Limited Site Investigation

Vacant G&B Oil Facility

208 Poplar Grove Road

Boone, North Carolina

June 9, 2014

Terracon Project No. 71147714-A

Prepared for:

Harrod/AP, LLC

Smyrna, Georgia

Prepared by:

Terracon Consultants, Inc.

Charlotte, North Carolina

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Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

June 9, 2014

Mr. Glenn Weaver
Harrod/AP, LLC
3361 Fieldwood Drive
Smyrna, Georgia 30080

Re: Limited Site Investigation (Phase II Environmental Site Assessment) and Supplemental Soil and Groundwater Sampling Services
Vacant G&B Oil Facility
208 Poplar Grove Road
Boone, Watauga County, North Carolina
Terracon Project No. 71147714-A

Dear Mr. Weaver,

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Limited Site Investigation (LSI) report for the above-referenced site. The LSI activities were completed to address findings derived from a Phase I Environmental Site Assessment (ESA) conducted at the site by Terracon. Terracon conducted the LSI and Supplemental Soil and Groundwater Sampling in general accordance with our confirming proposals 71147E028R and 71147E028R.1, both dated April 15, 2014.

We appreciate the opportunity to perform these services for you. Please contact us if you have questions regarding this information or if we can provide any other services.

Sincerely,
Terracon Consultants, Inc.

Stephen C. Brown
Project Geologist

Christopher L. Corbitt, PG
Senior Project Manager

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LIMITED SITE INVESTIGATION

VACANT G&B OIL FACILITY
208 POPLAR GROVE ROAD
BOONE, WATAUGA COUNTY, NORTH CAROLINA

Project No. 71127714-A
Report Date: June 9, 2014

1.0 SITE DESCRIPTION

The site is comprised of an approximate 0.68-acre portion of a larger 0.841-acre parcel located at 208 Poplar Grove Road in Boone, Watauga County, North Carolina. The property is identified in Watauga County tax records as Parcel No. 2900698658000. The site is developed with an approximate 1,536-square foot warehouse/shop building and an approximate 960-square foot office building. The buildings were reportedly constructed in 1952 and 1970, respectively. The buildings are currently vacant. The site location is depicted on Figure 1 of Appendix A which was reproduced from a portion of the USGS 7.5-minute series topographic map.

2.0 SCOPE OF SERVICES

Terracon has recently completed a Phase I Environmental Site Assessment (ESA) for the site. Based on our preliminary findings, the site was operated by various entities as a bulk fuel oil distributorship from the late 1940s until 2012. Terracon identified the approximate 60+ year use of the site for bulk fuel operations as a Recognized Environmental Condition (REC). The objective of the LSI (Phase II Environmental Site Assessment) was to determine if the site had been impacted by the identified REC. The purpose of the supplemental sampling activities was to evaluate the magnitude and extent of contamination in soils and groundwater on the site.

2.1 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These LSI services were performed in accordance with the scope of work authorized by you, our client, as reflected in our confirming proposals and were not restricted by ASTM E1903-97.

2.2 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable or not present during these services; thus, we cannot represent that the site is free of hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this LSI. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services. This study is not exhaustive or comprehensive and was limited to areas where certain activities occurred that could represent potential environmental concerns. There could be undiscovered contamination present on the site that was not readily observable.

2.3 Reliance

This report has been prepared for the exclusive use of Harrod/AP, LLC. Any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the expressed written authorization of Harrod/AP, LLC and Terracon. Any unauthorized distribution or reuse is at the client's sole risk. Reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Agreement For Services (AFS) and the LSI report. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to the client and all relying parties unless otherwise agreed in writing.

3.0 FIELD ACTIVITIES

Terracon conducted the fieldwork under a health and safety plan developed for this project. Work was performed using United States Environmental Protection Agency (USEPA) Level D work attire consisting of hard hats, safety glasses, protective gloves, and protective boots. Terracon's drilling activities were conducted on April 9, 2014 by Mr. S. Alex Chinery. Prior to initiating field activities, Terracon contacted NC-One Call, a public utility locating company, to locate on-site underground utilities. Terracon also engaged Probe Utility Locating, a private utility locating company, to locate on-site underground utilities in the specific areas planned for drilling.

Groundwater Elevation Assessment

Prior to sample collection activities, Terracon evaluated the depth to groundwater at various locations on the site by installing piezometers at selected locations in the northern, central, southern and southwestern portions of the site. Utilizing a Geoprobe®, Terracon

advanced five soil borings (P-1 through P-5) to depths ranging from 6 to 10 feet below ground surface (bgs) were apparent bedrock was encountered. Each boring was then converted to a temporary sampling point using 1-inch slot-screen PVC pipe. The water was allowed to equilibrate in the sampling point prior to gauging depth to groundwater. Depth to groundwater below the site ranged from approximately 0.5 feet to 2.5 feet bgs.

Former Petroleum Storage Tank Farm and Oil/Water Separator

Based on the shallow groundwater information derived from piezometer P-3, soil borings B-1 through B-4 planned for the former Tank Farm area were not drilled. Terracon advanced two soil borings (B-5 and B-6) to a depth of ± 5 feet bgs utilizing Geoprobe® direct-push techniques in the former oil/water separator area along the north side of the Tank Farm. Due to the presence of shallow groundwater (± 2.5 feet bgs), no soil samples were collected. In order to evaluate groundwater quality in this area of the site, a groundwater sample was collected from piezometer P-3 and submitted for analysis of volatile and semi-volatile organic compounds (VOCs and SVOCs) by EPA Methods 6200 and 625BN, respectively.

Transport Unloading Pad and Fuel Dispenser Area

Terracon advanced ten soil borings (B-7 through B-16) utilizing Geoprobe® direct-push techniques in the former Transport Unloading Pad area and the adjacent Fuel Dispenser area to a depth of ± 5 feet bgs. Shallow groundwater was encountered in most of the borings. Terracon collected one soil sample in the unsaturated zone from soil boring B-10 near the Transport Unloading Pad where petroleum odors were noted and elevated photoionization (PID) readings were observed. The soil sample was submitted for analysis of Total Petroleum Hydrocarbons – Gasoline and Diesel Range Organic (TPH-GRO/DRO) constituents.

Loading Rack Area

Terracon advanced six soil borings (B-17 through B-22) to a depth of ± 5 feet bgs utilizing Geoprobe® direct-push techniques in the former Loading Rack area in the central portion of the site. In order to further define potential petroleum contamination in the unsaturated soil zone, Terracon drilled four additional soil borings (B-23 through B-26) in an area to the east and to the north of the Loading Rack area. However, due to the presence of shallow groundwater (± 2.5 feet bgs), no soil samples were collected for laboratory analysis. In order to evaluate groundwater quality in this area of the site, a groundwater sample was collected from piezometer P-2 and submitted for analysis of VOCs and SVOCs by EPA Methods 6200 and 625BN, respectively.

General Groundwater Quality

In order to evaluate the quality of groundwater leaving the site, a groundwater sample was collected from piezometer P-1 located at the lowest point on the site near the northeastern property boundary. The sample was submitted for analysis of volatile and semi-volatile organic compounds (VOCs and SVOCs) by EPA Methods 6200 and 625BN, respectively.

A Boring Location Plan showing the approximate soil and groundwater sample locations is included as Figure 2 of Appendix A. Soil samples were observed for documentation of soil lithology and color. The general soil lithology encountered at each boring location is described in the boring logs included in Appendix B.

The soil and groundwater samples were placed in laboratory-supplied glassware, labeled and stored in an ice-packed cooler. The samples, along with chain-of-custody documentation, were delivered to Pace Analytical Services, Inc., in Huntersville, North Carolina for analysis on a standard laboratory schedule.

4.0 RESULTS OF THE FIELD INVESTIGATION

4.1 Geology/Hydrogeology

The lithology encountered generally consisted of sandy silt and silty sand, indicative of colluvial and alluvial soils from the surrounding area. Soil lithology descriptions are presented on the boring logs included in Appendix B. In general, shallow groundwater was encountered between 0.5 and 4 feet bgs at various areas of the site.

4.2 Field Screening

The field screening results are summarized in the boring logs presented in Appendix B.

5.0 ANALYTICAL DATA

5.1 Soil Sample Analysis

Laboratory analysis of soil sample B-10 collected near the Transport Unloading area, detected a TPH-DRO concentration of 262 milligrams per kilogram (mg/kg). The North Carolina regulatory action level for TPH-DRO is 10 mg/kg.

5.2 Groundwater Sample Analysis

Numerous petroleum related constituents were identified at concentrations above the laboratory reporting limits in the groundwater samples collected from piezometers P-1, P-2 and P-3.

According to the laboratory analytical report, petroleum constituents were detected at concentrations above their respective North Carolina 2L groundwater quality standards in a groundwater sample collected from piezometer P-1 including: n-butylbenzene (**247** µg/L); sec-butylbenzene (**176** µg/L); isopropylbenzene (**115** µg/L); naphthalene (**368** µg/L); n-propylbenzene (**279** µg/L); fluorene (**392** µg/L) and phenanthrene (**813** µg/L).

Petroleum constituents were detected at concentrations above their respective North Carolina 2L groundwater quality standards in a groundwater sample collected from piezometer P-2 including: benzene (**16.7** µg/L); n-butylbenzene (**217** µg/L); sec-butylbenzene (**83.2** µg/L); isopropylbenzene (**72.6** µg/L); naphthalene (**5740** µg/Lml); n-propylbenzene (**257** µg/L); 1, 2, 4-trimethylbenzene (**1890** µg/L); 1, 3, 5-trimethylbenzene (**747** µg/L); total xylenes (**1648** µg/L); acenaphthene (**536** µg/L); fluorene (**1800** µg/L); phenanthrene (**3640** µg/L) and pyrene (**648** µg/L).

Analysis of a groundwater sample collected from piezometer P-3 detected naphthalene at a concentration of **131** µg/L and 1, 2, 4-trimethylbenzene at **424** µg/L which exceed their respective North Carolina 2L groundwater quality standards.

The laboratory analytical results for groundwater collected during this assessment, including their respective North Carolina 2L groundwater quality standards, are summarized in the Summary of Groundwater Analytical Results table included in Appendix C. A copy of the laboratory analytical report is included in Appendix D.

