:13										
Methanol	**ND**	2.84	mg/l							
Laboratory Control Sample (2E02069-BS1)										
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 14:27										
Methanol	**95.5**	2.84	mg/l	100		95	58-133			
Laboratory Control Sample Duplicate (2E02069-BSD1)										
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 14:41										
Methanol	**98.0**	2.84	mg/l	100		98	58-133	3	28	
Matrix Spike (2E02069-MS1)					**Source: 1204629-01**					
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 14:55										
Methanol	**127**	2.84	mg/l	100	ND	127	37-140			
Matrix Spike Duplicate (2E02069-MSD1)					**Source: 1204629-01**					
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 15:09										
Methanol	**117**	2.84	mg/l	100	ND	117	37-140	8	40	

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Glycols - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E01064-BLK1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 15:23										
Ethylene Glycol	**ND**	25.0	mg/l							
Propylene Glycol	**ND**	25.0	mg/l							
Laboratory Control Sample (2E01064-BS1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 15:40										
Ethylene Glycol	**99.2**	25.0	mg/l	100		99	10-140			
Propylene Glycol	**101**	25.0	mg/l	100		101	10-140			
Laboratory Control Sample Duplicate (2E01064-BSD1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 15:56										
Ethylene Glycol	**102**	25.0	mg/l	100		102	10-140	3	40	
Propylene Glycol	**99.3**	25.0	mg/l	100		99	10-140	1	40	
Matrix Spike (2E01064-MS1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 16:13					**Source: 1204629-01**					
Ethylene Glycol	**82.5**	25.0	mg/l	100	ND	83	10-140			
Propylene Glycol	**61.8**	25.0	mg/l	100	ND	62	10-140			
Matrix Spike Duplicate (2E01064-MSD1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 16:29					**Source: 1204629-01**					
Ethylene Glycol	**101**	25.0	mg/l	100	ND	101	10-140	20	40	
Propylene Glycol	**60.0**	25.0	mg/l	100	ND	60	10-140	3	30	

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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D26056-BLK1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 12:24										
Benzene	**ND**	0.0006	mg/l							
Bromobenzene	**ND**	0.0008	mg/l							
Bromochloromethane	**ND**	0.0005	mg/l							
Bromodichloromethane	**ND**	0.0003	mg/l							
Bromoform (Tribromomethane)	**ND**	0.0007	mg/l							
Bromomethane (Methyl Bromide)	**ND**	0.0006	mg/l							
n-Butylbenzene	**ND**	0.0007	mg/l							
sec-Butylbenzene	**ND**	0.0009	mg/l							
tert-Butylbenzene	**ND**	0.0004	mg/l							
Carbon Tetrachloride	**ND**	0.001	mg/l							
Chlorobenzene	**ND**	0.0005	mg/l							
Chloroethane (Ethyl Chloride)	**ND**	0.0006	mg/l							
Chloroform	**ND**	0.0005	mg/l							
Chloromethane (Methyl Chloride)	**ND**	0.002	mg/l							
2-Chlorotoluene	**ND**	0.0003	mg/l							
4-Chlorotoluene	**ND**	0.0006	mg/l							
Dibromochloromethane (Chlorodibromo...)	**ND**	0.0005	mg/l							
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.001	mg/l							
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.0004	mg/l							
1,2-Dichlorobenzene	**ND**	0.0004	mg/l							
1,3-Dichlorobenzene	**ND**	0.0004	mg/l							
1,4-Dichlorobenzene	**ND**	0.0004	mg/l							
Dichlorodifluoromethane	**ND**	0.0006	mg/l							
1,1-Dichloroethane	**ND**	0.0006	mg/l							
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.0004	mg/l							
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.0004	mg/l							
cis-1,2-Dichloroethene	**ND**	0.0004	mg/l							
trans-1,2-Dichloroethene	**ND**	0.0009	mg/l							
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.0004	mg/l							
1,3-Dichloropropane	**ND**	0.0007	mg/l							
2,2-Dichloropropane	**ND**	0.001	mg/l							
1,1-Dichloropropene	**ND**	0.001	mg/l							

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D26056-BLK1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 12:24										
Ethyl Benzene	**ND**	0.0007	mg/l							
Hexachlorobutadiene	**ND**	0.001	mg/l							
Isopropylbenzene (Cumene)	**ND**	0.001	mg/l							
p-Isopropyltoluene	**ND**	0.0004	mg/l							
Methyl tert butyl ether (MTBE)	**ND**	0.0004	mg/l							
Methylene Bromide (Dibromomethane)	**ND**	0.0005	mg/l							
Methylene Chloride (Dichloromethane)	**ND**	0.003	mg/l							
Naphthalene	**ND**	0.001	mg/l							
n-Propylbenzene	**ND**	0.0008	mg/l							
Styrene	**ND**	0.001	mg/l							
1,1,1,2-Tetrachloroethane	**ND**	0.0009	mg/l							
1,1,2,2-Tetrachloroethane	**ND**	0.0004	mg/l							
Tetrachloroethene (Perchloroethylene)	**ND**	0.001	mg/l							
Toluene	**ND**	0.0005	mg/l							
1,2,3-Trichlorobenzene	**ND**	0.001	mg/l							
1,2,4-Trichlorobenzene	**ND**	0.0009	mg/l							
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.001	mg/l							
1,1,2-Trichloroethane	**ND**	0.0006	mg/l							
Trichloroethene (Trichloroethylene)	**ND**	0.0004	mg/l							
Trichlorofluoromethane	**ND**	0.0004	mg/l							
1,2,3-Trichloropropane	**ND**	0.0006	mg/l							
1,2,4-Trimethylbenzene	**ND**	0.0008	mg/l							
1,3,5-Trimethylbenzene	**ND**	0.0003	mg/l							
Vinyl Chloride	**ND**	0.0004	mg/l							
Xylenes (total)	**ND**	0.002	mg/l							
Surrogate: Toluene-d8	**0.0484**		mg/l	0.0500		97	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0513**		mg/l	0.0500		103	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0536**		mg/l	0.0500		107	18-175			

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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2D26056-BS1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 12:57										
Benzene	**0.021**	0.0006	mg/l	0.0200		103	80-125			
Bromobenzene	**0.020**	0.0008	mg/l	0.0200		98	77-127			
Bromochloromethane	**0.022**	0.0005	mg/l	0.0200		108	75-134			
Bromodichloromethane	**0.020**	0.0003	mg/l	0.0200		98	77-126			
Bromoform (Tribromomethane)	**0.019**	0.0007	mg/l	0.0200		97	73-116			
Bromomethane (Methyl Bromide)	**0.020**	0.0006	mg/l	0.0200		101	56-156			
n-Butylbenzene	**0.021**	0.0007	mg/l	0.0200		104	72-137			
sec-Butylbenzene	**0.020**	0.0009	mg/l	0.0200		99	79-130			
tert-Butylbenzene	**0.019**	0.0004	mg/l	0.0200		96	81-125			
Carbon Tetrachloride	**0.020**	0.001	mg/l	0.0200		98	76-126			
Chlorobenzene	**0.021**	0.0005	mg/l	0.0200		105	82-122			
Chloroethane (Ethyl Chloride)	**0.020**	0.0006	mg/l	0.0200		98	71-140			
Chloroform	**0.022**	0.0005	mg/l	0.0200		108	71-134			
Chloromethane (Methyl Chloride)	**0.021**	0.002	mg/l	0.0200		107	68-139			
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200		103	78-128			
4-Chlorotoluene	**0.021**	0.0006	mg/l	0.0200		107	75-131			
Dibromochloromethane (Chlorodibromo...)	**0.020**	0.0005	mg/l	0.0200		101	77-120			
1,2-Dibromo-3-chloropropane (DBCP)	**0.018**	0.001	mg/l	0.0200		90	66-126			
1,2-Dibromoethane (Ethylene Dibromide)	**0.020**	0.0004	mg/l	0.0200		100	80-124			
1,2-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		98	77-126			
1,3-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200		103	77-128			
1,4-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200		104	78-127			
Dichlorodifluoromethane	**0.023**	0.0006	mg/l	0.0200		115	54-156			
1,1-Dichloroethane	**0.021**	0.0006	mg/l	0.0200		106	78-133			
1,2-Dichloroethane (Ethylene Dichloride)	**0.021**	0.0004	mg/l	0.0200		105	72-139			
1,1-Dichloroethene (Vinylidene Chloride)	**0.021**	0.0004	mg/l	0.0200		104	75-136			
cis-1,2-Dichloroethene	**0.020**	0.0004	mg/l	0.0200		102	75-132			
trans-1,2-Dichloroethene	**0.022**	0.0009	mg/l	0.0200		112	77-134			
1,2-Dichloropropane (Propylene Dichloride)	**0.021**	0.0004	mg/l	0.0200		104	80-125			
1,3-Dichloropropane	**0.020**	0.0007	mg/l	0.0200		98	78-126			
2,2-Dichloropropane	**0.023**	0.001	mg/l	0.0200		114	68-142			
1,1-Dichloropropene	**0.019**	0.001	mg/l	0.0200		97	76-125			

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2D26056-BS1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 12:57										
Ethyl Benzene	**0.021**	0.0007	mg/l	0.0200		105	79-127			
Hexachlorobutadiene	**0.020**	0.001	mg/l	0.0200		101	77-125			
Isopropylbenzene (Cumene)	**0.019**	0.001	mg/l	0.0200		97	81-128			
p-Isopropyltoluene	**0.020**	0.0004	mg/l	0.0200		101	78-131			
Methyl tert butyl ether (MTBE)	**0.021**	0.0004	mg/l	0.0200		106	75-126			
Methylene Bromide (Dibromomethane)	**0.020**	0.0005	mg/l	0.0200		101	79-125			
Methylene Chloride (Dichloromethane)	**0.017**	0.003	mg/l	0.0200		86	62-151			
Naphthalene	**0.019**	0.001	mg/l	0.0200		93	71-125			
n-Propylbenzene	**0.020**	0.0008	mg/l	0.0200		100	77-131			
Styrene	**0.020**	0.001	mg/l	0.0200		99	77-125			
1,1,1,2-Tetrachloroethane	**0.021**	0.0009	mg/l	0.0200		104	80-122			
1,1,2,2-Tetrachloroethane	**0.019**	0.0004	mg/l	0.0200		93	71-131			
Tetrachloroethene (Perchloroethylene)	**0.021**	0.001	mg/l	0.0200		107	73-126			
Toluene	**0.019**	0.0005	mg/l	0.0200		97	78-126			
1,2,3-Trichlorobenzene	**0.020**	0.001	mg/l	0.0200		100	74-126			
1,2,4-Trichlorobenzene	**0.022**	0.0009	mg/l	0.0200		107	72-131			
1,1,1-Trichloroethane (Methyl Chloroform)	**0.021**	0.001	mg/l	0.0200		103	78-129			
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200		97	75-124			
Trichloroethene (Trichloroethylene)	**0.019**	0.0004	mg/l	0.0200		97	78-126			
Trichlorofluoromethane	**0.020**	0.0004	mg/l	0.0200		101	70-142			
1,2,3-Trichloropropane	**0.020**	0.0006	mg/l	0.0200		98	73-127			
1,2,4-Trimethylbenzene	**0.020**	0.0008	mg/l	0.0200		98	78-129			
1,3,5-Trimethylbenzene	**0.020**	0.0003	mg/l	0.0200		99	79-128			
Vinyl Chloride	**0.020**	0.0004	mg/l	0.0200		103	65-141			
Xylenes (total)	**0.064**	0.002	mg/l	0.0600		106	81-126			
Surrogate: Toluene-d8	**0.0484**		mg/l	0.0500		97	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0493**		mg/l	0.0500		99	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0504**		mg/l	0.0500		101	18-175			

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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2D26056-BSD1) Prepared: 04/26/12 12:13 Analyzed: 04/26/12 13:31										
Benzene	**0.021**	0.0006	mg/l	0.0200		106	80-125	2	11	
Bromobenzene	**0.020**	0.0008	mg/l	0.0200		101	77-127	3	12	
Bromochloromethane	**0.022**	0.0005	mg/l	0.0200		108	75-134	0.05	15	
Bromodichloromethane	**0.020**	0.0003	mg/l	0.0200		101	77-126	2	12	
Bromoform (Tribromomethane)	**0.020**	0.0007	mg/l	0.0200		100	73-116	3	13	
Bromomethane (Methyl Bromide)	**0.024**	0.0006	mg/l	0.0200		119	56-156	16	24	
n-Butylbenzene	**0.021**	0.0007	mg/l	0.0200		106	72-137	2	15	
sec-Butylbenzene	**0.020**	0.0009	mg/l	0.0200		100	79-130	1	12	
tert-Butylbenzene	**0.020**	0.0004	mg/l	0.0200		101	81-125	4	11	
Carbon Tetrachloride	**0.021**	0.001	mg/l	0.0200		104	76-126	6	10	
Chlorobenzene	**0.021**	0.0005	mg/l	0.0200		105	82-122	0.4	10	
Chloroethane (Ethyl Chloride)	**0.022**	0.0006	mg/l	0.0200		109	71-140	10	13	
Chloroform	**0.022**	0.0005	mg/l	0.0200		109	71-134	1	13	
Chloromethane (Methyl Chloride)	**0.023**	0.002	mg/l	0.0200		115	68-139	7	18	
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200		106	78-128	3	11	
4-Chlorotoluene	**0.022**	0.0006	mg/l	0.0200		110	75-131	3	11	
Dibromochloromethane (Chlorodibromo...)	**0.020**	0.0005	mg/l	0.0200		103	77-120	1	11	
1,2-Dibromo-3-chloropropane (DBCP)	**0.020**	0.001	mg/l	0.0200		98	66-126	8	19	
1,2-Dibromoethane (Ethylene Dibromide)	**0.020**	0.0004	mg/l	0.0200		102	80-124	3	13	
1,2-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200		104	77-126	5	13	
1,3-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200		107	77-128	4	12	
1,4-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200		109	78-127	5	12	
Dichlorodifluoromethane	**0.024**	0.0006	mg/l	0.0200		123	54-156	6	15	
1,1-Dichloroethane	**0.022**	0.0006	mg/l	0.0200		110	78-133	3	13	
1,2-Dichloroethane (Ethylene Dichloride)	**0.022**	0.0004	mg/l	0.0200		109	72-139	4	17	
1,1-Dichloroethene (Vinylidene Chloride)	**0.022**	0.0004	mg/l	0.0200		108	75-136	4	12	
cis-1,2-Dichloroethene	**0.022**	0.0004	mg/l	0.0200		110	75-132	8	11	
trans-1,2-Dichloroethene	**0.022**	0.0009	mg/l	0.0200		111	77-134	0.9	13	
1,2-Dichloropropane (Propylene Dichloride)	**0.021**	0.0004	mg/l	0.0200		107	80-125	3	10	
1,3-Dichloropropane	**0.020**	0.0007	mg/l	0.0200		103	78-126	4	12	
2,2-Dichloropropane	**0.023**	0.001	mg/l	0.0200		117	68-142	3	13	
1,1-Dichloropropene	**0.020**	0.001	mg/l	0.0200		102	76-125	5	12	

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2D26056-BSD1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 13:31										
Ethyl Benzene	**0.022**	0.0007	mg/l	0.0200		111	79-127	5	11	
Hexachlorobutadiene	**0.021**	0.001	mg/l	0.0200		105	77-125	4	14	
Isopropylbenzene (Cumene)	**0.020**	0.001	mg/l	0.0200		101	81-128	4	10	
p-Isopropyltoluene	**0.021**	0.0004	mg/l	0.0200		104	78-131	3	12	
Methyl tert butyl ether (MTBE)	**0.022**	0.0004	mg/l	0.0200		110	75-126	4	14	
Methylene Bromide (Dibromomethane)	**0.020**	0.0005	mg/l	0.0200		99	79-125	1	12	
Methylene Chloride (Dichloromethane)	**0.019**	0.003	mg/l	0.0200		96	62-151	11	16	
Naphthalene	**0.020**	0.001	mg/l	0.0200		99	71-125	6	19	
n-Propylbenzene	**0.020**	0.0008	mg/l	0.0200		102	77-131	2	11	
Styrene	**0.021**	0.001	mg/l	0.0200		103	77-125	4	14	
1,1,1,2-Tetrachloroethane	**0.021**	0.0009	mg/l	0.0200		105	80-122	1	12	
1,1,2,2-Tetrachloroethane	**0.019**	0.0004	mg/l	0.0200		95	71-131	2	15	
Tetrachloroethene (Perchloroethylene)	**0.022**	0.001	mg/l	0.0200		109	73-126	2	11	
Toluene	**0.021**	0.0005	mg/l	0.0200		103	78-126	6	10	
1,2,3-Trichlorobenzene	**0.021**	0.001	mg/l	0.0200		107	74-126	6	16	
1,2,4-Trichlorobenzene	**0.022**	0.0009	mg/l	0.0200		110	72-131	2	14	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.022**	0.001	mg/l	0.0200		108	78-129	5	11	
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200		101	75-124	4	12	
Trichloroethene (Trichloroethylene)	**0.020**	0.0004	mg/l	0.0200		101	78-126	5	11	
Trichlorofluoromethane	**0.019**	0.0004	mg/l	0.0200		96	70-142	5	12	
1,2,3-Trichloropropane	**0.019**	0.0006	mg/l	0.0200		97	73-127	2	15	
1,2,4-Trimethylbenzene	**0.020**	0.0008	mg/l	0.0200		101	78-129	3	12	
1,3,5-Trimethylbenzene	**0.020**	0.0003	mg/l	0.0200		101	79-128	2	11	
Vinyl Chloride	**0.021**	0.0004	mg/l	0.0200		107	65-141	4	22	
Xylenes (total)	**0.065**	0.002	mg/l	0.0600		108	81-126	2	11	
Surrogate: Toluene-d8	**0.0491**		mg/l	0.0500		98	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0494**		mg/l	0.0500		99	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0510**		mg/l	0.0500		102	18-175			

Pace Analytical Services, Inc.
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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2D26056-MS1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 17:10					**Source: 1204629-01**					
Benzene	**0.020**	0.0006	mg/l	0.0200	ND	100	74-127			
Bromobenzene	**0.020**	0.0008	mg/l	0.0200	ND	97	65-134			
Bromochloromethane	**0.020**	0.0005	mg/l	0.0200	ND	102	78-125			
Bromodichloromethane	**0.019**	0.0003	mg/l	0.0200	ND	97	63-133			
Bromoform (Tribromomethane)	**0.019**	0.0007	mg/l	0.0200	ND	95	63-123			
Bromomethane (Methyl Bromide)	**0.018**	0.0006	mg/l	0.0200	ND	91	38-159			
n-Butylbenzene	**0.020**	0.0007	mg/l	0.0200	ND	100	65-138			
sec-Butylbenzene	**0.019**	0.0009	mg/l	0.0200	ND	95	69-137			
tert-Butylbenzene	**0.020**	0.0004	mg/l	0.0200	ND	98	62-143			
Carbon Tetrachloride	**0.019**	0.001	mg/l	0.0200	ND	95	73-126			
Chlorobenzene	**0.020**	0.0005	mg/l	0.0200	ND	101	73-128			
Chloroethane (Ethyl Chloride)	**0.020**	0.0006	mg/l	0.0200	ND	100	69-141			
Chloroform	**0.020**	0.0005	mg/l	0.0200	ND	101	58-137			
Chloromethane (Methyl Chloride)	**0.017**	0.002	mg/l	0.0200	ND	87	64-139			
2-Chlorotoluene	**0.020**	0.0003	mg/l	0.0200	ND	101	68-136			
4-Chlorotoluene	**0.020**	0.0006	mg/l	0.0200	ND	100	68-135			
Dibromochloromethane (Chlorodibromo...)	**0.020**	0.0005	mg/l	0.0200	ND	99	66-128			
1,2-Dibromo-3-chloropropane (DBCP)	**0.018**	0.001	mg/l	0.0200	ND	89	59-134			
1,2-Dibromoethane (Ethylene Dibromide)	**0.020**	0.0004	mg/l	0.0200	ND	99	74-127			
1,2-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200	ND	98	68-133			
1,3-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	103	70-133			
1,4-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	104	71-132			
Dichlorodifluoromethane	**0.021**	0.0006	mg/l	0.0200	ND	105	38-170			
1,1-Dichloroethane	**0.020**	0.0006	mg/l	0.0200	ND	102	76-129			
1,2-Dichloroethane (Ethylene Dichloride)	**0.020**	0.0004	mg/l	0.0200	ND	99	73-130			
1,1-Dichloroethene (Vinylidene Chloride)	**0.019**	0.0004	mg/l	0.0200	ND	96	49-150			
cis-1,2-Dichloroethene	**0.020**	0.0004	mg/l	0.0200	ND	100	38-157			
trans-1,2-Dichloroethene	**0.021**	0.0009	mg/l	0.0200	ND	104	73-132			
1,2-Dichloropropane (Propylene Dichloride)	**0.021**	0.0004	mg/l	0.0200	ND	103	75-127			
1,3-Dichloropropane	**0.021**	0.0007	mg/l	0.0200	ND	103	71-129			
2,2-Dichloropropane	**0.021**	0.001	mg/l	0.0200	ND	104	73-130			
1,1-Dichloropropene	**0.020**	0.001	mg/l	0.0200	ND	98	73-126			

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2D26056-MS1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 17:10					**Source: 1204629-01**					
Ethyl Benzene	**0.020**	0.0007	mg/l	0.0200	ND	102	69-134			
Hexachlorobutadiene	**0.020**	0.001	mg/l	0.0200	ND	98	65-131			
Isopropylbenzene (Cumene)	**0.019**	0.001	mg/l	0.0200	ND	96	70-137			
p-Isopropyltoluene	**0.019**	0.0004	mg/l	0.0200	ND	95	68-138			
Methyl tert butyl ether (MTBE)	**0.020**	0.0004	mg/l	0.0200	ND	103	70-125			
Methylene Bromide (Dibromomethane)	**0.019**	0.0005	mg/l	0.0200	ND	95	76-125			
Methylene Chloride (Dichloromethane)	**0.018**	0.003	mg/l	0.0200	ND	91	23-171			
Naphthalene	**0.017**	0.001	mg/l	0.0200	ND	86	45-147			
n-Propylbenzene	**0.020**	0.0008	mg/l	0.0200	ND	97	69-136			
Styrene	**0.013**	0.001	mg/l	0.0200	ND	66	66-131			
1,1,1,2-Tetrachloroethane	**0.020**	0.0009	mg/l	0.0200	ND	102	73-126			
1,1,2,2-Tetrachloroethane	**0.018**	0.0004	mg/l	0.0200	ND	89	59-140			
Tetrachloroethene (Perchloroethylene)	**0.019**	0.001	mg/l	0.0200	ND	95	38-182			
Toluene	**0.019**	0.0005	mg/l	0.0200	ND	97	62-135			
1,2,3-Trichlorobenzene	**0.020**	0.001	mg/l	0.0200	ND	101	63-132			
1,2,4-Trichlorobenzene	**0.020**	0.0009	mg/l	0.0200	ND	102	65-134			
1,1,1-Trichloroethane (Methyl Chloroform)	**0.020**	0.001	mg/l	0.0200	ND	101	75-127			
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200	ND	98	66-131			
Trichloroethene (Trichloroethylene)	**0.019**	0.0004	mg/l	0.0200	ND	95	55-144			
Trichlorofluoromethane	**0.020**	0.0004	mg/l	0.0200	ND	98	70-138			
1,2,3-Trichloropropane	**0.018**	0.0006	mg/l	0.0200	ND	91	66-135			
1,2,4-Trimethylbenzene	**0.015**	0.0008	mg/l	0.0200	ND	77	66-138			
1,3,5-Trimethylbenzene	**0.016**	0.0003	mg/l	0.0200	ND	80	70-136			
Vinyl Chloride	**0.020**	0.0004	mg/l	0.0200	ND	101	50-153			
Xylenes (total)	**0.058**	0.002	mg/l	0.0600	ND	97	73-129			
Surrogate: Toluene-d8	**0.0488**		mg/l	0.0500		98	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0502**		mg/l	0.0500		100	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0481**		mg/l	0.0500		96	18-175			

