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2014 Annual Groundwater Monitoring Report
Blanco Plant – North Flare Pit
Bloomfield, New Mexico

Prepared for

El Paso CGP Company, LLC

March 2015

CH2MHILL®

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Acronyms and Abbreviations

bgs	below ground surface
BLM	United States Bureau of Land Management
BTEX	benzene, toluene, ethylbenzene, and xylene
DTW	depth to water
EPCGPC	El Paso CGP Company, LLC
EPFS	El Paso Field Services
EPNG	El Paso Natural Gas
LNAPL	Light Non-Aqueous Phase Liquid
mg/L	milligrams per liter
MW	monitoring well
NFP	north flare pit
NMED	New Mexico Environment Department
NMOCD	New Mexico Oil Conservation Division
NMWQCC	New Mexico Water Quality Control Commission
QA/QC	quality assurance/quality control
SW	sparge well
TD	total depth
VOC	volatile organic compound

SECTION 1

Introduction

This *2014 Annual Groundwater Monitoring Report* has been prepared on behalf of El Paso CGP Company, LLC (EPCGPC) to present the results of the June and December 2014 groundwater monitoring activities at the Blanco Gas Plant - North Flare Pit (Blanco North, the site). In addition, this report discusses the decommissioning, demolition, and disposal of environmental remediation-related infrastructure and equipment. The site is currently regulated by the New Mexico Oil Conservation Division (NMOCD) and is located at 81 Road 4900 in Bloomfield, San Juan County, New Mexico. The site location is shown in Figure 1 and the site plan is shown on Figure 2.

SECTION 2

Site Background

2.1 Site Description

The Blanco North site is located approximately 1.5 miles northeast of central Bloomfield, New Mexico. The San Juan River is roughly 2 miles south of the site. The main operations of the Blanco Gas Plant are located directly to the south of the site. The site is used for gas gathering activities, with no active gas processing located on this portion of the facility. The former evaporation pond, flare pit, and field drip tank have been decommissioned and removed.

2.2 Project History

The site has an extensive history of environmental investigation and restoration. In the MWH Americas, Inc. 2011 annual monitoring report (MWH, 2011), the past 20 years of investigation, monitoring, and remediation activities are summarized to date:

- The New Mexico Environmental Improvement Division, now the New Mexico Environment Department (NMED) conducted a site inspection at the Blanco Gas Plant in 1987 and recommended investigation to support the submittal of a groundwater discharge plan application. In 1988, MW-2 was installed and sampled. During January, 1990, MW-19 was installed and sampled. MW-19 contained an oily sheen with benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations exceeding the New Mexico Water Quality Control Commission (NMWQCC) standards.

- During February 1992, hydrocarbon-contaminated impacted soils were excavated and removed from the site. Following the excavation, a work plan was submitted to the NMOCD which addressed subsurface investigation of the north flare pit (NFP). The investigation of the NFP was conducted during September and October of 1992. During the investigation, five monitoring wells (MW-20, MW-23, MW-24, MW-26, and MW-27) were installed south of the NFP. In addition, several soil borings were advanced adjacent to the monitoring wells, but were not completed as wells because significant quantities of groundwater were not encountered. Light non-aqueous phase liquid (LNAPL) was found in MW-19, MW-26, and MW-27 and was sampled. Groundwater was sampled at the remaining wells. Concentrations of BTEX in exceedance of NMWQCC standards were detected in monitoring wells MW-23 and MW-24. As a result of the groundwater data and product analysis obtained during the 1992 investigation, it was suggested that the NFP and evaporation pond were the two plausible sources of contamination at the site. Specifically, product collected and analyzed exhibited a strong correlation with typical pipeline drip, which was released into both the NFP and the evaporation pond.

- LNAPL removal from MW-19 and MW-26 was initiated by El Paso Natural Gas (EPNG) in 1993 and continued until June 1995. During this time, regular groundwater monitoring was conducted. LNAPL was not found in any monitoring wells at the site as of August 1995. In September 1995, EPNG submitted a work plan to NMOCD which proposed to remediate BTEX contamination by nitrate addition, quarterly groundwater monitoring, and abandonment of monitoring wells following

removal of contamination below NMWQCC standards. This work plan was never approved by NMOCD and groundwater monitoring at the site was discontinued.

- Management of the site was transferred from EPNG to El Paso Field Services (EPFS) in August 2001. Sludge from the lined evaporation pond was excavated and removed in October 2001. During the evaporation pond excavation, the liner was pulled back and soil samples were collected at depths from 1 to 4 feet below ground surface (bgs). The soil samples were submitted to an analytical laboratory for analysis of petroleum hydrocarbons. It was reported that the soil samples contained no detectable quantities of petroleum hydrocarbons.

- In May 2002, the NMOCD requested that EPFS submit all monitoring and remediation data related to the site from 1994 to present. EPFS submitted all the requested data along with a work plan which proposed the installation and operation of a pilot air sparge system adjacent to MW-19 and MW-26 to remediate contaminated groundwater. NMOCD approved the work plan in February 2003.

- One air sparge well (SW-1) was installed north of MW-26. During April 2003, an LNAPL skimmer pump was installed and LNAPL removal began. Operation of the air sparge system began in June, 2003.

- During May 2006, monitoring wells MW-31, MW-32, and MW-33 were installed to further characterize the site. Shortly after installation, LNAPL was found in MW-32. In September 2006, a pneumatic skimmer was placed in MW-32 to facilitate LNAPL removal. After only minimal LNAPL was removed, the skimmer was replaced with absorbent socks.

- In June 2009, during an air sparging maintenance event, the air sparge system was found to be nonoperational. EPFS suspended use of the air sparge system and began evaluating the site for hydrocarbon rebound.

From 2009 through 2011, the environmental activities at the site primarily consisted of LNAPL recovery from MW-32 and groundwater monitoring. The June and December 2014 sampling events included collection of groundwater elevation data and groundwater monitoring. Decommissioning of the environmental remediation infrastructure occurred in August 2014.

The Blanco North site is located on land owned by the United States Bureau of Land Management (BLM). During 2014, EPCGPC became aware that an access agreement between EPCGPC and BLM was not in place for access to the Blanco North site. EPCGPC is working through the BLM process to obtain a right-of-way access agreement with BLM. This access agreement is required for future investigation activities at the site including monitoring well permitting and installation. It is anticipated that this agreement will be secured during 2015.

2.3 Geology and Hydrogeology

Bechtel Environmental (Bechtel, 1988) and K.W Brown and Associates (K.W. Brown, 1990) assessed the geology and hydrogeology beneath the Blanco Plant site during their 1988 and 1990 investigations of the extent of groundwater contamination. The Blanco Plant area is located on Quaternary alluvium consisting of sand, silt, clay and gravel. The alluvium varies in thickness from less than 3 feet to more than 75 feet (Bechtel, 1988). Beneath the alluvium is Tertiary Nacimiento Formation consisting of

interbedded, coarse to medium-grained arkosic sandstone, siltstone and shale which were both channel fill and floodplain deposits (Bechtel, 1988). The channel-fill sandstone may locally dictate groundwater flow due higher hydraulic conductivities in this lithology.

The site hydrogeology and groundwater were also assessed by EPNG in a study conducted in 1989 (EPNG, 1989). The average hydraulic conductivity was estimated to be 2.1×10^{-4} centimeters per second. Depth to groundwater ranged from 9 to 50 feet below ground surface (EPNG, 1989).

In 1992, Burlington Environmental completed an investigation specific to the NFP area (Burlington, 1992). Eight borings were advanced during the investigation, five of which were completed as monitoring wells. In general, it was observed that each of these borings were advanced through approximately 19 feet of silty/clayey sand, underlain by silty/sandy clay with laminated siltstone and mudstone. In three of the borings (completed as MW-24, MW-26, and MW-27), a sand layer containing gravel and clay was encountered above the sandstone bedrock. This could possibly indicate a relict channel feature. In the MW-19 boring, a similar thick sandy unit was encountered (K.W. Brown, 1990). At approximately 50 to 70 feet bgs sandstone was encountered, with the greatest depths found beneath the possible relict channel feature. In some places the upper sections of the sandstone were observed to be friable. All soil borings advanced during the investigation were terminated in what was determined to be an apparent aquitard and was described as a gypsum-cemented sandstone. Depending on the location, groundwater saturation was encountered either within or just above the sandstone.

Based on historical groundwater elevation data, it appears that the potentiometric surface in the NFP area has declined by at least 15 feet since the initial investigation conducted in 1988. In previous reports, it has been suggested that the presence of relatively shallow groundwater was largely due to the infiltration from the former NFP and/or unidentified leakage from the lined evaporation pond. This was based on the groundwater elevations in monitoring wells MW-23 and MW-32 remaining consistent over time. These wells were not installed close to the relict channel feature, and are located in an area where the bedrock is shallower. Given these observations, ongoing drought conditions, and the closure of the plant-related infrastructure at the site, there is significant uncertainty in the understanding of the hydrogeology at the site.

SECTION 3

Site Activities

On August 4-8, 2014, CH2M HILL decommissioned, demolished, and disposed of environmental remediation-related infrastructure associated with an air sparge system (no longer utilized for groundwater remediation) at the Blanco North site. On June 18-19 and December 16-17, 2014, CH2M HILL conducted groundwater monitoring at the site. The following sections summarize the activities conducted during 2014.