6.0 CONCLUSIONS

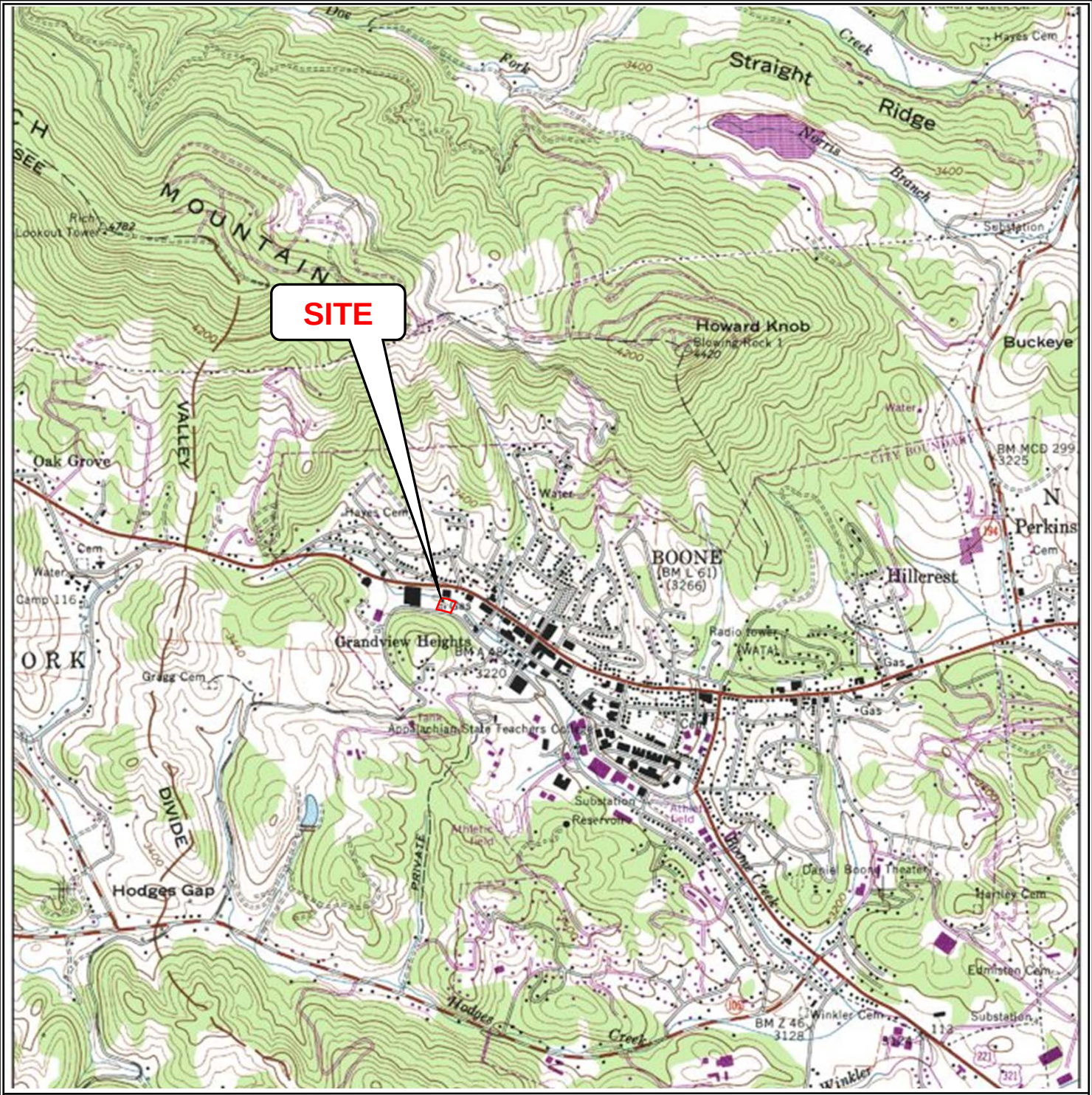
Based on the findings of this assessment, the site appears to have been impacted by the approximate 60+ year operations as a bulk fuel distributorship.

Petroleum contamination was detected at concentrations above regulatory levels in soils near the former Transport Unloading area in the southern portion of the site. In addition, numerous petroleum constituents were detected in groundwater at concentrations above their respective North Carolina groundwater quality standards.

We recommend the detected petroleum contamination be reported to the North Carolina Department of Environment and Natural Resources (NCDENR) in accordance with regulatory requirements. At minimum, we would expect the NCDENR to compel remediation of the contaminated soils within the unsaturated zone. At this time, the least expensive method of remediation is expected to be removal of the soils to a North Carolina-approved disposal facility.

APPENDIX A

Figure 1 - Topographic Map
Figure 2 – Boring Location Plan



TOPOGRAPHIC MAP

G&B OIL PROPERTY
208 POPLAR GROVE ROAD

BOONE, NORTH CAROLINA

Terracon

N

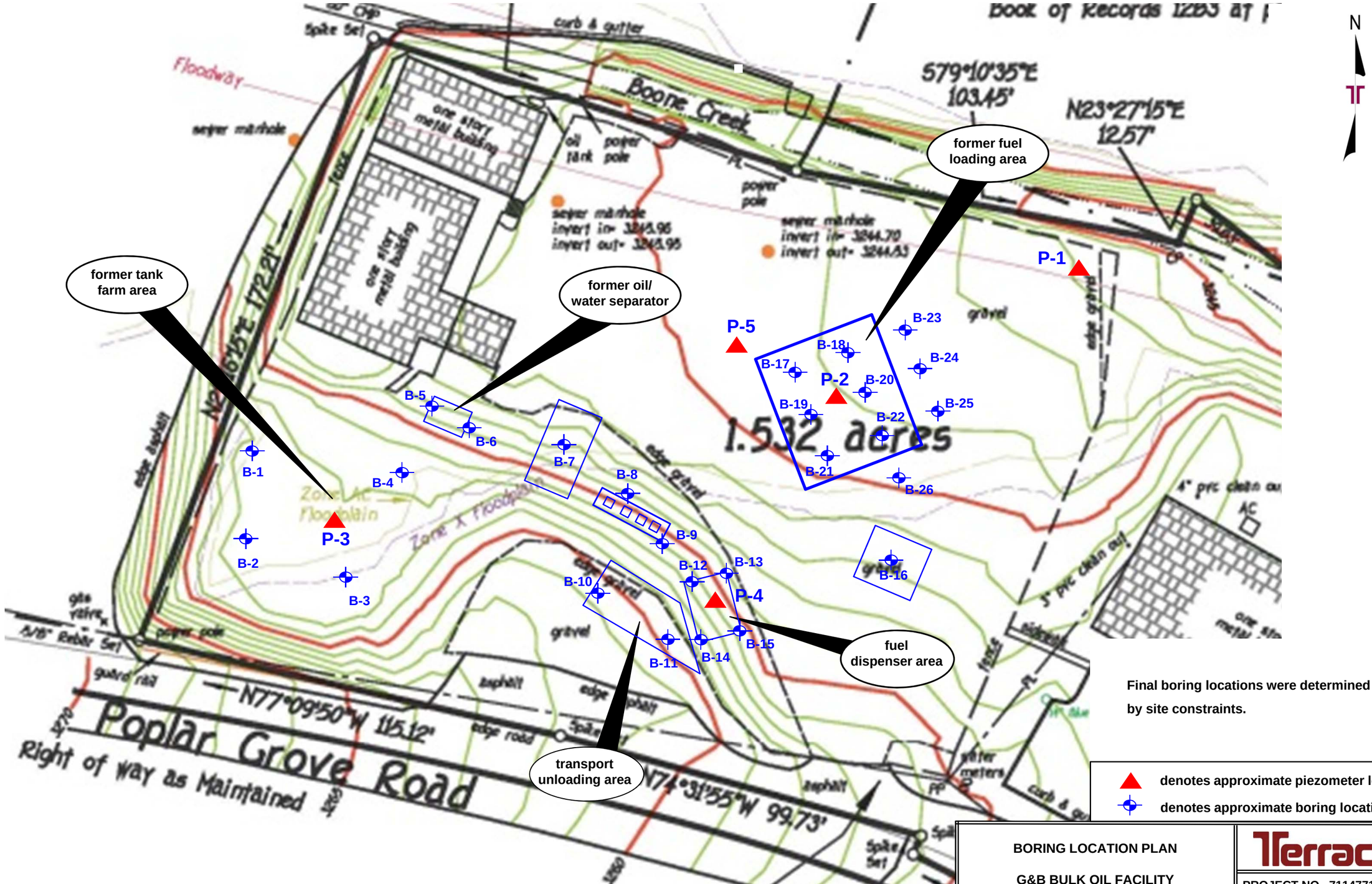
PROJECT NO.: 71147714-A

DATE: March 2014

DRAWN BY: SCB

SCALE: 1" = 2000' | **FIGURE NO. 1**

REFERENCE: USGS Topographic Map; Boone Quadrangle, North Carolina; dated 1959, photo-revised 1978.



REFERENCE: Site plan provided by client.

BORING LOCATION PLAN

G&B BULK OIL FACILITY
208 POPLAR GROVE ROAD

BOONE, NORTH CAROLINA

Terracon

PROJECT NO. 71147714-A	
DATE: April 9, 2014	
SCALE: 1" = 25'	FIGURE NO. 2

APPENDIX B

Soil Boring Logs

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-5
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	
0-1.5			107		0.5	
					1.0	gravel
					1.5	
					2.0	
					2.5	Δ groundwater 2.5 feet
					3.0	
1.5-5.0					3.5	
					4.0	orange/brown silty clay
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-6
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	
0-1.5			7.1		0.5	
					1.0	gravel
					1.5	
					2.0	
					2.5	Δ groundwater 2.5 feet
					3.0	
1.5-5.0					3.5	
					4.0	brown silty clay
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

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SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
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* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-7
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			58.9		0.0	gravel (approx. 6")
					0.5	dark brown sandy clay
					1.0	Δ groundwater 1.1 feet
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

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SAMPLING METHODS
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ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-8
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			172.8		0.0	gravel (approx. 6")
					0.5	dark brown sandy clay
					1.0	Δ groundwater 1.1 feet
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

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GP - GEOPROBE

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ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-9
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			81.3		0.0	gravel (approx. 6")
					0.5	gray/brown sandy clay
					1.0	Δ groundwater 1.1 feet
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

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SAMPLING METHODS
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GP - GEOPROBE

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ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-10
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			13.2		0.0	gravel (approx. 6")
					0.5	dark brown sandy clay
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	Δ groundwater 4.5 feet
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