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Project: Colleyville Water Resampling
Project #: DFW12028
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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D26056-MSD1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 17:43					**Source: 1204629-01**					
Benzene	**0.022**	0.0006	mg/l	0.0200	ND	109	74-127	8	18	
Bromobenzene	**0.021**	0.0008	mg/l	0.0200	ND	105	65-134	8	23	
Bromochloromethane	**0.022**	0.0005	mg/l	0.0200	ND	107	78-125	5	16	
Bromodichloromethane	**0.020**	0.0003	mg/l	0.0200	ND	101	63-133	4	18	
Bromoform (Tribromomethane)	**0.020**	0.0007	mg/l	0.0200	ND	101	63-123	5	18	
Bromomethane (Methyl Bromide)	**0.019**	0.0006	mg/l	0.0200	ND	94	38-159	3	22	
n-Butylbenzene	**0.021**	0.0007	mg/l	0.0200	ND	105	65-138	5	23	
sec-Butylbenzene	**0.020**	0.0009	mg/l	0.0200	ND	102	69-137	7	22	
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200	ND	107	62-143	8	23	
Carbon Tetrachloride	**0.020**	0.001	mg/l	0.0200	ND	100	73-126	5	18	
Chlorobenzene	**0.022**	0.0005	mg/l	0.0200	ND	110	73-128	9	18	
Chloroethane (Ethyl Chloride)	**0.021**	0.0006	mg/l	0.0200	ND	106	69-141	5	19	
Chloroform	**0.022**	0.0005	mg/l	0.0200	ND	111	58-137	9	18	
Chloromethane (Methyl Chloride)	**0.019**	0.002	mg/l	0.0200	ND	97	64-139	11	21	
2-Chlorotoluene	**0.022**	0.0003	mg/l	0.0200	ND	110	68-136	9	29	
4-Chlorotoluene	**0.021**	0.0006	mg/l	0.0200	ND	105	68-135	5	22	
Dibromochloromethane (Chlorodibromo...)	**0.021**	0.0005	mg/l	0.0200	ND	105	66-128	6	20	
1,2-Dibromo-3-chloropropane (DBCP)	**0.020**	0.001	mg/l	0.0200	ND	98	59-134	9	27	
1,2-Dibromoethane (Ethylene Dibromide)	**0.020**	0.0004	mg/l	0.0200	ND	102	74-127	3	17	
1,2-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	107	68-133	8	23	
1,3-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	109	70-133	5	23	
1,4-Dichlorobenzene	**0.022**	0.0004	mg/l	0.0200	ND	112	71-132	8	22	
Dichlorodifluoromethane	**0.023**	0.0006	mg/l	0.0200	ND	115	38-170	9	24	
1,1-Dichloroethane	**0.022**	0.0006	mg/l	0.0200	ND	110	76-129	7	16	
1,2-Dichloroethane (Ethylene Dichloride)	**0.021**	0.0004	mg/l	0.0200	ND	106	73-130	7	17	
1,1-Dichloroethene (Vinylidene Chloride)	**0.021**	0.0004	mg/l	0.0200	ND	107	49-150	10	23	
cis-1,2-Dichloroethene	**0.023**	0.0004	mg/l	0.0200	ND	116	38-157	14	24	
trans-1,2-Dichloroethene	**0.022**	0.0009	mg/l	0.0200	ND	113	73-132	8	19	
1,2-Dichloropropane (Propylene Dichloride)	**0.022**	0.0004	mg/l	0.0200	ND	108	75-127	5	19	
1,3-Dichloropropane	**0.021**	0.0007	mg/l	0.0200	ND	105	71-129	3	18	
2,2-Dichloropropane	**0.023**	0.001	mg/l	0.0200	ND	115	73-130	10	17	
1,1-Dichloropropene	**0.020**	0.001	mg/l	0.0200	ND	100	73-126	2	18	

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D26056-MSD1)										
Prepared: 04/26/12 12:13 Analyzed: 04/26/12 17:43					**Source: 1204629-01**					
Ethyl Benzene	**0.021**	0.0007	mg/l	0.0200	ND	107	69-134	5	17	
Hexachlorobutadiene	**0.021**	0.001	mg/l	0.0200	ND	105	65-131	7	24	
Isopropylbenzene (Cumene)	**0.020**	0.001	mg/l	0.0200	ND	102	70-137	6	23	
p-Isopropyltoluene	**0.020**	0.0004	mg/l	0.0200	ND	98	68-138	3	22	
Methyl tert butyl ether (MTBE)	**0.022**	0.0004	mg/l	0.0200	ND	109	70-125	6	20	
Methylene Bromide (Dibromomethane)	**0.020**	0.0005	mg/l	0.0200	ND	102	76-125	6	19	
Methylene Chloride (Dichloromethane)	**0.020**	0.003	mg/l	0.0200	ND	100	23-171	9	30	
Naphthalene	**0.018**	0.001	mg/l	0.0200	ND	89	45-147	3	27	
n-Propylbenzene	**0.021**	0.0008	mg/l	0.0200	ND	103	69-136	5	21	
Styrene	**0.011**	0.001	mg/l	0.0200	ND	53	66-131	22	23	Q-02
1,1,1,2-Tetrachloroethane	**0.022**	0.0009	mg/l	0.0200	ND	108	73-126	5	18	
1,1,2,2-Tetrachloroethane	**0.020**	0.0004	mg/l	0.0200	ND	98	59-140	9	26	
Tetrachloroethene (Perchloroethylene)	**0.020**	0.001	mg/l	0.0200	ND	102	38-182	7	27	
Toluene	**0.020**	0.0005	mg/l	0.0200	ND	98	62-135	2	19	
1,2,3-Trichlorobenzene	**0.021**	0.001	mg/l	0.0200	ND	105	63-132	4	27	
1,2,4-Trichlorobenzene	**0.022**	0.0009	mg/l	0.0200	ND	110	65-134	8	24	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.021**	0.001	mg/l	0.0200	ND	105	75-127	4	19	
1,1,2-Trichloroethane	**0.021**	0.0006	mg/l	0.0200	ND	104	66-131	6	19	
Trichloroethene (Trichloroethylene)	**0.021**	0.0004	mg/l	0.0200	ND	104	55-144	8	18	
Trichlorofluoromethane	**0.021**	0.0004	mg/l	0.0200	ND	103	70-138	5	18	
1,2,3-Trichloropropane	**0.020**	0.0006	mg/l	0.0200	ND	101	66-135	10	36	
1,2,4-Trimethylbenzene	**0.014**	0.0008	mg/l	0.0200	ND	72	66-138	7	21	
1,3,5-Trimethylbenzene	**0.015**	0.0003	mg/l	0.0200	ND	75	70-136	6	21	
Vinyl Chloride	**0.022**	0.0004	mg/l	0.0200	ND	108	50-153	7	24	
Xylenes (total)	**0.059**	0.002	mg/l	0.0600	ND	98	73-129	1	19	
Surrogate: Toluene-d8	**0.0489**		mg/l	0.0500		98	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0507**		mg/l	0.0500		101	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0492**		mg/l	0.0500		98	18-175			

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Project: Colleyville Water Resampling
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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D26039-BLK1)										
Prepared & Analyzed: 04/26/12 07:26										
Hexavalent Chromium	**ND**	0.005	mg/l							
Laboratory Control Sample (2D26039-BS1)										
Prepared & Analyzed: 04/26/12 07:26										
Hexavalent Chromium	**0.483**	0.005	mg/l	0.500		97	87-111			
Laboratory Control Sample Duplicate (2D26039-BSD1)										
Prepared & Analyzed: 04/26/12 07:26										
Hexavalent Chromium	**0.480**	0.005	mg/l	0.500		96	87-111	0.6	5	
Matrix Spike (2D26039-MS1)					**Source: 1204605-01**					
Prepared & Analyzed: 04/26/12 07:26										
Hexavalent Chromium	**0.544**	0.005	mg/l	0.526	ND	103	85-112			
Matrix Spike Duplicate (2D26039-MSD1)					**Source: 1204605-01**					
Prepared & Analyzed: 04/26/12 07:26										
Hexavalent Chromium	**0.553**	0.005	mg/l	0.526	ND	105	85-112	2	5	
Duplicate (2D26053-DUP1)					**Source: 1204629-01**					
Prepared & Analyzed: 04/26/12 10:40										
pH	**6.64**	0.1	pH Units		6.65			0.2	1	M-06a
Reference (2D26053-SRM1)										
Prepared & Analyzed: 04/26/12 10:40										
pH	**6.00**	0.1	pH Units	6.00		100	99-101			M-06

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D26054-BLK1)										
Prepared & Analyzed: 04/26/12 11:40										
Turbidity	**ND**	0.50	NTU							
Duplicate (2D26054-DUP1)					**Source: 1204629-01**					
Prepared & Analyzed: 04/26/12 11:40										
Turbidity	**8.2**	0.50	NTU		8.3			1	2	
Reference (2D26054-SRM1)										
Prepared & Analyzed: 04/26/12 11:40										
Turbidity	**20**	0.50	NTU	20.0		100	90-110			
Blank (2D26057-BLK1)										
Prepared & Analyzed: 04/26/12 13:00										
Methylene Blue Active Substances	**ND**	0.073	mg/l							
Laboratory Control Sample (2D26057-BS1)										
Prepared & Analyzed: 04/26/12 13:00										
Methylene Blue Active Substances	**0.886**	0.073	mg/l	1.00		89	64-149			
Laboratory Control Sample Duplicate (2D26057-BSD1)										
Prepared & Analyzed: 04/26/12 13:00										
Methylene Blue Active Substances	**0.920**	0.073	mg/l	1.00		92	64-149	4	18	
Matrix Spike (2D26057-MS1)					**Source: 1204629-01**					
Prepared & Analyzed: 04/26/12 13:00										
Methylene Blue Active Substances	**0.703**	0.073	mg/l	1.00	ND	70	11-177			

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Print Date/Time: 05/09/12 16:43

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D26057-MSD1)										
Prepared & Analyzed: 04/26/12 13:00					**Source: 1204629-01**					
Methylene Blue Active Substances	**0.618**	0.073	mg/l	1.00	ND	62	11-177	13	13	
Blank (2D26059-BLK1)										
Prepared: 04/26/12 13:47 Analyzed: 04/26/12 15:47										
Chloride (Total)	**ND**	0.005	mg/l							
Sulfate (Total) as SO4	**ND**	0.036	mg/l							
Laboratory Control Sample (2D26059-BS1)										
Prepared: 04/26/12 13:47 Analyzed: 04/26/12 16:01										
Chloride (Total)	**4.57**	0.005	mg/l	5.00		91	90-110			
Sulfate (Total) as SO4	**5.00**	0.036	mg/l	5.00		100	90-110			
Laboratory Control Sample Duplicate (2D26059-BSD1)										
Prepared: 04/26/12 13:47 Analyzed: 04/26/12 16:16										
Chloride (Total)	**4.57**	0.005	mg/l	5.00		91	90-110	0.07	20	
Sulfate (Total) as SO4	**4.98**	0.036	mg/l	5.00		100	90-110	0.4	20	
Matrix Spike (2D26059-MS1)										
Prepared: 04/26/12 13:47 Analyzed: 04/27/12 08:10					**Source: 1204577-02**					
Chloride (Total)	**1010**	0.556	mg/l	556	435	104	80-120			R-01
Sulfate (Total) as SO4	**1560**	4.00	mg/l	556	875	124	80-120			Q-02, R-01
Matrix Spike (2D26059-MS2)										
Prepared: 04/26/12 13:47 Analyzed: 04/26/12 16:59					**Source: 1204629-01**					
Chloride (Total)	**69.6**	0.056	mg/l	55.6	17.5	94	80-120			R-01
Sulfate (Total) as SO4	**69.3**	0.400	mg/l	55.6	11.7	104	80-120			R-01

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400 W. Bethany Rd. Suite 190
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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D26059-MSD1)										
Prepared: 04/26/12 13:47 Analyzed: 04/27/12 08:24					**Source: 1204577-02**					
Chloride (Total)	**1000**	0.556	mg/l	556	435	103	80-120	0.8	15	R-01
Sulfate (Total) as SO4	**1560**	4.00	mg/l	556	875	124	80-120	0.09	15	Q-02, R-01
Matrix Spike Duplicate (2D26059-MSD2)										
Prepared: 04/26/12 13:47 Analyzed: 04/26/12 17:13					**Source: 1204629-01**					
Chloride (Total)	**69.9**	0.056	mg/l	55.6	17.5	94	80-120	0.4	15	R-01
Sulfate (Total) as SO4	**68.9**	0.400	mg/l	55.6	11.7	103	80-120	0.7	15	R-01
Blank (2D27020-BLK1)										
Prepared: 04/27/12 09:01 Analyzed: 04/27/12 14:00										
Oil & Grease (HEM)	**ND**	0.90	mg/l							
Laboratory Control Sample (2D27020-BS1)										
Prepared: 04/27/12 09:01 Analyzed: 04/27/12 14:00										
Oil & Grease (HEM)	**36.2**	0.90	mg/l	40.0		90	78-114			
Laboratory Control Sample Duplicate (2D27020-BSD1)										
Prepared: 04/27/12 09:01 Analyzed: 04/27/12 14:00										
Oil & Grease (HEM)	**37.7**	0.90	mg/l	40.0		94	78-114	4	18	
Matrix Spike (2D27020-MS1)										
Prepared: 04/27/12 09:01 Analyzed: 04/27/12 14:00					**Source: 1204656-01**					
Oil & Grease (HEM)	**44.4**	1.05	mg/l	46.5	ND	96	78-114			
Blank (2D27026-BLK1)										
Prepared & Analyzed: 04/27/12 11:13										
Total Suspended Solids	**ND**	2.50	mg/l							

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2D27026-BS1)										
Prepared & Analyzed: 04/27/12 11:13										
Total Suspended Solids	**196**	25.0	mg/l	200		98	90-108			
Duplicate (2D27026-DUP1)										
Prepared & Analyzed: 04/27/12 11:13					**Source: 1204603-02**					
Total Suspended Solids	**6320**	500	mg/l		5760			9	20	R-01
Duplicate (2D27026-DUP2)										
Prepared & Analyzed: 04/27/12 11:13					**Source: 1204616-02**					
Total Suspended Solids	**3840**	500	mg/l		3660			5	20	R-01
Blank (2D30035-BLK1)										
Prepared & Analyzed: 04/30/12 07:14										
Total Dissolved Solids	**ND**	5.07	mg/l							
Laboratory Control Sample (2D30035-BS1)										
Prepared & Analyzed: 04/30/12 07:14										
Total Dissolved Solids	**240**	5.07	mg/l	250		96	93-106			
Duplicate (2D30035-DUP1)										
Prepared & Analyzed: 04/30/12 07:14					**Source: 1204698-01**					
Total Dissolved Solids	**594**	5.07	mg/l		585			2	6	
Blank (2D30040-BLK1)										
Prepared: 04/30/12 08:06 Analyzed: 04/30/12 09:30										
Conductivity @ 25°C	**ND**	1.00	uS/cm							

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2D30040-BS1)										
Prepared: 04/30/12 08:06 Analyzed: 04/30/12 09:30										
Conductivity @ 25°C	**202**	1.00	uS/cm	200		101	98-102			
Duplicate (2D30040-DUP1)					**Source: 1204629-01**					
Prepared: 04/30/12 08:06 Analyzed: 04/30/12 09:30										
Conductivity @ 25°C	**330**	1.00	uS/cm		329			0.3	2	
Laboratory Control Sample (2E01039-BS1)										
Prepared & Analyzed: 05/01/12 07:58										
Total Alkalinity	**248**	20.0	mg CaCO3/l	250		99	96-102			
Laboratory Control Sample Duplicate (2E01039-BSD1)										
Prepared & Analyzed: 05/01/12 07:58										
Total Alkalinity	**246**	20.0	mg CaCO3/l	250		98	96-102	0.8	3	
Matrix Spike (2E01039-MS1)					**Source: 1204598-02**					
Prepared & Analyzed: 05/01/12 07:58										
Total Alkalinity	**312**	20.0	mg CaCO3/l	250	72.0	96	90-110			
Matrix Spike Duplicate (2E01039-MSD1)					**Source: 1204598-02**					
Prepared & Analyzed: 05/01/12 07:58										
Total Alkalinity	**310**	20.0	mg CaCO3/l	250	72.0	95	90-110	0.6	2	

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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D26046-BLK1)										
Prepared: 04/26/12 10:18 Analyzed: 04/27/12 14:56										
Mercury	**ND**	0.00004	mg/l							
Laboratory Control Sample (2D26046-BS1)										
Prepared: 04/26/12 10:18 Analyzed: 04/27/12 15:01										
Mercury	**0.00246**	0.00004	mg/l	0.00250		98	85-115			
Laboratory Control Sample Duplicate (2D26046-BSD1)										
Prepared: 04/26/12 10:18 Analyzed: 04/27/12 15:03										
Mercury	**0.00245**	0.00004	mg/l	0.00250		98	85-115	0.4	20	
Matrix Spike (2D26046-MS1)										
Prepared: 04/26/12 10:18 Analyzed: 04/27/12 15:06					**Source: 1204540-01**					
Mercury	**0.00206**	0.00004	mg/l	0.00250	ND	82	70-130			
Matrix Spike (2D26046-MS2)										
Prepared: 04/26/12 10:18 Analyzed: 04/27/12 15:10					**Source: 1204634-01**					
Mercury	**0.00155**	0.00004	mg/l	0.00250	ND	62	70-130			Q-02
Matrix Spike Duplicate (2D26046-MSD1)										
Prepared: 04/26/12 10:18 Analyzed: 04/27/12 15:08					**Source: 1204540-01**					
Mercury	**0.00191**	0.00004	mg/l	0.00250	ND	76	70-130	8	20	
Matrix Spike Duplicate (2D26046-MSD2)										
Prepared: 04/26/12 10:18 Analyzed: 04/27/12 15:12					**Source: 1204634-01**					
Mercury	**0.00168**	0.00004	mg/l	0.00250	ND	67	70-130	8	20	Q-02
Blank (2D30051-BLK1)										
Prepared & Analyzed: 04/30/12 11:57										
Acid Digestion of Aqueous	**Completed**	N/A	-							
Arsenic	**ND**	0.010	mg/l							
Barium	**ND**	0.0002	mg/l							
Cadmium	**ND**	0.0003	mg/l							
Calcium	**ND**	0.11	mg/l							
Chromium	**ND**	0.001	mg/l							
Iron	**ND**	0.01	mg/l							
Lead	**ND**	0.001	mg/l							
Magnesium	**ND**	0.020	mg/l							
Manganese	**ND**	0.003	mg/l							
Potassium	**ND**	0.217	mg/l							
Selenium	**ND**	0.003	mg/l							
Silver	**ND**	0.001	mg/l							

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Project: Colleyville Water Resampling
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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D30051-BLK1)										
Prepared: 04/30/12 11:57 Analyzed: 04/30/12 23:23										
Sodium	**ND**	0.17	mg/l							
Strontium	**ND**	0.0003	mg/l							
Laboratory Control Sample (2D30051-BS1)										
Prepared & Analyzed: 04/30/12 11:57										
Acid Digestion of Aqueous	**Completed**	N/A	-				0-0			
Arsenic	**0.524**	0.010	mg/l	0.500		105	80-120			
Barium	**0.512**	0.0002	mg/l	0.500		102	80-120			
Cadmium	**0.518**	0.0003	mg/l	0.500		104	80-120			
Calcium	**10.2**	0.11	mg/l	10.0		102	80-120			
Chromium	**0.513**	0.001	mg/l	0.500		103	80-120			
Iron	**5.29**	0.01	mg/l	5.00		106	80-120			
Lead	**0.521**	0.001	mg/l	0.500		104	80-120			
Magnesium	**10.3**	0.020	mg/l	10.0		103	80-120			
Manganese	**0.508**	0.003	mg/l	0.500		102	80-120			
Potassium	**10.6**	0.217	mg/l	10.0		106	80-120			
Selenium	**1.04**	0.003	mg/l	1.00		104	80-120			
Silver	**0.514**	0.001	mg/l	0.500		103	80-120			
Sodium	**10.6**	0.17	mg/l	10.0		106	80-120			
Strontium	**0.517**	0.0003	mg/l	0.500		103	80-120			
Laboratory Control Sample Duplicate (2D30051-BSD1)										
Prepared & Analyzed: 04/30/12 11:57										
Acid Digestion of Aqueous	**Completed**	N/A	-				0-0		0	
Arsenic	**0.500**	0.010	mg/l	0.500		100	80-120	5	20	
Barium	**0.490**	0.0002	mg/l	0.500		98	80-120	4	20	
Cadmium	**0.494**	0.0003	mg/l	0.500		99	80-120	5	20	
Calcium	**9.97**	0.11	mg/l	10.0		100	80-120	2	20	
Chromium	**0.497**	0.001	mg/l	0.500		99	80-120	3	20	
Iron	**5.10**	0.01	mg/l	5.00		102	80-120	4	20	
Lead	**0.495**	0.001	mg/l	0.500		99	80-120	5	20	
Magnesium	**10.2**	0.020	mg/l	10.0		102	80-120	1	20	
Manganese	**0.493**	0.003	mg/l	0.500		99	80-120	3	20	
Potassium	**10.1**	0.217	mg/l	10.0		101	80-120	5	20	
Selenium	**0.982**	0.003	mg/l	1.00		98	80-120	6	20	

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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2D30051-BSD1)										
Prepared: 04/30/12 11:57 Analyzed: 04/30/12 23:36										
Silver	**0.497**	0.001	mg/l	0.500		99	80-120	3	20	
Sodium	**10.1**	0.17	mg/l	10.0		101	80-120	4	20	
Strontium	**0.497**	0.0003	mg/l	0.500		99	80-120	4	20	
Matrix Spike (2D30051-MS1)					**Source: 1204629-01**					
Prepared & Analyzed: 04/30/12 11:57										
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0			
Arsenic	**0.527**	0.010	mg/l	0.500	ND	105	75-125			
Barium	**0.510**	0.0002	mg/l	0.500	0.006	101	75-125			
Cadmium	**0.516**	0.0003	mg/l	0.500	ND	103	75-125			
Calcium	**29.4**	0.11	mg/l	10.0	20.3	91	75-125			
Chromium	**0.508**	0.001	mg/l	0.500	ND	102	75-125			
Iron	**7.83**	0.01	mg/l	5.00	2.72	102	75-125			
Lead	**0.510**	0.001	mg/l	0.500	0.012	99	75-125			
Magnesium	**15.0**	0.020	mg/l	10.0	5.77	92	75-125			
Manganese	**0.616**	0.003	mg/l	0.500	0.118	100	75-125			
Potassium	**13.0**	0.217	mg/l	10.0	2.02	110	75-125			
Selenium	**1.04**	0.003	mg/l	1.00	ND	104	75-125			
Silver	**0.516**	0.001	mg/l	0.500	ND	103	75-125			
Sodium	**52.4**	0.17	mg/l	10.0	41.3	111	75-125			
Strontium	**1.00**	0.0003	mg/l	0.500	0.515	97	75-125			
Matrix Spike Duplicate (2D30051-MSD1)					**Source: 1204629-01**					
Prepared & Analyzed: 04/30/12 11:57										
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0		0	
Arsenic	**0.535**	0.010	mg/l	0.500	ND	107	75-125	1	20	
Barium	**0.513**	0.0002	mg/l	0.500	0.006	102	75-125	0.6	20	
Cadmium	**0.524**	0.0003	mg/l	0.500	ND	105	75-125	2	20	
Calcium	**29.4**	0.11	mg/l	10.0	20.3	92	75-125	0.1	20	
Chromium	**0.528**	0.001	mg/l	0.500	ND	106	75-125	4	20	
Iron	**8.04**	0.01	mg/l	5.00	2.72	106	75-125	3	20	
Lead	**0.515**	0.001	mg/l	0.500	0.012	101	75-125	1	20	
Magnesium	**15.1**	0.020	mg/l	10.0	5.77	93	75-125	0.5	20	
Manganese	**0.640**	0.003	mg/l	0.500	0.118	104	75-125	4	20	
Potassium	**13.1**	0.217	mg/l	10.0	2.02	111	75-125	0.5	20	

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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2D30051-MSD1)										
Prepared: 04/30/12 11:57 Analyzed: 04/30/12 23:49					**Source: 1204629-01**					
Selenium	**1.05**	0.003	mg/l	1.00	ND	105	75-125	1	20	
Silver	**0.529**	0.001	mg/l	0.500	ND	106	75-125	2	20	
Sodium	**52.8**	0.17	mg/l	10.0	41.3	116	75-125	0.8	20	
Strontium	**1.01**	0.0003	mg/l	0.500	0.515	98	75-125	0.5	20	