3.1 Environmental Remediation Infrastructure Decommissioning, Demolition, and Disposal

The following items were decommissioned and disposed of at the Blanco North site:

- Electrical wiring and conduits which provided power to an above ground storage tank pump system.
- Electrical drop box which supplied power to the air sparge system.
- Conduit, piping, tubing, utility boxes, pump control boxes, and one compressed gas cylinder were found inside the metal storage sheds at the site.
- Three (3) metal storage sheds approximately 5’ x 8’ x 10’ in size.
- Two (2) corrugated metal housings (approximately 5’ in diameter and 4’ in height) which protected two monitoring wells (MW-19 and MW-27) from flood damage.
- Two (2) polyethylene storage totes, with a volume of approximately 250 gallons each.
- The earthen secondary containment berms (roughly 35 feet by 40 feet; soil berms are 18 inches tall by 24 inches wide) where an above ground storage tank was formerly located were graded level with the surrounding ground surface. The 50-mil polyethylene plastic sheeting which lined the secondary containment was removed and properly disposed.

All decommissioning waste materials were transferred to an onsite roll-off and disposed of at the Bloomfield Waste Management Landfill. Appendix A contains a photo log documenting the decommissioning activities.

3.2 Depth-to-Water Measurements

Depth to water (DTW), total depth (TD), and groundwater samples were collected at three site monitoring wells (MW-23, MW-32, and MW-33). Field personnel collected air monitoring data from the well head and ambient breathing zone using a photoionization detector to measure volatile organic compounds (VOCs). Following collection of air monitoring data, DTW and TD were measured at each monitoring well.

DTW and TD measurements were not collected at six of the nine site monitoring wells (MW-2, MW-19, MW-24, MW-26, MW-27, and MW-31) because each of these wells has been dry in previous sampling events. These six monitoring wells and one sparge well (SW-1) are scheduled to be abandoned as part of future investigation activities at the site.

3.3 HydraSleeve Groundwater Sampling

Following the collection of DTW and TD measurements, groundwater samples were collected using the HydraSleeve method of no-purge groundwater sampling. CH2M HILL followed the HydraSleeve Field Manual (GeoInsight, 2006) and HydraSleeve Standard Operating Procedure: Sampling Ground Water with a HydraSleeve (GeoInsight, 2010). Prior to the sampling event, CH2M HILL coordinated with GeoInsight, the manufacturer of HydraSleeve groundwater samplers, to determine the appropriate size sampler for each well. HydraSleeves are a single use sample collection tool and the correct sizing for each well is imperative so that the sleeve can be placed correctly in the well. CH2M HILL and the manufacturer determined the best size of HydraSleeve for each monitoring well based on the inside diameter of the casing, the length of the well screen, the volume of water in the screen (determined by the saturated screen interval), and the volume of water required by the laboratory for the requested analysis. Once the correct size HydraSleeve was procured for each monitoring well, they were installed in each well with the bottom of the HydraSleeve set at the same interval as the bottom of the well screen. The HydraSleeve was suspended in the well via cable a minimum of 24 hours prior to sample collection. At the time of sample collection, the sleeve was manually retrieved from the well. During HydraSleeve retrieval, a check valve at the top of the sleeve closes when the sleeve is full. Once the HydraSleeve has been recovered at the ground surface, it must be punctured to transfer the sample to the sample containers. Water cannot be poured out from the top of the HydraSleeve because the check valve remains closed.

Field indicator parameters are often collected during well purging to demonstrate when the parameters stabilize and sampling can commence. Since there is no purging process with HydraSleeves, field indicator parameters are not collected.

Groundwater samples were submitted for laboratory analyses of benzene, toluene, ethylbenzene, and xylenes by U.S. Environmental Protection Agency (USEPA) SW-846 Method 8260B. Quality assurance/quality control (QA/QC) samples were also collected to ensure proper sample handling and to provide information for laboratory data validation.

SECTION 4

Results and Discussion

4.1 Groundwater Elevation and Gradient

DTW and TD were measured at monitoring wells MW-23, MW-32, and MW-33. DTW at these wells ranged from approximately 58 to 70 feet bgs during both sampling events. Although LNAPL had been previously observed in monitoring wells at the site, no measurable LNAPL was found in the wells during these monitoring events. Based on the calculated groundwater elevations, the overall groundwater gradient is approximately 0.037 – 0.038 foot per foot, with the overall direction of groundwater flow to the south. The gradient and groundwater flow direction are consistent with previous reports.

Groundwater elevation data from the 2014 sampling events and historical groundwater elevation data are provided in Table 1. Potentiometric surface maps depicting the groundwater elevations observed during the 2014 monitoring events are provided in Figures 3 and 4.

4.2 Groundwater Analytical Results

Table 2 summarizes the 2014 and historical groundwater analytical results. The 2014 laboratory analytical reports are provided in Appendix B. Figure 5 presents BTEX concentrations in groundwater which exceeded their respective NMWQCC standards during each sampling event.

Concentrations of benzene, toluene, and xylenes exceeding the NMWQCC standards were found in monitoring wells MW-23 and MW-32, located in the northern portion of the site. Concentrations of benzene and xylenes at these two wells exceeded the NMWQCC standards of 0.01 milligram per liter (mg/L) and 0.62 mg/L, respectively, in both of the 2014 sampling events. The concentration of toluene at MW-32 exceeded its NMWQCC standard of 0.75 mg/L during the June sampling event.

SECTION 5

Conclusions and Recommendations

The following conclusions and recommendations are presented relative to groundwater conditions at the Blanco North site, based on the groundwater elevation and analytical data obtained during the 2014 monitoring events.

5.1 Conclusions

Groundwater monitoring has been conducted at the site since 1988. There is significant uncertainty regarding VOC concentrations over time, primarily due to existing monitoring wells going dry as the water table decreases and also incomplete delineation of the VOCs. Based on the 2014 results from samples collected at MW-23, MW-32, and MW-33, VOC groundwater concentrations at MW-32 and MW-33 were either stable or decreasing compared to historical data. However, VOC groundwater concentrations at MW-23 have increased compared to historical data. Based on the review and comparison of the historical and 2014 data, the VOCs that have consistently exceeded the NMWQCC standards are benzene and xylenes. Attempts to remediate the site groundwater contamination in the central portion of the site using air sparging and absorbent sock technologies have been marginally effective and have resulted in only minor decreases in VOC concentrations at these locations, likely due to the very localized effects of these remediation technologies.

5.2 Recommendations

Additional delineation of the VOCs is recommended for the Blanco North site. EPCGPC is planning to implement additional investigation activities at the site. These site investigation activities will generally include:

- Abandoning existing monitoring wells which have gone dry.
- Installation of new monitoring wells in locations that will provide better delineation of the VOCs; these wells will be constructed with longer screens so that they will have a longer service life should groundwater elevations continue to decline and/or if groundwater elevations increase in response to increased precipitation in northwestern New Mexico.
- Collection of DTW measurements and groundwater samples from the site wells.
- Review of the data to evaluate the groundwater flow direction and compare the VOC concentration distribution to NMWQCC standards.
- Evaluate potential remediation approaches and additional delineation locations.