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* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-11
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1.5			188.9		0.0	gravel (approx. 6")
					0.5	orange/brown silty clay
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	Δ groundwater 3.5 feet
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-12
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			439.5		0.0	gravel (approx. 6")
					0.5	gray sandy clay
					1.0	
					1.5	Δ groundwater 1.5 feet
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-13
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology
	DRILL METHOD: Direct Push
	BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			287.0		0.0	gravel (approx. 6")
					0.5	brown/gray sandy clay
					1.0	Δ groundwater 1.1 feet
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-14
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			58.6		0.0	gravel (approx. 6")
					0.5	gray sandy clay
					1.0	
					1.5	Δ groundwater 1.5 feet
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-15
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology
	DRILL METHOD: Direct Push
	BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			439.4		0.0	gravel (approx. 6")
					0.5	brown/gray sandy clay
					1.0	Δ groundwater 1.1 feet
					1.5	
					2.0	BORING TERMINATED AT 2 FEET BGS
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-16
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			10.8		0.0	gravel (approx. 6")
					0.5	
					1.0	grey clayey clayey sand
					1.5	
					2.0	Δ groundwater 2.1 feet
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-17
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-2			306.3		0.0	gravel (approx. 6")
					0.5	
					1.0	
					1.5	
					2.0	brown/gray clayey sand
					2.5	Δ groundwater 1.1 feet
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-18
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-2			1528		0.0	gravel (approx. 6")
					0.5	
					1.0	
					1.5	
					2.0	dark brown clayey sand
					2.5	Δ groundwater 2.5 feet
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-19
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-2			1192		0.0	gravel (approx. 6")
					0.5	
					1.0	brown/gray sandy clay
					1.5	
					2.0	BORING TERMINATED AT 2 FEET BGS
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-20
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-2			55.0		0.0	gravel (approx. 6")
					0.5	brown/gray sandy clay
					1.0	
					1.5	
					2.0	
					2.5	Δ groundwater 2.5 feet
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-21
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-2			109.7		0.0	gravel (approx. 6")
					0.5	
					1.0	brown/gray sandy clay
					1.5	
					2.0	
					2.5	Δ groundwater 2.5 feet
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-22
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-2			199.3		0.0	gravel (approx. 6")
					0.5	brown/gray sandy clay
					1.0	
					1.5	
					2.0	
					2.5	Δ groundwater 2.5 feet
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-23
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-2			55.0		0.0	gravel (approx. 6")
					0.5	
					1.0	brown/gray sandy clay
					1.5	
					2.0	
					2.5	Δ groundwater 2.5 feet
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	BORING TERMINATED AT 5 FEET BGS
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-25
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			91.1		0.0	gravel (approx. 6")
					0.5	
					1.0	gray sandy clay
					1.5	
					2.0	BORING TERMINATED AT 2 FEET BGS
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

SOIL BORING LOG

PROJECT NAME: G&B Bulk Oil Facility	SOIL BORING I.D.: B-26
PROJECT NO: 71147714-A	DATE(S) DRILLED: April 9, 2014
PROJECT LOCATION: 208 Poplar Grove Road Boone, North Carolina	DRILLING CONTR.: Probe Technology DRILL METHOD: Direct Push BORING DIAMETER: 2 inches
CLIENT: Harrod/AP, LLC.	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0-1			261.3		0.0	gravel (approx. 6")
					0.5	
					1.0	gray sandy clay
					1.5	
					2.0	BORING TERMINATED AT 2 FEET BGS
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
					5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
					10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					15.5	
					13.0	
					13.5	
					14.0	
					14.5	
					15.0	
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE

* - Sample collected for analysis
ND = <1 ppm

Terracon

APPENDIX C

Summary of Groundwater Analytical Results

Summary of Groundwater Analytical Results

G and B Oil
Boone, North Carolina

Terracon Project No. 71147714-A

Analytical Method (e.g. VOC by EPA 6200)		6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	625	625	625	625	625
Contaminant of Concern →																	
Sample I.D.	**Date Collected (mm/dd/yy)**	Benzene	n-Butylbenzene	sec-Butlybenzene	Ethyl benzene	Isopropyl benzene	Naphthalene	n-Propyl benzene	Toluene	1, 2, 4-Trimethyl benzene	1, 3, 5-Trimethyl benzene	Total Xylenes	Acenaphthene	Fluorene	Naphthalene	Phenanthrene	Pyrene
P-1	4/9/14	ND	**247**	**176**	ND	**115**	**368**	**279**	ND	ND	ND	7.1	ND	**392**	ND	**813**	ND
P-2	4/9/14	**16.7**	**217**	**83.2**	358	**72.6**	**526**	**257**	ND	**1890**	**747**	**1648**	**536**	**1800**	**5740**	**3640**	**648**
P-3	4/9/14	ND	37	20.9	133	24.7	**131**	67.5	24.5	**424**	108	443	31.8	104	**94.9**	196	ND
2L Standard (µg/l)		1	70	70	600	70	6	70	600	400	400	500	80	300	6	200	200

- Contaminants detected above the 2L Standard are shown in **bold** font.
- ND = Not Detected in concentrations above the method detection limit

APPENDIX D

Laboratory Analytical Report

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

April 18, 2014

Mr. Stephen Brown
Terracon
2020 E Starita Road
Charlotte, NC 28206

RE: Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Dear Mr. Brown:
Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	G&B BULK OIL FACILITY
Pace Project No.:	92197037

Charlotte Certification IDs

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

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92197037001	**B-10**	EPA 8015 Modified	RES	2	PASI-C
		EPA 8015 Modified	GAW	2	PASI-C
		ASTM D2974-87	AES	1	PASI-C
92197037002	**P-1**	EPA 625	RES	58	PASI-C
		SM 6200B	CAH	63	PASI-C
92197037003	**P-2**	EPA 625	RES	58	PASI-C
		SM 6200B	CAH	63	PASI-C
92197037004	**P-3**	EPA 625	RES	58	PASI-C
		SM 6200B	CAH	63	PASI-C

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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: B-10 **Lab ID: 92197037001** Collected: 04/09/14 16:05 Received: 04/10/14 17:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel	Analytical Method: EPA 8015 Modified		Preparation Method: EPA 3546					
Diesel Components	**262**	mg/kg	5.9	1	04/11/14 08:48	04/16/14 12:23	68334-30-5	
Surrogates								
n-Pentacosane (S)	102	%	41-119	1	04/11/14 08:48	04/16/14 12:23	629-99-2	
Gasoline Range Organics	Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B					
Gasoline Range Organics	ND	mg/kg	5.6	1	04/14/14 10:07	04/14/14 22:56	8006-61-9	
Surrogates								
4-Bromofluorobenzene (S)	86	%	70-167	1	04/14/14 10:07	04/14/14 22:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.0**	%	0.10	1		04/11/14 15:54		

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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-1 **Lab ID: 92197037002** Collected: 04/09/14 16:15 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	83-32-9	
Acenaphthylene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	208-96-8	
Anthracene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	56-55-3	
Benzo(a)pyrene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	101-55-3	
Butylbenzylphthalate	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	658	10	04/11/14 08:30	04/14/14 08:39	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	108-60-1	
2-Chloronaphthalene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	91-58-7	
2-Chlorophenol	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	7005-72-3	
Chrysene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	1640	10	04/11/14 08:30	04/14/14 08:39	91-94-1	
2,4-Dichlorophenol	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	120-83-2	
Diethylphthalate	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	84-66-2	
2,4-Dimethylphenol	ND	ug/L	658	10	04/11/14 08:30	04/14/14 08:39	105-67-9	
Dimethylphthalate	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	131-11-3	
Di-n-butylphthalate	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	1320	10	04/11/14 08:30	04/14/14 08:39	534-52-1	
2,4-Dinitrophenol	ND	ug/L	3290	10	04/11/14 08:30	04/14/14 08:39	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	606-20-2	
Di-n-octylphthalate	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	117-81-7	
Fluoranthene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	206-44-0	
Fluorene	**392**	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	87-68-3	
Hexachlorobenzene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	658	10	04/11/14 08:30	04/14/14 08:39	77-47-4	
Hexachloroethane	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	193-39-5	
Isophorone	ND	ug/L	658	10	04/11/14 08:30	04/14/14 08:39	78-59-1	
Naphthalene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	91-20-3	
Nitrobenzene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	98-95-3	
2-Nitrophenol	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	88-75-5	
4-Nitrophenol	ND	ug/L	3290	10	04/11/14 08:30	04/14/14 08:39	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	658	10	04/11/14 08:30	04/14/14 08:39	86-30-6	
Pentachlorophenol	ND	ug/L	658	10	04/11/14 08:30	04/14/14 08:39	87-86-5	

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(704)875-9092

ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-1 **Lab ID: 92197037002** Collected: 04/09/14 16:15 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Phenanthrene	**813**	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	85-01-8	
Phenol	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	108-95-2	
Pyrene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	329	10	04/11/14 08:30	04/14/14 08:39	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	658	10	04/11/14 08:30	04/14/14 08:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	10-120	10	04/11/14 08:30	04/14/14 08:39	4165-60-0	D3,P3, S4
2-Fluorobiphenyl (S)	0	%	15-120	10	04/11/14 08:30	04/14/14 08:39	321-60-8	
Terphenyl-d14 (S)	0	%	11-131	10	04/11/14 08:30	04/14/14 08:39	1718-51-0	
Phenol-d6 (S)	0	%	10-120	10	04/11/14 08:30	04/14/14 08:39	13127-88-3	
2-Fluorophenol (S)	0	%	10-120	10	04/11/14 08:30	04/14/14 08:39	367-12-4	
2,4,6-Tribromophenol (S)	0	%	10-137	10	04/11/14 08:30	04/14/14 08:39	118-79-6	
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	2.5	5		04/17/14 17:00	71-43-2	
Bromobenzene	ND	ug/L	2.5	5		04/17/14 17:00	108-86-1	
Bromochloromethane	ND	ug/L	2.5	5		04/17/14 17:00	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	5		04/17/14 17:00	75-27-4	
Bromoform	ND	ug/L	2.5	5		04/17/14 17:00	75-25-2	
Bromomethane	ND	ug/L	25.0	5		04/17/14 17:00	74-83-9	
n-Butylbenzene	**247**	ug/L	2.5	5		04/17/14 17:00	104-51-8	
sec-Butylbenzene	**176**	ug/L	2.5	5		04/17/14 17:00	135-98-8	
tert-Butylbenzene	ND	ug/L	2.5	5		04/17/14 17:00	98-06-6	
Carbon tetrachloride	ND	ug/L	2.5	5		04/17/14 17:00	56-23-5	
Chlorobenzene	ND	ug/L	2.5	5		04/17/14 17:00	108-90-7	
Chloroethane	ND	ug/L	5.0	5		04/17/14 17:00	75-00-3	
Chloroform	ND	ug/L	2.5	5		04/17/14 17:00	67-66-3	
Chloromethane	ND	ug/L	5.0	5		04/17/14 17:00	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	5		04/17/14 17:00	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	5		04/17/14 17:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	5		04/17/14 17:00	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	5		04/17/14 17:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	5		04/17/14 17:00	106-93-4	
Dibromomethane	ND	ug/L	2.5	5		04/17/14 17:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	5		04/17/14 17:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	5		04/17/14 17:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	5		04/17/14 17:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	5		04/17/14 17:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.5	5		04/17/14 17:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	5		04/17/14 17:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.5	5		04/17/14 17:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	5		04/17/14 17:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	5		04/17/14 17:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	5		04/17/14 17:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	5		04/17/14 17:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	5		04/17/14 17:00	594-20-7	