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Total Petroleum Hydrocarbons Rev. 3 - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2D27031-BLK1)										
Prepared & Analyzed: 04/27/12 13:45										
TPH 1005 Extraction	**Completed**	N/A	N/A							
TPH (C6-C12)	**ND**	0.600	mg/l							
TPH (>C12-C28)	**ND**	0.231	mg/l							
TPH (>C28-C35)	**ND**	0.069	mg/l							
TPH (C6-C35)	**ND**	0.884	mg/l							
Surrogate: 1-Chlorooctane	**27.4**		mg/l	25.2		108	70-130			
Surrogate: o-Terphenyl	**27.4**		mg/l	25.2		108	70-130			
Laboratory Control Sample (2D27031-BS1)										
Prepared & Analyzed: 04/27/12 13:45										
TPH 1005 Extraction	**Completed**	N/A	N/A				0-0			
TPH (C6-C12)	**45.9**	0.600	mg/l	40.0		115	75-125			
TPH (>C12-C28)	**24.3**	0.231	mg/l	20.0		122	75-125			
TPH (>C28-C35)	**7.48**	0.069	mg/l	6.65		113	75-125			
TPH (C6-C35)	**77.7**	0.884	mg/l	66.5		117	75-125			
Surrogate: 1-Chlorooctane	**26.3**		mg/l	25.2		104	70-130			
Surrogate: o-Terphenyl	**27.2**		mg/l	25.2		108	70-130			
Laboratory Control Sample Duplicate (2D27031-BSD1)										
Prepared & Analyzed: 04/27/12 13:45										
TPH 1005 Extraction	**Completed**	N/A	N/A				0-0		0	
TPH (C6-C12)	**43.0**	0.600	mg/l	40.0		107	75-125	7	20	
TPH (>C12-C28)	**22.8**	0.231	mg/l	20.0		114	75-125	7	20	
TPH (>C28-C35)	**7.13**	0.069	mg/l	6.65		107	75-125	5	20	
TPH (C6-C35)	**72.9**	0.884	mg/l	66.5		110	75-125	6	20	
Surrogate: 1-Chlorooctane	**23.7**		mg/l	25.3		94	70-130			
Surrogate: o-Terphenyl	**24.1**		mg/l	25.3		95	70-130			

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Total Petroleum Hydrocarbons Rev. 3 - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2D27031-MS1)										
Prepared & Analyzed: 04/27/12 13:45					**Source: 1204570-01**					**R-01**
TPH 1005 Extraction	**Completed**	N/A	N/A		ND		0-0			
TPH (C6-C12)	**38.7**	1.16	mg/l	38.8	2.51	93	75-125			
TPH (>C12-C28)	**23.8**	0.448	mg/l	19.4	1.95	113	75-125			
TPH (>C28-C35)	**7.86**	0.134	mg/l	6.45	ND	122	75-125			
TPH (C6-C35)	**70.3**	1.72	mg/l	64.5	4.46	102	75-125			
Surrogate: 1-Chlorooctane	**25.5**		mg/l	24.5		104	70-130			
Surrogate: o-Terphenyl	**24.7**		mg/l	24.5		101	70-130			
Matrix Spike Duplicate (2D27031-MSD1)										
Prepared & Analyzed: 04/27/12 13:45					**Source: 1204570-01**					**R-01**
TPH 1005 Extraction	**Completed**	N/A	N/A		ND		0-0		0	
TPH (C6-C12)	**40.2**	1.06	mg/l	35.4	2.51	107	75-125	4	20	
TPH (>C12-C28)	**26.0**	0.409	mg/l	17.7	1.95	136	75-125	9	20	Q-02
TPH (>C28-C35)	**7.70**	0.122	mg/l	5.89	ND	131	75-125	2	20	Q-02
TPH (C6-C35)	**73.9**	1.57	mg/l	58.9	4.46	118	75-125	5	20	
Surrogate: 1-Chlorooctane	**26.9**		mg/l	22.4		120	70-130			
Surrogate: o-Terphenyl	**27.3**		mg/l	22.4		122	70-130			

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/09/12 16:43

Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

M-06	The pH was measured at a temperature of 21.2°C.
M-06a	The pH was measured at a temperature of 22.0°C.
Q-02	The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range.
Q-21	The recovery of this analyte in the MS was lower than the acceptable range. This indicates a low bias to the result presented.
R-01	The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target and/or non-target parameters in this sample.
S-06	This sample was received outside of the EPA recommended holding time for this parameter. The result presented is, therefore, considered an estimated value.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/kg	micrograms per kilogram
ug/l	micrograms per liter
exc	Not covered under scope of NELAP accreditation.
F*	Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor when >1.00.
Inst	Instrument Identification
Anlst	Analyst Initials
SDL	Sample Detection Limit
MQL	Method Quantitation Limit
naa	This analysis/parameter is not accreditable under the current NELAP program

1134

SUBCONTRACT ORDER

PACE Analytical Services, Inc.

1204629

10190236

SENDING LABORATORY:

PACE Analytical Services, Inc.
400 West Bethany, Suite 190
Allen, TX 75013
Phone: (972) 727-1123
Fax: (972) 727-1175
Project Manager: Customer Service

SHORT HOLD
Cs. 1
4-27-12

RECEIVING LABORATORY:

Pace Analytical Services - Minneapolis
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1204629-01	**Aqueous**	**Sampled:04/25/12 14:00**		
Suboutl See Comments	05/01/12 17:00	05/02/12 14:00		RSK 175 - TRRP
Containers Supplied:				
Other - Unpres (P)	Other - Unpres (Q)	Other - Unpres (R)		

Project Name: Collegville Water Resampling
Project #: DFW 12028
Sample ID: WW-E

Released By (Signature/Print Name)	Date/Time	Received By (Signature/Print Name)	Date/Time
ERMI	1800 4/26/12	Cassie Sicard	4-27-12 10:14 2.9°C

Affiliation: ERMI

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 15Feb2012 Page 1 of 1
	Document Number: **F-MN-L-213-rev.02**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace TX **Project #** 10190236

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 7483330599 82

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no **Seals intact:** [ ] yes [X] no

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [ ] None [X] Other plastic bag **Temp Blank:** Yes ____ No X

Thermometer Used 80344042 or 80512447 **Type of Ice:** Wet Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature 2.9 **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: GS 4-27-12

Temp should be above freezing to 6°C **Comments:**

Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[X] Yes [ ] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[X] Yes [ ] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[X] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	[ ] Yes [ ] No [X] N/A	13. [ ] HNO3 [ ] H2SO4 [ ] NaOH [ ] HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4, HCL<2; NaOH >12)	[ ] Yes [ ] No [X] N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	[ ] Yes [X] No	Initial when completed / Lot # of added preservative
Headspace in VOA Vials (>6mm):	[ ] Yes [ ] No [X] N/A	14.
Trip Blank Present:	[ ] Yes [ ] No [X] N/A	15.
Trip Blank Custody Seals Present	[ ] Yes [ ] No [X] N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 4/27/12

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 Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

May 03, 2012

Leslie Underwood
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013

RE: Project 10190236
Project ID: 1204629 Colleyville Water Re

Dear Leslie Underwood:

Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Kyle Richardson
kyle.richardson@pacelabs.com
(612)607-1700

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Cover No Results 5/3/2012 14:47:

Appendix A
LABORATORY DATA PACKAGE COVER PAGE

This data package is for Job No. 10190236
and consists of:

This signature page, the laboratory review checklist, and the following reportable data:

[X] R1 - Field chain-of-custody documentation;
[X] R2 - Sample identification cross-reference;
[X] R3 - Test reports (analytical data sheets) for each environmental sample that includes:
- a. Items consistent with NELAC Chapter 5,
- b. Dilution factors,
- c. Preparation methods,
- d. Cleanup methods, and
- e. If required for the project, tentatively identified compounds (TICs).

[ ] R4 - Surrogate recovery data including:
- a. Calculated recovery (%R), and
- b. The laboratory's surrogate QC limits.

[X] R5 - Test reports/summary forms for blank samples;
[X] R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
- a. LCS spiking amounts,
- b. Calculated %R for each analyte, and
- c. The laboratory's LCS QC limits.

[ ] R7 - Test reports/summary forms for matrix spike/matrix spike duplicates (MS/MSDs) including:
- a. Samples associated with the MS/MSD clearly identified,
- b. MS/MSD spiking amounts,
- c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d. Calculated %Rs and relative percent differences, and
- e. The laboratory's MS/MSD QC limits.

[ ] R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
- a. The amount of analyte measured in the duplicate,
- b. The calculated RPD, and
- c. The laboratory's QC limits for analytical duplicated.

[X] R9 - List of method quantitation limits (MQLs) and detectibility check sample results for each analyte and matrix.
[X] R10 - Other problems or anomolies.

The exception Report for each "No" or Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix and method for which the laboratory does not hold NELAC accredidation under the Texas Laboratory Accredidation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [X] MN DNR 05/26/2011

Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (Printed)	Date
Kyle Richardson		Project Manager	5/3/2012

Laboratory Certifications

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190236

Client: Pasi- Dallas

Project ID: 1204629 Colleyville Water Re

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Certification IDs

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nebraska Certification #: Pace

Nevada Certification #: MN_00064

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oklahoma Certification #: D9921

REPORT OF LABORATORY ANALYSIS

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the written consent of Pace Analytical Services, Inc.

Laboratory Certifications

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190236

Client: Pasi- Dallas

Project ID: 1204629 Colleyville Water Re

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, execpt in full, without
the written consent of Pace Analytical Services, Inc.

Sample Cross Reference

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190236

Client: Pasi- Dallas

Project ID: 1204629 Colleyville Water Re

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
1204629-01 WW-E	10190236001	WATER	25-Apr-12 14:00	27-Apr-12 10:14

Project Narrative

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190236

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Sample Results

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Client: Pasi- Dallas

Client ID: 1204629-01 WW-E
Project: 10190236
Project ID: 1204629 Colleyville Water Re
Site: none
Lab ID: 10190236001
Matrix: Water
% Moisture: n/a
Description: none
Prep Level: Water
Batch: 205898
Method: RSK 175
RSK 175 AIR Headspace
Collected: 25-Apr-12
Received: 27-Apr-12
Prepared: 30-Apr-12

Units: mg/L

CAS No.	Analyte	Dilution	Qu	Result	MQL	SQL	UQL	Analysis	
74-84-0	Ethane	1	U	<0.00310	0.00620	0.00310		30-Apr-12 18:58	SK4
74-85-1	Ethene	1	U	<0.00310	0.00620	0.00310		30-Apr-12 18:58	SK4
74-82-8	Methane	1	U	<0.000690	0.00660	0.000690	16.7	30-Apr-12 18:58	SK4

3 compound(s) reported

Protocol 5/3/2012 14:47:54

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Quality Control

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Batch: 205898 **Project:** 10190236 **LCS:** 1186257 30-Apr-12 18:36

MS:

Units: mg/L **MSD:**

Original for MS:

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Ethane	0.11	0.13	112								70 - 130	-	30	
Ethene	0.11	0.12	109								70 - 130	-	30	
Methane	0.061	0.066	109								70 - 130	-	30	

3 compound(s) reported

5/3/2012 14:47:55

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Organics Method Blank

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Blank ID: BLANK for HBN 205898 **Project:** 10190236

Lab ID: 1186256

Prep Level: Water **Batch:** 205898

Method: Water RSK 175
RSK 175 AIR Headspace

Prepared: 30-Apr-12

Units: mg/L

CAS Numb	Analyte	Dilution	Qu	Result	Reporting MQL	SQL	Analysis	
74-84-0	Ethane	1	U	<0.00310	0.00620	0.00310	30-Apr-12 18:47	SK4
74-85-1	Ethene	1	U	<0.00310	0.00620	0.00310	30-Apr-12 18:47	SK4
74-82-8	Methane	1	U	<0.000690	0.00660	0.000690	30-Apr-12 18:47	SK4

3 compound(s) reported

5/3/2012 14:47:56

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Unadjusted MQL Summary

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190236

Analyte	Method	Unadjusted MQL	Reporting Units
Ethane	RSK 175	6.20	mg/L
Ethene	RSK 175	6.20	mg/L
Methane	RSK 175	6.60	mg/L

Definitions/Qualifiers

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190236

Value	Description
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

TRRP LABORATORY REVIEW CHECKLIST							
Laboratory Name:		Pace Analytical Services, Inc.	**LRC Date:**			5/3/2012	
Project Name:		1204629 Colleyville Water Re	**Lab Job Number:**			10190236	
Reviewer Name:		Kyle Richardson					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER #[5]**
R1	**OI**	**CHAIN-OF-CUSTODY (COC):**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	**Auto**				
		Were all departures from standard conditions described in an exception report?	**X**				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION:**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	**X**				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	**X**				
R3	**OI**	**TEST REPORTS:**					
		Were samples prepared and analyzed within holding times?	**X**				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	**X**				
		Were calculations checked by a peer or supervisor?	**X**				
		Were all analyte identifications checked by a peer or supervisor?	**X**				
		Were sample detection limits reported for all analytes not detected?	**X**				
		Were all results for soil and sediment samples reported on a dry weight basis?		X			
		Were % moisture (or solids) reported for all soil and sediment samples?		X			
		If required for the project, were TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA:**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	**X**				
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES:**					
		Were appropriate type(s) of blanks analyzed?	**X**				
		Were blanks analyzed at the appropriate frequency?	**X**				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	**X**				
		Were blank concentrations < MQL?	**X**				
R6	**OI**	**LABORATORY CONTROL SAMPLES (LCSs):**					
		Were all COCs included in the LCS?	**X**				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	**X**				
		Were LCSs analyzed at the required frequency?	**X**				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	**X**				
		Was the LCSD RPD within QC limits?	**X**				
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA:**					
		Were the project/method specified analytes included in the MS and MSD?		X			14M
		Were MS/MSD analyzed at the appropriate frequency?	**X**				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		Were MS/MSD RPDs within the laboratory QC limits?	**X**				
R8	**OI**	**ANALYTICAL DUPLICATE DATA:**					
		Were appropriate analytical duplicates analyzed for each matrix?	**X**				
		Were analytical duplicates analyzed at the appropriate frequency?	**X**				
		Were RPDs or relative standard deviations within the laboratory QC limits?	**X**				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	**X**				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	**X**				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	**X**				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES:**					
		Are all known problems/anomalies/special conditions noted in this LCR and ER?	**X**				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	**X**				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analtes, matrices, and methods associated with this laboratory data package?	**X**				

R-Required items S-Available if requested 2-O=organic, I=inorganic 3-NA=Not applicable 4-NR=Not reviewed 5-ER=Exception report #

TRRP LABORATORY REVIEW CHECKLIST							
Laboratory Name:		Pace Analytical Services, Inc.	**LRC Date:**			5/3/2012	
Project Name:		1204629 Colleyville Water Re	**Lab Job Number:**			10190236	
Reviewer Name:		Kyle Richardson					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER #[5]**
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	**X**				
		Were percent RSDs or correlation coefficient criteria met?	**X**				
		Was the number of standards recommended in the method used for all analytes?	**X**				
		Were all points generated between the lowest and highest standard used to calculate the curve?	**X**				
		Are ICAL data available for all instruments used?	**X**				
		Has the initial calibration curve been verified using an appropriate second source standard?	**X**				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV**					
		Was the CCV analyzed at the method-required frequency?	**X**				
		Were percent differences for each analyte within the method-required QC limits?	**X**				
		Was the ICAL curve verified for each analyte?	**X**				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	**X**				
S3	**O**	**MASS SPECTRAL TUNING:**					
		Was the appropriate compound for the method used for tuning?	**X**				
		Were ion abundance data within the method-required QC limits?	**X**				
S4	**O**	**INTERNAL STANDARD (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	**X**				
S5	**OI**	**RAW DATA (NELAC SECTION 5.5.10):**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	**X**				
		2) Were data associated with manual integrations flagged on the raw data?	**X**				
S6	**O**	**DUAL COLUMN CONFIRMATION:**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS:**					
		1) Were percent recoveries within method QC limits?	**X**				
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITIONS**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	**X**				
S10	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES:**					
		Was a MDL study performed for each reported analyte?	**X**				
		Is the MDL either adjusted or supported by the analysis of DCSs?	**X**				
S11	**OI**	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	**X**				
S12	**OI**	**STANDARDS DOCUMENTATION:**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	**X**				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES:**					
		Are the procedures for compound/analyte identification documented?	**X**				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	**X**				
		Is documentation of the analyst's competency up-to-date and on file?	**X**				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC CHAPTER 5)**					
		Are all the methods used to generate the data documented, verified and validated, where applicable?	**X**				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	**X**				

R-Required items S-Available if requested 2-O=organic, I=inorganic 3-NA=Not applicable 4-NR=Not reviewed 5-ER=Exception report #

TRRP LABORATORY REVIEW CHECKLIST			
Laboratory Name:		**LRC Date:**	
Project Name:		**Lab Job Number:**	
Reviewer Name:	Pace Analytical Services, Inc.		######
ER #	**1204629 Colleyville Water Re**		1E+07
14M	MS 205898 Ethane is not spiked.		
14M	MS 205898 Ethene is not spiked.		
14M	MS 205898 Methane is not spiked.		

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

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Results

Printed: 04/30/2012 Page 1 of 2

Client: PAS5 Project: 568835

Default

Account	Project
PAS5-N	568835

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1116114 1204629-01					Received: 04/27/2012	
Liquid Aqueous	Collected by: Client		Affiliation: Pace Analytical Serv		04/25/2012 14:00:00	
Prepared:	473936		04/27/2012		12:30:00	
SW-846 6010B		Analyzed: SAM	04/30/2012		12:49:28 QCgroup	474123
z Sulfur	4.28	mg/L	0.250		7704-34-9	02

Sample Preparation

1116114 1204629-01					Received: 04/27/2012	
Prepared:			04/27/2012		00:00:00	
		Analyzed: GDG	04/27/2012		00:00:00 QCgroup	
z Bottle pH	<2	SU				01
Bottle Temperature on Receipt	24	degrees				01
Prepared:	473936		04/27/2012		12:30:00	
EPA 200.2 2.8		Analyzed: TES	04/27/2012		12:30:00 QCgroup	473936
N Liquid Metals Digestion	50/50	ml				01

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Results

Printed: 04/30/2012 Page 2 of 2

Client: PAS5 *Project:* 568835

Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commisson on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

C. H. Whiteside, Ph.D., President

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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Quality Control

Printed 04/30/2012

AQUEOUS

Account	Project
PAS5 -N	568835

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

474123 **M** **Liquid Aqueous** **SW-846 6010B**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfur	473936	0.098	0.050	0.250	mg/L	112439571

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	21.4	20.0	mg/L	107	90.0 - 110		112439566
Sulfur	21.8	20.0	mg/L	109	90.0 - 110		112439576
Sulfur	20.5	20.0	mg/L	102	90.0 - 110		112439580
Sulfur	19.9	20.0	mg/L	99.5	90.0 - 110		112439582

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	40.0	40.0	mg/L	100	95.0 - 105		112439555
Sulfur	40.8	40.0	mg/L	102	95.0 - 105		112439578

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	20.4	20.0	mg/L	102	90.0 - 110		112439556
Sulfur	20.1	20.0	mg/L	100	90.0 - 110		112439579

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Sulfur	473936	4.63	4.00	mg/L	116	80.0 - 120	112439572	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Sulfur	473936	4.63	4.57	4.00	80.0 - 120	116	114	mg/L	1.30	14.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfur	1116064	107	0	102	4.00	71.0 - 134	125		mg/L		30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfur	1116064	107	109	102	4.00	71.0 - 134	125	175 *	mg/L	33.3 *	30.0

RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100%

Recover% is Recovery Percent: result / known * 100%

568835 CoC Print Group 001 of 001

SUBCONTRACT ORDER

PACE Analytical Services, Inc.

1204629

~~ERMI~~ → PACS 4/27/2012

1116114

SENDING LABORATORY:

PACE Analytical Services, Inc.
400 West Bethany, Suite 190
Allen, TX 75013
Phone: (972) 727-1123
Fax: (972) 727-1175
Project Manager: Customer Service

RECEIVING LABORATORY:

Ana Lab Corporation
2600 Dudley Rd
Kilgore, TX 75662
Phone :(903) 984-0551
Fax: (903) 984-5914

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1204629-01	**Aqueous**	**Sampled:04/25/12 14:00**	[redacted]	
Subout2 See Comments	[redacted]	[redacted]		Sulfur - TRRP
Containers Supplied:				
Poly 500mL - pH<2 (O)				

Normal TAT

005057 ☐ CF 24°C
005112 ☐ CF
003688 ☑ CF -.133

Released By (Signature/Print Name)	ERMI	Date/Time	Received By (Signature/Print Name)	Date/Time
		1615 4-26-12	LSO - 2N621045	
LSO		4/27/12 0950	Gayle Gardner Ana-Lab Gayle Gardner by CP	4/27/12 0950
Released By (Signature/Print Name)		Date/Time	Received By (Signaure/Print Name	Date/Time

Affiliation: ERMI

568835 CoC Print Group 001 of 001

Lone Star Overnight

Airbill No. ZN621045

Lone Star Overnight
800.800.8984
www.lso.com

0950

To: **SAMPLE RECEIVING**
ANA LAB CORPORATION
2600 DUDLEY RD
KILGORE, TX 75662
(903) 984 - 0551

From: PACE ANALYTICAL
PACE ANALYTICAL
400 W. BETHANY RD
#190
ALLEN, TX 75013
(972) 727 - 1123

24°C
GDG

Service Type: Ground
1D00V

GGG

Ground

QuickCode: **ANA LAB**
Date Printed: 4/26/2012
Billing Ref 1:

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned.

Shipping Instructions

1. Fold this page along the horizontal line above.
2. Place this Airbill in the shipping label pouch on the package you are shipping. Please be sure the barcodes and addresses can be read and scanned.
3. To locate a drop box near you, click on **Find Drop Box** from the home page main menu.
4. To schedule a pickup, click on **Request Pickup**

WARNING: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your Lone Star Overnight account number.
LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES OR RESIDENTIAL DELIVERIES.