SECTION 6

References

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Figures

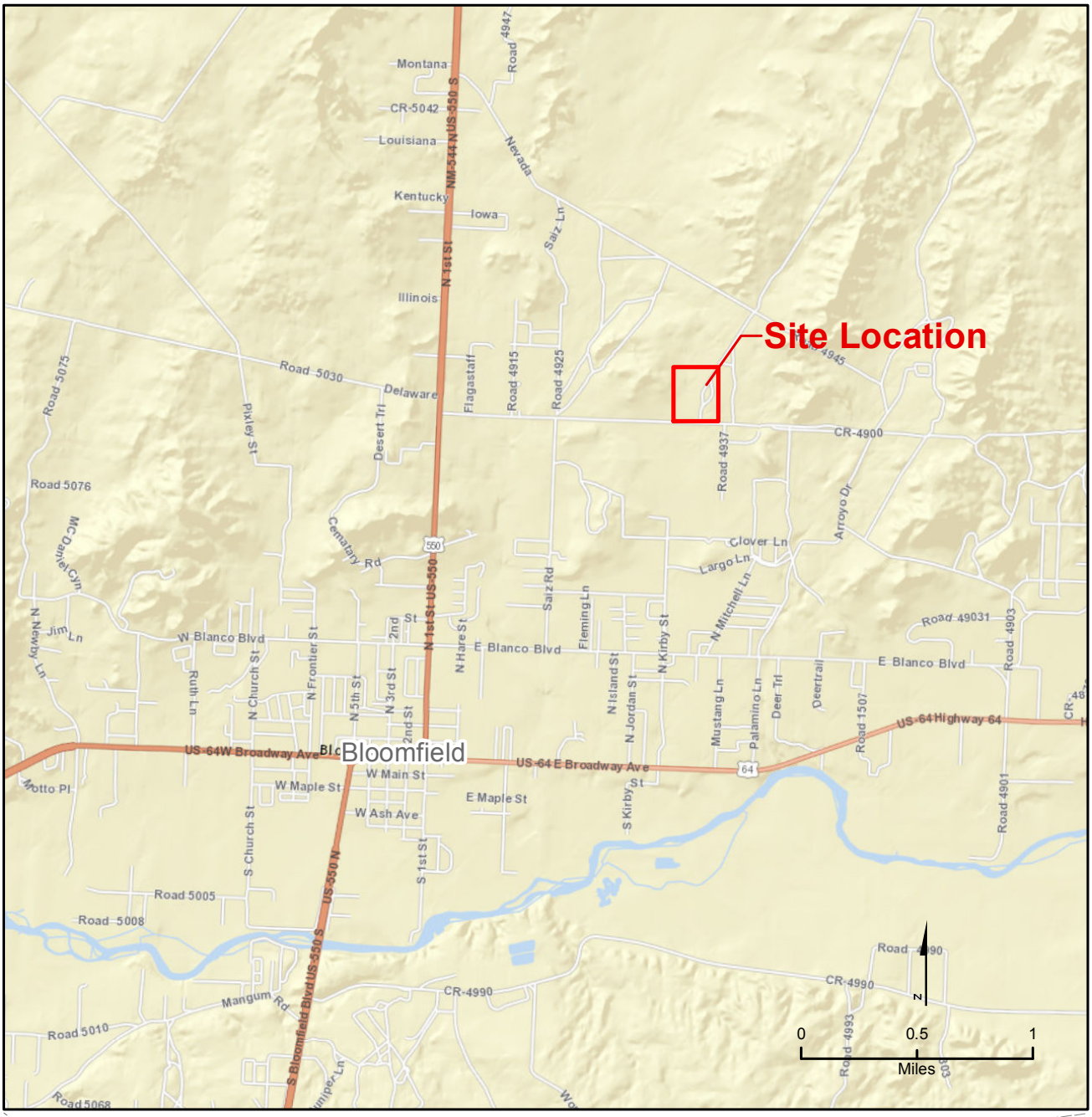

FIGURE 1
Site Location Map
Blanco North Flare Pit
Bloomfield, New Mexico

LEGEND

- Monitoring Well
- Sparge Well
- Fence
- Study Area
- Former Flare Pit

N

0 80 160
Feet

FIGURE 2
Blanco North Flare Pit
North Gas Plant Site
Bloomfield, New Mexico

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LEGEND

- Monitoring Well
- Sparge Well
- Study Area
- Former Flare Pit
- Fence
- Groundwater Elevation Contour (Dashed where inferred)
- Potential Groundwater Flow Direction

Notes:

NM Not Measured

5559 Groundwater Elevation (in feet above mean sea level)

N

0 80 160

Feet

FIGURE 3
Potentiometric Surface Map – June 2014
Blanco North Flare Pit
Bloomfield, New Mexico

CH2MHILL

RDD Q:\AV_PROJ\KINDER_MORGAN\MAPFILES\BLANCO_NORTH\FIG3_BLANCO_N_POT_MAP.MXD BMOAYYAD 3/10/2015 12:06:39 PM

LEGEND

- Monitoring Well
- Sparge Well
- Study Area
- Former Flare Pit
- Fence
- Groundwater Elevation Contour (Dashed where inferred)
- Potential Groundwater Flow Direction

Notes:

NM Not Measured

5559 Groundwater Elevation (in feet above mean sea level)

N

0 80 160
Feet

FIGURE 4
Potentiometric Surface Map – December 2014
Blanco North Flare Pit
Bloomfield, New Mexico

RDD Q:\AV_PROJ\KINDER_MORGAN\MAPFILES\BLANCO_NORTH\FIG4_BLANCO_N_POT_MAP.MXD BMOAYYAD 3/18/2015 2:50:29 PM

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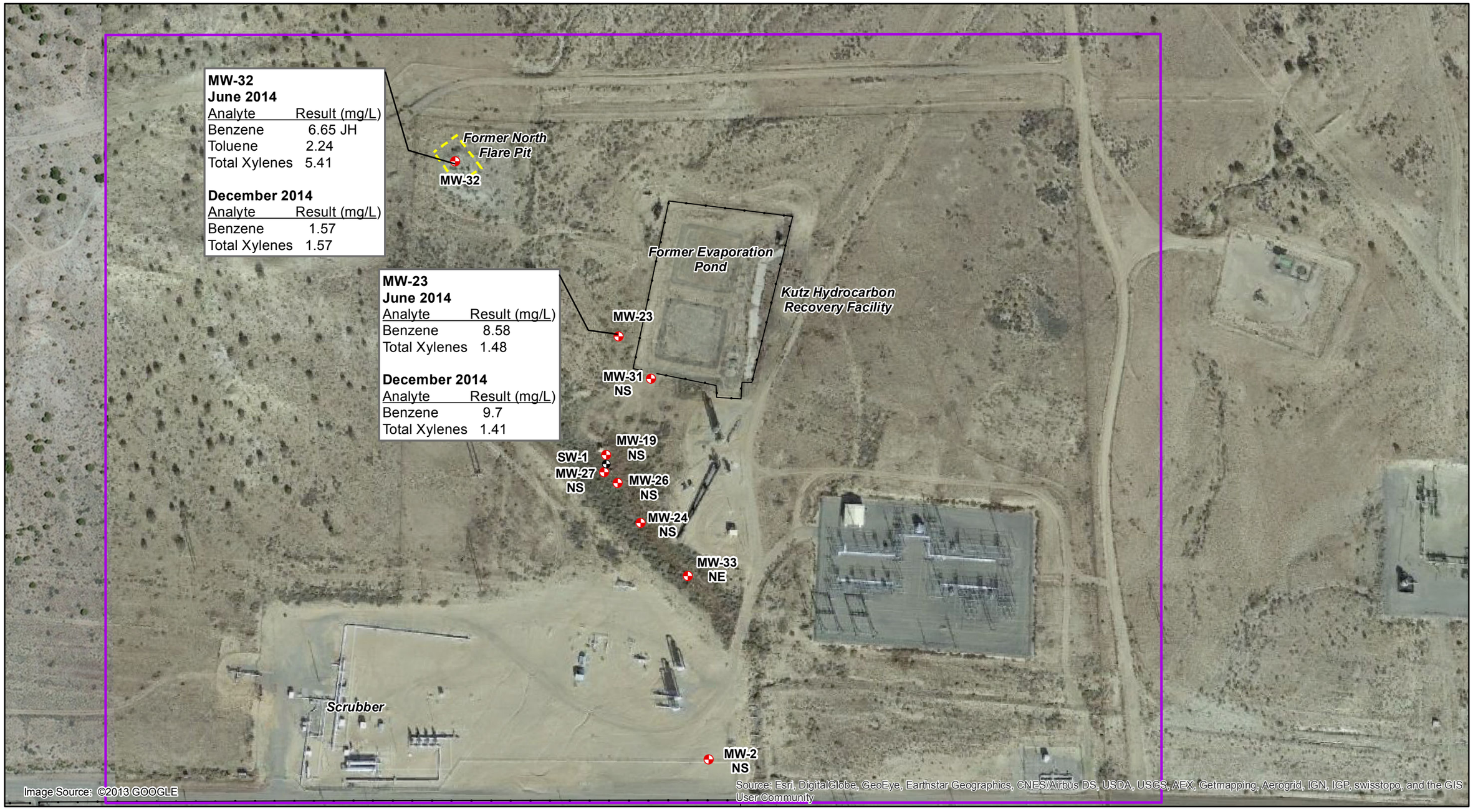

LEGEND

- Monitoring Well
- Sparge Well
- Fence
- Study Area
- Former Flare Pit
- **NS** Not Sampled
- **NE** No Exceedances

Notes:
mg/L = milligrams per liter
NMWQCC= New Mexico Water Quality Control Commission

NMWQCC Standards:
Benzene - 0.01 mg/L, Toluene - 0.75 mg/L
Ethylbenzene - 0.75 mg/L, Total Xylenes - 0.62 mg/L

N

0 80 160
Feet

FIGURE 5
Total BTEX Groundwater Exceedances of NMWQCC Standards
Blanco North Flare Pit
Bloomfield, New Mexico

CH2MHILL

RDD Q:\AV_PROJ\KINDER_MORGAN\MAPFILES\BLANCO_NORTH\FIG5_BLANCO_N_GW_TOTAL_BTEX.MXD BMOAYYAD 3/18/2015 2:53:45 PM

Tables

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Northing	Easting	TOC Elevation (ft AMSL)	Measurement Date	Depth to Water (ft BTOC)	GW Elevation (ft AMSL)
MW-2	**2086193.106**	**2686300.188**	**5618.64**	9/28/1988	49.6	5569.04
				1/15/1990	51.87	5566.77
				6/18/1991	NA	NA
				10/13/1992	55.48	5563.16
				2/23/1993	NA	NA
				6/8/1993	NA	NA
				9/29/1993	NA	NA
				2/10/1994	NA	NA
				5/13/1994	NA	NA
				8/22/1994	NA	NA
				11/9/2000	Dry	Dry
				3/25/2001	Dry	Dry
				6/2/2003	Dry	Dry
				8/4/2003	Dry	Dry
				9/3/2003	Dry	Dry
				12/16/2003	Dry	Dry
				5/17/2004	Dry	Dry
				8/23/2004	Dry	Dry
				11/22/2004	Dry	Dry
				2/23/2005	Dry	Dry
				5/23/2005	Dry	Dry
				8/30/2005	Dry	Dry
				11/17/2005	Dry	Dry
				2/21/2006	Dry	Dry
				6/8/2006	Dry	Dry
				8/15/2006	Dry	Dry
				11/3/2006	Dry	Dry
				2/26/2007	Dry	Dry
				5/29/2007	Dry	Dry
				8/22/2007	Dry	Dry
				11/28/2007	Dry	Dry
				2/20/2008	Dry	Dry
				5/22/2008	Dry	Dry
				8/21/2008	Dry	Dry
				12/17/2013	Dry	Dry
				6/18/2014	NM	NM
				12/16/2014	NM	NM