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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-1 **Lab ID: 92197037002** Collected: 04/09/14 16:15 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
1,1-Dichloropropene	ND	ug/L	2.5	5		04/17/14 17:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	5		04/17/14 17:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	5		04/17/14 17:00	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	5		04/17/14 17:00	108-20-3	
Ethylbenzene	ND	ug/L	2.5	5		04/17/14 17:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	5		04/17/14 17:00	87-68-3	
Isopropylbenzene (Cumene)	**115**	ug/L	2.5	5		04/17/14 17:00	98-82-8	
Methylene Chloride	ND	ug/L	10.0	5		04/17/14 17:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	2.5	5		04/17/14 17:00	1634-04-4	
Naphthalene	**368**	ug/L	10.0	5		04/17/14 17:00	91-20-3	
n-Propylbenzene	**279**	ug/L	2.5	5		04/17/14 17:00	103-65-1	
Styrene	ND	ug/L	2.5	5		04/17/14 17:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	5		04/17/14 17:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	5		04/17/14 17:00	79-34-5	
Tetrachloroethene	ND	ug/L	2.5	5		04/17/14 17:00	127-18-4	
Toluene	ND	ug/L	2.5	5		04/17/14 17:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	5		04/17/14 17:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	5		04/17/14 17:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.5	5		04/17/14 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	5		04/17/14 17:00	79-00-5	
Trichloroethene	ND	ug/L	2.5	5		04/17/14 17:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		04/17/14 17:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	5		04/17/14 17:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	2.5	5		04/17/14 17:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.5	5		04/17/14 17:00	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		04/17/14 17:00	75-01-4	
m&p-Xylene	**7.1**	ug/L	5.0	5		04/17/14 17:00	179601-23-1	
o-Xylene	ND	ug/L	2.5	5		04/17/14 17:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	5		04/17/14 17:00	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	5		04/17/14 17:00	460-00-4	
Toluene-d8 (S)	98	%	70-130	5		04/17/14 17:00	2037-26-5	

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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-2 **Lab ID: 92197037003** Collected: 04/09/14 16:20 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthene	**536**	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	83-32-9	
Acenaphthylene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	208-96-8	
Anthracene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	120-12-7	
Benzo(a)anthracene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	56-55-3	
Benzo(a)pyrene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	50-32-8	IO
Benzo(b)fluoranthene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	205-99-2	IO
Benzo(g,h,i)perylene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	191-24-2	IO
Benzo(k)fluoranthene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	207-08-9	IO
4-Bromophenylphenyl ether	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	101-55-3	
Butylbenzylphthalate	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	1000	10	04/11/14 08:30	04/14/14 09:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	108-60-1	
2-Chloronaphthalene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	91-58-7	
2-Chlorophenol	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	7005-72-3	
Chrysene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	53-70-3	IO
3,3'-Dichlorobenzidine	ND	ug/L	2500	10	04/11/14 08:30	04/14/14 09:07	91-94-1	
2,4-Dichlorophenol	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	120-83-2	
Diethylphthalate	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1000	10	04/11/14 08:30	04/14/14 09:07	105-67-9	
Dimethylphthalate	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	131-11-3	
Di-n-butylphthalate	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2000	10	04/11/14 08:30	04/14/14 09:07	534-52-1	
2,4-Dinitrophenol	ND	ug/L	5000	10	04/11/14 08:30	04/14/14 09:07	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	606-20-2	
Di-n-octylphthalate	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	117-81-7	
Fluoranthene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	206-44-0	
Fluorene	**1800**	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	87-68-3	
Hexachlorobenzene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1000	10	04/11/14 08:30	04/14/14 09:07	77-47-4	
Hexachloroethane	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	193-39-5	IO
Isophorone	ND	ug/L	1000	10	04/11/14 08:30	04/14/14 09:07	78-59-1	
Naphthalene	**5740**	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	91-20-3	
Nitrobenzene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	98-95-3	
2-Nitrophenol	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	88-75-5	
4-Nitrophenol	ND	ug/L	5000	10	04/11/14 08:30	04/14/14 09:07	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1000	10	04/11/14 08:30	04/14/14 09:07	86-30-6	
Pentachlorophenol	ND	ug/L	1000	10	04/11/14 08:30	04/14/14 09:07	87-86-5	

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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-2 **Lab ID: 92197037003** Collected: 04/09/14 16:20 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Phenanthrene	**3640**	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	85-01-8	
Phenol	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	108-95-2	
Pyrene	**648**	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	500	10	04/11/14 08:30	04/14/14 09:07	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	10	04/11/14 08:30	04/14/14 09:07	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	10-120	10	04/11/14 08:30	04/14/14 09:07	4165-60-0	D3,P3, S4
2-Fluorobiphenyl (S)	0	%	15-120	10	04/11/14 08:30	04/14/14 09:07	321-60-8	
Terphenyl-d14 (S)	0	%	11-131	10	04/11/14 08:30	04/14/14 09:07	1718-51-0	
Phenol-d6 (S)	0	%	10-120	10	04/11/14 08:30	04/14/14 09:07	13127-88-3	
2-Fluorophenol (S)	0	%	10-120	10	04/11/14 08:30	04/14/14 09:07	367-12-4	
2,4,6-Tribromophenol (S)	0	%	10-137	10	04/11/14 08:30	04/14/14 09:07	118-79-6	
6200B MSV	Analytical Method: SM 6200B							
Benzene	**16.7**	ug/L	12.5	25		04/18/14 12:21	71-43-2	
Bromobenzene	ND	ug/L	12.5	25		04/18/14 12:21	108-86-1	
Bromochloromethane	ND	ug/L	12.5	25		04/18/14 12:21	74-97-5	
Bromodichloromethane	ND	ug/L	12.5	25		04/18/14 12:21	75-27-4	
Bromoform	ND	ug/L	12.5	25		04/18/14 12:21	75-25-2	
Bromomethane	ND	ug/L	125	25		04/18/14 12:21	74-83-9	
n-Butylbenzene	**217**	ug/L	12.5	25		04/18/14 12:21	104-51-8	
sec-Butylbenzene	**83.2**	ug/L	12.5	25		04/18/14 12:21	135-98-8	
tert-Butylbenzene	ND	ug/L	12.5	25		04/18/14 12:21	98-06-6	
Carbon tetrachloride	ND	ug/L	12.5	25		04/18/14 12:21	56-23-5	
Chlorobenzene	ND	ug/L	12.5	25		04/18/14 12:21	108-90-7	
Chloroethane	ND	ug/L	25.0	25		04/18/14 12:21	75-00-3	
Chloroform	ND	ug/L	12.5	25		04/18/14 12:21	67-66-3	
Chloromethane	ND	ug/L	25.0	25		04/18/14 12:21	74-87-3	
2-Chlorotoluene	ND	ug/L	12.5	25		04/18/14 12:21	95-49-8	
4-Chlorotoluene	ND	ug/L	12.5	25		04/18/14 12:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	25		04/18/14 12:21	96-12-8	
Dibromochloromethane	ND	ug/L	12.5	25		04/18/14 12:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	12.5	25		04/18/14 12:21	106-93-4	
Dibromomethane	ND	ug/L	12.5	25		04/18/14 12:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	12.5	25		04/18/14 12:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	12.5	25		04/18/14 12:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	12.5	25		04/18/14 12:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	12.5	25		04/18/14 12:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	12.5	25		04/18/14 12:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	12.5	25		04/18/14 12:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	12.5	25		04/18/14 12:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	12.5	25		04/18/14 12:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	12.5	25		04/18/14 12:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	12.5	25		04/18/14 12:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	12.5	25		04/18/14 12:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	12.5	25		04/18/14 12:21	594-20-7	

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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-2 **Lab ID: 92197037003** Collected: 04/09/14 16:20 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
1,1-Dichloropropene	ND	ug/L	12.5	25		04/18/14 12:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	12.5	25		04/18/14 12:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	12.5	25		04/18/14 12:21	10061-02-6	
Diisopropyl ether	ND	ug/L	12.5	25		04/18/14 12:21	108-20-3	
Ethylbenzene	**358**	ug/L	12.5	25		04/18/14 12:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	25		04/18/14 12:21	87-68-3	
Isopropylbenzene (Cumene)	**72.6**	ug/L	12.5	25		04/18/14 12:21	98-82-8	
Methylene Chloride	ND	ug/L	50.0	25		04/18/14 12:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	12.5	25		04/18/14 12:21	1634-04-4	
Naphthalene	**526**	ug/L	50.0	25		04/18/14 12:21	91-20-3	
n-Propylbenzene	**257**	ug/L	12.5	25		04/18/14 12:21	103-65-1	
Styrene	ND	ug/L	12.5	25		04/18/14 12:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	25		04/18/14 12:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	25		04/18/14 12:21	79-34-5	
Tetrachloroethene	ND	ug/L	12.5	25		04/18/14 12:21	127-18-4	
Toluene	ND	ug/L	12.5	25		04/18/14 12:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	25		04/18/14 12:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	25		04/18/14 12:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	12.5	25		04/18/14 12:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	12.5	25		04/18/14 12:21	79-00-5	
Trichloroethene	ND	ug/L	12.5	25		04/18/14 12:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		04/18/14 12:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	25		04/18/14 12:21	96-18-4	
1,2,4-Trimethylbenzene	**1890**	ug/L	12.5	25		04/18/14 12:21	95-63-6	
1,3,5-Trimethylbenzene	**747**	ug/L	12.5	25		04/18/14 12:21	108-67-8	
Vinyl chloride	ND	ug/L	25.0	25		04/18/14 12:21	75-01-4	
m&p-Xylene	**1630**	ug/L	25.0	25		04/18/14 12:21	179601-23-1	
o-Xylene	**17.6**	ug/L	12.5	25		04/18/14 12:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	25		04/18/14 12:21	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	25		04/18/14 12:21	460-00-4	
Toluene-d8 (S)	101	%	70-130	25		04/18/14 12:21	2037-26-5	

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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-3 **Lab ID: 92197037004** Collected: 04/09/14 16:30 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Acenaphthene	**31.8**	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	83-32-9	
Acenaphthylene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	208-96-8	
Anthracene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	120-12-7	
Benzo(a)anthracene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	56-55-3	
Benzo(a)pyrene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	50-32-8	IO
Benzo(b)fluoranthene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	205-99-2	IO
Benzo(g,h,i)perylene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	191-24-2	IO
Benzo(k)fluoranthene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	207-08-9	IO
4-Bromophenylphenyl ether	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	101-55-3	
Butylbenzylphthalate	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	50.0	5	04/11/14 08:30	04/14/14 10:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	108-60-1	
2-Chloronaphthalene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	91-58-7	
2-Chlorophenol	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	7005-72-3	
Chrysene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	53-70-3	IO
3,3'-Dichlorobenzidine	ND	ug/L	125	5	04/11/14 08:30	04/14/14 10:32	91-94-1	
2,4-Dichlorophenol	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	120-83-2	
Diethylphthalate	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	84-66-2	
2,4-Dimethylphenol	ND	ug/L	50.0	5	04/11/14 08:30	04/14/14 10:32	105-67-9	
Dimethylphthalate	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	131-11-3	
Di-n-butylphthalate	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	100	5	04/11/14 08:30	04/14/14 10:32	534-52-1	
2,4-Dinitrophenol	ND	ug/L	250	5	04/11/14 08:30	04/14/14 10:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	606-20-2	
Di-n-octylphthalate	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	117-81-7	
Fluoranthene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	206-44-0	
Fluorene	**104**	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	87-68-3	
Hexachlorobenzene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	50.0	5	04/11/14 08:30	04/14/14 10:32	77-47-4	
Hexachloroethane	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	193-39-5	IO
Isophorone	ND	ug/L	50.0	5	04/11/14 08:30	04/14/14 10:32	78-59-1	
Naphthalene	**94.9**	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	91-20-3	
Nitrobenzene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	98-95-3	
2-Nitrophenol	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	88-75-5	
4-Nitrophenol	ND	ug/L	250	5	04/11/14 08:30	04/14/14 10:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	50.0	5	04/11/14 08:30	04/14/14 10:32	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	5	04/11/14 08:30	04/14/14 10:32	87-86-5	