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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Printed 04/30/2012 Page 1 of 1

Analytical Results

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Report Table of Contents

Account
PAS5 -N

Project
568835

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
568835_r01_07_CoolerReview	Ana-Lab Project P:568835 Project Cooler Review Report	1
568835_r01_08_ProjectBottleReview	Ana-Lab Project P:568835 Project Bottle Review Report	1
568835_r02_01_ProjectSamples	Ana-Lab Project P:568835 C:PAS5 Project Sample Cross Reference	1
568835_r03_03_ProjectResults	Ana-Lab Project P:568835 C:PAS5 Project Results	2
568835_r10_05_ProjectQC	Ana-Lab Project P:568835 C:PAS5 Project Quality Control Groups	1
568835_r99_09_CoC__1_of_1	Ana-Lab CoC PAS5 568835_1_of_1	2
	Total Pages:	8

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Cooler Review

Printed 04/30/2012 Page 1 of 1

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 568835

AQUEOUS

Receipt	Cooler	Air Bill	Date Recvd	By
0000000017	**17846**	PAS5 LSOZ-N621045	04/27/2012	GDG

2. Was the cooler screened following the Radiochemistry survey procedure.	Yes
2a. Was the survey result negative. If no, notify the client.	Yes
2b. Are any of the samples identified by the client as radioactive.	No
2c. If radioactive, did the client provide RAD Activity	N/A
3. Were chain of custody documents included.	Yes
4. Was the cooler temperature checked.	Yes
5. Was cooler temperature within specifications (less than or equal to 6 C).	Yes
6. Is temperature documented ou the Chain of Custody.	Yes
7. Lab has resources for these services (testing capability, available personnel, and can meet requested TAT). If no, notify client.	Yes
1. Was the cooler received intact and sealed. If no, notify client.	Yes
8. Cooler Seal Attached	Yes
9. Other Comments	N/A

N/R: Not Reviewed N/A: Not Applicable * Out

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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Bottle Review

Printed 04/30/2012 Page 1 of 1

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 568835

AQUEOUS

Receipt	Cooler	Air Bill	Received	By
17846	0000000017	PAS5 LSOZ-N621045	04/27/2012	GDG

Sample	Bottle	Barcode	Description
1116114	*01*	*0000000017405:*	***Client supplied HNO3 to pH <2***

1.Was the sample container properly labeled.	Yes
2. Was the proper sample container type received.	Yes
3. Does the bottle label indicate that proper chemical preservatives were added if required.	Yes
3a. If preserved, was the sample bottle (except VOC Vials, 1005 Vials and FC bottles) at the proper pH.	Yes
3b. If no, was the sample's pH adjusted (except VOC Vials, 1005 Vials & FC Bottles) and the changes in pH recorded.	N/A
4. If the bottle was a VOC vial, was it free of headspace.	N/A
5. Was the bottle received intact.	Yes
6. Was the sample received within holding time. If no, notify the client.	Yes
7. Was the chain of custody documents completed correctly. (Ink, signed, matches container)	Yes
8. Bottle Seals Attached	N/R

N/R: Not Reviewed N/A: Not Applicable * Out

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

Employee Owned Integrity Caring Continual Improvement

Sample Cross Reference

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 568835

AQUEOUS

Sample	Sample ID	Taken	Time	Received
1116114	*1204629-01*	04/25/2012	14:00:00	04/27/2012

Bottle 01 Client supplied HNO3 to pH <2
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 473936) Volume: 50.00000 mL <== Derived from 01 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SW-846 6010B	02	473936	04/27/2012	474123	04/30/2012

CHAIN OF CUSTODY RECORD

MODERN GEOSCIENCES

Laboratory: Eami/Pace
Address: Allen TX

Office Location: 1904 Industrial Blvd, Ste. 105 Colleyville, TX
Contact: Shelly Cornwell
Phone: (972) 727-1123
Project Manager: Kenneth Tramm
PO/SO #:
Sampler's Name: J.J. Hollingshead
Sampler's Signature: [signature]

Project No.: DFW2028
Project Name: Colleyville Water Resampling

ANALYSIS REQUESTED

Page 1 of 1

Turn around time:
☒ Normal ☐ 25% Rush
☐ 50% Rush ☐ 100% Rush

IRO
Temp. of coolers when received (C°): 1 0.2°C 2 3 4 5

See Attached list for Analysis requested

Matrix	Date	Time	Comp	Grab	Sample ID:	VOA	A/G 1 Lt.	250 ml	P/O	See Attached list	Lab Sample ID
W	5/01/12	1022		X	WW-I	X			X	X	1205023-01
W	5/01/12	1058		X	WW-H	X			X	X	1205023-02

NOTE

Relinquished by (signature):	Date / Time:	Received by (signature):	Date / Time:
[signature]	5/01/12/356	[signature]	13:56
[signature]	5/1/12	Kathy Williams/Pace	14:50

Notes:

E-mail results to: ktramm@moderngeosciences.com
jhollingshead@moderngeosciences.com

Matrix: WW - Wastewater, W - Water, S- Soil, SD - Solid, L - Liquid, A - Air Sample, C - Charcoal Tube, SL - Sludge, O - Oil
Container: VOA - 40 ml vial, A/G - Amber / or Glass 1 Liter, 250 ml - Glass Wide Mouth, P/O - Plastic or other _____

WHITE - LABORATORY
YELLOW - RETAINED COPY

1205023

Analyte	Method	Container Size, Notes on Sampling/Preservation
VOC	EPA 8260B	3 - 40ml w/HCL voas for 8260 [Green Cap]
TPH	TX 1005	3 - 40ml w/HCL preweighed voas for TPH-1005 [Red Cap]
Methane, Ethane, and Ethene	RSK 175	3 - 30ml voas w/silver screw cap for RSK-175 [Silver Cap]
Methanol	8015B	3 - 40ml unpreserved voas for Methanol [White Cap]
Glycols	8015B	1 - 1L amber glass unpreserved for Glycols
Oil and Grease	EPA9070A	1 - 1L clear glass w/H2SO4 for O&G
TSS	SM2540D	1 - 1000ml unpreserved plastic for TSS
Hexavalent Chromium	7196A	1 - 1000ml unpreserved plastic for Alk, Cl, Cr+6, MBAS, pH, Cond, SO4, TDS, Turbidity
TDS	SM2540C	
Chloride	EPA 9056A	
Sulfate	EPA 9056A	
pH	SM4500H+B	
Bicarbonate Alkalinity	SM2320B	
Conductivity	EPA 9050A	
Turbidity	EPA 180.1	
Methylene Blue Active Substances	SM5540C	
Sulfur	EPA 6010B	1 - 500ml plastic w/HNO3 for Sulfur
RCRA 8 (As, Ba, Cd, Cr, Pb, Hg*, Se,Ag)	EPA 6010B	1 - 500ml plastic w/HNO3 for Total Metals
Calcium	EPA 6010B	
Iron	EPA 6010B	
Magnesium	EPA 6010B	
Manganese	EPA 6010B	
Potassium	EPA 6010B	
Sodium	EPA 6010B	
Strontium	EPA 6010B	
*Mercury- EPA 7470A		

120503

Falcon X-Press We Deliver

P.O. BOX 940303
PLANO, TX 75094-0303
(972) 881-7577

NOTARY SERVICE AVAILABLE

No.

SHIPPER
NAME
ADDRESS Modern Geo SUITE
CITY
REFERENCE NO.

CONSIGNEE
NAME
ADDRESS Pace SUITE
CITY
ATTN:

DATE 5/1/12

Falcon Charges: ☐ PREPAID ☐ COLLECT ☐ ROUND TRIP ☐ NIGHT-WEEKEND

Type of Delivery: ☐ X-Press ☐ 2 HOUR ☐ 4 HOUR ☐ NEXT DAY

PCS.	DESCRIPTION AND REMARKS

WEIGHT | CHARGES
WEIGHT CHARGE
WAITING TIME CHG
DELIVERY CHARGE
TOTAL CHARGES

TING TIME
RESPONSIBLE FOR FREIGHT CLAIMS AFTER 72 HRS. NOT RESPONSIBLE FOR CONCEALED DAMAGE. DUE AND PAYABLE PLANO, COLLIN COUNTY, TEXAS

$50 DECLARED VALUE UNLESS SPECIFIED HERE $

DRIVER NAME & NO. | DRIVER NAME & NO. | TIME OF DEL 1:50 | RECEIVED BY X | RECEIVED BY X Kathy Williams

MODERN GEOSCIENCES

CUSTODY SEAL CUSTODY SEAL CUSTODY SEAL CU

Date / Time Sealed: 5/01/12 1222 Initials: JH.

MODERN GEOSCIENCES

USTODY SEAL CUSTODY SEAL

JH.

Lab Number(s): 120503

ERMI

Sample Preservation Documentation*

On Ice (Circle One): YES OR NO (check if on Dry Ice_____)

Parameters	Containers #	Containers Size	Required Preservation	Sample Container	Circle pH Note any discrepancy
Metals (541 tm)	4	500 ml	pH < 2	Glass or Plastic	pH < 2
Dissolved Metals			Unpreserved prior to being filtered, Cool**	Glass or Plastic	
Hexavalent Chromium			CWA - pH 9.3-9.7, Cool; RCRA - Cool	Glass or Plastic	Checked At Analysis
Semivolatiles, Pesticides, PCBs, Herbicides			Cool	Glass only with Teflon lid	Chlorine ☐yes ☐no
VOA (BTEX, MTBE, 624, 8260, TPH-GRO) (mobile)	12	40 ml	Cool, pH < 2 Zero Head Space	40 ml VOA vial	DO NOT OPEN
VOA (TPH-1005)	6	40 ml	Cool, Zero Head Space Please check if collected in pre-weighed vials ✓	40 ml VOA vial	DO NOT OPEN
Phos., NO_3/NO_2, NH_3N, COD, TKN,TOC			Cool, pH < 2	Glass or Plastic	pH < 2
TDS, BOD, (crb) CBOD, Cond, pH, TSS, F, SO_4, Cl, Alk, Sulfite (Tub) (mb)	4 / +2	1000 ml / 500 ml	Cool	Glass or Plastic, Plastic only if F	
Phenols, TPH-DRO			Cool, pH < 2	Glass only Teflon lid____ Foil lid_____	pH < 2
Oil & Grease, TPH (by 1664a)	2	1L	Cool, pH < 2	Glass only Teflon lid_____ Foil lid_____ ✓	DO NOT Check pH
Cyanide			Cool, pH >12	Glass or Plastic	pH > 12 Chlorine ☐yes ☐no Sulfide ☐yes ☐no ☐na
Sulfide			Cool, pH > 9	Glass or Plastic	pH > 9
Bacteria			Cool	Plastic Sterile Cup	
Soil, Sludge, Solid, Oil, Liquid	2 / +6	1L / other	Cool Note: please check if collected in pre-weighed vials_____	9/955	

Metals Preserved By Login ☐yes ☐no Trip Blanks Received ☐yes ☐no

COMMENTS: 546 out

*This form is used to document sample preservation. Circle parameter requested. Fill in number and size of containers received. Check pH (adjust if needed) and note if different from what is required and make a notation of any samples not received on ice. Note any incorrect sample containers or preservation on chain-of-custody.

**Cool means cooled to ≤6°C but not frozen.

Preservation Checked By _____ Date 5-1-12 Time 1505

1000.0-3.2 2/17/09

kdy 7/10/08

Q:\Form Masters\1000.0-3.2 Sample Preservation Form

Laboratory Data Package Cover Page

This data package for Laboratory Job Number 1205023 consists of:

- ☑ This signature page, the laboratory review checklist, and the following reportable data:
- ☑ **R1** Field chain-of-custody documentation;
- ☑ **R2** Sample identification cross-reference;
- ☑ **R3** Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ **R4** Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ **R5** Test reports/summary forms for blank samples;
- ☑ **R6** Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ **R7** Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ **R8** Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☑ **R9** List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ☑ **R10** Other problems or anomalies.
- ☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [ ] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Shelly Connelly	Shelly Connelly	Client Services Manager	05/08/12
Name (Printed)	Signature	Official Title (Printed)	Date

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	LRC Date:	**05/08/12**
Project Name:	**Colleyville Water Resampling**	Laboratory Job Number:	**1205023**
Reviewer Name:	**Melissa McCullough**	Prep Batch Number(s):	**2E01052,2E01057,2E01061,2E01062,2E01063,2E01064,2E02056,2E02060,2E020**

# [1]	A [2]	Description	Yes	No	NA [3]	NR [4]	ER# [5]
R1	**OI**	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	**OI**	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	**OI**	**Test reports**					
		Were all samples prepared and analyzed within holding times?		X			E001
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, TICs reported?			X		
R4	**O**	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	**OI**	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	**OI**	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			E002
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	**OI**	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			E003
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	**OI**	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			E004
R9	**OI**	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	**OI**	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

PACE Analytical Services, Inc.

Laboratory Review Checklist: Reportable Data

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**05/08/12**
Project Name:	**Colleyville Water Resampling**	**Laboratory Job**	**1205023**
Reviewer Name:	**Melissa McCullough**	**Prep Batch Number(s):**	**2E01052,2E01057,2E01061,2E01062,2E01063,2E01064,2E02056,2E02060,2E020**

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	**OI**	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	**OI**	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	**O**	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	**O**	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	**OI**	**Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	**O**	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	**I**	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	**OI**	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	**OI**	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	**OI**	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	**OI**	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	**OI**	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	**OI**	**Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	**OI**	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name:	**PACE Analytical Services, Inc.**	**LRC Date:**	**05/08/12**
Project Name:	**Colleyville Water Resampling**	**Laboratory Job**	**1205023**
Reviewer Name:	**Melissa McCullough**	**Prep Batch Number(s):**	**2E01052,2E01057,2E01061,2E01062,2E01063,2E01064,2E02056,2E02060,2E02069,2E03038,2E03043,2E03046,2E03048,2E04020,2E04022**

ER# [1]	Description
E001	Sample 1205023-01 failed hold criteria for pH SM4500. -This sample was received outside of the EPA recommended holding time for this parameter. The result presented is, therefore, considered an estimated value. Sample 1205023-02 failed hold criteria for pH SM4500. -This sample was received outside of the EPA recommended holding time for this parameter. The result presented is, therefore, considered an estimated value.
E002	LCS Recovery for Total Dissolved Solids (91%) was outside acceptance limits (93-106) in 2E03048-BS1 for Solids TDS SM2540C - The recovery of this analyte in the LCS was outside the acceptable range. This indicates a low bias to the result presented for all samples and QC reported from this batch.
E003	Matrix Spike Recovery for Mercury (69%) was outside acceptance limits (70-130) in 2E01063-MS1 for Hg Total CVAA 7470A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Mercury (64%) was outside acceptance limits (70-130) in 2E01063-MSD1 for Hg Total CVAA 7470A - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Magnesium (70%) was outside acceptance limits (75-125) in 2E02056-MS1 for Mg Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the result presented for the source (1205023-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Magnesium (67%) was outside acceptance limits (75-125) in 2E02056-MSD1 for Mg Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the result presented for the source (1205023-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range. Matrix Spike Recovery for Sodium (31%) was outside acceptance limits (75-125) in 2E02056-MSD1 for Na Total ICP 6010B - The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. This indicates a low bias to the result presented for the source (1205023-01) reported from this batch. The recovery of this analyte in the LCS(s) was within the acceptable range.
E004	Duplicate RPD for Total Suspended Solids (26%) was above the acceptance limit (20) in 2E02060-DUP1 for Solids TSS SM2540D - The RPD between duplicate analyses was outside of the acceptable range. This indicates the result was not as precise as expected.

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

PACE Analytical Services, Inc. certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
1205023-01	WW-I	Aqueous	05/01/12 10:22	05/01/12 14:50
1205023-02	WW-H	Aqueous	05/01/12 10:58	05/01/12 14:50

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Shelly Connelly

Shelly Connelly
Client Services Manager

Arkansas: 88-0647
Oklahoma: 8727

Louisiana: 02007
Kansas: E-10388
Texas: T104704232-11-3

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-I
Sample Date/Time: 05/01/12 1022

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Methanol, EPA 8015B mod										
Methanol	**ND**	2.84	10	mg/l	1.00	V5	2E02069	05/02/12 1537	TA	
Glycols, EPA 8015B mod										
Ethylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2E01064	05/02/12 1005	TA	
Propylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2E01064	05/02/12 1005	TA	

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-I
Sample Date/Time: 05/01/12 1022

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B										
Benzene	**ND**	0.000620	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Bromobenzene	**ND**	0.000750	0.003	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Bromochloromethane	**ND**	0.000520	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Bromodichloromethane	**ND**	0.000330	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Bromoform (Tribromomethane)	**ND**	0.000690	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Bromomethane (Methyl Bromide)	**ND**	0.000560	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
n-Butylbenzene	**ND**	0.000680	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
sec-Butylbenzene	**ND**	0.000890	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
tert-Butylbenzene	**ND**	0.000350	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Carbon Tetrachloride	**ND**	0.00147	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Chlorobenzene	**ND**	0.000530	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Chloroethane (Ethyl Chloride)	**ND**	0.000560	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Chloroform	**ND**	0.000510	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Chloromethane (Methyl Chloride)	**ND**	0.00167	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
2-Chlorotoluene	**ND**	0.000330	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
4-Chlorotoluene	**ND**	0.000550	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Dibromochloromethane (Chlorodibromo...)	**ND**	0.000470	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.000980	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.000400	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,2-Dichlorobenzene	**ND**	0.000350	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,3-Dichlorobenzene	**ND**	0.000390	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,4-Dichlorobenzene	**ND**	0.000380	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Dichlorodifluoromethane	**ND**	0.000580	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,1-Dichloroethane	**ND**	0.000570	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.000400	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.000370	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
cis-1,2-Dichloroethene	**ND**	0.000450	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
trans-1,2-Dichloroethene	**ND**	0.000920	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-01
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-I
Sample Date/Time: 05/01/12 1022

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.000360	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,3-Dichloropropane	**ND**	0.000700	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
2,2-Dichloropropane	**ND**	0.00126	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,1-Dichloropropene	**ND**	0.00105	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Ethyl Benzene	**ND**	0.000670	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Hexachlorobutadiene	**ND**	0.000960	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Isopropylbenzene (Cumene)	**ND**	0.00108	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
p-Isopropyltoluene	**ND**	0.000390	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Methyl tert butyl ether (MTBE)	**ND**	0.000370	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Methylene Bromide (Dibromomethane)	**ND**	0.000500	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Methylene Chloride (Dichloromethane)	**ND**	0.00500	0.005	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Naphthalene	**ND**	0.00500	0.005	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
n-Propylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Styrene	**ND**	0.00114	0.003	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,1,1,2-Tetrachloroethane	**ND**	0.000860	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,1,2,2-Tetrachloroethane	**ND**	0.000400	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Tetrachloroethene (Perchloroethylene)	**ND**	0.00141	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Toluene	**ND**	0.00500	0.005	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,2,3-Trichlorobenzene	**ND**	0.000960	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,2,4-Trichlorobenzene	**ND**	0.000900	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.000980	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,1,2-Trichloroethane	**ND**	0.000550	0.003	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Trichloroethene (Trichloroethylene)	**ND**	0.000390	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Trichlorofluoromethane	**ND**	0.000440	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,2,3-Trichloropropane	**ND**	0.000600	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,2,4-Trimethylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
1,3,5-Trimethylbenzene	**ND**	0.000330	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	
Vinyl Chloride	**ND**	0.000450	0.002	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-01
Sample Type: Grab
Sample Description: WW-I
Matrix: Aqueous
Sample Date/Time: 05/01/12 1022
Sample Collected By: J.J. Hollingshead
Customer

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
Xylenes (total)	**ND**	0.00154	0.004	mg/l	1.00	V4	2E03043	05/02/12 1535	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*0.0497 mg/l*	*0.0500 mg/l*	*99 %*	*19-168*
4-Bromofluorobenzene (EPA 8260B)	*0.0492 mg/l*	*0.0500 mg/l*	*98 %*	*18-171*
1,2-Dichloroethane-d4 (EPA 8260B)	*0.0483 mg/l*	*0.0500 mg/l*	*97 %*	*18-175*

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, 7196A										
Hexavalent Chromium	**ND**	0.005	0.005	mg/l	1.00	SB	2E01057	05/01/12 1545	BLF	
Conventional Chemistry Parameters, EPA 180.1 Rev2.0										
Turbidity	**2.3**	0.50	0.5	NTU	1.00	D1	2E01062	05/01/12 1635	BAF	
Conventional Chemistry Parameters, EPA 9050A										
Conductivity @ 25°C	**1780**	1.00	1	uS/cm	1.00	Y1	2E03046	05/03/12 1006	MDG	
Conventional Chemistry Parameters, EPA 9070A										
Oil & Grease (HEM)	**ND**	0.93	2.6	mg/l	1.03	W3	2E04020	05/04/12 1321	TK	
Conventional Chemistry Parameters, SM 2320B										
Bicarbonate Alkalinity	**206**	20.0	20	mg CaCO3/l	1.00	IA3	2E04022	05/04/12 1556	BLF	
Conventional Chemistry Parameters, SM2540C										
Total Dissolved Solids	**1050**	5.07	25	mg/l	1.00	W3	2E03048	05/03/12 1202	BLF	Q-18
Conventional Chemistry Parameters, SM2540D										
Total Suspended Solids	**ND**	2.50	2.5	mg/l	1.00	Proweig	2E02060	05/02/12 1155	BLF	
Conventional Chemistry Parameters, SM4500H+B										
pH	**6.5**	0.1	0.1	pH Units	1.00	IA3	2E01061	05/01/12 1630	BAF	M-06a, S-06
Conventional Chemistry Parameters, SM5540C										
Methylene Blue Active Substances	**0.107**	0.073	0.2	mg/l	1.00	SB	2E03038	05/03/12 0722	BLF	J

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-01
Sample Type: Grab
Sample Description: WW-I
Matrix: Aqueous
Sample Date/Time: 05/01/12 1022
Sample Collected By: J.J. Hollingshead
Customer

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Metals (Total), EPA 3010A										
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB1	2E02056	05/02/12 0850	RLC	
Metals (Total), EPA 6010B										
Arsenic	**ND**	0.010	0.01	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Barium	**0.036**	0.0002	0.0008	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Cadmium	**ND**	0.0003	0.001	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Calcium	**83.4**	0.11	0.5	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Chromium	**ND**	0.001	0.002	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Iron	**9.11**	0.01	0.1	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Lead	**0.002**	0.001	0.0025	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Magnesium	**27.7**	0.005	0.01	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	Q-21
Manganese	**0.741**	0.0002	0.0008	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Potassium	**2.19**	0.217	0.5	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Selenium	**ND**	0.003	0.005	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Silver	**ND**	0.001	0.002	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Sodium	**231**	0.17	0.5	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	Q-21
Strontium	**0.998**	0.0003	0.001	mg/l	1.00	M4	2E02056	05/04/12 1501	RLC	
Metals (Total), EPA 7470A										
Mercury	**ND**	0.00004	0.0002	mg/l	1.00	M6	2E01063	05/02/12 1503	RLC	
Total Petroleum Hydrocarbons Rev. 3, TX-1005										
TPH 1005 Extraction	**Completed**	N/A	N/A	N/A	0.87		2E01052	05/01/12 1725	PMS	
TPH (C6-C12)	**ND**	0.519	1.2	mg/l	0.87	D1	2E01052	05/02/12 0646	PMS	
TPH (>C12-C28)	**ND**	0.450	0.52	mg/l	0.87	D1	2E01052	05/02/12 0646	PMS	
TPH (>C28-C35)	**ND**	0.519	0.6	mg/l	0.87	D1	2E01052	05/02/12 0646	PMS	
TPH (C6-C35)	**ND**	0.765	2	mg/l	0.87	D1	2E01052	05/02/12 0646	PMS	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
1-Chlorooctane (TX-1005)	*20.4 mg/l*	*21.9 mg/l*	*93 %*	*70-130*
o-Terphenyl (TX-1005)	*19.9 mg/l*	*21.9 mg/l*	*91 %*	*70-130*

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-H
Sample Date/Time: 05/01/12 1058

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Methanol, EPA 8015B mod										
Methanol	**ND**	2.84	10	mg/l	1.00	V5	2E02069	05/02/12 1551	TA	
Glycols, EPA 8015B mod										
Ethylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2E01064	05/02/12 1022	TA	
Propylene Glycol	**ND**	25.0	25	mg/l	1.00	V5	2E01064	05/02/12 1022	TA	

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-H
Sample Date/Time: 05/01/12 1058

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B										
Benzene	**ND**	0.000620	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Bromobenzene	**ND**	0.000750	0.003	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Bromochloromethane	**ND**	0.000520	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Bromodichloromethane	**ND**	0.000330	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Bromoform (Tribromomethane)	**ND**	0.000690	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Bromomethane (Methyl Bromide)	**ND**	0.000560	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
n-Butylbenzene	**ND**	0.000680	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
sec-Butylbenzene	**ND**	0.000890	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
tert-Butylbenzene	**ND**	0.000350	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Carbon Tetrachloride	**ND**	0.00147	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Chlorobenzene	**ND**	0.000530	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Chloroethane (Ethyl Chloride)	**ND**	0.000560	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Chloroform	**ND**	0.000510	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Chloromethane (Methyl Chloride)	**ND**	0.00167	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
2-Chlorotoluene	**ND**	0.000330	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
4-Chlorotoluene	**ND**	0.000550	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Dibromochloromethane (Chlorodibromo...)	**ND**	0.000470	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.000980	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.000400	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,2-Dichlorobenzene	**ND**	0.000350	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,3-Dichlorobenzene	**ND**	0.000390	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,4-Dichlorobenzene	**ND**	0.000380	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Dichlorodifluoromethane	**ND**	0.000580	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,1-Dichloroethane	**ND**	0.000570	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.000400	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.000370	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
cis-1,2-Dichloroethene	**ND**	0.000450	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
trans-1,2-Dichloroethene	**ND**	0.000920	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-H
Sample Date/Time: 05/01/12 1058

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.000360	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,3-Dichloropropane	**ND**	0.000700	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
2,2-Dichloropropane	**ND**	0.00126	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,1-Dichloropropene	**ND**	0.00105	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Ethyl Benzene	**ND**	0.000670	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Hexachlorobutadiene	**ND**	0.000960	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Isopropylbenzene (Cumene)	**ND**	0.00108	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
p-Isopropyltoluene	**ND**	0.000390	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Methyl tert butyl ether (MTBE)	**ND**	0.000370	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Methylene Bromide (Dibromomethane)	**ND**	0.000500	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Methylene Chloride (Dichloromethane)	**ND**	0.00500	0.005	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Naphthalene	**ND**	0.00500	0.005	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
n-Propylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Styrene	**ND**	0.00114	0.003	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,1,1,2-Tetrachloroethane	**ND**	0.000860	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,1,2,2-Tetrachloroethane	**ND**	0.000400	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Tetrachloroethene (Perchloroethylene)	**ND**	0.00141	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Toluene	**ND**	0.00500	0.005	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,2,3-Trichlorobenzene	**ND**	0.000960	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,2,4-Trichlorobenzene	**ND**	0.000900	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.000980	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,1,2-Trichloroethane	**ND**	0.000550	0.003	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Trichloroethene (Trichloroethylene)	**ND**	0.000390	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Trichlorofluoromethane	**ND**	0.000440	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,2,3-Trichloropropane	**ND**	0.000600	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,2,4-Trimethylbenzene	**ND**	0.000840	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
1,3,5-Trimethylbenzene	**ND**	0.000330	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	
Vinyl Chloride	**ND**	0.000450	0.002	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-02
Sample Type: Grab
Matrix: Aqueous
Sample Collected By: J.J. Hollingshead
Customer
Sample Description: WW-H
Sample Date/Time: 05/01/12 1058