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Northing	Easting	TOC Elevation (ft AMSL)	Measurement Date	Depth to Water (ft BTOC)	GW Elevation (ft AMSL)
MW-19	**2086782.433**	**2686102.841**	**5624.75**	1/15/1990	55.7	5569.05
				6/19/1991	NA	NA
				10/13/1992	60.95	5563.80
				2/25/1993	NA	NA
				6/10/1993	NA	NA
				11/13/2000	63.45	5561.30
				3/26/2001	63.37	5561.38
				5/30/2002	63.54	5561.21
				6/2/2003	63.9	5560.85
				8/4/2003	62.75	5562.00
				9/3/2003	65.06	5559.69
				12/16/2003	65.14	5559.61
				5/17/2004	65.31	5559.44
				8/23/2004	NM	NM
				11/22/2004	NM	NM
				2/23/2005	NM	NM
				5/23/2005	NM	NM
				8/30/2005	NM	NM
				11/17/2005	NM	NM
				2/21/2006	NM	NM
				6/8/2006	NM	NM
				8/15/2006	NM	NM
				11/3/2006	NM	NM
				2/26/2007	NM	NM
				5/29/2007	NM	NM
				8/22/2007	NM	NM
				11/28/2007	NM	NM
				2/20/2008	NM	NM
				5/22/2008	NM	NM
				8/21/2008	NM	NM
				11/6/2008	NM	NM
				2/17/2009	NM	NM
				5/11/2009	NM	NM
				8/26/2009	NM	NM
				12/17/2013	Dry	Dry
				6/18/2014	NM	NM
				12/16/2014	NM	NM

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Northing	Easting	TOC Elevation (ft AMSL)	Measurement Date	Depth to Water (ft BTOC)	GW Elevation (ft AMSL)
MW-20	**NA**	**NA**	**NA**	9/25/1992	48.83	NA
				2/24/1993	NA	NA
				6/10/1993	NA	NA
				9/29/1993	NA	NA
				1/27/1994	NA	NA
				5/13/1994	NA	NA
				8/22/1994	NA	NA
				11/13/2000	NA	NA
				6/2/2003	NA	NA
MW-23	**2087013.55**	**2686127.998**	**5633.82**	9/25/1992	57.11	5576.71
				2/1/1993	NA	NA
				2/25/1993	NA	NA
				6/8/1993	NA	NA
				9/29/1993	NA	NA
				2/10/1994	NA	NA
				5/13/1994	NA	NA
				8/22/1994	NA	NA
				11/13/2000	57.02	5576.80
				3/26/2001	57.07	5576.75
				5/30/2002	57.08	5576.74
				6/2/2003	57.12	5576.70
				8/4/2003	57.06	5576.76
				9/3/2003	57.11	5576.71
				12/16/2003	57.31	5576.51
				5/17/2004	57.14	5576.68
				8/23/2004	57.04	5576.78
				11/22/2004	57.13	5576.69
				2/23/2005	57.13	5576.69
				5/23/2005	57.22	5576.60
				8/30/2005	57.18	5576.64
				11/17/2005	57.29	5576.53
				2/21/2006	57.25	5576.57
				6/8/2006	57.44	5576.38
				8/15/2006	57.40	5576.42
				11/3/2006	57.41	5576.41
				2/26/2007	57.44	5576.38
				5/29/2007	57.47	5576.35
				8/22/2007	57.49	5576.33
				11/28/2007	57.62	5576.20
				2/20/2008	57.57	5576.25
				5/22/2008	57.40	5576.42
				8/21/2008	57.70	5576.12
				11/6/2008	57.81	5576.01
				2/17/2009	57.69	5576.13
				5/11/2009	57.83	5575.99
				8/26/2009	57.93	5575.89
				2/18/2010	57.89	5575.93
				8/25/2010	58.11	5575.71
				2/23/2011	58.04	5575.78
				8/31/2011	58.12	5575.7
				12/17/2013	58.58	5575.24
				6/18/2014	58.53	5575.29
				12/16/2014	58.70	5575.12

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Northing	Easting	TOC Elevation (ft AMSL)	Measurement Date	Depth to Water (ft BTOC)	GW Elevation (ft AMSL)
MW-24	**2086647.686**	**2686170.628**	**5624.82**	9/25/1992	58.99	5565.83
				2/23/1993	NA	NA
				6/10/1993	NA	NA
				9/29/1993	NA	NA
				2/10/1994	NA	NA
				5/13/1994	NA	NA
				8/22/1994	NA	NA
				11/13/2000	65.06	5559.76
				3/26/2001	65.00	5559.82
				5/30/2002	65.65	5559.17
				6/2/2003	66.38	5558.44
				8/4/2003	66.91	5557.91
				9/3/2003	Dry	Dry
				12/16/2003	67.17	5557.65
				5/17/2004	Dry	Dry
				8/23/2004	67.11	5557.71
				11/22/2004	66.37	5558.45
				2/23/2005	67.11	5557.71
				8/30/2005	67.11	5557.71
				11/17/2005	67.12	5557.70
				2/21/2006	67.11	5557.71
				6/8/2006	Dry	Dry
				8/15/2006	67.12	5557.70
				11/3/2006	67.13	5557.69
				2/26/2007	67.16	5557.66
				5/29/2007	67.13	5557.69
				8/22/2007	67.14	5557.68
				11/28/2007	67.13	5557.69
				2/20/2008	67.13	5557.69
				5/22/2008	67.14	5557.68
				8/21/2008	67.12	5557.70
				11/6/2008	67.12	5557.70
				2/17/2009	67.12	5557.70
				5/11/2009	67.12	5557.70
				8/26/2009	67.12	5557.70
				2/18/2010	67.09	5557.73
				8/25/2010	67.08	5557.74
				12/17/2013	Dry	Dry
				6/18/2014	NM	NM
				12/16/2014	NM	NM

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Northing	Easting	TOC Elevation (ft AMSL)	Measurement Date	Depth to Water (ft BTOC)	GW Elevation (ft AMSL)
MW-26	**2086751.725**	**2686098.548**	**5623.86**	10/13/1992	57.84	5566.02
				2/25/1993	NA	NA
				6/10/1993	NA	NA
				3/26/2001	62.36	5561.50
				5/30/2002	63.68	5560.18
				6/2/2003	NA	NA
				8/4/2003	65.19	5558.67
				9/4/2003	65.00	5558.86
				12/17/2003	65.02	5558.84
				5/17/2004	65.54	5558.32
				8/23/2004	66.11	5557.75
				11/22/2004	66.37	5557.49
				2/23/2005	66.12	5557.74
				5/23/2005	66.25	5557.61
				8/30/2005	66.08	5557.78
				11/17/2005	66.14	5557.72
				2/21/2006	65.21	5558.65
				6/8/2006	66.15	5557.71
				8/15/2006	65.92	5557.94
				11/3/2006	65.46	5558.40
				2/26/2007	65.94	5557.92
				5/29/2007	66.25	5557.61
				8/22/2007	66.61	5557.25
				11/28/2007	66.67	5557.19
				2/20/2008	65.97	5557.89
				5/22/2008	66.10	5557.76
				8/21/2008	66.81	5557.05
				11/6/2008	66.93	5556.93
				2/17/2009	66.98	5556.88
				5/11/2009	67.12	5556.74
				8/26/2009	67.30	5556.56
				2/18/2010	66.89	5556.97
				8/25/2010	67.17	5556.69
				2/22/2011	67.09	5556.77
				8/31/2011	67.05	5556.81
				12/17/2013	Dry	Dry
				6/18/2014	NM	NM
				12/16/2014	NM	NM

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Northing	Easting	TOC Elevation (ft AMSL)	Measurement Date	Depth to Water (ft BTOC)	GW Elevation (ft AMSL)
MW-27	**2086728.912**	**2686124.959**	**5623.95**	10/13/1992	57.72	5566.23
				2/26/1993	NA	NA
				6/10/1993	NA	NA
				9/30/1993	NA	NA
				2/2/1994	NA	NA
				5/14/1994	NA	NA
				11/13/2000	63.67	5560.28
				3/26/2001	63.38	5560.57
				5/30/2002	63.54	5560.41
				6/2/2003	64.41	5559.54
				8/4/2003	63.72	5560.23
				9/3/2003	64.80	5559.15
				12/16/2003	65.16	5558.79
				5/17/2004	65.74	5558.21
				8/23/2004	66.27	5557.68
				11/22/2004	66.63	5557.32
				2/23/2005	67.15	5556.80
				5/23/2005	67.41	5556.54
				8/30/2005	67.80	5556.15
				11/17/2005	67.68	5556.27
				2/21/2006	67.28	5556.67
				6/8/2006	68.12	5555.83
				8/15/2006	68.57	5555.38
				11/3/2006	68.38	5555.57
				2/26/2007	68.56	5555.39
				5/29/2007	68.73	5555.22
				8/22/2007	69.73	5554.22
				11/28/2007	68.47	5555.48
				2/20/2008	68.36	5555.59
				5/22/2008	68.50	5555.45
				8/21/2008	68.48	5555.47
				11/6/2008	68.28	5555.67
				2/17/2009	69.21	5554.74
				5/11/2009	68.06	5555.89
				8/26/2009	68.23	5555.72
				2/18/2010	68.16	5555.79
				8/25/2010	68.65	5555.30
				2/22/2011	68.59	5555.36
				12/17/2013	Dry	Dry
				6/18/2014	NM	NM
				12/16/2014	NM	NM