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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-3 **Lab ID: 92197037004** Collected: 04/09/14 16:30 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Phenanthrene	**196**	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	85-01-8	
Phenol	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	108-95-2	
Pyrene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5	04/11/14 08:30	04/14/14 10:32	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	50.0	5	04/11/14 08:30	04/14/14 10:32	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	54	%	10-120	5	04/11/14 08:30	04/14/14 10:32	4165-60-0	D3
2-Fluorobiphenyl (S)	54	%	15-120	5	04/11/14 08:30	04/14/14 10:32	321-60-8	
Terphenyl-d14 (S)	39	%	11-131	5	04/11/14 08:30	04/14/14 10:32	1718-51-0	
Phenol-d6 (S)	12	%	10-120	5	04/11/14 08:30	04/14/14 10:32	13127-88-3	
2-Fluorophenol (S)	17	%	10-120	5	04/11/14 08:30	04/14/14 10:32	367-12-4	
2,4,6-Tribromophenol (S)	87	%	10-137	5	04/11/14 08:30	04/14/14 10:32	118-79-6	
6200B MSV	Analytical Method: SM 6200B							
Benzene	ND	ug/L	12.5	25		04/17/14 17:33	71-43-2	
Bromobenzene	ND	ug/L	12.5	25		04/17/14 17:33	108-86-1	
Bromochloromethane	ND	ug/L	12.5	25		04/17/14 17:33	74-97-5	
Bromodichloromethane	ND	ug/L	12.5	25		04/17/14 17:33	75-27-4	
Bromoform	ND	ug/L	12.5	25		04/17/14 17:33	75-25-2	
Bromomethane	ND	ug/L	125	25		04/17/14 17:33	74-83-9	
n-Butylbenzene	**37.0**	ug/L	12.5	25		04/17/14 17:33	104-51-8	
sec-Butylbenzene	**20.9**	ug/L	12.5	25		04/17/14 17:33	135-98-8	
tert-Butylbenzene	ND	ug/L	12.5	25		04/17/14 17:33	98-06-6	
Carbon tetrachloride	ND	ug/L	12.5	25		04/17/14 17:33	56-23-5	
Chlorobenzene	ND	ug/L	12.5	25		04/17/14 17:33	108-90-7	
Chloroethane	ND	ug/L	25.0	25		04/17/14 17:33	75-00-3	
Chloroform	ND	ug/L	12.5	25		04/17/14 17:33	67-66-3	
Chloromethane	ND	ug/L	25.0	25		04/17/14 17:33	74-87-3	
2-Chlorotoluene	ND	ug/L	12.5	25		04/17/14 17:33	95-49-8	
4-Chlorotoluene	ND	ug/L	12.5	25		04/17/14 17:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	25		04/17/14 17:33	96-12-8	
Dibromochloromethane	ND	ug/L	12.5	25		04/17/14 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	12.5	25		04/17/14 17:33	106-93-4	
Dibromomethane	ND	ug/L	12.5	25		04/17/14 17:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	12.5	25		04/17/14 17:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	12.5	25		04/17/14 17:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	12.5	25		04/17/14 17:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	12.5	25		04/17/14 17:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	12.5	25		04/17/14 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	12.5	25		04/17/14 17:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	12.5	25		04/17/14 17:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	12.5	25		04/17/14 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	12.5	25		04/17/14 17:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	12.5	25		04/17/14 17:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	12.5	25		04/17/14 17:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	12.5	25		04/17/14 17:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	12.5	25		04/17/14 17:33	563-58-6	

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ANALYTICAL RESULTS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Sample: P-3 **Lab ID: 92197037004** Collected: 04/09/14 16:30 Received: 04/10/14 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV	Analytical Method: SM 6200B							
cis-1,3-Dichloropropene	ND	ug/L	12.5	25		04/17/14 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	12.5	25		04/17/14 17:33	10061-02-6	
Diisopropyl ether	ND	ug/L	12.5	25		04/17/14 17:33	108-20-3	
Ethylbenzene	**133**	ug/L	12.5	25		04/17/14 17:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	25		04/17/14 17:33	87-68-3	
Isopropylbenzene (Cumene)	**24.7**	ug/L	12.5	25		04/17/14 17:33	98-82-8	
Methylene Chloride	ND	ug/L	50.0	25		04/17/14 17:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	12.5	25		04/17/14 17:33	1634-04-4	
Naphthalene	**131**	ug/L	50.0	25		04/17/14 17:33	91-20-3	
n-Propylbenzene	**67.5**	ug/L	12.5	25		04/17/14 17:33	103-65-1	
Styrene	ND	ug/L	12.5	25		04/17/14 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	25		04/17/14 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	25		04/17/14 17:33	79-34-5	
Tetrachloroethene	ND	ug/L	12.5	25		04/17/14 17:33	127-18-4	
Toluene	**24.5**	ug/L	12.5	25		04/17/14 17:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	25		04/17/14 17:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	25		04/17/14 17:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	12.5	25		04/17/14 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	12.5	25		04/17/14 17:33	79-00-5	
Trichloroethene	ND	ug/L	12.5	25		04/17/14 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		04/17/14 17:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	25		04/17/14 17:33	96-18-4	
1,2,4-Trimethylbenzene	**424**	ug/L	12.5	25		04/17/14 17:33	95-63-6	
1,3,5-Trimethylbenzene	**108**	ug/L	12.5	25		04/17/14 17:33	108-67-8	
Vinyl chloride	ND	ug/L	25.0	25		04/17/14 17:33	75-01-4	
m&p-Xylene	**317**	ug/L	25.0	25		04/17/14 17:33	179601-23-1	
o-Xylene	**126**	ug/L	12.5	25		04/17/14 17:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	25		04/17/14 17:33	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	25		04/17/14 17:33	460-00-4	
Toluene-d8 (S)	100	%	70-130	25		04/17/14 17:33	2037-26-5	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

QC Batch: GCV/7971
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015 Modified
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 92197037001

METHOD BLANK: 1177521
Matrix: Solid
Associated Lab Samples: 92197037001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	6.0	04/14/14 11:53	
4-Bromofluorobenzene (S)	%	86	70-167	04/14/14 11:53	

LABORATORY CONTROL SAMPLE: 1177522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	50	62.3	125	70-165	
4-Bromofluorobenzene (S)	%			89	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1177523 1177524

Parameter	Units	92197002001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Gasoline Range Organics	mg/kg	227	219	219	442	444	98	99	47-187	0	
4-Bromofluorobenzene (S)	%						112	106	70-167		

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

QC Batch: MSV/26468 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Associated Lab Samples: 92197037002, 92197037004

METHOD BLANK: 1179314 | Matrix: Water
Associated Lab Samples: 92197037002, 92197037004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	04/17/14 12:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	04/17/14 12:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	04/17/14 12:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	04/17/14 12:49	
1,1-Dichloroethane	ug/L	ND	0.50	04/17/14 12:49	
1,1-Dichloroethene	ug/L	ND	0.50	04/17/14 12:49	
1,1-Dichloropropene	ug/L	ND	0.50	04/17/14 12:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	04/17/14 12:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	04/17/14 12:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	04/17/14 12:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	04/17/14 12:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	04/17/14 12:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	04/17/14 12:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	04/17/14 12:49	
1,2-Dichloroethane	ug/L	ND	0.50	04/17/14 12:49	
1,2-Dichloropropane	ug/L	ND	0.50	04/17/14 12:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	04/17/14 12:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	04/17/14 12:49	
1,3-Dichloropropane	ug/L	ND	0.50	04/17/14 12:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	04/17/14 12:49	
2,2-Dichloropropane	ug/L	ND	0.50	04/17/14 12:49	
2-Chlorotoluene	ug/L	ND	0.50	04/17/14 12:49	
4-Chlorotoluene	ug/L	ND	0.50	04/17/14 12:49	
Benzene	ug/L	ND	0.50	04/17/14 12:49	
Bromobenzene	ug/L	ND	0.50	04/17/14 12:49	
Bromochloromethane	ug/L	ND	0.50	04/17/14 12:49	
Bromodichloromethane	ug/L	ND	0.50	04/17/14 12:49	
Bromoform	ug/L	ND	0.50	04/17/14 12:49	
Bromomethane	ug/L	ND	5.0	04/17/14 12:49	
Carbon tetrachloride	ug/L	ND	0.50	04/17/14 12:49	
Chlorobenzene	ug/L	ND	0.50	04/17/14 12:49	
Chloroethane	ug/L	ND	1.0	04/17/14 12:49	
Chloroform	ug/L	ND	0.50	04/17/14 12:49	
Chloromethane	ug/L	ND	1.0	04/17/14 12:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	04/17/14 12:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	04/17/14 12:49	
Dibromochloromethane	ug/L	ND	0.50	04/17/14 12:49	
Dibromomethane	ug/L	ND	0.50	04/17/14 12:49	
Dichlorodifluoromethane	ug/L	ND	0.50	04/17/14 12:49	
Diisopropyl ether	ug/L	ND	0.50	04/17/14 12:49	
Ethylbenzene	ug/L	ND	0.50	04/17/14 12:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	04/17/14 12:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	04/17/14 12:49	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

METHOD BLANK: 1179314 Matrix: Water
Associated Lab Samples: 92197037002, 92197037004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	ND	1.0	04/17/14 12:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	04/17/14 12:49	
Methylene Chloride	ug/L	ND	2.0	04/17/14 12:49	
n-Butylbenzene	ug/L	ND	0.50	04/17/14 12:49	
n-Propylbenzene	ug/L	ND	0.50	04/17/14 12:49	
Naphthalene	ug/L	ND	2.0	04/17/14 12:49	
o-Xylene	ug/L	ND	0.50	04/17/14 12:49	
sec-Butylbenzene	ug/L	ND	0.50	04/17/14 12:49	
Styrene	ug/L	ND	0.50	04/17/14 12:49	
tert-Butylbenzene	ug/L	ND	0.50	04/17/14 12:49	
Tetrachloroethene	ug/L	ND	0.50	04/17/14 12:49	
Toluene	ug/L	ND	0.50	04/17/14 12:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	04/17/14 12:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	04/17/14 12:49	
Trichloroethene	ug/L	ND	0.50	04/17/14 12:49	
Trichlorofluoromethane	ug/L	ND	1.0	04/17/14 12:49	
Vinyl chloride	ug/L	ND	1.0	04/17/14 12:49	
1,2-Dichloroethane-d4 (S)	%	100	70-130	04/17/14 12:49	
4-Bromofluorobenzene (S)	%	99	70-130	04/17/14 12:49	
Toluene-d8 (S)	%	99	70-130	04/17/14 12:49	