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Volatile Organics, EPA 8260B (continued)										
Xylenes (total)	**ND**	0.00154	0.004	mg/l	1.00	V4	2E03043	05/02/12 1800	ZT	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
Toluene-d8 (EPA 8260B)	*0.0498 mg/l*	*0.0500 mg/l*	*100 %*	*19-168*
4-Bromofluorobenzene (EPA 8260B)	*0.0494 mg/l*	*0.0500 mg/l*	*99 %*	*18-171*
1,2-Dichloroethane-d4 (EPA 8260B)	*0.0489 mg/l*	*0.0500 mg/l*	*98 %*	*18-175*

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Conventional Chemistry Parameters, 7196A										
Hexavalent Chromium	**ND**	0.005	0.005	mg/l	1.00	SB	2E01057	05/01/12 1545	BLF	
Conventional Chemistry Parameters, EPA 180.1 Rev2.0										
Turbidity	**1.9**	0.50	0.5	NTU	1.00	D1	2E01062	05/01/12 1635	BAF	
Conventional Chemistry Parameters, EPA 9050A										
Conductivity @ 25°C	**1560**	1.00	1	uS/cm	1.00	Y1	2E03046	05/03/12 1006	MDG	
Conventional Chemistry Parameters, EPA 9070A										
Oil & Grease (HEM)	**ND**	0.93	2.6	mg/l	1.03	W3	2E04020	05/04/12 1321	TK	
Conventional Chemistry Parameters, SM 2320B										
Bicarbonate Alkalinity	**194**	20.0	20	mg CaCO3/l	1.00	IA3	2E04022	05/04/12 1556	BLF	
Conventional Chemistry Parameters, SM2540C										
Total Dissolved Solids	**944**	5.07	25	mg/l	1.00	W3	2E03048	05/03/12 1202	BLF	Q-18
Conventional Chemistry Parameters, SM2540D										
Total Suspended Solids	**ND**	2.50	2.5	mg/l	1.00	Proweig	2E02060	05/02/12 1156	BLF	
Conventional Chemistry Parameters, SM4500H+B										
pH	**6.4**	0.1	0.1	pH Units	1.00	IA3	2E01061	05/01/12 1630	BAF	M-06, S-06
Conventional Chemistry Parameters, SM5540C										
Methylene Blue Active Substances	**0.145**	0.073	0.2	mg/l	1.00	SB	2E03038	05/03/12 0722	BLF	J

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Report of Sample Analysis

Modern Geosciences LLC
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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Laboratory ID #: 1205023-02
Sample Type: Grab
Sample Description: WW-H
Matrix: Aqueous
Sample Date/Time: 05/01/12 1058
Sample Collected By: J.J. Hollingshead
Customer

Analyte(s)	Result	SDL	MQL	Units	F*	Inst	Batch	Analysis Date/Time	Anlst	Flag
Metals (Total), EPA 3010A										
Acid Digestion of Aqueous	**Completed**	N/A	N/A	-	1.00	DB1	2E02056	05/02/12 0850	RLC	
Metals (Total), EPA 6010B										
Arsenic	**ND**	0.010	0.01	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Barium	**0.029**	0.0002	0.0008	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Cadmium	**0.0006**	0.0003	0.001	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	J
Calcium	**92.3**	0.11	0.5	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Chromium	**ND**	0.001	0.002	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Iron	**5.16**	0.01	0.1	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Lead	**0.002**	0.001	0.0025	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Magnesium	**25.7**	0.005	0.01	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Manganese	**1.46**	0.0002	0.0008	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Potassium	**1.43**	0.217	0.5	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Selenium	**ND**	0.003	0.005	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Silver	**ND**	0.001	0.002	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Sodium	**183**	0.17	0.5	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Strontium	**0.818**	0.0003	0.001	mg/l	1.00	M4	2E02056	05/04/12 1508	RLC	
Metals (Total), EPA 7470A										
Mercury	**ND**	0.00004	0.0002	mg/l	1.00	M6	2E01063	05/02/12 1505	RLC	
Total Petroleum Hydrocarbons Rev. 3, TX-1005										
TPH 1005 Extraction	**Completed**	N/A	N/A	N/A	0.89		2E01052	05/01/12 1725	PMS	
TPH (C6-C12)	**ND**	0.533	1.2	mg/l	0.89	D1	2E01052	05/02/12 0741	PMS	
TPH (>C12-C28)	**ND**	0.462	0.52	mg/l	0.89	D1	2E01052	05/02/12 0741	PMS	
TPH (>C28-C35)	**ND**	0.533	0.6	mg/l	0.89	D1	2E01052	05/02/12 0741	PMS	
TPH (C6-C35)	**ND**	0.786	2	mg/l	0.89	D1	2E01052	05/02/12 0741	PMS	

Surrogate	Result	Spike Conc.	Recovery	Rec. Limits
1-Chlorooctane (TX-1005)	*23.2 mg/l*	*22.4 mg/l*	*103 %*	*70-130*
o-Terphenyl (TX-1005)	*22.8 mg/l*	*22.4 mg/l*	*101 %*	*70-130*

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Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Methanol - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E02069-BLK1)										
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 14:13										
Methanol	**ND**	2.84	mg/l							
Laboratory Control Sample (2E02069-BS1)										
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 14:27										
Methanol	**95.5**	2.84	mg/l	100		95	58-133			
Laboratory Control Sample Duplicate (2E02069-BSD1)										
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 14:41										
Methanol	**98.0**	2.84	mg/l	100		98	58-133	3	28	
Matrix Spike (2E02069-MS1)					**Source: 1204629-01**					
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 14:55										
Methanol	**127**	2.84	mg/l	100	ND	127	37-140			
Matrix Spike Duplicate (2E02069-MSD1)					**Source: 1204629-01**					
Prepared: 05/02/12 13:51 Analyzed: 05/02/12 15:09										
Methanol	**117**	2.84	mg/l	100	ND	117	37-140	8	40	

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
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Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Glycols - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E01064-BLK1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 15:23										
Ethylene Glycol	**ND**	25.0	mg/l							
Propylene Glycol	**ND**	25.0	mg/l							
Laboratory Control Sample (2E01064-BS1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 15:40										
Ethylene Glycol	**99.2**	25.0	mg/l	100		99	10-140			
Propylene Glycol	**101**	25.0	mg/l	100		101	10-140			
Laboratory Control Sample Duplicate (2E01064-BSD1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 15:56										
Ethylene Glycol	**102**	25.0	mg/l	100		102	10-140	3	40	
Propylene Glycol	**99.3**	25.0	mg/l	100		99	10-140	1	40	
Matrix Spike (2E01064-MS1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 16:13					**Source: 1204629-01**					
Ethylene Glycol	**82.5**	25.0	mg/l	100	ND	83	10-140			
Propylene Glycol	**61.8**	25.0	mg/l	100	ND	62	10-140			
Matrix Spike Duplicate (2E01064-MSD1)										
Prepared: 05/01/12 11:01 Analyzed: 05/01/12 16:29					**Source: 1204629-01**					
Ethylene Glycol	**101**	25.0	mg/l	100	ND	101	10-140	20	40	
Propylene Glycol	**60.0**	25.0	mg/l	100	ND	60	10-140	3	30	

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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E03043-BLK1)										
Prepared: 05/02/12 10:01 Analyzed: 05/02/12 10:58										
Benzene	**ND**	0.0006	mg/l							
Bromobenzene	**ND**	0.0008	mg/l							
Bromochloromethane	**ND**	0.0005	mg/l							
Bromodichloromethane	**ND**	0.0003	mg/l							
Bromoform (Tribromomethane)	**ND**	0.0007	mg/l							
Bromomethane (Methyl Bromide)	**ND**	0.0006	mg/l							
n-Butylbenzene	**ND**	0.0007	mg/l							
sec-Butylbenzene	**ND**	0.0009	mg/l							
tert-Butylbenzene	**ND**	0.0004	mg/l							
Carbon Tetrachloride	**ND**	0.001	mg/l							
Chlorobenzene	**ND**	0.0005	mg/l							
Chloroethane (Ethyl Chloride)	**ND**	0.0006	mg/l							
Chloroform	**ND**	0.0005	mg/l							
Chloromethane (Methyl Chloride)	**ND**	0.002	mg/l							
2-Chlorotoluene	**ND**	0.0003	mg/l							
4-Chlorotoluene	**ND**	0.0006	mg/l							
Dibromochloromethane (Chlorodibromo...)	**ND**	0.0005	mg/l							
1,2-Dibromo-3-chloropropane (DBCP)	**ND**	0.001	mg/l							
1,2-Dibromoethane (Ethylene Dibromide)	**ND**	0.0004	mg/l							
1,2-Dichlorobenzene	**ND**	0.0004	mg/l							
1,3-Dichlorobenzene	**ND**	0.0004	mg/l							
1,4-Dichlorobenzene	**ND**	0.0004	mg/l							
Dichlorodifluoromethane	**ND**	0.0006	mg/l							
1,1-Dichloroethane	**ND**	0.0006	mg/l							
1,2-Dichloroethane (Ethylene Dichloride)	**ND**	0.0004	mg/l							
1,1-Dichloroethene (Vinylidene Chloride)	**ND**	0.0004	mg/l							
cis-1,2-Dichloroethene	**ND**	0.0004	mg/l							
trans-1,2-Dichloroethene	**ND**	0.0009	mg/l							
1,2-Dichloropropane (Propylene Dichloride)	**ND**	0.0004	mg/l							
1,3-Dichloropropane	**ND**	0.0007	mg/l							
2,2-Dichloropropane	**ND**	0.001	mg/l							
1,1-Dichloropropene	**ND**	0.001	mg/l							

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E03043-BLK1)										
Prepared: 05/02/12 10:01 Analyzed: 05/02/12 10:58										
Ethyl Benzene	**ND**	0.0007	mg/l							
Hexachlorobutadiene	**ND**	0.001	mg/l							
Isopropylbenzene (Cumene)	**ND**	0.001	mg/l							
p-Isopropyltoluene	**ND**	0.0004	mg/l							
Methyl tert butyl ether (MTBE)	**ND**	0.0004	mg/l							
Methylene Bromide (Dibromomethane)	**ND**	0.0005	mg/l							
Methylene Chloride (Dichloromethane)	**ND**	0.005	mg/l							
Naphthalene	**ND**	0.005	mg/l							
n-Propylbenzene	**ND**	0.0008	mg/l							
Styrene	**ND**	0.001	mg/l							
1,1,1,2-Tetrachloroethane	**ND**	0.0009	mg/l							
1,1,2,2-Tetrachloroethane	**ND**	0.0004	mg/l							
Tetrachloroethene (Perchloroethylene)	**ND**	0.001	mg/l							
Toluene	**ND**	0.005	mg/l							
1,2,3-Trichlorobenzene	**ND**	0.001	mg/l							
1,2,4-Trichlorobenzene	**ND**	0.0009	mg/l							
1,1,1-Trichloroethane (Methyl Chloroform)	**ND**	0.001	mg/l							
1,1,2-Trichloroethane	**ND**	0.0006	mg/l							
Trichloroethene (Trichloroethylene)	**ND**	0.0004	mg/l							
Trichlorofluoromethane	**ND**	0.0004	mg/l							
1,2,3-Trichloropropane	**ND**	0.0006	mg/l							
1,2,4-Trimethylbenzene	**ND**	0.0008	mg/l							
1,3,5-Trimethylbenzene	**ND**	0.0003	mg/l							
Vinyl Chloride	**ND**	0.0004	mg/l							
m-,p-Xylene	**ND**	0.002	mg/l							
o-Xylene	**ND**	0.0004	mg/l							
Surrogate: Toluene-d8	**0.0490**		mg/l	0.0500		98	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0502**		mg/l	0.0500		100	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0485**		mg/l	0.0500		97	18-175			

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2E03043-BS1)										
Prepared: 05/02/12 10:01 Analyzed: 05/02/12 17:25										
Benzene	**0.021**	0.0006	mg/l	0.0200		105	80-125			
Bromobenzene	**0.020**	0.0008	mg/l	0.0200		102	77-127			
Bromochloromethane	**0.022**	0.0005	mg/l	0.0200		109	75-134			
Bromodichloromethane	**0.021**	0.0003	mg/l	0.0200		107	77-126			
Bromoform (Tribromomethane)	**0.021**	0.0007	mg/l	0.0200		107	73-116			
Bromomethane (Methyl Bromide)	**0.018**	0.0006	mg/l	0.0200		92	56-156			
n-Butylbenzene	**0.020**	0.0007	mg/l	0.0200		102	72-137			
sec-Butylbenzene	**0.021**	0.0009	mg/l	0.0200		106	79-130			
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200		106	81-125			
Carbon Tetrachloride	**0.023**	0.001	mg/l	0.0200		114	76-126			
Chlorobenzene	**0.021**	0.0005	mg/l	0.0200		105	82-122			
Chloroethane (Ethyl Chloride)	**0.018**	0.0006	mg/l	0.0200		92	71-140			
Chloroform	**0.021**	0.0005	mg/l	0.0200		106	71-134			
Chloromethane (Methyl Chloride)	**0.021**	0.002	mg/l	0.0200		104	68-139			
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200		105	78-128			
4-Chlorotoluene	**0.021**	0.0006	mg/l	0.0200		105	75-131			
Dibromochloromethane (Chlorodibromo...)	**0.021**	0.0005	mg/l	0.0200		106	77-120			
1,2-Dibromo-3-chloropropane (DBCP)	**0.021**	0.001	mg/l	0.0200		105	66-126			
1,2-Dibromoethane (Ethylene Dibromide)	**0.021**	0.0004	mg/l	0.0200		103	80-124			
1,2-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		103	77-126			
1,3-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200		103	77-128			
1,4-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200		104	78-127			
Dichlorodifluoromethane	**0.028**	0.0006	mg/l	0.0200		142	54-156			
1,1-Dichloroethane	**0.022**	0.0006	mg/l	0.0200		111	78-133			
1,2-Dichloroethane (Ethylene Dichloride)	**0.021**	0.0004	mg/l	0.0200		105	72-139			
1,1-Dichloroethene (Vinylidene Chloride)	**0.023**	0.0004	mg/l	0.0200		113	75-136			
cis-1,2-Dichloroethene	**0.021**	0.0004	mg/l	0.0200		106	75-132			
trans-1,2-Dichloroethene	**0.023**	0.0009	mg/l	0.0200		114	77-134			
1,2-Dichloropropane (Propylene Dichloride)	**0.021**	0.0004	mg/l	0.0200		105	80-125			
1,3-Dichloropropane	**0.020**	0.0007	mg/l	0.0200		102	78-126			
2,2-Dichloropropane	**0.022**	0.001	mg/l	0.0200		111	68-142			
1,1-Dichloropropene	**0.022**	0.001	mg/l	0.0200		107	76-125			

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2E03043-BS1)										
Prepared: 05/02/12 10:01 Analyzed: 05/02/12 17:25										
Ethyl Benzene	**0.021**	0.0007	mg/l	0.0200		103	79-127			
Hexachlorobutadiene	**0.020**	0.001	mg/l	0.0200		101	77-125			
Isopropylbenzene (Cumene)	**0.021**	0.001	mg/l	0.0200		105	81-128			
p-Isopropyltoluene	**0.021**	0.0004	mg/l	0.0200		107	78-131			
Methyl tert butyl ether (MTBE)	**0.021**	0.0004	mg/l	0.0200		104	75-126			
Methylene Bromide (Dibromomethane)	**0.020**	0.0005	mg/l	0.0200		102	79-125			
Methylene Chloride (Dichloromethane)	**0.022**	0.003	mg/l	0.0200		112	62-151			
Naphthalene	**0.020**	0.001	mg/l	0.0200		99	71-125			
n-Propylbenzene	**0.022**	0.0008	mg/l	0.0200		112	77-131			
Styrene	**0.020**	0.001	mg/l	0.0200		100	77-125			
1,1,1,2-Tetrachloroethane	**0.021**	0.0009	mg/l	0.0200		103	80-122			
1,1,2,2-Tetrachloroethane	**0.020**	0.0004	mg/l	0.0200		100	71-131			
Tetrachloroethene (Perchloroethylene)	**0.021**	0.001	mg/l	0.0200		105	73-126			
Toluene	**0.020**	0.0005	mg/l	0.0200		99	78-126			
1,2,3-Trichlorobenzene	**0.020**	0.001	mg/l	0.0200		102	74-126			
1,2,4-Trichlorobenzene	**0.021**	0.0009	mg/l	0.0200		104	72-131			
1,1,1-Trichloroethane (Methyl Chloroform)	**0.021**	0.001	mg/l	0.0200		106	78-129			
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200		101	75-124			
Trichloroethene (Trichloroethylene)	**0.021**	0.0004	mg/l	0.0200		106	78-126			
Trichlorofluoromethane	**0.019**	0.0004	mg/l	0.0200		94	70-142			
1,2,3-Trichloropropane	**0.020**	0.0006	mg/l	0.0200		98	73-127			
1,2,4-Trimethylbenzene	**0.021**	0.0008	mg/l	0.0200		106	78-129			
1,3,5-Trimethylbenzene	**0.021**	0.0003	mg/l	0.0200		103	79-128			
Vinyl Chloride	**0.020**	0.0004	mg/l	0.0200		100	65-141			
m-,p-Xylene	**0.042**	0.002	mg/l	0.0400		104	80-127			
o-Xylene	**0.021**	0.0004	mg/l	0.0200		104	80-125			
Surrogate: Toluene-d8	**0.0500**		mg/l	0.0500		100	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0493**		mg/l	0.0500		99	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0482**		mg/l	0.0500		96	18-175			

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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2E03043-BSD1) Prepared: 05/02/12 10:01 Analyzed: 05/02/12 16:10										
Benzene	**0.020**	0.0006	mg/l	0.0200		100	80-125	5	11	
Bromobenzene	**0.019**	0.0008	mg/l	0.0200		97	77-127	5	12	
Bromochloromethane	**0.021**	0.0005	mg/l	0.0200		105	75-134	4	15	
Bromodichloromethane	**0.020**	0.0003	mg/l	0.0200		101	77-126	5	12	
Bromoform (Tribromomethane)	**0.020**	0.0007	mg/l	0.0200		101	73-116	6	13	
Bromomethane (Methyl Bromide)	**0.017**	0.0006	mg/l	0.0200		85	56-156	8	24	
n-Butylbenzene	**0.020**	0.0007	mg/l	0.0200		98	72-137	4	15	
sec-Butylbenzene	**0.020**	0.0009	mg/l	0.0200		102	79-130	4	12	
tert-Butylbenzene	**0.020**	0.0004	mg/l	0.0200		100	81-125	5	11	
Carbon Tetrachloride	**0.021**	0.001	mg/l	0.0200		107	76-126	6	10	
Chlorobenzene	**0.020**	0.0005	mg/l	0.0200		99	82-122	5	10	
Chloroethane (Ethyl Chloride)	**0.018**	0.0006	mg/l	0.0200		89	71-140	2	13	
Chloroform	**0.020**	0.0005	mg/l	0.0200		102	71-134	4	13	
Chloromethane (Methyl Chloride)	**0.020**	0.002	mg/l	0.0200		100	68-139	4	18	
2-Chlorotoluene	**0.020**	0.0003	mg/l	0.0200		101	78-128	5	11	
4-Chlorotoluene	**0.020**	0.0006	mg/l	0.0200		101	75-131	3	11	
Dibromochloromethane (Chlorodibromo...)	**0.020**	0.0005	mg/l	0.0200		100	77-120	6	11	
1,2-Dibromo-3-chloropropane (DBCP)	**0.021**	0.001	mg/l	0.0200		103	66-126	2	19	
1,2-Dibromoethane (Ethylene Dibromide)	**0.020**	0.0004	mg/l	0.0200		98	80-124	5	13	
1,2-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		99	77-126	3	13	
1,3-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		98	77-128	5	12	
1,4-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200		101	78-127	3	12	
Dichlorodifluoromethane	**0.028**	0.0006	mg/l	0.0200		138	54-156	2	15	
1,1-Dichloroethane	**0.021**	0.0006	mg/l	0.0200		106	78-133	5	13	
1,2-Dichloroethane (Ethylene Dichloride)	**0.020**	0.0004	mg/l	0.0200		102	72-139	2	17	
1,1-Dichloroethene (Vinylidene Chloride)	**0.021**	0.0004	mg/l	0.0200		106	75-136	6	12	
cis-1,2-Dichloroethene	**0.020**	0.0004	mg/l	0.0200		102	75-132	4	11	
trans-1,2-Dichloroethene	**0.022**	0.0009	mg/l	0.0200		110	77-134	3	13	
1,2-Dichloropropane (Propylene Dichloride)	**0.020**	0.0004	mg/l	0.0200		101	80-125	4	10	
1,3-Dichloropropane	**0.020**	0.0007	mg/l	0.0200		98	78-126	5	12	
2,2-Dichloropropane	**0.021**	0.001	mg/l	0.0200		106	68-142	4	13	
1,1-Dichloropropene	**0.021**	0.001	mg/l	0.0200		103	76-125	4	12	

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Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample Duplicate (2E03043-BSD1) Prepared: 05/02/12 10:01 Analyzed: 05/02/12 16:10										
Ethyl Benzene	**0.020**	0.0007	mg/l	0.0200		98	79-127	6	11	
Hexachlorobutadiene	**0.019**	0.001	mg/l	0.0200		96	77-125	5	14	
Isopropylbenzene (Cumene)	**0.020**	0.001	mg/l	0.0200		101	81-128	4	10	
p-Isopropyltoluene	**0.020**	0.0004	mg/l	0.0200		102	78-131	5	12	
Methyl tert butyl ether (MTBE)	**0.020**	0.0004	mg/l	0.0200		100	75-126	4	14	
Methylene Bromide (Dibromomethane)	**0.020**	0.0005	mg/l	0.0200		98	79-125	4	12	
Methylene Chloride (Dichloromethane)	**0.022**	0.003	mg/l	0.0200		108	62-151	4	16	
Naphthalene	**0.019**	0.001	mg/l	0.0200		94	71-125	6	19	
n-Propylbenzene	**0.022**	0.0008	mg/l	0.0200		108	77-131	4	11	
Styrene	**0.019**	0.001	mg/l	0.0200		95	77-125	5	14	
1,1,1,2-Tetrachloroethane	**0.020**	0.0009	mg/l	0.0200		98	80-122	5	12	
1,1,2,2-Tetrachloroethane	**0.020**	0.0004	mg/l	0.0200		98	71-131	2	15	
Tetrachloroethene (Perchloroethylene)	**0.020**	0.001	mg/l	0.0200		100	73-126	5	11	
Toluene	**0.019**	0.0005	mg/l	0.0200		94	78-126	6	10	
1,2,3-Trichlorobenzene	**0.019**	0.001	mg/l	0.0200		96	74-126	6	16	
1,2,4-Trichlorobenzene	**0.020**	0.0009	mg/l	0.0200		99	72-131	5	14	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.020**	0.001	mg/l	0.0200		103	78-129	4	11	
1,1,2-Trichloroethane	**0.019**	0.0006	mg/l	0.0200		95	75-124	5	12	
Trichloroethene (Trichloroethylene)	**0.020**	0.0004	mg/l	0.0200		102	78-126	4	11	
Trichlorofluoromethane	**0.018**	0.0004	mg/l	0.0200		92	70-142	2	12	
1,2,3-Trichloropropane	**0.019**	0.0006	mg/l	0.0200		96	73-127	2	15	
1,2,4-Trimethylbenzene	**0.020**	0.0008	mg/l	0.0200		102	78-129	4	12	
1,3,5-Trimethylbenzene	**0.020**	0.0003	mg/l	0.0200		100	79-128	3	11	
Vinyl Chloride	**0.019**	0.0004	mg/l	0.0200		94	65-141	6	22	
m-,p-Xylene	**0.040**	0.002	mg/l	0.0400		99	80-127	5	12	
o-Xylene	**0.020**	0.0004	mg/l	0.0200		99	80-125	5	10	
Surrogate: Toluene-d8	**0.0490**		mg/l	0.0500		98	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0489**		mg/l	0.0500		98	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0486**		mg/l	0.0500		97	18-175			