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Northing	Easting	TOC Elevation (ft AMSL)	Measurement Date	Depth to Water (ft BTOC)	GW Elevation (ft AMSL)
MW-31	**2086933.709**	**2686190.698**	**5633.81**	5/29/2007	72.85	5560.96
				8/22/2007	72.97	5560.84
				11/28/2007	73.07	5560.74
				2/20/2008	72.97	5560.84
				5/22/2008	72.97	5560.84
				8/21/2008	73.09	5560.72
				11/6/2008	73.09	5560.72
				2/17/2009	73.05	5560.76
				5/11/2009	73.03	5560.78
				8/26/2009	73.17	5560.64
				2/18/2010	73.13	5560.68
				8/25/2010	73.03	5560.78
				12/17/2013	Dry	Dry
				6/18/2014	NM	NM
				12/16/2014	NM	NM
MW-32	**2087349.253**	**2685814.641**	**5649.53**	8/26/2009	59.09	5590.44
				2/18/2010	58.93	5590.60
				2/22/2011	58.98	5590.55
				12/17/2013	59.19	5590.34
				6/18/2014	58.83	5590.70
				12/16/2014	58.61	5590.92
MW-33	**2086548.924**	**2686260.306**	**5624.95**	6/8/2006	77.58	5547.37
				8/15/2006	71.71	5553.24
				11/3/2006	71.07	5553.88
				2/26/2007	70.33	5554.62
				5/29/2007	70.71	5554.24
				8/22/2007	71.29	5553.66
				11/28/2007	51.66	5573.29
				2/20/2008	52.51	5572.44
				5/22/2008	67.47	5557.48
				8/21/2008	69.81	5555.14
				11/6/2008	71.07	5553.88
				2/17/2009	70.33	5554.62
				5/11/2009	69.70	5555.25
				8/26/2009	69.60	5555.35
				2/18/2010	68.90	5556.05
				8/25/2010	68.90	5556.05
				2/22/2011	68.54	5556.41
				8/31/2011	69.18	5555.77
				12/17/2013	68.40	5556.55
				6/18/2014	68.70	5556.25
				12/16/2014	69.19	5555.76

Notes:
NA - Not Available
NM - Not Measured due to previously being dry; including measurements of water present only in the bottom cap of the well.
TOC - top of casing
ft BTOC - feet below top of casing
ft AMSL - feet above mean sea level

Table 2

Summary of BTEX Groundwater Analytical Results

Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-2	9/28/1988	<0.0002	<0.0002	<0.0002	<0.0006
	1/15/1990	<0.0005	<0.0005	<0.0005	<0.0005
	6/18/1991	<0.0005	<0.0005	**0.0007**	**0.0009**
	10/13/1992	No Sample Collected			
	2/23/1993	<0.0005	<0.0005	<0.0005	<0.0005
	6/8/1993	<0.002	<0.002	<0.002	<0.002
	9/29/1993	**0.0062**	<0.002	<0.002	<0.002
	2/10/1994	<0.002	<0.002	<0.002	<0.002
	5/13/1994	<0.002	<0.002	<0.002	<0.002
	8/22/1994	<0.002	<0.002	<0.002	<0.002
	11/9/2000	Well Dry - No Sample Collected			
	3/25/2001	Well Dry - No Sample Collected			
	6/2/2003	Well Dry - No Sample Collected			
	8/4/2003	Well Dry - No Sample Collected			
	9/3/2003	Well Dry - No Sample Collected			
	12/16/2003	Well Dry - No Sample Collected			
	5/17/2004	Well Dry - No Sample Collected			
	8/23/2004	Well Dry - No Sample Collected			
	11/22/2004	Well Dry - No Sample Collected			
	2/23/2005	Well Dry - No Sample Collected			
	5/23/2005	Well Dry - No Sample Collected			
	8/30/2005	Well Dry - No Sample Collected			
	11/17/2005	Well Dry - No Sample Collected			
	2/21/2006	Well Dry - No Sample Collected			
	6/8/2006	Well Dry - No Sample Collected			
	8/15/2006	Well Dry - No Sample Collected			
	11/3/2006	Well Dry - No Sample Collected			
	2/26/2007	Well Dry - No Sample Collected			
	5/29/2007	Well Dry - No Sample Collected			
	8/22/2007	Well Dry - No Sample Collected			
	11/28/2007	Well Dry - No Sample Collected			
	2/20/2008	Well Dry - No Sample Collected			
	5/22/2008	Well Dry - No Sample Collected			
	8/21/2008	Well Dry - No Sample Collected			

Table 2

Summary of BTEX Groundwater Analytical Results

Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-19*	1/15/1990	**4.2**	<0.05	**0.34**	**3.74**
	6/19/1991	**8.6**	**0.21**	<0.025	**4.2**
	10/13/1992	Product - No Sample Collected			
	2/25/1993	**14**	**0.45**	**3.9**	**5.1**
	6/10/1993	**9.58**	**0.159**	**0.928**	**1.087**
	11/13/2000	**7.2**	<0.025	**3.5**	**0.088**
	3/26/2001	**12**	<0.05	**4.5**	**0.11**
	5/30/2002	**12**	<0.05	**4.3**	**0.14**
	6/2/2003	**10.1**	<0.010	**3.9**	<0.03
	8/4/2003	**2**	<0.001	**0.304**	<0.03
	9/3/2003	**3.58**	<0.001	**1.02**	<0.003
	12/16/2003	**8.13**	<0.05	<0.05	<0.01
	5/17/2004	**7.41**	<0.013	**1.16**	**0.0448**
	8/23/2004	**2.65**	<0.025	**0.303**	<0.05
	11/22/2004	**4.15**	**0.0068**	<0.001	<0.002
	2/23/2005	**0.191**	<0.010	<0.010	<0.02
	5/23/2005	**8.52**	<20	**0.176**	**0.176**
	8/30/2005	**2.04**	<0.02	**0.117**	<0.04
	11/17/2005	**3.73**	<0.02	**0.34**	<0.04
	2/21/2006	**0.0201**	<0.005	**0.0094**	**0.0044**
	6/8/2006	**0.0186**	<0.001	<0.001	**0.0029**
	8/15/2006	Well Damaged - No Sample Collected			
	11/3/2006	<0.001	<0.001	<0.001	<0.002
	2/26/2007	<0.001	<0.001	<0.001	<0.002
	5/29/2007	Well Damaged - No Sample Collected			
	8/22/2007	Well Damaged - No Sample Collected			
	11/28/2007	Well Damaged - No Sample Collected			
	2/20/2008	Well Damaged - No Sample Collected			
	5/22/2008	Well Damaged - No Sample Collected			
	8/21/2008	Well Damaged - No Sample Collected			
	11/6/2008	Well Damaged - No Sample Collected			
	2/17/2009	Well Damaged - No Sample Collected			
	5/11/2009	Well Damaged - No Sample Collected			
	8/26/2009	Well Damaged - No Sample Collected			
MW-20	9/25/1992	<0.001	<0.001	<0.001	<0.001
	2/24/1993	<0.0005	<0.0005	<0.0005	<0.0005
	6/10/1993	<0.002	<0.002	<0.002	<0.002
	9/29/1993	<0.002	<0.002	<0.002	<0.002
	1/27/1994	<0.002	<0.002	<0.002	<0.002
	5/13/1994	<0.002	<0.002	<0.002	<0.002
	8/22/1994	<0.002	<0.002	<0.002	<0.002
	11/13/2000	Well Damaged - No Sample Collected			
	6/2/2003	Well Abandoned in 2002			