LABORATORY CONTROL SAMPLE: 1179315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.4	111	60-140	
1,1,1-Trichloroethane	ug/L	50	53.5	107	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	60-140	
1,1,2-Trichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethane	ug/L	50	47.8	96	60-140	
1,1-Dichloroethene	ug/L	50	49.7	99	60-140	
1,1-Dichloropropene	ug/L	50	51.6	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.9	114	60-140	
1,2,3-Trichloropropane	ug/L	50	52.8	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	55.7	111	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.4	109	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.8	110	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.5	109	60-140	
1,2-Dichlorobenzene	ug/L	50	51.1	102	60-140	
1,2-Dichloroethane	ug/L	50	49.9	100	60-140	
1,2-Dichloropropane	ug/L	50	50.8	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.1	106	60-140	
1,3-Dichlorobenzene	ug/L	50	49.8	100	60-140	
1,3-Dichloropropane	ug/L	50	52.3	105	60-140	
1,4-Dichlorobenzene	ug/L	50	52.2	104	60-140	
2,2-Dichloropropane	ug/L	50	55.5	111	60-140	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

LABORATORY CONTROL SAMPLE: 1179315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	49.8	100	60-140	
4-Chlorotoluene	ug/L	50	52.0	104	60-140	
Benzene	ug/L	50	51.5	103	60-140	
Bromobenzene	ug/L	50	52.8	106	60-140	
Bromochloromethane	ug/L	50	50.6	101	60-140	
Bromodichloromethane	ug/L	50	55.8	112	60-140	
Bromoform	ug/L	50	47.2	94	60-140	
Bromomethane	ug/L	50	58.3	117	60-140	
Carbon tetrachloride	ug/L	50	56.7	113	60-140	
Chlorobenzene	ug/L	50	48.9	98	60-140	
Chloroethane	ug/L	50	49.6	99	60-140	
Chloroform	ug/L	50	49.9	100	60-140	
Chloromethane	ug/L	50	45.4	91	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Dibromochloromethane	ug/L	50	47.1	94	60-140	
Dibromomethane	ug/L	50	52.2	104	60-140	
Dichlorodifluoromethane	ug/L	50	52.7	105	60-140	
Diisopropyl ether	ug/L	50	47.3	95	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.7	107	60-140	
m&p-Xylene	ug/L	100	107	107	60-140	
Methyl-tert-butyl ether	ug/L	50	53.0	106	60-140	
Methylene Chloride	ug/L	50	48.1	96	60-140	
n-Butylbenzene	ug/L	50	55.1	110	60-140	
n-Propylbenzene	ug/L	50	52.1	104	60-140	
Naphthalene	ug/L	50	56.5	113	60-140	
o-Xylene	ug/L	50	53.2	106	60-140	
sec-Butylbenzene	ug/L	50	52.2	104	60-140	
Styrene	ug/L	50	56.4	113	60-140	
tert-Butylbenzene	ug/L	50	52.2	104	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.6	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.2	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	60-140	
Trichloroethene	ug/L	50	50.7	101	60-140	
Trichlorofluoromethane	ug/L	50	46.8	94	60-140	
Vinyl chloride	ug/L	50	57.1	114	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1179316 1179317

Parameter	Units	92197209001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.8	23.0	114	115	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.3	22.9	116	115	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.4	21.7	107	109	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.5	22.6	112	113	60-140	1	
1,1-Dichloroethane	ug/L	ND	20	20	21.0	21.1	105	105	60-140	0	
1,1-Dichloroethene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	23.2	22.8	116	114	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.0	24.0	115	120	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	23.0	23.2	115	116	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	24.2	23.6	121	118	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.2	22.0	106	110	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.6	22.9	113	114	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.3	22.0	112	110	60-140	1	
1,2-Dichloroethane	ug/L	ND	20	20	21.1	20.9	106	104	60-140	1	
1,2-Dichloropropane	ug/L	ND	20	20	21.8	21.8	109	109	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.7	23.2	118	116	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.9	21.6	110	108	60-140	2	
1,3-Dichloropropane	ug/L	ND	20	20	22.4	22.8	112	114	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.7	22.3	114	112	60-140	2	
2,2-Dichloropropane	ug/L	ND	20	20	23.0	22.9	115	115	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	21.6	22.1	108	111	60-140	2	
4-Chlorotoluene	ug/L	ND	20	20	22.9	22.4	115	112	60-140	2	
Benzene	ug/L	ND	20	20	23.1	22.7	116	113	60-140	2	
Bromobenzene	ug/L	ND	20	20	22.7	22.7	113	113	60-140	0	
Bromochloromethane	ug/L	ND	20	20	22.7	22.6	113	113	60-140	1	
Bromodichloromethane	ug/L	ND	20	20	22.5	22.1	112	111	60-140	2	
Bromoform	ug/L	ND	20	20	19.1	19.3	96	97	60-140	1	
Bromomethane	ug/L	ND	20	20	18.0	17.2	90	86	60-140	4	
Carbon tetrachloride	ug/L	ND	20	20	24.2	24.2	121	121	60-140	0	
Chlorobenzene	ug/L	ND	20	20	21.7	21.8	108	109	60-140	0	
Chloroethane	ug/L	ND	20	20	21.8	22.0	109	110	60-140	1	
Chloroform	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1	
Chloromethane	ug/L	ND	20	20	15.8	18.9	79	95	60-140	18	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.8	21.8	109	109	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.3	22.3	112	112	60-140	0	
Dibromochloromethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2	
Dibromomethane	ug/L	ND	20	20	22.4	22.2	112	111	60-140	1	
Dichlorodifluoromethane	ug/L	ND	20	20	23.4	23.2	117	116	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	20.4	20.0	102	100	60-140	2	
Ethylbenzene	ug/L	ND	20	20	23.0	23.3	115	116	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.1	24.2	120	121	60-140	1	
m&p-Xylene	ug/L	ND	40	40	47.8	47.7	120	119	60-140	0	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1	
Methylene Chloride	ug/L	ND	20	20	20.3	19.7	101	98	60-140	3	
n-Butylbenzene	ug/L	ND	20	20	24.2	24.1	121	120	60-140	1	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1179316 1179317

Parameter	Units	92197209001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Propylbenzene	ug/L	ND	20	20	23.8	23.2	119	116	60-140	2	
Naphthalene	ug/L	ND	20	20	23.3	23.7	117	118	60-140	2	
o-Xylene	ug/L	ND	20	20	23.2	23.3	116	116	60-140	0	
sec-Butylbenzene	ug/L	ND	20	20	24.0	23.4	120	117	60-140	3	
Styrene	ug/L	ND	20	20	24.6	24.4	123	122	60-140	1	
tert-Butylbenzene	ug/L	ND	20	20	24.0	23.5	120	118	60-140	2	
Tetrachloroethene	ug/L	ND	20	20	23.1	23.5	115	117	60-140	2	
Toluene	ug/L	ND	20	20	23.1	22.7	115	113	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.9	20.3	105	101	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	21.0	104	105	60-140	0	
Trichloroethene	ug/L	ND	20	20	22.9	22.7	115	114	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	22.3	22.0	111	110	60-140	1	
Vinyl chloride	ug/L	ND	20	20	24.3	24.7	122	123	60-140	1	
1,2-Dichloroethane-d4 (S)	%						98	97	70-130		
4-Bromofluorobenzene (S)	%						101	103	70-130		
Toluene-d8 (S)	%						100	101	70-130		

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

QC Batch: MSV/26493
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Associated Lab Samples: 92197037003

METHOD BLANK: 1180665
Matrix: Water
Associated Lab Samples: 92197037003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	04/18/14 02:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	04/18/14 02:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	04/18/14 02:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	04/18/14 02:38	
1,1-Dichloroethane	ug/L	ND	0.50	04/18/14 02:38	
1,1-Dichloroethene	ug/L	ND	0.50	04/18/14 02:38	
1,1-Dichloropropene	ug/L	ND	0.50	04/18/14 02:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	04/18/14 02:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	04/18/14 02:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	04/18/14 02:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	04/18/14 02:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	04/18/14 02:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	04/18/14 02:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	04/18/14 02:38	
1,2-Dichloroethane	ug/L	ND	0.50	04/18/14 02:38	
1,2-Dichloropropane	ug/L	ND	0.50	04/18/14 02:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	04/18/14 02:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	04/18/14 02:38	
1,3-Dichloropropane	ug/L	ND	0.50	04/18/14 02:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	04/18/14 02:38	
2,2-Dichloropropane	ug/L	ND	0.50	04/18/14 02:38	
2-Chlorotoluene	ug/L	ND	0.50	04/18/14 02:38	
4-Chlorotoluene	ug/L	ND	0.50	04/18/14 02:38	
Benzene	ug/L	ND	0.50	04/18/14 02:38	
Bromobenzene	ug/L	ND	0.50	04/18/14 02:38	
Bromochloromethane	ug/L	ND	0.50	04/18/14 02:38	
Bromodichloromethane	ug/L	ND	0.50	04/18/14 02:38	
Bromoform	ug/L	ND	0.50	04/18/14 02:38	
Bromomethane	ug/L	ND	5.0	04/18/14 02:38	
Carbon tetrachloride	ug/L	ND	0.50	04/18/14 02:38	
Chlorobenzene	ug/L	ND	0.50	04/18/14 02:38	
Chloroethane	ug/L	ND	1.0	04/18/14 02:38	
Chloroform	ug/L	ND	0.50	04/18/14 02:38	
Chloromethane	ug/L	ND	1.0	04/18/14 02:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	04/18/14 02:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	04/18/14 02:38	
Dibromochloromethane	ug/L	ND	0.50	04/18/14 02:38	
Dibromomethane	ug/L	ND	0.50	04/18/14 02:38	
Dichlorodifluoromethane	ug/L	ND	0.50	04/18/14 02:38	
Diisopropyl ether	ug/L	ND	0.50	04/18/14 02:38	
Ethylbenzene	ug/L	ND	0.50	04/18/14 02:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	04/18/14 02:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	04/18/14 02:38	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