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2E03043-MS1)										
Prepared: 05/02/12 10:01 Analyzed: 05/02/12 13:16					**Source: 1204576-01**					
Benzene	**0.021**	0.0006	mg/l	0.0200	ND	105	74-127			
Bromobenzene	**0.021**	0.0008	mg/l	0.0200	ND	103	65-134			
Bromochloromethane	**0.022**	0.0005	mg/l	0.0200	ND	110	78-125			
Bromodichloromethane	**0.022**	0.0003	mg/l	0.0200	ND	110	63-133			
Bromoform (Tribromomethane)	**0.022**	0.0007	mg/l	0.0200	ND	109	63-123			
Bromomethane (Methyl Bromide)	**0.018**	0.0006	mg/l	0.0200	ND	88	38-159			
n-Butylbenzene	**0.020**	0.0007	mg/l	0.0200	ND	100	65-138			
sec-Butylbenzene	**0.021**	0.0009	mg/l	0.0200	ND	104	69-137			
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200	ND	104	62-143			
Carbon Tetrachloride	**0.023**	0.001	mg/l	0.0200	ND	114	73-126			
Chlorobenzene	**0.021**	0.0005	mg/l	0.0200	ND	105	73-128			
Chloroethane (Ethyl Chloride)	**0.019**	0.0006	mg/l	0.0200	ND	96	69-141			
Chloroform	**0.022**	0.0005	mg/l	0.0200	ND	109	58-137			
Chloromethane (Methyl Chloride)	**0.016**	0.002	mg/l	0.0200	ND	80	64-139			
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200	ND	105	68-136			
4-Chlorotoluene	**0.020**	0.0006	mg/l	0.0200	ND	102	68-135			
Dibromochloromethane (Chlorodibromo...)	**0.021**	0.0005	mg/l	0.0200	ND	107	66-128			
1,2-Dibromo-3-chloropropane (DBCP)	**0.023**	0.001	mg/l	0.0200	ND	113	59-134			
1,2-Dibromoethane (Ethylene Dibromide)	**0.021**	0.0004	mg/l	0.0200	ND	107	74-127			
1,2-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	103	68-133			
1,3-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	103	70-133			
1,4-Dichlorobenzene	**0.021**	0.0004	mg/l	0.0200	ND	104	71-132			
Dichlorodifluoromethane	**0.012**	0.0006	mg/l	0.0200	ND	59	38-170			
1,1-Dichloroethane	**0.022**	0.0006	mg/l	0.0200	ND	111	76-129			
1,2-Dichloroethane (Ethylene Dichloride)	**0.022**	0.0004	mg/l	0.0200	ND	108	73-130			
1,1-Dichloroethene (Vinylidene Chloride)	**0.022**	0.0004	mg/l	0.0200	ND	111	49-150			
cis-1,2-Dichloroethene	**0.022**	0.0004	mg/l	0.0200	ND	110	38-157			
trans-1,2-Dichloroethene	**0.022**	0.0009	mg/l	0.0200	ND	108	73-132			
1,2-Dichloropropane (Propylene Dichloride)	**0.021**	0.0004	mg/l	0.0200	ND	106	75-127			
1,3-Dichloropropane	**0.021**	0.0007	mg/l	0.0200	ND	104	71-129			
2,2-Dichloropropane	**0.022**	0.001	mg/l	0.0200	ND	112	73-130			
1,1-Dichloropropene	**0.021**	0.001	mg/l	0.0200	ND	104	73-126			

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2E03043-MS1)										
Prepared: 05/02/12 10:01 Analyzed: 05/02/12 13:16					**Source: 1204576-01**					
Ethyl Benzene	**0.020**	0.0007	mg/l	0.0200	ND	101	69-134			
Hexachlorobutadiene	**0.020**	0.001	mg/l	0.0200	ND	100	65-131			
Isopropylbenzene (Cumene)	**0.021**	0.001	mg/l	0.0200	ND	104	70-137			
p-Isopropyltoluene	**0.020**	0.0004	mg/l	0.0200	ND	102	68-138			
Methyl tert butyl ether (MTBE)	**0.021**	0.0004	mg/l	0.0200	ND	107	70-125			
Methylene Bromide (Dibromomethane)	**0.021**	0.0005	mg/l	0.0200	ND	104	76-125			
Methylene Chloride (Dichloromethane)	**0.024**	0.005	mg/l	0.0200	ND	117	23-171			
Naphthalene	**0.017**	0.005	mg/l	0.0200	ND	84	45-147			
n-Propylbenzene	**0.021**	0.0008	mg/l	0.0200	ND	105	69-136			
Styrene	**0.015**	0.001	mg/l	0.0200	ND	76	66-131			
1,1,1,2-Tetrachloroethane	**0.021**	0.0009	mg/l	0.0200	ND	105	73-126			
1,1,2,2-Tetrachloroethane	**0.021**	0.0004	mg/l	0.0200	ND	106	59-140			
Tetrachloroethene (Perchloroethylene)	**0.021**	0.001	mg/l	0.0200	ND	105	38-182			
Toluene	**0.020**	0.005	mg/l	0.0200	0.001	93	62-135			
1,2,3-Trichlorobenzene	**0.021**	0.001	mg/l	0.0200	ND	103	63-132			
1,2,4-Trichlorobenzene	**0.021**	0.0009	mg/l	0.0200	ND	106	65-134			
1,1,1-Trichloroethane (Methyl Chloroform)	**0.022**	0.001	mg/l	0.0200	ND	109	75-127			
1,1,2-Trichloroethane	**0.021**	0.0006	mg/l	0.0200	ND	104	66-131			
Trichloroethene (Trichloroethylene)	**0.021**	0.0004	mg/l	0.0200	ND	107	55-144			
Trichlorofluoromethane	**0.020**	0.0004	mg/l	0.0200	ND	103	70-138			
1,2,3-Trichloropropane	**0.020**	0.0006	mg/l	0.0200	ND	101	66-135			
1,2,4-Trimethylbenzene	**0.017**	0.0008	mg/l	0.0200	ND	84	66-138			
1,3,5-Trimethylbenzene	**0.017**	0.0003	mg/l	0.0200	ND	83	70-136			
Vinyl Chloride	**0.017**	0.0004	mg/l	0.0200	ND	84	50-153			
Xylenes (total)	**0.058**	0.002	mg/l	0.0600	ND	98	73-129			
Surrogate: Toluene-d8	**0.0495**		mg/l	0.0500		99	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0489**		mg/l	0.0500		98	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0487**		mg/l	0.0500		97	18-175			

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Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2E03043-MSD1)										
Prepared: 05/02/12 10:01 Analyzed: 05/02/12 13:51					**Source: 1204576-01**					
Benzene	**0.021**	0.0006	mg/l	0.0200	ND	106	74-127	1	18	
Bromobenzene	**0.021**	0.0008	mg/l	0.0200	ND	103	65-134	0.6	23	
Bromochloromethane	**0.022**	0.0005	mg/l	0.0200	ND	109	78-125	1	16	
Bromodichloromethane	**0.022**	0.0003	mg/l	0.0200	ND	108	63-133	2	18	
Bromoform (Tribromomethane)	**0.021**	0.0007	mg/l	0.0200	ND	106	63-123	3	18	
Bromomethane (Methyl Bromide)	**0.017**	0.0006	mg/l	0.0200	ND	86	38-159	2	22	
n-Butylbenzene	**0.020**	0.0007	mg/l	0.0200	ND	99	65-138	0.5	23	
sec-Butylbenzene	**0.021**	0.0009	mg/l	0.0200	ND	105	69-137	0.4	22	
tert-Butylbenzene	**0.021**	0.0004	mg/l	0.0200	ND	106	62-143	1	23	
Carbon Tetrachloride	**0.023**	0.001	mg/l	0.0200	ND	116	73-126	1	18	
Chlorobenzene	**0.021**	0.0005	mg/l	0.0200	ND	104	73-128	0.8	18	
Chloroethane (Ethyl Chloride)	**0.019**	0.0006	mg/l	0.0200	ND	96	69-141	0.2	19	
Chloroform	**0.022**	0.0005	mg/l	0.0200	ND	108	58-137	1	18	
Chloromethane (Methyl Chloride)	**0.016**	0.002	mg/l	0.0200	ND	82	64-139	2	21	
2-Chlorotoluene	**0.021**	0.0003	mg/l	0.0200	ND	105	68-136	0.2	29	
4-Chlorotoluene	**0.020**	0.0006	mg/l	0.0200	ND	102	68-135	0.3	22	
Dibromochloromethane (Chlorodibromo...)	**0.021**	0.0005	mg/l	0.0200	ND	106	66-128	0.8	20	
1,2-Dibromo-3-chloropropane (DBCP)	**0.022**	0.001	mg/l	0.0200	ND	110	59-134	3	27	
1,2-Dibromoethane (Ethylene Dibromide)	**0.021**	0.0004	mg/l	0.0200	ND	105	74-127	2	17	
1,2-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200	ND	102	68-133	1	23	
1,3-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200	ND	102	70-133	1	23	
1,4-Dichlorobenzene	**0.020**	0.0004	mg/l	0.0200	ND	102	71-132	2	22	
Dichlorodifluoromethane	**0.012**	0.0006	mg/l	0.0200	ND	59	38-170	1	24	
1,1-Dichloroethane	**0.022**	0.0006	mg/l	0.0200	ND	112	76-129	0.9	16	
1,2-Dichloroethane (Ethylene Dichloride)	**0.021**	0.0004	mg/l	0.0200	ND	106	73-130	3	17	
1,1-Dichloroethene (Vinylidene Chloride)	**0.020**	0.0004	mg/l	0.0200	ND	102	49-150	9	23	
cis-1,2-Dichloroethene	**0.022**	0.0004	mg/l	0.0200	ND	110	38-157	0.6	24	
trans-1,2-Dichloroethene	**0.022**	0.0009	mg/l	0.0200	ND	111	73-132	2	19	
1,2-Dichloropropane (Propylene Dichloride)	**0.021**	0.0004	mg/l	0.0200	ND	107	75-127	0.4	19	
1,3-Dichloropropane	**0.020**	0.0007	mg/l	0.0200	ND	103	71-129	1	18	
2,2-Dichloropropane	**0.023**	0.001	mg/l	0.0200	ND	113	73-130	0.8	17	
1,1-Dichloropropene	**0.022**	0.001	mg/l	0.0200	ND	110	73-126	5	18	

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Volatile Organics - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike Duplicate (2E03043-MSD1)										
Prepared: 05/02/12 10:01 Analyzed: 05/02/12 13:51					**Source: 1204576-01**					
Ethyl Benzene	**0.020**	0.0007	mg/l	0.0200	ND	102	69-134	0.4	17	
Hexachlorobutadiene	**0.020**	0.001	mg/l	0.0200	ND	101	65-131	0.7	24	
Isopropylbenzene (Cumene)	**0.021**	0.001	mg/l	0.0200	ND	105	70-137	0.6	23	
p-Isopropyltoluene	**0.021**	0.0004	mg/l	0.0200	ND	103	68-138	0.9	22	
Methyl tert butyl ether (MTBE)	**0.021**	0.0004	mg/l	0.0200	ND	105	70-125	2	20	
Methylene Bromide (Dibromomethane)	**0.021**	0.0005	mg/l	0.0200	ND	104	76-125	0.3	19	
Methylene Chloride (Dichloromethane)	**0.024**	0.005	mg/l	0.0200	ND	118	23-171	0.4	30	
Naphthalene	**0.018**	0.005	mg/l	0.0200	ND	88	45-147	4	27	
n-Propylbenzene	**0.021**	0.0008	mg/l	0.0200	ND	106	69-136	0.5	21	
Styrene	**0.016**	0.001	mg/l	0.0200	ND	81	66-131	6	23	
1,1,1,2-Tetrachloroethane	**0.021**	0.0009	mg/l	0.0200	ND	105	73-126	0.2	18	
1,1,2,2-Tetrachloroethane	**0.020**	0.0004	mg/l	0.0200	ND	103	59-140	3	26	
Tetrachloroethene (Perchloroethylene)	**0.021**	0.001	mg/l	0.0200	ND	105	38-182	0.2	27	
Toluene	**0.020**	0.005	mg/l	0.0200	0.001	94	62-135	1	19	
1,2,3-Trichlorobenzene	**0.020**	0.001	mg/l	0.0200	ND	103	63-132	0.3	27	
1,2,4-Trichlorobenzene	**0.020**	0.0009	mg/l	0.0200	ND	103	65-134	3	24	
1,1,1-Trichloroethane (Methyl Chloroform)	**0.022**	0.001	mg/l	0.0200	ND	110	75-127	0.2	19	
1,1,2-Trichloroethane	**0.020**	0.0006	mg/l	0.0200	ND	101	66-131	3	19	
Trichloroethene (Trichloroethylene)	**0.022**	0.0004	mg/l	0.0200	ND	108	55-144	1	18	
Trichlorofluoromethane	**0.021**	0.0004	mg/l	0.0200	ND	103	70-138	0.2	18	
1,2,3-Trichloropropane	**0.020**	0.0006	mg/l	0.0200	ND	99	66-135	2	36	
1,2,4-Trimethylbenzene	**0.018**	0.0008	mg/l	0.0200	ND	90	66-138	6	21	
1,3,5-Trimethylbenzene	**0.017**	0.0003	mg/l	0.0200	ND	87	70-136	5	21	
Vinyl Chloride	**0.017**	0.0004	mg/l	0.0200	ND	84	50-153	0.06	24	
Xylenes (total)	**0.059**	0.002	mg/l	0.0600	ND	99	73-129	1	19	
Surrogate: Toluene-d8	**0.0497**		mg/l	0.0500		99	19-168			
Surrogate: 4-Bromofluorobenzene	**0.0495**		mg/l	0.0500		99	18-171			
Surrogate: 1,2-Dichloroethane-d4	**0.0479**		mg/l	0.0500		96	18-175			

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Project: Colleyville Water Resampling
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Print Date/Time: 05/08/12 17:14

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E01057-BLK1)										
Prepared & Analyzed: 05/01/12 14:15										
Hexavalent Chromium	**ND**	0.005	mg/l							
Laboratory Control Sample (2E01057-BS1)										
Prepared & Analyzed: 05/01/12 14:15										
Hexavalent Chromium	**0.491**	0.005	mg/l	0.500		98	87-111			
Laboratory Control Sample Duplicate (2E01057-BSD1)										
Prepared & Analyzed: 05/01/12 14:15										
Hexavalent Chromium	**0.480**	0.005	mg/l	0.500		96	87-111	2	5	
Matrix Spike (2E01057-MS1)					**Source: 1205010-01**					
Prepared & Analyzed: 05/01/12 14:15										
Hexavalent Chromium	**0.587**	0.005	mg/l	0.526	ND	112	85-112			
Matrix Spike Duplicate (2E01057-MSD1)					**Source: 1205010-01**					
Prepared & Analyzed: 05/01/12 14:15										
Hexavalent Chromium	**0.586**	0.005	mg/l	0.526	ND	111	85-112	0.2	5	
Duplicate (2E01061-DUP1)					**Source: 1205023-01**					
Prepared & Analyzed: 05/01/12 16:30										
pH	**6.46**	0.1	pH Units		6.49			0.5	1	M-06
Reference (2E01061-SRM1)										
Prepared & Analyzed: 05/01/12 16:30										
pH	**5.98**	0.1	pH Units	6.00		100	99-101			M-06b

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E01062-BLK1)										
Prepared & Analyzed: 05/01/12 16:35										
Turbidity	**ND**	0.50	NTU							
Duplicate (2E01062-DUP1)					**Source: 1205023-01**					
Prepared & Analyzed: 05/01/12 16:35										
Turbidity	**2.3**	0.50	NTU		2.3			0.9	2	
Reference (2E01062-SRM1)										
Prepared & Analyzed: 05/01/12 16:35										
Turbidity	**20**	0.50	NTU	20.0		100	90-110			
Blank (2E02060-BLK1)										
Prepared: 05/02/12 09:16 Analyzed: 05/02/12 11:47										
Total Suspended Solids	**ND**	2.50	mg/l							
Laboratory Control Sample (2E02060-BS1)										
Prepared: 05/02/12 09:16 Analyzed: 05/02/12 11:48										
Total Suspended Solids	**185**	25.0	mg/l	200		92	90-110			
Duplicate (2E02060-DUP1)					**Source: 1205006-01**					
Prepared: 05/02/12 09:16 Analyzed: 05/02/12 11:57										
Total Suspended Solids	**58.0**	16.7	mg/l		44.7			26	20	Q-26, R-01
Duplicate (2E02060-DUP2)					**Source: 1205019-01**					
Prepared: 05/02/12 09:16 Analyzed: 05/02/12 11:58										
Total Suspended Solids	**69.0**	17.2	mg/l		62.8			9	20	R-01

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E03038-BLK1)										
Prepared & Analyzed: 05/03/12 07:22										
Methylene Blue Active Substances	**ND**	0.073	mg/l							
Laboratory Control Sample (2E03038-BS1)										
Prepared & Analyzed: 05/03/12 07:22										
Methylene Blue Active Substances	**1.13**	0.073	mg/l	1.00		113	64-149			
Laboratory Control Sample Duplicate (2E03038-BSD1)										
Prepared & Analyzed: 05/03/12 07:22										
Methylene Blue Active Substances	**1.12**	0.073	mg/l	1.00		112	64-149	0.7	18	
Matrix Spike (2E03038-MS1)					**Source: 1205023-01**					
Prepared & Analyzed: 05/03/12 07:22										
Methylene Blue Active Substances	**1.13**	0.073	mg/l	1.00	0.107	102	11-177			
Matrix Spike Duplicate (2E03038-MSD1)					**Source: 1205023-01**					
Prepared & Analyzed: 05/03/12 07:22										
Methylene Blue Active Substances	**1.12**	0.073	mg/l	1.00	0.107	101	11-177	1	13	
Blank (2E03046-BLK1)										
Prepared & Analyzed: 05/03/12 10:06										
Conductivity @ 25°C	**ND**	1.00	uS/cm							
Laboratory Control Sample (2E03046-BS1)										
Prepared & Analyzed: 05/03/12 10:06										
Conductivity @ 25°C	**201**	1.00	uS/cm	200		100	98-102			

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Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Duplicate (2E03046-DUP1)										
Prepared & Analyzed: 05/03/12 10:06					**Source: 1205023-01**					
Conductivity @ 25°C	**1770**	1.00	uS/cm		1780			1	2	
Blank (2E03048-BLK1)										
Prepared & Analyzed: 05/03/12 12:02										
Total Dissolved Solids	**ND**	5.07	mg/l							Q-18
Laboratory Control Sample (2E03048-BS1)										
Prepared & Analyzed: 05/03/12 12:02										
Total Dissolved Solids	**228**	5.07	mg/l	250		91	93-106			Q-27
Duplicate (2E03048-DUP1)										
Prepared & Analyzed: 05/03/12 12:02					**Source: 1205023-01**					
Total Dissolved Solids	**1040**	5.07	mg/l		1050			0.5	6	Q-18
Blank (2E04020-BLK1)										
Prepared & Analyzed: 05/04/12 13:21										
Oil & Grease (HEM)	**ND**	0.90	mg/l							
Laboratory Control Sample (2E04020-BS1)										
Prepared & Analyzed: 05/04/12 13:21										
Oil & Grease (HEM)	**37.5**	0.90	mg/l	40.0		94	78-114			
Laboratory Control Sample Duplicate (2E04020-BSD1)										
Prepared & Analyzed: 05/04/12 13:21										
Oil & Grease (HEM)	**36.8**	0.90	mg/l	40.0		92	78-114	2	18	

Pace Analytical Services, Inc.
400 W. Bethany Rd. Suite 190
Allen, TX. 75013
Phone: 972-727-1123

Report of Sample Analysis

Modern Geosciences LLC
1904 Industrial Blvd., Suite 105
Colleyville, TX 76034
ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Conventional Chemistry Parameters - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2E04020-MS1)										
Prepared & Analyzed: 05/04/12 13:21					**Source: 1205011-01**					
Oil & Grease (HEM)	**124**	1.03	mg/l	46.0	75.0	107	78-114			
Blank (2E04022-BLK1)										
Prepared: 05/04/12 15:03 Analyzed: 05/04/12 15:56										
Bicarbonate Alkalinity	**ND**	20.0	mg CaCO3/l							
Laboratory Control Sample (2E04022-BS1)										
Prepared: 05/04/12 15:03 Analyzed: 05/04/12 15:56										
Total Alkalinity	**248**	20.0	mg CaCO3/l	250		99	96-102			
Laboratory Control Sample Duplicate (2E04022-BSD1)										
Prepared: 05/04/12 15:03 Analyzed: 05/04/12 15:56										
Total Alkalinity	**246**	20.0	mg CaCO3/l	250		98	96-102	0.8	3	
Matrix Spike (2E04022-MS1)										
Prepared: 05/04/12 15:03 Analyzed: 05/04/12 15:56					**Source: 1205039-02**					
Total Alkalinity	**292**	20.0	mg CaCO3/l	250	48.0	98	90-110			
Matrix Spike Duplicate (2E04022-MSD1)										
Prepared: 05/04/12 15:03 Analyzed: 05/04/12 15:56					**Source: 1205039-02**					
Total Alkalinity	**296**	20.0	mg CaCO3/l	250	48.0	99	90-110	1	2	

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Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E01063-BLK1)										
Prepared: 05/02/12 09:45 Analyzed: 05/02/12 13:37										
Mercury	**ND**	0.00004	mg/l							
Laboratory Control Sample (2E01063-BS1)										
Prepared: 05/02/12 09:45 Analyzed: 05/02/12 13:44										
Mercury	**0.00268**	0.00004	mg/l	0.00250		107	85-115			
Laboratory Control Sample Duplicate (2E01063-BSD1)										
Prepared: 05/02/12 09:45 Analyzed: 05/02/12 13:49										
Mercury	**0.00276**	0.00004	mg/l	0.00250		110	85-115	3	20	
Matrix Spike (2E01063-MS1)					**Source: 1204696-01**					
Prepared: 05/02/12 09:45 Analyzed: 05/02/12 13:51										
Mercury	**0.00176**	0.00004	mg/l	0.00250	0.00005	69	70-130			Q-02
Matrix Spike Duplicate (2E01063-MSD1)					**Source: 1204696-01**					
Prepared: 05/02/12 09:45 Analyzed: 05/02/12 13:53										
Mercury	**0.00164**	0.00004	mg/l	0.00250	0.00005	64	70-130	7	20	Q-02
Blank (2E02056-BLK1)										
Prepared & Analyzed: 05/02/12 08:50										
Acid Digestion of Aqueous	**Completed**	N/A	-							
Arsenic	**ND**	0.010	mg/l							
Barium	**ND**	0.0002	mg/l							
Cadmium	**0.0003**	0.0003	mg/l							J
Calcium	**ND**	0.11	mg/l							
Chromium	**ND**	0.001	mg/l							
Iron	**ND**	0.01	mg/l							
Lead	**ND**	0.001	mg/l							
Magnesium	**ND**	0.005	mg/l							
Manganese	**ND**	0.0002	mg/l							
Potassium	**ND**	0.217	mg/l							
Selenium	**ND**	0.003	mg/l							
Silver	**ND**	0.001	mg/l							
Sodium	**ND**	0.17	mg/l							
Strontium	**ND**	0.0003	mg/l							

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Laboratory Control Sample (2E02056-BS1)										
Prepared & Analyzed: 05/02/12 08:50										
Acid Digestion of Aqueous	**Completed**	N/A	-				0-0			
Arsenic	**0.548**	0.010	mg/l	0.500		110	80-120			
Barium	**0.540**	0.0002	mg/l	0.500		108	80-120			
Cadmium	**0.547**	0.0003	mg/l	0.500		109	80-120			
Calcium	**10.2**	0.11	mg/l	10.0		102	80-120			
Chromium	**0.521**	0.001	mg/l	0.500		104	80-120			
Iron	**5.40**	0.01	mg/l	5.00		108	80-120			
Lead	**0.542**	0.001	mg/l	0.500		108	80-120			
Magnesium	**10.8**	0.005	mg/l	10.0		108	80-120			
Manganese	**0.514**	0.0002	mg/l	0.500		103	80-120			
Potassium	**10.6**	0.217	mg/l	10.0		106	80-120			
Selenium	**1.13**	0.003	mg/l	1.00		113	80-120			
Silver	**0.541**	0.001	mg/l	0.500		108	80-120			
Sodium	**10.5**	0.17	mg/l	10.0		105	80-120			
Strontium	**0.530**	0.0003	mg/l	0.500		106	80-120			
Laboratory Control Sample Duplicate (2E02056-BSD1)										
Prepared & Analyzed: 05/02/12 08:50										
Acid Digestion of Aqueous	**Completed**	N/A	-				0-0		0	
Arsenic	**0.535**	0.010	mg/l	0.500		107	80-120	2	20	
Barium	**0.538**	0.0002	mg/l	0.500		108	80-120	0.3	20	
Cadmium	**0.531**	0.0003	mg/l	0.500		106	80-120	3	20	
Calcium	**10.0**	0.11	mg/l	10.0		100	80-120	2	20	
Chromium	**0.521**	0.001	mg/l	0.500		104	80-120	0.04	20	
Iron	**5.34**	0.01	mg/l	5.00		107	80-120	1	20	
Lead	**0.534**	0.001	mg/l	0.500		107	80-120	1	20	
Magnesium	**10.2**	0.005	mg/l	10.0		102	80-120	6	20	
Manganese	**0.515**	0.0002	mg/l	0.500		103	80-120	0.06	20	
Potassium	**10.3**	0.217	mg/l	10.0		103	80-120	3	20	
Selenium	**1.08**	0.003	mg/l	1.00		108	80-120	5	20	
Silver	**0.528**	0.001	mg/l	0.500		106	80-120	2	20	
Sodium	**10.2**	0.17	mg/l	10.0		102	80-120	3	20	
Strontium	**0.520**	0.0003	mg/l	0.500		104	80-120	2	20	