Table 2

Summary of BTEX Groundwater Analytical Results

Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-23	9/25/1992	**2.77**	**0.221**	**7.69**	**6.09**
	2/1/1993	**2.9**	**3.5**	**0.19**	**4.1**
	2/25/1993	**2.9**	**0.19**	**3.5**	**4.1**
	6/8/1993	**1.68**	**0.0301**	**1.85**	**2.906**
	9/29/1993	**2.133**	**0.216**	**1.807**	**3.823**
	2/10/1994	**2.09**	**0.151**	**1.15**	**2.66**
	5/13/1994	**3.53**	**0.255**	**0.852**	**2.15**
	8/22/1994	**3.27**	**0.212**	**0.353**	**1.176**
	11/13/2000	**3.7**	<0.025	**0.84**	**1.4**
	3/26/2001	**7.2**	<0.025	**0.52**	**1.3**
	5/30/2002	**9.3**	<0.05	**0.36**	**1.5**
	6/2/2003	**8.92**	<0.010	**0.337**	**1.45**
	8/4/2003	**2.25**	<0.010	**0.1**	**0.337**
	9/3/2003	**3.86**	**0.0078**	**0.208**	**0.768**
	12/16/2003	**5.08**	<0.05	<0.05	**0.219**
	5/17/2004	**8.02**	<0.013	0.208	**1.49**
	8/23/2004	**4.48**	<0.025	0.16	**0.966**
	11/22/2004	**3.36**	<0.001	<0.001	<0.002
	2/23/2005	**7.45**	<0.001	**0.321**	**1.38**
	5/23/2005	**9.9**	**0.0365**	**0.27**	**1.65**
	8/30/2005	**3.76**	<0.005	**0.0532**	**0.199**
	11/17/2005	**5.28**	**0.0026**	**0.203**	**0.863**
	2/21/2006	**4.9**	**0.0049**	**0.0567**	**0.71**
	6/8/2006	**3.47**	<0.001	<0.001	**0.373**
	8/15/2006	**6.49**	**0.0266**	**0.165**	**1.27**
	11/3/2006	**3.92**	**0.0263**	**0.103**	**0.735**
	2/26/2007	**8.91**	**0.0307**	**0.276**	**1.6**
	5/29/2007	**6.41**	<0.011	**0.276**	**1.24**
	8/22/2007	**5.11**	**0.0145**	**0.172**	**0.855**
	11/28/2007	**5.82**	<0.05	**0.147**	**1.08**
	2/20/2008	**8.29 B**	**0.0093**	**0.271**	**1.87 B**
	5/22/2008	**4.86**	<0.1	**0.14**	**0.891**
	8/21/2008	**5.92**	<0.1	**0.146**	**1.25**
	11/6/2008	**6.59**	**0.0042**	**0.186**	**1.4**
	2/17/2009	**6.01**	<0.05	**0.219**	**1.52**
	5/11/2009	**6.74**	**0.0054**	**0.162**	**1.53**
	8/26/2009	**6.71**	**0.0358 J**	**0.278**	**1.72**
	2/18/2010	**6.55**	<0.1	**0.227**	**1.5**
	8/25/2010	**5.5**	<0.025	**0.152**	**1.22**
	2/23/2011	**5.84**	**0.0088**	**0.16**	**1.23**
	8/31/2011	**6.27**	**0.0038**	**0.174**	**1.38**
	12/17/2013	**6.34**	**0.00965 J**	**0.101**	**0.964**
	6/19/2014	**8.58**	<0.0075	**0.149**	**1.48**
	12/17/2014	**9.7**	<0.0075	**0.141**	**1.41**

Table 2

Summary of BTEX Groundwater Analytical Results

Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-24	9/25/1992	**2.65**	**0.0948**	<0.05	**1.34**
	2/23/1993	**1.3**	**0.071**	<0.0125	**0.6**
	6/10/1993	**0.0592**	**0.015**	**0.00703**	**0.0947**
	9/29/1993	**1.04**	**0.0627**	**0.008**	**0.918**
	2/10/1994	**0.49**	**0.0438**	<0.002	**0.395**
	5/13/1994	**1.39**	**0.069**	<0.002	**0.898**
	8/22/1994	**0.836**	**0.0602**	<0.0025	**0.154**
	11/13/2000	**0.2**	<0.001	**0.0046**	**0.022**
	3/26/2001	**1.5**	<0.005	**0.018**	**0.035**
	5/30/2002	**2.1**	**0.013**	**0.029**	<0.025
	6/2/2003	Well Bailed Dry - No Sample Collected			
	8/4/2003	Well Bailed Dry - No Sample Collected			
	9/3/2003	Well Dry - No Sample Collected			
	12/16/2003	Well Bailed Dry - No Sample Collected			
	5/17/2004	Well Dry - No Sample Collected			
	8/23/2004	Well Bailed Dry - No Sample Collected			
	11/22/2004	Well Bailed Dry - No Sample Collected			
	2/23/2005	Well Bailed Dry - No Sample Collected			
	8/30/2005	Not Enough Water to Sample - TD 67.19			
	11/17/2005	Not Enough Water to Sample - TD 67.19			
	2/21/2006	Not Enough Water to Sample - TD 67.19			
	6/8/2006	Not Enough Water to Sample - TD 67.19			
	8/15/2006	Not Enough Water to Sample - TD 67.19			
	11/3/2006	Not Enough Water to Sample - TD 67.19			
	2/26/2007	Not Enough Water to Sample - TD 67.19			
	5/29/2007	Not Enough Water to Sample - TD 67.19			
	8/22/2007	Not Enough Water to Sample - TD 67.19			
	11/28/2007	Not Enough Water to Sample - TD 67.19			
	2/20/2008	Not Enough Water to Sample - TD 67.19			
	5/22/2008	Not Enough Water to Sample - TD 67.19			
	8/21/2008	Not Enough Water to Sample - TD 67.19			
	11/6/2008	Not Enough Water to Sample - TD 67.19			
	2/17/2009	Not Enough Water to Sample - TD 67.19			
	5/11/2009	Not Enough Water to Sample - TD 67.19			
	8/26/2009	Not Enough Water to Sample - TD 67.19			
	2/18/2010	Not Enough Water to Sample - TD 67.19			
	8/25/2010	Not Enough Water to Sample - TD 67.19			

Table 2

Summary of BTEX Groundwater Analytical Results

Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-26	10/13/1992	Product - No Sample Collected. DTW shown is corrected.			
	2/25/1993	**11.0**	**0.86**	**9.9**	**10.0**
	6/10/1993	**12.18**	**0.47**	**7.504**	**4.959**
	3/26/2001	**6.4**	**0.1**	**0.28**	**1.9**
	5/30/2002	**6.2**	**0.05**	**0.27**	**1.3**
	6/2/2003	Product Recovery Pump in Well - No Sample Collected			
	8/4/2003	Well Bailed Dry - No Sample Collected			
	9/4/2003	**0.538**	**0.0096**	**0.139**	**0.466**
	12/17/2003	**0.307**	<0.0005	**0.158**	**0.685**
	5/17/2004	**0.109**	**0.0143**	**0.0871**	**0.28**
	8/23/2004	**0.0295**	<0.005	**0.04**	**0.0936**
	11/22/2004	**0.019**	<0.001	**0.0035**	**0.0568**
	2/23/2005	**0.0227**	<0.010	<0.010	**0.011**
	5/23/2005	**0.038**	**0.0063**	**0.0623**	**0.173**
	8/30/2005	**0.0182**	<0.005	**0.0032**	**0.0304**
	11/17/2005	**0.0142**	<0.005	**0.017**	**0.0348**
	2/21/2006	**0.0136**	<0.002	<0.002	**0.0029**
	6/8/2006	**0.0024**	<0.001	**0.0018**	**0.0036**
	8/15/2006	**0.0027**	**0.021**	**0.0111**	**0.041**
	11/3/2006	**0.0013**	<0.001	<0.001	<0.002
	2/26/2007	**0.0014**	<0.001	<0.001	<0.002
	5/29/2007	**0.0027**	<0.001	<0.001	<0.002
	8/22/2007	<0.001	<0.001	<0.001	<0.002
	11/28/2007	**0.0077**	**0.0018 J**	**0.00089 J**	**0.0049 J**
	2/20/2008	**0.0337 B**	**0.00030 J**	**0.0026**	**0.0162**
	5/22/2008	**0.0046**	**0.00045 J**	**0.00058 J**	**0.00062 J**
	8/21/2008	**0.0014**	<0.001	<0.001	<0.003
	11/6/2008	**0.0034**	<0.002	<0.002	**0.0028 J**
	2/17/2009	**0.0059**	**0.00044 J**	**0.00086 J**	**0.007**
	5/11/2009	**0.00091 J**	**0.00078 J**	<0.002	**0.0029 J**
	8/26/2009	**0.001**	<0.001	<0.001	**0.0011 J**
	2/18/2010	**0.003**	**0.00039 J**	**0.00033 J**	**0.0026**
	8/25/2010	**0.0029**	<0.001	<0.001	<0.002
	2/22/2011	**0.0057**	<0.001	**0.00065**	**0.0053**
	8/31/2011	**0.003**	<0.001	<0.001	**0.0018**