METHOD BLANK: 1180665 Matrix: Water
Associated Lab Samples: 92197037003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	ND	1.0	04/18/14 02:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	04/18/14 02:38	
Methylene Chloride	ug/L	ND	2.0	04/18/14 02:38	
n-Butylbenzene	ug/L	ND	0.50	04/18/14 02:38	
n-Propylbenzene	ug/L	ND	0.50	04/18/14 02:38	
Naphthalene	ug/L	ND	2.0	04/18/14 02:38	
o-Xylene	ug/L	ND	0.50	04/18/14 02:38	
sec-Butylbenzene	ug/L	ND	0.50	04/18/14 02:38	
Styrene	ug/L	ND	0.50	04/18/14 02:38	
tert-Butylbenzene	ug/L	ND	0.50	04/18/14 02:38	
Tetrachloroethene	ug/L	ND	0.50	04/18/14 02:38	
Toluene	ug/L	ND	0.50	04/18/14 02:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	04/18/14 02:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	04/18/14 02:38	
Trichloroethene	ug/L	ND	0.50	04/18/14 02:38	
Trichlorofluoromethane	ug/L	ND	1.0	04/18/14 02:38	
Vinyl chloride	ug/L	ND	1.0	04/18/14 02:38	
1,2-Dichloroethane-d4 (S)	%	98	70-130	04/18/14 02:38	
4-Bromofluorobenzene (S)	%	100	70-130	04/18/14 02:38	
Toluene-d8 (S)	%	100	70-130	04/18/14 02:38	

LABORATORY CONTROL SAMPLE: 1180666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.5	109	60-140	
1,1,1-Trichloroethane	ug/L	50	50.2	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	60-140	
1,1,2-Trichloroethane	ug/L	50	51.8	104	60-140	
1,1-Dichloroethane	ug/L	50	44.9	90	60-140	
1,1-Dichloroethene	ug/L	50	46.2	92	60-140	
1,1-Dichloropropene	ug/L	50	49.2	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,3-Trichloropropane	ug/L	50	52.1	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.9	108	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.7	105	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.1	108	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.7	107	60-140	
1,2-Dichlorobenzene	ug/L	50	50.3	101	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	48.9	98	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.6	103	60-140	
1,3-Dichlorobenzene	ug/L	50	48.4	97	60-140	
1,3-Dichloropropane	ug/L	50	52.4	105	60-140	
1,4-Dichlorobenzene	ug/L	50	49.8	100	60-140	
2,2-Dichloropropane	ug/L	50	46.9	94	60-140	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

LABORATORY CONTROL SAMPLE: 1180666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	48.5	97	60-140	
4-Chlorotoluene	ug/L	50	50.4	101	60-140	
Benzene	ug/L	50	50.8	102	60-140	
Bromobenzene	ug/L	50	51.1	102	60-140	
Bromochloromethane	ug/L	50	47.0	94	60-140	
Bromodichloromethane	ug/L	50	54.6	109	60-140	
Bromoform	ug/L	50	47.2	94	60-140	
Bromomethane	ug/L	50	46.1	92	60-140	
Carbon tetrachloride	ug/L	50	55.1	110	60-140	
Chlorobenzene	ug/L	50	48.5	97	60-140	
Chloroethane	ug/L	50	47.6	95	60-140	
Chloroform	ug/L	50	48.8	98	60-140	
Chloromethane	ug/L	50	40.7	81	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.6	95	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	60-140	
Dibromochloromethane	ug/L	50	45.6	91	60-140	
Dibromomethane	ug/L	50	53.3	107	60-140	
Dichlorodifluoromethane	ug/L	50	46.0	92	60-140	
Diisopropyl ether	ug/L	50	43.5	87	60-140	
Ethylbenzene	ug/L	50	51.4	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	53.3	107	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	60-140	
m&p-Xylene	ug/L	100	106	106	60-140	
Methyl-tert-butyl ether	ug/L	50	51.1	102	60-140	
Methylene Chloride	ug/L	50	44.3	89	60-140	
n-Butylbenzene	ug/L	50	51.9	104	60-140	
n-Propylbenzene	ug/L	50	50.7	101	60-140	
Naphthalene	ug/L	50	56.2	112	60-140	
o-Xylene	ug/L	50	52.2	104	60-140	
sec-Butylbenzene	ug/L	50	51.0	102	60-140	
Styrene	ug/L	50	56.0	112	60-140	
tert-Butylbenzene	ug/L	50	51.3	103	60-140	
Tetrachloroethene	ug/L	50	51.4	103	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	44.3	89	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.7	97	60-140	
Trichloroethene	ug/L	50	49.4	99	60-140	
Trichlorofluoromethane	ug/L	50	43.3	87	60-140	
Vinyl chloride	ug/L	50	53.0	106	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

QC Batch: OEXT/26978 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 92197037002, 92197037003, 92197037004

METHOD BLANK: 1176286 Matrix: Water
Associated Lab Samples: 92197037002, 92197037003, 92197037004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/13/14 06:18	
2,4,6-Trichlorophenol	ug/L	ND	10.0	04/13/14 06:18	
2,4-Dichlorophenol	ug/L	ND	5.0	04/13/14 06:18	
2,4-Dimethylphenol	ug/L	ND	10.0	04/13/14 06:18	
2,4-Dinitrophenol	ug/L	ND	50.0	04/13/14 06:18	
2,4-Dinitrotoluene	ug/L	ND	5.0	04/13/14 06:18	
2,6-Dinitrotoluene	ug/L	ND	5.0	04/13/14 06:18	
2-Chloronaphthalene	ug/L	ND	5.0	04/13/14 06:18	
2-Chlorophenol	ug/L	ND	5.0	04/13/14 06:18	
2-Nitrophenol	ug/L	ND	5.0	04/13/14 06:18	
3,3'-Dichlorobenzidine	ug/L	ND	25.0	04/13/14 06:18	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	04/13/14 06:18	
4-Bromophenylphenyl ether	ug/L	ND	5.0	04/13/14 06:18	
4-Chloro-3-methylphenol	ug/L	ND	5.0	04/13/14 06:18	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	04/13/14 06:18	
4-Nitrophenol	ug/L	ND	50.0	04/13/14 06:18	
Acenaphthene	ug/L	ND	5.0	04/13/14 06:18	
Acenaphthylene	ug/L	ND	5.0	04/13/14 06:18	
Anthracene	ug/L	ND	5.0	04/13/14 06:18	
Benzo(a)anthracene	ug/L	ND	5.0	04/13/14 06:18	
Benzo(a)pyrene	ug/L	ND	5.0	04/13/14 06:18	
Benzo(b)fluoranthene	ug/L	ND	5.0	04/13/14 06:18	
Benzo(g,h,i)perylene	ug/L	ND	5.0	04/13/14 06:18	
Benzo(k)fluoranthene	ug/L	ND	5.0	04/13/14 06:18	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	04/13/14 06:18	
bis(2-Chloroethyl) ether	ug/L	ND	5.0	04/13/14 06:18	
bis(2-Chloroisopropyl) ether	ug/L	ND	5.0	04/13/14 06:18	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	04/13/14 06:18	
Butylbenzylphthalate	ug/L	ND	5.0	04/13/14 06:18	
Chrysene	ug/L	ND	5.0	04/13/14 06:18	
Di-n-butylphthalate	ug/L	ND	5.0	04/13/14 06:18	
Di-n-octylphthalate	ug/L	ND	5.0	04/13/14 06:18	
Dibenz(a,h)anthracene	ug/L	ND	5.0	04/13/14 06:18	
Diethylphthalate	ug/L	ND	5.0	04/13/14 06:18	
Dimethylphthalate	ug/L	ND	5.0	04/13/14 06:18	
Fluoranthene	ug/L	ND	5.0	04/13/14 06:18	
Fluorene	ug/L	ND	5.0	04/13/14 06:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/13/14 06:18	
Hexachlorobenzene	ug/L	ND	5.0	04/13/14 06:18	
Hexachlorocyclopentadiene	ug/L	ND	10.0	04/13/14 06:18	
Hexachloroethane	ug/L	ND	5.0	04/13/14 06:18	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	04/13/14 06:18	
Isophorone	ug/L	ND	10.0	04/13/14 06:18	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

METHOD BLANK: 1176286 Matrix: Water
Associated Lab Samples: 92197037002, 92197037003, 92197037004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	04/13/14 06:18	
N-Nitrosodimethylamine	ug/L	ND	5.0	04/13/14 06:18	
N-Nitrosodiphenylamine	ug/L	ND	10.0	04/13/14 06:18	
Naphthalene	ug/L	ND	5.0	04/13/14 06:18	
Nitrobenzene	ug/L	ND	5.0	04/13/14 06:18	
Pentachlorophenol	ug/L	ND	10.0	04/13/14 06:18	
Phenanthrene	ug/L	ND	5.0	04/13/14 06:18	
Phenol	ug/L	ND	5.0	04/13/14 06:18	
Pyrene	ug/L	ND	5.0	04/13/14 06:18	
2,4,6-Tribromophenol (S)	%	63	10-137	04/13/14 06:18	
2-Fluorobiphenyl (S)	%	59	15-120	04/13/14 06:18	
2-Fluorophenol (S)	%	33	10-120	04/13/14 06:18	
Nitrobenzene-d5 (S)	%	58	10-120	04/13/14 06:18	
Phenol-d6 (S)	%	23	10-120	04/13/14 06:18	
Terphenyl-d14 (S)	%	94	11-131	04/13/14 06:18	

LABORATORY CONTROL SAMPLE: 1176287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.4	87	44-142	
2,4,6-Trichlorophenol	ug/L	50	46.4	93	37-144	
2,4-Dichlorophenol	ug/L	50	45.8	92	1-191	
2,4-Dimethylphenol	ug/L	50	42.3	85	32-119	
2,4-Dinitrophenol	ug/L	250	206	82	1-181	
2,4-Dinitrotoluene	ug/L	50	54.0	108	39-139	
2,6-Dinitrotoluene	ug/L	50	52.7	105	50-158	
2-Chloronaphthalene	ug/L	50	45.7	91	60-118	
2-Chlorophenol	ug/L	50	40.6	81	23-134	
2-Nitrophenol	ug/L	50	51.7	103	29-182	
3,3'-Dichlorobenzidine	ug/L	100	92.7	93	1-262	
4,6-Dinitro-2-methylphenol	ug/L	100	119	119	1-181	
4-Bromophenylphenyl ether	ug/L	50	45.5	91	53-127	
4-Chloro-3-methylphenol	ug/L	100	92.6	93	22-147	
4-Chlorophenylphenyl ether	ug/L	50	46.2	92	25-158	
4-Nitrophenol	ug/L	250	103	41	1-132	
Acenaphthene	ug/L	50	45.8	92	47-145	
Acenaphthylene	ug/L	50	46.8	94	33-145	
Anthracene	ug/L	50	50.6	101	1-166	
Benzo(a)anthracene	ug/L	50	49.1	98	33-143	
Benzo(a)pyrene	ug/L	50	52.4	105	17-163	
Benzo(b)fluoranthene	ug/L	50	48.1	96	24-159	
Benzo(g,h,i)perylene	ug/L	50	51.3	103	1-219	
Benzo(k)fluoranthene	ug/L	50	51.3	103	11-162	
bis(2-Chloroethoxy)methane	ug/L	50	41.0	82	33-184	
bis(2-Chloroethyl) ether	ug/L	50	38.4	77	12-158	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