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Project #: DFW12028
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Metals (Total) - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2E02056-MS1)										
Prepared & Analyzed: 05/02/12 08:50					**Source: 1205023-01**					
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0			
Arsenic	**0.563**	0.010	mg/l	0.500	ND	113	75-125			
Barium	**0.561**	0.0002	mg/l	0.500	0.036	105	75-125			
Cadmium	**0.541**	0.0003	mg/l	0.500	ND	108	75-125			
Calcium	**92.2**	0.11	mg/l	10.0	83.4	89	75-125			
Chromium	**0.513**	0.001	mg/l	0.500	ND	103	75-125			
Iron	**14.1**	0.01	mg/l	5.00	9.11	100	75-125			
Lead	**0.502**	0.001	mg/l	0.500	0.002	100	75-125			
Magnesium	**34.7**	0.005	mg/l	10.0	27.7	70	75-125			Q-02
Manganese	**1.24**	0.0002	mg/l	0.500	0.741	99	75-125			
Potassium	**13.8**	0.217	mg/l	10.0	2.19	116	75-125			
Selenium	**1.12**	0.003	mg/l	1.00	ND	112	75-125			
Silver	**0.544**	0.001	mg/l	0.500	ND	109	75-125			
Sodium	**239**	0.17	mg/l	10.0	231	78	75-125			
Strontium	**1.46**	0.0003	mg/l	0.500	0.998	94	75-125			
Matrix Spike Duplicate (2E02056-MSD1)										
Prepared & Analyzed: 05/02/12 08:50					**Source: 1205023-01**					
Acid Digestion of Aqueous	**Completed**	N/A	-		ND		0-0		0	
Arsenic	**0.563**	0.010	mg/l	0.500	ND	113	75-125	0.05	20	
Barium	**0.560**	0.0002	mg/l	0.500	0.036	105	75-125	0.2	20	
Cadmium	**0.540**	0.0003	mg/l	0.500	ND	108	75-125	0.1	20	
Calcium	**90.9**	0.11	mg/l	10.0	83.4	75	75-125	1	20	
Chromium	**0.512**	0.001	mg/l	0.500	ND	102	75-125	0.1	20	
Iron	**14.0**	0.01	mg/l	5.00	9.11	98	75-125	0.5	20	
Lead	**0.502**	0.001	mg/l	0.500	0.002	100	75-125	0.02	20	
Magnesium	**34.4**	0.005	mg/l	10.0	27.7	67	75-125	0.8	20	Q-02
Manganese	**1.23**	0.0002	mg/l	0.500	0.741	97	75-125	0.8	20	
Potassium	**13.6**	0.217	mg/l	10.0	2.19	114	75-125	1	20	
Selenium	**1.12**	0.003	mg/l	1.00	ND	112	75-125	0	20	
Silver	**0.545**	0.001	mg/l	0.500	ND	109	75-125	0.1	20	
Sodium	**234**	0.17	mg/l	10.0	231	31	75-125	2	20	Q-02
Strontium	**1.45**	0.0003	mg/l	0.500	0.998	91	75-125	0.8	20	

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Report of Sample Analysis

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ATTN: Kenneth Tramm

Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Total Petroleum Hydrocarbons Rev. 3 - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Blank (2E01052-BLK1)										
Prepared & Analyzed: 05/01/12 14:30										
TPH 1005 Extraction	**Completed**	N/A	N/A							
TPH (C6-C12)	**ND**	0.598	mg/l							
TPH (>C12-C28)	**ND**	0.518	mg/l							
TPH (>C28-C35)	**ND**	0.598	mg/l							
TPH (C6-C35)	**ND**	0.881	mg/l							
Surrogate: 1-Chlorooctane	**22.9**		mg/l	25.2		91	70-130			
Surrogate: o-Terphenyl	**22.5**		mg/l	25.2		89	70-130			
Laboratory Control Sample (2E01052-BS1)										
Prepared & Analyzed: 05/01/12 14:30										
TPH 1005 Extraction	**Completed**	N/A	N/A				0-0			
TPH (C6-C12)	**34.9**	0.600	mg/l	40.0		87	77-121			
TPH (>C12-C28)	**18.1**	0.520	mg/l	20.0		91	79-122			
TPH (>C28-C35)	**5.97**	0.600	mg/l	6.65		90	75-125			
TPH (C6-C35)	**59.0**	0.884	mg/l	66.5		89	79-122			
Surrogate: 1-Chlorooctane	**21.3**		mg/l	25.2		84	70-130			
Surrogate: o-Terphenyl	**21.2**		mg/l	25.2		84	70-130			
Laboratory Control Sample Duplicate (2E01052-BSD1)										
Prepared & Analyzed: 05/01/12 14:30										
TPH 1005 Extraction	**Completed**	N/A	N/A				0-0		0	
TPH (C6-C12)	**36.3**	0.600	mg/l	40.0		91	77-121	4	15	
TPH (>C12-C28)	**19.1**	0.520	mg/l	20.0		96	79-122	6	13	
TPH (>C28-C35)	**6.24**	0.600	mg/l	6.65		94	75-125	5	15	
TPH (C6-C35)	**61.7**	0.885	mg/l	66.5		93	79-122	5	13	
Surrogate: 1-Chlorooctane	**22.6**		mg/l	25.3		89	70-130			
Surrogate: o-Terphenyl	**22.6**		mg/l	25.3		89	70-130			

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Total Petroleum Hydrocarbons Rev. 3 - Quality Control

Analyte(s)	Result	*SDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Matrix Spike (2E01052-MS1)										
Prepared & Analyzed: 05/01/12 14:30					**Source: 1204710-03**					
TPH 1005 Extraction	**Completed**	N/A	N/A		ND		0-0			
TPH (C6-C12)	**30.9**	0.529	mg/l	35.3	ND	88	75-125			
TPH (>C12-C28)	**15.8**	0.459	mg/l	17.6	ND	89	75-125			
TPH (>C28-C35)	**5.18**	0.529	mg/l	5.87	ND	88	75-125			
TPH (C6-C35)	**51.9**	0.780	mg/l	58.7	ND	88	75-125			
Surrogate: 1-Chlorooctane	**18.9**		mg/l	22.3		85	70-130			
Surrogate: o-Terphenyl	**18.5**		mg/l	22.3		83	70-130			
Matrix Spike Duplicate (2E01052-MSD1)										
Prepared & Analyzed: 05/01/12 14:30					**Source: 1204710-03**					
TPH 1005 Extraction	**Completed**	N/A	N/A		ND		0-0		0	
TPH (C6-C12)	**31.6**	0.548	mg/l	36.5	ND	86	75-125	2	20	
TPH (>C12-C28)	**16.6**	0.475	mg/l	18.3	ND	91	75-125	5	20	
TPH (>C28-C35)	**5.41**	0.548	mg/l	6.07	ND	89	75-125	4	20	
TPH (C6-C35)	**53.6**	0.807	mg/l	60.7	ND	88	75-125	3	20	
Surrogate: 1-Chlorooctane	**19.7**		mg/l	23.1		85	70-130			
Surrogate: o-Terphenyl	**19.7**		mg/l	23.1		85	70-130			

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Print Date/Time: 05/08/12 17:14

Notes and Definitions

The results presented in this report were generated using those methods given in 40 CFR Part 136 for Water and Wastewater samples and in SW-846 for RCRA/Solid Waste samples.

J	This value is above the method detection limit but below the reporting limit.
M-06	The pH was measured at a temperature of 19.0°C.
M-06a	The pH was measured at a temperature of 19.1°C.
M-06b	The pH was measured at a temperature of 20.3°C.
Q-02	The recovery of this analyte in the MS was outside the acceptable range due to interference, large dilutions required for analysis or a combination of these factors. The recovery of this analyte in the LCS(s) was within the acceptable range.
Q-18	The recovery of this analyte in the LCS was lower than the acceptable range. This indicates a low bias to the result presented.
Q-21	The recovery of this analyte in the MS was lower than the acceptable range. This indicates a low bias to the result presented.
Q-26	The RPD between duplicate analyses was outside of the acceptable range. This indicates the result was not as precise as expected.
Q-27	The recovery of this analyte in the LCS was outside the acceptable range.
R-01	The higher reporting limit is due to dilutions required for analysis as a result of a high concentration of target and/or non-target parameters in this sample.
S-06	This sample was received outside of the EPA recommended holding time for this parameter. The result presented is, therefore, considered an estimated value.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
ug/kg	micrograms per kilogram
ug/l	micrograms per liter
exc	Not covered under scope of NELAP accreditation.
F*	Calculated factor rounded to 3 significant figures. Concentration factor when <1.00 and dilution factor when >1.00.

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Project: Colleyville Water Resampling
Project #: DFW12028
Print Date/Time: 05/08/12 17:14

Inst	Instrument Identification
Anlst	Analyst Initials
SDL	Sample Detection Limit
MQL	Method Quantitation Limit
naa	This analysis/parameter is not accreditable under the current NELAP program

SHORT HOLD

5/2/12

SUBCONTRACT ORDER

PACE Analytical Services, Inc.

1205023

10190736

SENDING LABORATORY:

PACE Analytical Services, Inc.
400 West Bethany, Suite 190
Allen, TX 75013
Phone: (972) 727-1123
Fax: (972) 727-1175
Project Manager: Customer Service

RECEIVING LABORATORY:

Pace Analytical Services - Minneapolis
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone :(612) 607-1700
Fax: (612) 607-6444

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1205023-01	**Aqueous**	**Sampled:05/01/12 10:22**		
Subout1 See Comments	05/07/12 17:00	05/08/12 10:22		RSK 175 - TRRP
Containers Supplied:				
Other - Unpres (P)	Other - Unpres (Q)	Other - Unpres (R)		
Sample ID: 1205023-02	**Aqueous**	**Sampled:05/01/12 10:58**		
Subout1 See Comments	05/07/12 17:00	05/08/12 10:58		RSK 175 - TRRP
Containers Supplied:				
Other - Unpres (P)	Other - Unpres (Q)	Other - Unpres (R)		

Project Name: Colleyville Water Resampling
Project Number: DFW012028
Sample ID: -01 WW-I
-02 WW-H

Normal TAT

Released By (Signature/Print Name)	Date/Time	Received By (Signature/Print Name)	Date/Time
ERMI	1800 5-1-12	Pace	T=4.6 5/2/12 1017
Released By (Signature/Print Name)	Date/Time	Received By (Signaure/Print Name	Date/Time

Affiliation: ERMI

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Revised Date: 15Feb2012 Page 1 of 1
	Document Number: **F-MN-L-213-rev.02**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace Tx

Project # 10190736

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 798348744146

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [X] no

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____ Temp Blank: Yes ____ No X

Thermometer Used 80344042 or 80512447 **Type of Ice:** Wet Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature 4.6 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 5/2/12 [illegible]

Comments:

Chain of Custody Present:	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name & Signature on COC:	[ ] Yes	[X] No	[ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72hr):	[X] Yes	[ ] No	[ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient Volume:	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used:	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used:	[X] Yes	[ ] No	[ ] N/A	
Containers Intact:	[X] Yes	[ ] No	[ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes	[ ] No	[X] N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	[X] Yes	[ ] No	[ ] N/A	12.
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	[ ] Yes	[ ] No	[X] N/A	13. [ ] HNO3 [ ] H2SO4 [ ] NaOH [ ] HCl Samp #
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4, HCL<2; NaOH >12)	[ ] Yes	[ ] No	[X] N/A	
Exceptions: VOA,Coliform, TOC, Oil and Grease, WI-DRO (water)	[ ] Yes	[X] No		Initial when completed [illegible] Lot # of added preservative
Headspace in VOA Vials (>6mm):	[ ] Yes	[ ] No	[X] N/A	14.
Trip Blank Present:	[ ] Yes	[X] No	[ ] N/A	15.
Trip Blank Custody Seals Present	[ ] Yes	[ ] No	[X] N/A	
Pace Trip Blank Lot # (if purchased): _____				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 5/2/12

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 Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

May 11, 2012

Leslie Underwood
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013

RE: Project 10190736
Project ID: 1205023 Colleyville Water Samp

Dear Leslie Underwood:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Kyle Richardson
kyle.richardson@pacelabs.com
(612)607-1700

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Appendix A
LABORATORY DATA PACKAGE COVER PAGE

This data package is for Job No. 10190736
and consists of:

This signature page, the laboratory review checklist, and the following reportable data:

[X] R1 - Field chain-of-custody documentation;
[X] R2 - Sample identification cross-reference;
[X] R3 - Test reports (analytical data sheets) for each environmental sample that includes:
- a. Items consistent with NELAC Chapter 5,
- b. Dilution factors,
- c. Preparation methods,
- d. Cleanup methods, and
- e. If required for the project, tentatively identified compounds (TICs).

[ ] R4 - Surrogate recovery data including:
- a. Calculated recovery (%R), and
- b. The laboratory's surrogate QC limits.

[X] R5 - Test reports/summary forms for blank samples;
[X] R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
- a. LCS spiking amounts,
- b. Calculated %R for each analyte, and
- c. The laboratory's LCS QC limits.

[X] R7 - Test reports/summary forms for matrix spike/matrix spike duplicates (MS/MSDs) including:
- a. Samples associated with the MS/MSD clearly identified,
- b. MS/MSD spiking amounts,
- c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d. Calculated %Rs and relative percent differences, and
- e. The laboratory's MS/MSD QC limits.

[ ] R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
- a. The amount of analyte measured in the duplicate,
- b. The calculated RPD, and
- c. The laboratory's QC limits for analytical duplicated.

[X] R9 - List of method quantitation limits (MQLs) and detectibility check sample results for each analyte and matrix.
[X] R10 - Other problems or anomolies.

The exception Report for each "No" or Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix and method for which the laboratory does not hold NELAC accredidation under the Texas Laboratory Accredidation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [X] MN DNR 05/26/2011

Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (Printed)	Date
Kyle Richardson		Project Manager	5/11/2012

Laboratory Certifications

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190736

Client: Pasi- Dallas

Project ID: 1205023 Colleyville Water Samp

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Certification IDs

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nebraska Certification #: Pace

Nevada Certification #: MN_00064

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oklahoma Certification #: D9921

REPORT OF LABORATORY ANALYSIS

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the written consent of Pace Analytical Services, Inc.

Laboratory Certifications

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190736

Client: Pasi- Dallas

Project ID: 1205023 Colleyville Water Samp

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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the written consent of Pace Analytical Services, Inc.

Sample Cross Reference

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190736

Client: Pasi- Dallas

Project ID: 1205023 Colleyville Water Samp

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
WW-I 1205023-01	10190736001	WATER	01-May-12 10:22	02-May-12 10:17
WW-H 1205023-02	10190736002	WATER	01-May-12 10:58	02-May-12 10:17

Project Narrative

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190736

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Sample Results

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Client: Pasi- Dallas

Client ID: WW-I 1205023-01
Project ID: 1205023 Colleyville Water Samp
Lab ID: 10190736001
Description: none
Method: RSK 175
RSK 175 AIR Headspace

Project: 10190736
Site: none
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 206496
Collected: 01-May-12
Received: 02-May-12
Prepared: 04-May-12

Units: mg/L

CAS No.	Analyte	Dilution	Qu	Result	MQL	SQL	UQL	Analysis	
74-84-0	Ethane	1	U	<0.00310	0.00620	0.00310		04-May-12 11:37	SK4
74-85-1	Ethene	1	U	<0.00310	0.00620	0.00310		04-May-12 11:37	SK4
74-82-8	Methane	1		0.0112	0.00660	0.000690	16.7	04-May-12 11:37	SK4

3 compound(s) reported

Protocol 5/11/2012 11:19:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Client: Pasi- Dallas

Client ID: WW-H 1205023-02
Project ID: 1205023 Colleyville Water Samp
Lab ID: 10190736002
Description: none
Method: RSK 175
RSK 175 AIR Headspace

Project: 10190736
Site: none
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 206496
Collected: 01-May-12
Received: 02-May-12
Prepared: 04-May-12

Units: mg/L

CAS No.	Analyte	Dilution	Qu	Result	MQL	SQL	UQL	Analysis	
74-84-0	Ethane	1	U	<0.00310	0.00620	0.00310		04-May-12 12:44	SK4
74-85-1	Ethene	1	U	<0.00310	0.00620	0.00310		04-May-12 12:44	SK4
74-82-8	Methane	1		0.0246	0.00660	0.000690	16.7	04-May-12 12:44	SK4

3 compound(s) reported

Protocol 5/11/2012 11:19:16

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Quality Control

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Batch: 206496 **Project:** 10190736 **LCS:** 1189925 04-May-12 7:30

MS: 1190473 04-May-12 8:51

Units: mg/L **MSD:** 1190474 04-May-12 9:45

Original for MS: Batch Sample 60120441002

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Ethane	0.114	0.107	94	0.103	0.00	0.11	0.109	106	96	0.3	70 - 130	30 - 150	30	
Ethene	0.106	0.099	93	0.0964	0.00	0.1	0.101	104	96	1	70 - 130	30 - 150	30	
Methane	0.0607	0.0566	93	0.0551	0.04	0.0959	0.0945	106	94	1	70 - 130	30 - 150	30	

3 compound(s) reported

5/11/2012 11:19:17

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Quality Control

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Batch: 206496 **Project:** 10190736 **LCS:**

MS: 1190471 04-May-12 11:48

Units: mg/L **MSD:** 1190472 04-May-12 11:59

Original for MS: Project Sample 10190736001

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	MSD RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Ethane				0.108	0.00	0.1	0.113	92	119	12	-	30 - 150	30	
Ethene				0.101	0.00	0.0931	0.0998	92	113	7	-	30 - 150	30	
Methane				0.0578	0.01	0.0579	0.0693	81	115	18	-	30 - 150	30	

3 compound(s) reported

5/11/2012 11:19:17

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Organics Method Blank

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Blank ID: BLANK for HBN 206496 **Project:** 10190736

Lab ID: 1189924

Prep Level: Water **Batch:** 206496

Method: Water RSK 175
RSK 175 AIR Headspace

Prepared: 04-May-12

Units: mg/L

CAS Numb	Analyte	Dilution	Qu	Result	Reporting MQL	SQL	Analysis	
74-84-0	Ethane	1	U	<0.00310	0.00620	0.00310	04-May-12 07:41	SK4
74-85-1	Ethene	1	U	<0.00310	0.00620	0.00310	04-May-12 07:41	SK4
74-82-8	Methane	1	U	<0.000690	0.00660	0.000690	04-May-12 07:41	SK4

3 compound(s) reported

5/11/2012 11:19:17

ND denotes Not Detected at or above the adjusted reporting limit or PQL.

SQL sample quantitation limit, MQL method quant limit, UQL upper quant limit.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Unadjusted MQL Summary

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190736

Analyte	Method	Unadjusted MQL	Reporting Units
Ethane	RSK 175	0.00620	mg/L
Ethene	RSK 175	0.00620	mg/L
Methane	RSK 175	0.00660	mg/L

Definitions/Qualifiers

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
(612)607-1700

Project: 10190736

Value	Description
D2	Samples evaluated to 1/2 the reporting limit.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
ND	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
MDL	The adjusted method detection limit.
LCS(D)	Laboratory Control Sample (Duplicate).
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

TRRP LABORATORY REVIEW CHECKLIST							
Laboratory Name:		Pace Analytical Services, Inc.			**LRC Date:**	5/11/2012	
Project Name:		1205023 Colleyville Water Samp			**Lab Job Number:**	10190736	
Reviewer Name:		Kyle Richardson					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER #[5]**
R1	**OI**	**CHAIN-OF-CUSTODY (COC):**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	**Auto**				
		Were all departures from standard conditions described in an exception report?	**X**				
R2	**OI**	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION:**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	**X**				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	**X**				
R3	**OI**	**TEST REPORTS:**					
		Were samples prepared and analyzed within holding times?	**X**				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	**X**				
		Were calculations checked by a peer or supervisor?	**X**				
		Were all analyte identifications checked by a peer or supervisor?	**X**				
		Were sample detection limits reported for all analytes not detected?	**X**				
		Were all results for soil and sediment samples reported on a dry weight basis?		X			
		Were % moisture (or solids) reported for all soil and sediment samples?		X			
		If required for the project, were TICs reported?			X		
R4	**O**	**SURROGATE RECOVERY DATA:**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	**X**				
R5	**OI**	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES:**					
		Were appropriate type(s) of blanks analyzed?	**X**				
		Were blanks analyzed at the appropriate frequency?	**X**				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	**X**				
		Were blank concentrations < MQL?	**X**				
R6	**OI**	**LABORATORY CONTROL SAMPLES (LCSs):**					
		Were all COCs included in the LCS?	**X**				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	**X**				
		Were LCSs analyzed at the required frequency?	**X**				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	**X**				
		Was the LCSD RPD within QC limits?	**X**				
R7	**OI**	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA:**					
		Were the project/method specified analytes included in the MS and MSD?	**X**				
		Were MS/MSD analyzed at the appropriate frequency?	**X**				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	**X**				
		Were MS/MSD RPDs within the laboratory QC limits?	**X**				
R8	**OI**	**ANALYTICAL DUPLICATE DATA:**					
		Were appropriate analytical duplicates analyzed for each matrix?	**X**				
		Were analytical duplicates analyzed at the appropriate frequency?	**X**				
		Were RPDs or relative standard deviations within the laboratory QC limits?	**X**				
R9	**OI**	**METHOD QUANTITATION LIMITS (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	**X**				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	**X**				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	**X**				
R10	**OI**	**OTHER PROBLEMS/ANOMALIES:**					
		Are all known problems/anomalies/special conditions noted in this LCR and ER?	**X**				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	**X**				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analtes, matrices, and methods associated with this laboratory data package?	**X**				

R-Required items S-Available if requested 2-O=organic, I=inorganic 3-NA=Not applicable 4-NR=Not reviewed 5-ER=Exception report #

TRRP LABORATORY REVIEW CHECKLIST							
Laboratory Name:		Pace Analytical Services, Inc.	**LRC Date:**			5/11/2012	
Project Name:		1205023 Colleyville Water Samp	**Lab Job Number:**			10190736	
Reviewer Name:		Kyle Richardson					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER #[5]**
S1	**OI**	**INITIAL CALIBRATION (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	**X**				
		Were percent RSDs or correlation coefficient criteria met?	**X**				
		Was the number of standards recommended in the method used for all analytes?	**X**				
		Were all points generated between the lowest and highest standard used to calculate the curve?	**X**				
		Are ICAL data available for all instruments used?	**X**				
		Has the initial calibration curve been verified using an appropriate second source standard?	**X**				
S2	**OI**	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV**					
		Was the CCV analyzed at the method-required frequency?	**X**				
		Were percent differences for each analyte within the method-required QC limits?	**X**				
		Was the ICAL curve verified for each analyte?	**X**				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	**X**				
S3	**O**	**MASS SPECTRAL TUNING:**					
		Was the appropriate compound for the method used for tuning?	**X**				
		Were ion abundance data within the method-required QC limits?	**X**				
S4	**O**	**INTERNAL STANDARD (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	**X**				
S5	**OI**	**RAW DATA (NELAC SECTION 5.5.10):**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	**X**				
		2) Were data associated with manual integrations flagged on the raw data?	**X**				
S6	**O**	**DUAL COLUMN CONFIRMATION:**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	**O**	**TENTATIVELY IDENTIFIED COMPOUNDS (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	**I**	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS:**					
		1) Were percent recoveries within method QC limits?	**X**				
S9	**I**	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITIONS**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	**X**				
S10	**OI**	**METHOD DETECTION LIMIT (MDL) STUDIES:**					
		Was a MDL study performed for each reported analyte?	**X**				
		Is the MDL either adjusted or supported by the analysis of DCSs?	**X**				
S11	**OI**	**PROFICIENCY TEST REPORTS**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	**X**				
S12	**OI**	**STANDARDS DOCUMENTATION:**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	**X**				
S13	**OI**	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES:**					
		Are the procedures for compound/analyte identification documented?	**X**				
S14	**OI**	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	**X**				
		Is documentation of the analyst's competency up-to-date and on file?	**X**				
S15	**OI**	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC CHAPTER 5)**					
		Are all the methods used to generate the data documented, verified and validated, where applicable?	**X**				
S16	**OI**	**LABORATORY STANDARD OPERATING PROCEDURES (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	**X**				

R-Required items S-Available if requested 2-O=organic, I=inorganic 3-NA=Not applicable 4-NR=Not reviewed 5-ER=Exception report #

TRRP LABORATORY REVIEW CHECKLIST			
Laboratory Name:		**LRC Date:**	
Project Name:		**Lab Job Number:**	
Reviewer Name:	Pace Analytical Services, Inc.		######
ER #	**1205023 Colleyville Water Samp**		1E+07

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

Employee Owned Integrity Caring Continual Improvement

Results

Printed: 05/07/2012

Client: PAS5 *Project:* 569202

Default

Account	*Project*
PAS5-N	**569202**

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1116883 1205023-01					*Received:* 05/02/2012	
Liquid Aqueous	*Collected by:* Client		*Affiliation:* Pace Analytical Serv		05/01/2012	10:22:00
Prepared:	***474560***	*05/03/2012*			*11:15:00*	
EPA 200.7, Rev. 4.4		*Analyzed: SAM*	*05/04/2012*		*09:57:59 QCgroup*	*474723*
z **Sulfur**	**77.2**	**mg/L**	5.00		**7704-34-9**	02

The above methods that we used are approved for NPDES reporting as listed in 40 CFR 136 Table 1B or Ana-Lab has specific approval from EPA to use these methods for NPDES reporting.