Table 2

Summary of BTEX Groundwater Analytical Results

Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-27	10/13/1992	Product - No Sample Collected. DTW shown is corrected.			
	2/26/1993	**9.1**	**0.47**	**5.7**	**4.9**
	6/10/1993	**8.97**	**0.376**	**0.137**	**5.406**
	9/30/1993	**13.2**	**0.402**	**0.42**	**3.1**
	2/2/1994	**9.74**	**0.212**	**0.209**	**1.75**
	5/14/1994	**10.1**	**0.358**	**0.18**	**4.5**
	11/13/2000	**4.4**	**4.7**	**12**	**60**
	3/26/2001	**0.42**	**0.027**	**0.26**	**1.6**
	5/30/2002	**0.42**	**0.013**	**0.17**	**1.1**
	6/2/2003	**0.192**	<0.025	**0.328**	**1.48**
	8/4/2003	**0.116**	<0.010	**0.145**	**0.697**
	9/3/2003	**0.137**	**0.0174**	**0.274**	**1.24**
	12/16/2003	**0.127**	**0.017**	**0.25**	**1.06**
	5/17/2004	**0.0959**	**0.0276**	**0.317**	**1.6**
	8/23/2004	**0.398**	<0.025	<0.025	**4.83**
	11/22/2004	<0.001	<0.001	**0.33**	**1.52**
	2/23/2005	**0.0207**	**0.0282**	**0.419**	**2.21**
	5/23/2005	<0.001	<0.001	<0.001	<0.002
	8/30/2005	**0.0166**	**0.0135**	**0.383**	**1.86**
	11/17/2005	**0.0263**	**0.004**	**0.175**	**1.07**
	2/21/2006	**0.0413**	<0.005	<0.005	**0.264**
	6/8/2006	**0.002**	<0.001	**0.0032**	**0.156**
	8/15/2006	**0.007**	<0.005	<0.005	<0.002
	11/3/2006	**0.0017**	**0.0025**	**0.0028**	**0.0132**
	2/26/2007	<0.001	<0.001	<0.001	<0.002
	5/29/2007	**0.0011**	<0.001	<0.001	<0.002
	8/22/2007	<0.001	<0.001	<0.001	<0.002
	11/28/2007	**0.0052**	**0.0123 B**	**0.00061 J**	**0.0096**
	2/20/2008	**0.0035 UB**	**0.00045**	**0.00070 J**	**0.00470 B**
	5/22/2008	**0.00049 J**	<0.001	<0.001	<0.002
	8/21/2008	<0.001	<0.001	<0.001	<0.002
	11/6/2008	<0.002	<0.002	<0.002	<0.006
	2/17/2009	**0.0065**	**0.00066 J**	**0.0013**	**0.0087**
	5/11/2009	**0.0015 J**	**0.00075 J**	<0.002	**0.0016 J**
	8/26/2009	**0.0005 J**	<0.001	<0.001	**0.0015 J**
	2/18/2010	**0.0053**	**0.0005 J**	**0.007**	**0.0053**
	8/25/2010	**0.0027**	**0.0003 J**	**0.00046 J**	**0.0014 J**
	2/22/2011	**0.0058**	<0.001	**0.00078**	**0.0054**

Table 2

Summary of BTEX Groundwater Analytical Results

Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-31	5/29/2007	**0.0046**	<0.001	<0.001	<0.002
	8/22/2007	**0.0048**	<0.001	<0.001	<0.002
	11/28/2007	**0.0027**	**0.00068 UB**	**0.00061 J**	**0.0035 J**
	2/20/2008	**0.0129 B**	**0.00029 J**	**0.0017**	**0.0116 B**
	5/22/2008	**0.0057**	<0.001	**0.00070 J**	**0.0052**
	8/21/2008	Not Enough Water to Sample - TD 73.38			
	11/6/2008	Not Enough Water to Sample - TD 73.38			
	2/17/2009	Not Enough Water to Sample - TD 73.38			
	5/11/2009	**0.0137**	**0.0051**	**0.0036**	**0.0225**
	8/26/2009	Not Enough Water to Sample - TD 73.38			
	2/18/2010	Not Enough Water to Sample - TD 73.27			
	8/25/2010	Not Enough Water to Sample - TD 73.27			
MW-32	8/26/2009	**9.05**	**16.3**	**0.48**	**6.39**
	2/18/2010	**11.3**	**16.2**	**0.397**	**4.96**
	2/22/2011	**9.45**	**12.1**	**0.386**	**4.63**
	12/17/2013	**5.88**	**0.54**	**0.303**	**4.3**
	6/19/2014	**6.65**	**2.24**	**0.324**	**5.41**
	12/17/2014	**1.57**	**0.736**	**0.098**	**1.57**
MW-33	6/8/2006	**0.0011**	**0.0042**	<0.001	**0.0045**
	8/15/2006	**0.0301**	**0.0377**	<0.05	**0.0246**
	11/3/2006	<0.001	**0.0013**	<0.001	<0.002
	2/26/2007	<0.001	<0.001	<0.001	<0.002
	5/29/2007	<0.001	<0.001	<0.001	<0.002
	8/22/2007	<0.001	<0.001	<0.001	<0.002
	11/28/2007	<0.002	<0.002	<0.002	<0.006
	2/20/2008	**0.00099 UB**	**0.001 UB**	<0.001	**0.001 UB**
	5/22/2008	<0.001	<0.001	<0.001	<0.002
	8/21/2008	<0.001	<0.001	<0.001	<0.003
	11/6/2008	**0.0021**	<0.002	<0.002	**0.002 J**
	2/17/2009	**0.0015**	**0.00030 J**	<0.001	**0.0022**
	5/11/2009	<0.002	<0.002	<0.002	<0.006
	8/26/2009	<0.001	<0.001	<0.001	<0.002
	2/18/2010	**0.00098 J**	<0.001	<0.001	**0.00099 J**
	8/25/2010	**0.0004 J**	<0.001	<0.001	<0.002
	2/22/2011	**0.00055 J**	<0.001	<0.001	<0.001
	8/31/2011	**0.00045 J**	<0.001	<0.001	<0.001
	12/17/2013	**0.00501**	**0.000221 J**	**0.000110 J**	**0.000444 J**
	6/19/2014	<0.00008	<0.00015	<0.00011	<0.00026
	12/17/2014	<0.00008	<0.00015	<0.00011	<0.00026

Notes:

0.0053 Bold text indicates detected concentration

1.86 Shaded cells and bolded text indicate concentrations exceeded the NMWQCC standard

* Monitoring well MW-19 formed a restriction in the casing in 2004 which worsened over time. For the final 2 quarters of sampling in 2006-2007, a small diameter pipe was still insertable, which allowed for sample collection.

B = Analyte detected in an associated QA/QC blank; sample result unaffected

J = Analyte detected at concentration above instrument detection limit but below method detection limit

NA = Not Applicable or Not Available

UB = Analyte detected in an associated QA/QC blank; sample result considered non-detect

< = not detected above listed method detection limit

Appendix A
Environmental Remediation Infrastructure Decommissioning Photo Log

Demolition of air sparge system storage shed.

Termination of power supply to air sparge system shed.

Termination of power supply to air sparge system shed.

Demolition of air sparge storage shed.

Demolition of air sparge storage shed.

Demolition of air sparge storage shed.

Removal of electrical conduits.

Removal of equipment at air sparge well.

Demolition of air sparge storage shed foundation.

Removal of electrical conduits.

Grading location of former air sparge storage shed.

Electrical conduit removal.

Completion of grading at location of former sir sparge system storage shed.

Equipment demolition complete at air sparge well.

Concrete pad removal at MW-32.

Demolition of secondary shed for air sparge system.

Demolition air sparge system shed.

Removal of electrical conduit/wiring supplying power to air sparge system shed.

Electrical supply disconnect.

Installation of steel protective stick-ups for MW-19, MW-27, and SW-1.

Appendix B
Laboratory Analytical Reports

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 600-94269-1

Job Description: Blanco Gas Plant-North Flare Pit

For:
CH2M Hill, Inc.
4041 Jefferson Plaza NE
Suite 200
Albuquerque, NM 87109

Attention: Luke Hill

Approved for release.
Cathy L Upton
Project Management Assistant II
7/14/2014 6:49 PM

Cathy L Upton, Project Management Assistant II
6310 Rothway Street, Houston, TX, 77040
(713)690-4444
cathy.upton@testamericainc.com
07/14/2014

cc: Jeffrey Minchak
Mr. John Ynfante

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-09A-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

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CASE NARRATIVE

Client: CH2M Hill, Inc.

Project: Blanco Gas Plant-North Flare Pit

Report Number: 600-94269-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within 2°C of the required temperature or method specified range. For samples with a specified temperature of 4°C, samples with a temperature ranging from just above freezing temperature of water to 6°C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

The samples were received on 06/23/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.7 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples BlancoNFP-MW32-06192014 (600-94269-1), BlancoNFP-MW23-06192014 (600-94269-4), BlancoNFP-MD01-06192014 (600-94269-5), BlancoNFP-MW33-06192014 (600-94269-6) and BlancoNFP-TB01-06192014 (600-94269-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/26/2014.

Benzene failed the recovery criteria high for the MS/MSD of sample BlancoNFP-MW32-06192014 (600-94269-1) in batch 600-137797 due to the high concentration in the parent sample. The associated laboratory control sample (LCS) met acceptance criteria.

Refer to the QC report for details.