LABORATORY CONTROL SAMPLE: 1176287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroisopropyl) ether	ug/L	50	39.7	79	36-166	
bis(2-Ethylhexyl)phthalate	ug/L	50	48.8	98	8-158	
Butylbenzylphthalate	ug/L	50	50.1	100	1-152	
Chrysene	ug/L	50	49.9	100	17-168	
Di-n-butylphthalate	ug/L	50	50.1	100	1-118	
Di-n-octylphthalate	ug/L	50	49.9	100	4-146	
Dibenz(a,h)anthracene	ug/L	50	53.1	106	1-227	
Diethylphthalate	ug/L	50	47.1	94	1-114	
Dimethylphthalate	ug/L	50	46.3	93	1-112	
Fluoranthene	ug/L	50	53.7	107	26-137	
Fluorene	ug/L	50	48.1	96	59-121	
Hexachloro-1,3-butadiene	ug/L	50	42.2	84	24-116	
Hexachlorobenzene	ug/L	50	48.6	97	1-152	
Hexachlorocyclopentadiene	ug/L	50	37.7	75	25-150	
Hexachloroethane	ug/L	50	36.6	73	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	52.4	105	1-171	
Isophorone	ug/L	50	45.7	91	21-196	
N-Nitroso-di-n-propylamine	ug/L	50	37.2	74	1-230	
N-Nitrosodimethylamine	ug/L	50	22.2	44	25-150	
N-Nitrosodiphenylamine	ug/L	50	40.6	81	25-150	
Naphthalene	ug/L	50	44.2	88	21-133	
Nitrobenzene	ug/L	50	44.2	88	35-180	
Pentachlorophenol	ug/L	100	105	105	14-176	
Phenanthrene	ug/L	50	48.6	97	54-120	
Phenol	ug/L	50	21.1	42	5-112	
Pyrene	ug/L	50	47.5	95	52-115	
2,4,6-Tribromophenol (S)	%			121	10-137	
2-Fluorobiphenyl (S)	%			93	15-120	
2-Fluorophenol (S)	%			51	10-120	
Nitrobenzene-d5 (S)	%			90	10-120	
Phenol-d6 (S)	%			36	10-120	
Terphenyl-d14 (S)	%			98	11-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176288 1176289

Parameter	Units	92196750001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	50	50	27.3	28.4	55	57	44-142	4	
2,4,6-Trichlorophenol	ug/L	ND	50	50	38.5	38.2	77	76	37-144	1	
2,4-Dichlorophenol	ug/L	ND	50	50	36.4	34.1	73	68	1-191	7	
2,4-Dimethylphenol	ug/L	ND	50	50	31.2	31.4	62	63	32-119	1	
2,4-Dinitrophenol	ug/L	ND	250	250	214	213	86	85	1-181	1	
2,4-Dinitrotoluene	ug/L	ND	50	50	43.3	41.9	87	84	39-139	3	
2,6-Dinitrotoluene	ug/L	ND	50	50	39.2	39.5	78	79	50-158	1	
2-Chloronaphthalene	ug/L	ND	50	50	28.5	29.0	57	58	60-118	2	M1
2-Chlorophenol	ug/L	ND	50	50	30.5	27.1	61	54	23-134	12	
2-Nitrophenol	ug/L	ND	50	50	32.6	34.6	65	69	29-182	6	

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176288 1176289

Parameter	Units	92196750001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
3,3'-Dichlorobenzidine	ug/L	ND	100	100	38.1	35.0	38	35	1-262	8	
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	85.9	86.4	86	86	1-181	1	
4-Bromophenylphenyl ether	ug/L	ND	50	50	31.4	31.1	63	62	53-127	1	
4-Chloro-3-methylphenol	ug/L	ND	100	100	92.7	81.8	93	82	22-147	13	
4-Chlorophenylphenyl ether	ug/L	ND	50	50	37.8	36.7	76	73	25-158	3	
4-Nitrophenol	ug/L	ND	250	250	225	226	90	90	1-132	0	
Acenaphthene	ug/L	ND	50	50	31.5	31.4	63	63	47-145	0	
Acenaphthylene	ug/L	ND	50	50	30.8	31.7	62	63	33-145	3	
Anthracene	ug/L	ND	50	50	37.7	37.6	75	75	1-166	0	
Benzo(a)anthracene	ug/L	ND	50	50	35.8	37.3	72	75	33-143	4	
Benzo(a)pyrene	ug/L	ND	50	50	38.2	39.2	76	78	17-163	2	
Benzo(b)fluoranthene	ug/L	ND	50	50	37.2	38.4	74	77	24-159	3	
Benzo(g,h,i)perylene	ug/L	ND	50	50	38.3	39.3	77	79	1-219	3	
Benzo(k)fluoranthene	ug/L	ND	50	50	35.7	34.6	71	69	11-162	3	
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	23.8	24.1	48	48	33-184	2	
bis(2-Chloroethyl) ether	ug/L	ND	50	50	30.5	24.4	61	49	12-158	22	
bis(2-Chloroisopropyl) ether	ug/L	ND	50	50	23.7	22.5	47	45	36-166	5	
bis(2-Ethylhexyl)phthalate	ug/L	98.4	50	50	80.1	90.1	-37	-17	8-158	12	M0
Butylbenzylphthalate	ug/L	ND	50	50	39.5	42.5	79	85	1-152	7	
Chrysene	ug/L	ND	50	50	36.9	38.2	74	76	17-168	3	
Di-n-butylphthalate	ug/L	ND	50	50	42.4	42.4	85	85	1-118	0	
Di-n-octylphthalate	ug/L	ND	50	50	44.7	45.1	89	90	4-146	1	
Dibenz(a,h)anthracene	ug/L	ND	50	50	40.7	41.6	81	83	1-227	2	
Diethylphthalate	ug/L	ND	50	50	37.9	36.9	76	74	1-114	3	
Dimethylphthalate	ug/L	ND	50	50	33.6	33.0	67	66	1-112	2	
Fluoranthene	ug/L	ND	50	50	39.4	36.8	79	74	26-137	7	
Fluorene	ug/L	ND	50	50	38.5	37.7	77	75	59-121	2	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	28.0	29.6	56	59	24-116	6	
Hexachlorobenzene	ug/L	ND	50	50	32.0	30.9	64	62	1-152	3	
Hexachlorocyclopentadiene	ug/L	ND	50	50	25.8	25.2	52	50	25-150	2	
Hexachloroethane	ug/L	ND	50	50	24.7	23.9	49	48	40-113	3	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50	39.9	41.2	80	82	1-171	3	
Isophorone	ug/L	ND	50	50	26.5	26.5	53	53	21-196	0	
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	24.3	21.4	49	43	1-230	13	
N-Nitrosodimethylamine	ug/L	ND	50	50	15.5	17.8	31	36	25-150	14	
N-Nitrosodiphenylamine	ug/L	ND	50	50	26.4	26.4	53	53	25-150	0	
Naphthalene	ug/L	ND	50	50	27.7	27.8	55	56	21-133	1	
Nitrobenzene	ug/L	ND	50	50	25.8	28.5	52	57	35-180	10	
Pentachlorophenol	ug/L	ND	100	100	106	108	106	108	14-176	2	
Phenanthrene	ug/L	ND	50	50	35.8	35.9	72	72	54-120	0	
Phenol	ug/L	ND	50	50	24.9	19.9	50	40	5-112	22	
Pyrene	ug/L	ND	50	50	29.1	33.3	58	67	52-115	13	
2,4,6-Tribromophenol (S)	%						128	140	10-137		S0
2-Fluorobiphenyl (S)	%						54	57	15-120		
2-Fluorophenol (S)	%						43	44	10-120		
Nitrobenzene-d5 (S)	%						48	52	10-120		
Phenol-d6 (S)	%						43	36	10-120		

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176288 1176289

Parameter	Units	92196750001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Terphenyl-d14 (S)	%						63	76	11-131		

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

QC Batch: OEXT/26964 — Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3546 — Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 92197037001

METHOD BLANK: 1175988 — Matrix: Solid
Associated Lab Samples: 92197037001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	04/15/14 08:28	
n-Pentacosane (S)	%	83	41-119	04/15/14 08:28	

LABORATORY CONTROL SAMPLE: 1175989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	61.0	91	49-113	
n-Pentacosane (S)	%			93	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1175990 — 1176036

Parameter	Units	92196955007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diesel Components	mg/kg	ND	77.2	77.2	36.0	36.8	46	47	10-146	2	
n-Pentacosane (S)	%						44	55	41-119		

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QUALITY CONTROL DATA

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

QC Batch: PMST/6453
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92197037001

SAMPLE DUPLICATE: 1176245

Parameter	Units	92196443001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	24.8	27.5	10	

SAMPLE DUPLICATE: 1176246

Parameter	Units	92196946006 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	75.3	70.6	6	

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QUALIFIERS

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
IO	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: G&B BULK OIL FACILITY
Pace Project No.: 92197037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92197037001	**B-10**	EPA 3546	OEXT/26964	EPA 8015 Modified	GCSV/17251
92197037001	**B-10**	EPA 5035A/5030B	GCV/7971	EPA 8015 Modified	GCV/7972
92197037002	**P-1**	EPA 625	OEXT/26978	EPA 625	MSSV/8968
92197037003	**P-2**	EPA 625	OEXT/26978	EPA 625	MSSV/8968
92197037004	**P-3**	EPA 625	OEXT/26978	EPA 625	MSSV/8968
92197037002	**P-1**	SM 6200B	MSV/26468		
92197037003	**P-2**	SM 6200B	MSV/26493		
92197037004	**P-3**	SM 6200B	MSV/26468		
92197037001	**B-10**	ASTM D2974-87	PMST/6453		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: April 07. 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.14**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Tricon

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

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

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

Thermometer Used: IR Gun T1102 T1401 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

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

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: [illegible] 4/9/14 [illegible] 4/9/14

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	KLH	Date:	4/9/14
SRF Review:	KLH	Date:	4/10/14

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

WO#: 92197037

92197037

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1602555

Section A Required Client Information:

Company: TERRACON CONSULTANTS
Address: 2020 E STARITA ROAD
CHARLOTTE, NC 28206
Email To: scbrown@terracon.com
Phone: 704.509.1777 Fax: 704.509.1888
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: STEPHEN BROWN
Copy To:
Purchase Order No.:
Project Name: G+B BULK OIL FACILITY
Project Number: 7114774.3

Section C Invoice Information:

Attention: SAME
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: KEVIN HERRING
Pace Profile #: 3234-15, 16

REGULATORY AGENCY

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

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): GRS	DIESEL	6200	6225	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-10	SL	G			4/9/14	16:05		4	2						2		X	X				001
2	P-1	WT	G			↓	16:15		6	2			4							X	X		002
3	P-2	WT	G			↓	16:20		6	2			4							X	X		003
4	P-3	WT	G			↓	16:30		6	2			4							X	X		004
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] / TERRACON	4/9/14	17:10	[signature]	4/9/14	17:10	1.6 cyer ~ ✓

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: S. ALEX CHINERY

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/10/14

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

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

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