1116884 1205023-02					*Received:* 05/02/2012	
Liquid Aqueous	*Collected by:* Client		*Affiliation:* Pace Analytical Serv		05/01/2012	10:58:00
Prepared:	***474560***	*05/03/2012*			*11:15:00*	
EPA 200.7, Rev. 4.4		*Analyzed: SAM*	*05/04/2012*		*10:00:49 QCgroup*	*474723*
z **Sulfur**	**68.1**	**mg/L**	5.00		**7704-34-9**	02

The above methods that we used are approved for NPDES reporting as listed in 40 CFR 136 Table 1B or Ana-Lab has specific approval from EPA to use these methods for NPDES reporting.

Sample Preparation

1116883 1205023-01					*Received:* 05/02/2012	
Prepared:		*05/02/2012*			*00:00:00*	
		Analyzed: KAT	*05/02/2012*		*00:00:00 QCgroup*	
z **Bottle pH**	**<2**	**SU**				01
Bottle Temperature on Receipt	**23**	**degrees**				01
Prepared:	***474560***	*05/03/2012*			*11:15:00*	
EPA 200.2 2.8		*Analyzed: TES*	*05/03/2012*		*11:15:00 QCgroup*	*474560*
N **Liquid Metals Digestion**	**50/50**	**ml**				01
1116884 1205023-02					*Received:* 05/02/2012	
Prepared:		*05/02/2012*			*00:00:00*	
		Analyzed: KAT	*05/02/2012*		*00:00:00 QCgroup*	

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

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Results

Printed: 05/07/2012

Client: PAS5 *Project:* 569202

Sample Preparation

1116884 **1205023-02** *Received:* 05/02/2012

			Analyzed: KAT	*05/02/2012*	*00:00:00 QCgroup*	
z	**Bottle pH**	**<2**	**SU**			01
	Bottle Temperature on Receipt	**23**	**degrees**			01
	Prepared:	***474560***	*05/03/2012*	*11:15:00*		
EPA 200.2 2.8			*Analyzed: TES*	*05/03/2012*	*11:15:00 QCgroup*	*474560*
N	**Liquid Metals Digestion**	**50/50**	**ml**			01

Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commisson on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

Paul Zhang, Ph.D., Quality Director

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

North Texas Region: 11105 Shady Trl Ste. 123 Dallas TX 75229-7633

NELAP-accredited #T104704201

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Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

LELAP-accredited #02008

Results Summary

Project 569202

Report to:

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Liquid Aqueous	**Metals**					**EPA 200.7, Rev. 4.4**					
1116883	**1205023-01**										
	Collection:	05/01/2012		10:22:00		Client			*Received:*	05/02/2012	
Prepared:	***474560***			*Analyzed:*		***474723***		5/4/12	09:57:59		
7704-34-9	**Sulfur**	**77.2**	0.050	0.500	0.500	5.00		**mg/L**		02	10.00
1116884	**1205023-02**										
	Collection:	05/01/2012		10:58:00		Client			*Received:*	05/02/2012	
Prepared:	***474560***			*Analyzed:*		***474723***		5/4/12	10:00:49		
7704-34-9	**Sulfur**	**68.1**	0.050	0.500	0.500	5.00		**mg/L**		02	10.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)
MQL is the Method Quantitation Limit and corresponds to a low standard
Qualifiers:

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)
MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commisson on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

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LELAP-accredited #02008

Results Summary

Project **569202**

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Paul Zhang, Ph.D., Quality Director

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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THE COMPLETE SERVICE LAB

Quality Control

Printed 05/07/2012

AQUEOUS

Account	Project
PAS5 -N	569202

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

474723 M Liquid Aqueous — **EPA 200.7, Rev. 4.4**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfur	474560	ND	0.050	0.500	mg/L	112451848

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	20.9	20.0	mg/L	104	90.0 - 110		112451833
Sulfur	21.0	20.0	mg/L	105	90.0 - 110		112451843
Sulfur	20.8	20.0	mg/L	104	90.0 - 110		112451851
Sulfur	20.7	20.0	mg/L	104	90.0 - 110		112451852
Sulfur	20.7	20.0	mg/L	104	90.0 - 110		112451859

Dir. SPKD

Parameter	Sample	DSPK	DSPKD	UNK	Known	Limits%	DSPK%	DSPKD%	Units	RPD	Limit%
Sulfur	1117255	100	99.4	62.4	40.0	75.0 - 125	94.0	92.5	mg/L	1.61	20.0

Direct SPK

Parameter	Sample	DSPK	UNK	Known	Limits%	DSPK%	Units	
Sulfur	1117255	100	62.4	40.0	75.0 - 125	94.0	mg/L	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Sulfur	20.9	20.0	mg/L	104	90.0 - 110		112451832

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Sulfur	474560	4.20	4.00	mg/L	105	85.0 - 115	112451849	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Sulfur	474560	4.20	4.26	4.00	85.0 - 115	105	106	mg/L	1.42	20.0

RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100%

Recover% is Recovery Percent: result / known * 100%

ANA·LAB CORP.
THE COMPLETE SERVICE LAB

569202 CoC Print Group 001 of 001

SUBCONTRACT ORDER

PACE Analytical Services, Inc.

1205023

SENDING LABORATORY:

PACE Analytical Services, Inc.
400 West Bethany, Suite 190
Allen, TX 75013
Phone: (972) 727-1123
Fax: (972) 727-1175
Project Manager: Customer Service

RECEIVING LABORATORY:

Ana Lab Corporation
2600 Dudley Rd
Kilgore, TX 75662
Phone :(903) 984-0551
Fax: (903) 984-5914

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1205023-01	**Aqueous**	**Sampled:05/01/12 10:22**	1116883	
Subout2 See Comments	[redacted]	[redacted]		Sulfur - TRRP
Containers Supplied:				
Poly 500mL - pH<2 (O)				
Sample ID: 1205023-02	**Aqueous**	**Sampled:05/01/12 10:58**	884	
Subout2 See Comments	[redacted]	[redacted]		Sulfur - TRRP
Containers Supplied:				
Poly 500mL - pH<2 (O)				

Normal TAT

005057 ☐ CF____
005112 ☐ CF -0.3
003688 ☐ CF____

23°C

Cut Seal

1700

Released By (Signature/Print Name)		Date/Time	Received By (Signature/Print Name)	Date/Time
	ERMI	5-1-12	LSO #ZN636398	
LSO		5/2/12 1000		5/2/12 1000
Released By (Signature/Print Name)		Date/Time	Received By (Signaure/Print Name	Date/Time

Christi Parker Ana-Lab

Affiliation: ERMI

ANA·LAB CORP.
THE COMPLETE SERVICE LAB

569202 CoC Print Group 001 of 001

Lone Star Overnight

Airbill No. ZN636398

Lone Star Overnight
800.800.8984
www.lso.com

To: **SAMPLE RECEIVING**
ANA LAB CORPORATION
2600 DUDLEY RD
KILGORE, TX 75662
(903) 984 - 0551

From: PACE ANALYTICAL
PACE ANALYTICAL
400 W. BETHANY RD
#190
ALLEN, TX 75013
(972) 727 - 1123

Service Type: Ground
1D00V

23°C

1000

GGG

Ground

QuickCode: **ANA LAB**
Date Printed: 5/1/2012
Billing Ref 1: WORKORDER#1205023-01,02

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned.

Shipping Instructions

1. Fold this page along the horizontal line above.
2. Place this Airbill in the shipping label pouch on the package you are shipping. Please be sure the barcodes and addresses can be read and scanned.
3. To locate a drop box near you, click on **Find Drop Box** from the home page main menu.
4. To schedule a pickup, click on **Request Pickup**

WARNING: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your Lone Star Overnight account number.
LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES OR RESIDENTIAL DELIVERIES.

Appendix A: **Laboratory Review Checklist: Reportable Data**

Laboratory Name: ANA-LAB	LRC Date: 05/07/2012
Project Name: Default	Laboratory Job (Project) Number: 569202
Reviewer Name: Paul Zhang, Ph.D. (BLZ)	PrepSet: 474560 QCgroup: 474723

#	A	Description	Yes	No	NA	NR	ER#
R01	OI	**Chain-of-Custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in the exception report?			X		
R02	OI	**Sample and Quality Control (QC) Identification**					
		Are all field sample ID numbers cross referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R03	OI	**Test Reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample quantitation limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, tentatively identified compounds reported?			X		
R04	O	**Surrogate Recovery Data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R05	OI	**Test Reports/Summary Forms for Blank Samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R06	OI	**Laboratory Control Samples (LCS)**					
		Were all chemicals of concern included in the LCS?	X				
		Was each LCS taken though the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCS duplicate, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the chemicals of concern at the MDL used to calculate the SQLs?	X				
		Was the LCS duplicate relative percent difference within QC limits?	X				
R07		**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R08	OI	**Analytical Duplicate Data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R09	OI	**Method Quantitation Limits (MQLs)**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		Are all known problems/anomalies/special condition noted in this LRC and ER?	X				
		Were all necessary corrective actions preformed for the reported data?	X				
		Was applicable and available technology used to lower the SQL and minimize the matrix interference effects on the sample results?	X				

Appendix A: **Laboratory Review Checklist: Reportable Data**

Laboratory Name: ANA-LAB	LRC Date: 05/07/2012
Project Name: Default	Laboratory Job (Project) Number: 569202
Reviewer Name: Paul Zhang, Ph.D. (BLZ)	PrepSet: 474560 QCgroup: 474723

#	A	Description	Yes	No	NA	NR	ER#
S01	OI	**Initial Calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S02	OI	**Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MQL?			X		
S03	O	**Mass Spectral Tuning**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S04	O	**Internal Standards (IS)**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S05	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section . . .)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S06	O	**Dual Column Confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S07	O	**Tentatively Identified Compounds (TICs)**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S08	I	**Interference Check Sample (ICS) Results**					
		Were precent recoveries within method QC limits?	X				
S09	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or suppported by the analysis of detectability check samples?	X				
S11	OI	**Proficiency Test Reports**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?	X				
S13	IO	**Compound/Analyte Identification Procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Compentency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO/IEC Section 5)**					
		Are all the methods used to generate the data documented, verified and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
3. N/A = Not applicable;
4. NR = Not reviewed
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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Analytical Results

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Report Table of Contents

Account	*Project*
PAS5 -N	**569202**

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
569202_r00_00__TRRPcover	Ana-Lab Project P:569202 C:PAS5 TRRP Project Report Cover Page	1
569202_r01_07_CoolerReview	Ana-Lab Project P:569202 Project Cooler Review Report	1
569202_r01_08_ProjectBottleReview	Ana-Lab Project P:569202 Project Bottle Review Report	2
569202_r02_01_ProjectSamples	Ana-Lab Project P:569202 C:PAS5 Project Sample Cross Reference	1
569202_r02_03_ProjectPrep	Ana-Lab Project P:569202 C:PAS5 Project Preparation And QCgroup (Set) Listings	1
569202_r03_01_ProjectHold	Ana-Lab Project P:569202 C:PAS5 Project Holding Time Compliance	1
569202_r03_03_ProjectResults	Ana-Lab Project P:569202 C:PAS5 Project Results	2
569202_r03_06_M_ProjectTRRP	Ana-Lab Project P:569202 C:PAS5 Project TRRP Results Report for Class M	2
569202_r10_05_ProjectQC_EPA 200.7,	Ana-Lab Project P:569202 C:PAS5 Project Quality Control Groups _EPA 200.7, Rev. 4.4	1
569202_r99_09_CoC__1_of_1	Ana-Lab CoC PAS5 569202_1_of_1	2
569202_SETQA_474560_474723	Ana-Lab Project P:569202 C:PAS5 Project Quality Control TRRP-13 Check Lists 474560_474723	2

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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Employee Owned Integrity Caring Continual Improvement

Analytical Results

Report Table of Contents

Account	Project
PAS5 -N	569202

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Total Pages: 16

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

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Laboratory Data Package Cover Page 569202

AQUEOUS

This data package consists of:

- ☑ This signature page, the laboratory review checklist, and the following reportable data:
- ☑ R1 Field chain-of-custody documentation;
- ☑ R2 Sample identification cross-reference;
- ☑ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ R4 Surrogate recovery data including: (R4 - R8: See QC Report)
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ R5 Test reports/summary forms for blank samples;
- ☑ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☑ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix; See Results Summary
- ☑ R10 Other problems or anomalies.
- ☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Name	Signature	Official Title	Date
Paul Zhang, Ph.D. (BLZ)		**Quality Director**	**5/7/2012**

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

Employee Owned Integrity Caring Continual Improvement

ANA-LAB CORP. THE COMPLETE SERVICE LAB

Cooler Review

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 569202

AQUEOUS

Receipt	Cooler	Air Bill	Date Recvd	By
0102367423	**17862**	pace lsZN636398	05/02/2012	KAT

1. Was the cooler received intact and sealed. If no, notify client.	Yes
2. Was the cooler screened following the Radiochemistry survey procedure.	Yes
2a. Was the survey result negative. If no, notify the client.	Yes
2b. Are any of the samples identified by the client as radioactive.	No
2c. If radioactive, did the client provide RAD Activity	N/A
3. Were chain of custody documents included.	Yes
4. Was the cooler temperature checked.	Yes
5. Was cooler temperature within specifications (less than or equal to 6 C).	Yes
6. Is temperature documented on the Chain of Custody.	Yes
7. Lab has resources for these services (testing capability, available personnel, and can meet requested TAT). If no, notify client.	Yes
8. Cooler Seal Attached	Yes
9. Other Comments	N/A

N/R: Not Reviewed N/A: Not Applicable * Out

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

Employee Owned Integrity Caring Continual Improvement

ANA-LAB CORP. THE COMPLETE SERVICE LAB

Bottle Review

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 569202

AQUEOUS

Receipt	Cooler	Air Bill	Received	By
17862	**0102367423**	pace lsZN636398	05/02/2012	KAT

Sample	Bottle	Barcode	Description
1116883	***01***	*000000001748*	***Client supplied HNO3 to pH <2***

1.Was the sample container properly labeled.	Yes
2. Was the proper sample container type received.	Yes
3. Does the bottle label indicate that proper chemical preservatives were added if required.	Yes
3a. If preserved, was the sample bottle (except VOC Vials, 1005 Vials and FC bottles) at the proper pH.	Yes
3b. If no, was the sample's pH adjusted (except VOC Vials, 1005 Vials & FC Bottles) and the changes in pH recorded.	N/A
4. If the bottle was a VOC vial, was it free of headspace.	N/A
5. Was the bottle received intact.	Yes
6. Was the sample received within holding time. If no, notify the client.	Yes
7. Was the chain of custody documents completed correctly. (Ink, signed, matches container)	Yes
8. Bottle Seals Attached	N/R

1116884	***01***	*000000001748*	***Client supplied HNO3 to pH <2***

1.Was the sample container properly labeled.	Yes
2. Was the proper sample container type received.	Yes
3. Does the bottle label indicate that proper chemical preservatives were added if required.	Yes
3a. If preserved, was the sample bottle (except VOC Vials, 1005 Vials and FC bottles) at the proper pH.	Yes
3b. If no, was the sample's pH adjusted (except VOC Vials, 1005 Vials & FC Bottles) and the changes in pH recorded.	N/A
4. If the bottle was a VOC vial, was it free of headspace.	N/A
5. Was the bottle received intact.	Yes

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Bottle Review

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 569202

AQUEOUS

Receipt	Cooler	Air Bill	Received	By
17862	**0102367423**	pace lsZN636398	05/02/2012	KAT

Sample	Bottle	Barcode	Description

6. Was the sample received within holding time. If no, notify the client.	Yes
7. Was the chain of custody documents completed correctly. (Ink, signed, matches container)	Yes
8. Bottle Seals Attached	N/R

N/R: Not Reviewed N/A: Not Applicable * Out

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Sample Cross Reference

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 569202

AQUEOUS

Sample	Sample ID	Taken	Time	Received
1116883	*1205023-01*	05/01/2012	10:22:00	05/02/2012

Bottle 01 Client supplied HNO3 to pH <2
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 474560) Volume: 50.00000 mL <== Derived from 01 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.7, Rev. 4.4	02	474560	05/03/2012	474723	05/04/2012

1116884	*1205023-02*	05/01/2012	10:58:00	05/02/2012

Bottle 01 Client supplied HNO3 to pH <2
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 474560) Volume: 50.00000 mL <== Derived from 01 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.7, Rev. 4.4	02	474560	05/03/2012	474723	05/04/2012

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 756633

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Sample Preparation

05/07/2012 Page 1 of 1

Report To
Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project **569202**

Default

Prep Set # **474560** 05/03/2012

Analytical Set # **474723** **EPA 200.7, Rev. 4.4** 05/04/2012

Sample	Sample ID	Bottle
1116883	1205023-01	02
1116884	1205023-02	02

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Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

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Holding Time Compliance

Report To

Shelly Connelly
Pace Analytical Services, Inc
400 West Bethany
Suite 190
Allen, TX 75013

Project 569202

AQUEOUS

Name	Method	Taken:	Received	Analyzed	Hold	Elapsed
1116883		**5/1/12 10:22**	05/02/2012			
Sulfur	EPA 200.7, Rev. 4.4			5/4/12 9:57	180.00	2.00
Liquid Metals Digestion	EPA 200.2 2.8			5/3/12 11:15	180.00	2.00
1116884		**5/1/12 10:58**	05/02/2012			
Sulfur	EPA 200.7, Rev. 4.4			5/4/12 10:00	180.00	2.00
Liquid Metals Digestion	EPA 200.2 2.8			5/3/12 11:15	180.00	2.00

SUBCONTRACT ORDER

PACE Analytical Services, Inc.

1205023

6U/2049A

SENDING LABORATORY:

PACE Analytical Services, Inc.
400 West Bethany, Suite 190
Allen, TX 75013
Phone: (972) 727-1123
Fax: (972) 727-1175
Project Manager: Customer Service

RECEIVING LABORATORY:

Pace Analytical Services - Kansas City
9608 Loiret Blvd.
Lenexa, KS 66219
Phone :(913) 599-5665
Fax: (913) 599-1759

Analysis	Due	Expires	Laboratory ID	Comments	
Sample ID: 1205023-01	**Aqueous**	**Sampled:05/01/12 10:22**			
Chloride 9056A	05/07/12 17:00	05/29/12 10:22		TRRP	
Sulfate 9056A	05/07/12 17:00	05/29/12 10:22		TRRP	1(BP2u)
Containers Supplied:					
Poly 500mL - Unpres (S)					
Sample ID: 1205023-02	**Aqueous**	**Sampled:05/01/12 10:58**			
Sulfate 9056A	05/07/12 17:00	05/29/12 10:58		TRRP	
Chloride 9056A	05/07/12 17:00	05/29/12 10:58		TRRP	1(BP2u)
Containers Supplied:					
Poly 500mL - Unpres (S)					

Project Name: Colleyville Water Resampling
Project #: DFW 12028
Sample ID: -01 WW-I
-02 WW-H

1800
5/01/12

2.6°C

Released By ERMI (Signature/Print Name) — Date/Time — Received By (Signature/Print Name) — Date/Time 5/2/12 830

Released By (Signature/Print Name) — Date/Time — Received By (Signaure/Print Name — Date/Time

Affiliation: ERMI

Sample Condition Upon Receipt

Pace Analytical
www.pacelabs.com

Client Name: Pace Dallas Project # 60120497

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 7983 4882 6952 Pace Shipping Label Used? ☐ Yes ☒ No

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No

Optional	
Proj. Due Date:	5/8
Proj. Name:	

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other _____

Thermometer Used: T-191 / T-194 **Type of Ice:** ~~Wet~~ Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.6

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: ~~JHS~~ 5/2/12 1200

		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 holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<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.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: water		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	14.
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), Phenolics	☐ Yes ☒ No	Initial when completed NA Lot # of added preservative _____
Trip Blank present:	☐ Yes ☐ No ☒ N/A	15.
Pace Trip Blank lot # (if purchased): NA		
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☒ N/A	16.
Project sampled in USDA Regulated Area:	☒ Yes ☐ No ☐ N/A	17. List State: TX R

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AFT Date: 5/3/12

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 Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

May 17, 2012

Project Manager
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013

RE: Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

Dear Project Manager:
Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2012. 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.

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

Sincerely,

Alice Tracy

alice.tracy@pacelabs.com
Project Manager

Enclosures

cc: Shelly Connelly, PASI Dallas

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CERTIFICATIONS

Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1205023001	**1205023-01 WW-I**	Water	05/01/12 10:22	05/02/12 08:30
1205023002	**1205023-02 WW-H**	Water	05/01/12 10:58	05/02/12 08:30

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SAMPLE ANALYTE COUNT

Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1205023001	**1205023-01 WW-I**	EPA 9056	OL	2	PASI-K
1205023002	**1205023-02 WW-H**	EPA 9056	OL	2	PASI-K

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ANALYTICAL RESULTS

Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

Sample: 1205023-01 WW-I **Lab ID: 1205023001** Collected: 05/01/12 10:22 Received: 05/02/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**303**	mg/L	50.0	50		05/16/12 22:00	16887-00-6	
Sulfate	**201**	mg/L	20.0	20		05/15/12 16:27	14808-79-8	

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ANALYTICAL RESULTS

Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

Sample: 1205023-02 WW-H **Lab ID: 1205023002** Collected: 05/01/12 10:58 Received: 05/02/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**258**	mg/L	50.0	50		05/16/12 09:41	16887-00-6	
Sulfate	**173**	mg/L	20.0	20		05/15/12 14:54	14808-79-8	

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QUALITY CONTROL DATA

Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

QC Batch: WETA/20207 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 1205023001, 1205023002

METHOD BLANK: 998227 Matrix: Water
Associated Lab Samples: 1205023001, 1205023002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	05/15/12 13:37	

METHOD BLANK: 998913 Matrix: Water
Associated Lab Samples: 1205023001, 1205023002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	05/16/12 08:55	

LABORATORY CONTROL SAMPLE: 998228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.0	100	80-120	

LABORATORY CONTROL SAMPLE: 998914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 998229 998230

Parameter	Units	1205023001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	303	250	250	557	544	102	96	80-120	2	15	
Sulfate	mg/L	201	100	100	295	296	94	96	80-120	1	15	

SAMPLE DUPLICATE: 998231

Parameter	Units	1205023002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	258	256	1	15	
Sulfate	mg/L	173	175	2	15	

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QUALIFIERS

Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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-K Pace Analytical Services - Kansas City

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Lenexa, KS 66219
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1205023 COLLEYVILLE WATER RESA
Pace Project No.: 60120497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1205023001	**1205023-01 WW-I**	EPA 9056	WETA/20207		
1205023002	**1205023-02 WW-H**	EPA 9056	WETA/20207		

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