Samples BlancoNFP-MW32-06192014 (600-94269-1)[250X], BlancoNFP-MW23-06192014 (600-94269-4)[50X], BlancoNFP-MW23-06192014 (600-94269-4)[500X], BlancoNFP-MD01-06192014 (600-94269-5)[50X] and BlancoNFP-MD01-06192014 (600-94269-5)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: CH2M Hill, Inc.
Project/Site: Blanco Gas Plant-North Flare Pit

TestAmerica Job ID: 600-94269-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: CH2M Hill, Inc.
TestAmerica Job ID: 600-94269-1
Project/Site: Blanco Gas Plant-North Flare Pit

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-94269-1	BlancoNFP-MW32-06192014	Water	06/19/14 07:14	06/23/14 10:49
600-94269-4	BlancoNFP-MW23-06192014	Water	06/19/14 08:00	06/23/14 10:49
600-94269-5	BlancoNFP-MD01-06192014	Water	06/19/14 12:00	06/23/14 10:49
600-94269-6	BlancoNFP-MW33-06192014	Water	06/19/14 08:40	06/23/14 10:49
600-94269-7	BlancoNFP-TB01-06192014	Water	06/19/14 07:00	06/23/14 10:49

Detection Summary

Client: CH2M Hill, Inc.
Project/Site: Blanco Gas Plant-North Flare Pit

TestAmerica Job ID: 600-94269-1

Client Sample ID: BlancoNFP-MW32-06192014 — Lab Sample ID: 600-94269-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6650		250	20.0	ug/L	250		8260B	Total/NA
Ethylbenzene	324		250	27.5	ug/L	250		8260B	Total/NA
Toluene	2240		250	37.5	ug/L	250		8260B	Total/NA
Xylenes, Total	5410		250	65.0	ug/L	250		8260B	Total/NA

Client Sample ID: BlancoNFP-MW23-06192014 — Lab Sample ID: 600-94269-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	149		50.0	5.50	ug/L	50		8260B	Total/NA
Xylenes, Total	1480		50.0	13.0	ug/L	50		8260B	Total/NA
Benzene - DL	8130		500	40.0	ug/L	500		8260B	Total/NA

Client Sample ID: BlancoNFP-MD01-06192014 — Lab Sample ID: 600-94269-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	140		50.0	5.50	ug/L	50		8260B	Total/NA
Xylenes, Total	1410		50.0	13.0	ug/L	50		8260B	Total/NA
Benzene - DL	8580		500	40.0	ug/L	500		8260B	Total/NA

Client Sample ID: BlancoNFP-MW33-06192014 — Lab Sample ID: 600-94269-6

No Detections.

Client Sample ID: BlancoNFP-TB01-06192014 — Lab Sample ID: 600-94269-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: BlancoNFP-MW32-06192014

Lab Sample ID: 600-94269-1

Date Collected: 06/19/14 07:14

Matrix: Water

Date Received: 06/23/14 10:49

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6650**		250	20.0	ug/L			06/26/14 13:00	250
Ethylbenzene	**324**		250	27.5	ug/L			06/26/14 13:00	250
Toluene	**2240**		250	37.5	ug/L			06/26/14 13:00	250
Xylenes, Total	**5410**		250	65.0	ug/L			06/26/14 13:00	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*		*06/26/14 13:00*	*250*
Dibromofluoromethane	*80*		*62 - 130*		*06/26/14 13:00*	*250*
Toluene-d8 (Surr)	*81*		*70 - 130*		*06/26/14 13:00*	*250*
4-Bromofluorobenzene	*79*		*67 - 139*		*06/26/14 13:00*	*250*

Client Sample ID: BlancoNFP-MW23-06192014

Lab Sample ID: 600-94269-4

Date Collected: 06/19/14 08:00

Matrix: Water

Date Received: 06/23/14 10:49

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**149**		50.0	5.50	ug/L			06/26/14 13:28	50
Toluene	7.50	U	50.0	7.50	ug/L			06/26/14 13:28	50
Xylenes, Total	**1480**		50.0	13.0	ug/L			06/26/14 13:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*50 - 134*		*06/26/14 13:28*	*50*
Dibromofluoromethane	*81*		*62 - 130*		*06/26/14 13:28*	*50*
Toluene-d8 (Surr)	*80*		*70 - 130*		*06/26/14 13:28*	*50*
4-Bromofluorobenzene	*81*		*67 - 139*		*06/26/14 13:28*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**8130**		500	40.0	ug/L			06/26/14 14:26	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*		*06/26/14 14:26*	*500*
Dibromofluoromethane	*85*		*62 - 130*		*06/26/14 14:26*	*500*
Toluene-d8 (Surr)	*79*		*70 - 130*		*06/26/14 14:26*	*500*
4-Bromofluorobenzene	*80*		*67 - 139*		*06/26/14 14:26*	*500*

Client Sample ID: BlancoNFP-MD01-06192014

Lab Sample ID: 600-94269-5

Date Collected: 06/19/14 12:00

Matrix: Water

Date Received: 06/23/14 10:49

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**140**		50.0	5.50	ug/L			06/26/14 13:57	50
Toluene	7.50	U	50.0	7.50	ug/L			06/26/14 13:57	50
Xylenes, Total	**1410**		50.0	13.0	ug/L			06/26/14 13:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*50 - 134*		*06/26/14 13:57*	*50*
Dibromofluoromethane	*80*		*62 - 130*		*06/26/14 13:57*	*50*
Toluene-d8 (Surr)	*83*		*70 - 130*		*06/26/14 13:57*	*50*

Client Sample ID: BlancoNFP-MD01-06192014

Lab Sample ID: 600-94269-5

Date Collected: 06/19/14 12:00

Matrix: Water

Date Received: 06/23/14 10:49

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*67 - 139*		*06/26/14 13:57*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8580		500	40.0	ug/L			06/26/14 15:51	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*50 - 134*		*06/26/14 15:51*	*500*
Dibromofluoromethane	*83*		*62 - 130*		*06/26/14 15:51*	*500*
Toluene-d8 (Surr)	*83*		*70 - 130*		*06/26/14 15:51*	*500*
4-Bromofluorobenzene	*85*		*67 - 139*		*06/26/14 15:51*	*500*

Client Sample ID: BlancoNFP-MW33-06192014

Lab Sample ID: 600-94269-6

Date Collected: 06/19/14 08:40

Matrix: Water

Date Received: 06/23/14 10:49

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0800	U	1.00	0.0800	ug/L			06/26/14 12:24	1
Ethylbenzene	0.110	U	1.00	0.110	ug/L			06/26/14 12:24	1
Toluene	0.150	U	1.00	0.150	ug/L			06/26/14 12:24	1
Xylenes, Total	0.260	U	1.00	0.260	ug/L			06/26/14 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 134*		*06/26/14 12:24*	*1*
Dibromofluoromethane	*88*		*62 - 130*		*06/26/14 12:24*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*06/26/14 12:24*	*1*
4-Bromofluorobenzene	*81*		*67 - 139*		*06/26/14 12:24*	*1*

Client Sample ID: BlancoNFP-TB01-06192014

Lab Sample ID: 600-94269-7

Date Collected: 06/19/14 07:00

Matrix: Water

Date Received: 06/23/14 10:49

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0800	U	1.00	0.0800	ug/L			06/26/14 11:55	1
Ethylbenzene	0.110	U	1.00	0.110	ug/L			06/26/14 11:55	1
Toluene	0.150	U	1.00	0.150	ug/L			06/26/14 11:55	1
Xylenes, Total	0.260	U	1.00	0.260	ug/L			06/26/14 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*50 - 134*		*06/26/14 11:55*	*1*
Dibromofluoromethane	*91*		*62 - 130*		*06/26/14 11:55*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*06/26/14 11:55*	*1*
4-Bromofluorobenzene	*79*		*67 - 139*		*06/26/14 11:55*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: CH2M Hill, Inc.
Project/Site: Blanco Gas Plant-North Flare Pit

TestAmerica Job ID: 600-94269-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(50-134)	(62-130)	(70-130)	(67-139)
600-94269-1	BlancoNFP-MW32-06192014	92	80	81	79
600-94269-1 MS	BlancoNFP-MW32-06192014 MS	95	89	76	81
600-94269-1 MSD	BlancoNFP-MW32-06192014 MSD	97	93	80	86
600-94269-4 - DL	BlancoNFP-MW23-06192014	92	85	79	80
600-94269-4	BlancoNFP-MW23-06192014	88	81	80	81
600-94269-5	BlancoNFP-MD01-06192014	90	80	83	84
600-94269-5 - DL	BlancoNFP-MD01-06192014	91	83	83	85
600-94269-6	BlancoNFP-MW33-06192014	101	88	83	81
600-94269-7	BlancoNFP-TB01-06192014	97	91	82	79
LCS 600-137797/3	Lab Control Sample	100	96	84	85
MB 600-137797/5	Method Blank	95	86	79	82

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-137797/5
Matrix: Water
Analysis Batch: 137797

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0800	U	1.00	0.0800	ug/L			06/26/14 11:27	1
Ethylbenzene	0.110	U	1.00	0.110	ug/L			06/26/14 11:27	1
Toluene	0.150	U	1.00	0.150	ug/L			06/26/14 11:27	1
Xylenes, Total	0.260	U	1.00	0.260	ug/L			06/26/14 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*50 - 134*		*06/26/14 11:27*	*1*
Dibromofluoromethane	*86*		*62 - 130*		*06/26/14 11:27*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*06/26/14 11:27*	*1*
4-Bromofluorobenzene	*82*		*67 - 139*		*06/26/14 11:27*	*1*

Lab Sample ID: LCS 600-137797/3
Matrix: Water
Analysis Batch: 137797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	12.97		ug/L		130	70 - 130
Ethylbenzene	10.0	10.34		ug/L		103	70 - 130
Toluene	10.0	10.63		ug/L		106	70 - 130
Xylenes, Total	20.0	20.81		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 134*
Dibromofluoromethane	*96*		*62 - 130*
Toluene-d8 (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene	*85*		*67 - 139*

Lab Sample ID: 600-94269-1 MS
Matrix: Water
Analysis Batch: 137797

Client Sample ID: BlancoNFP-MW32-06192014 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	6650		2500	10220	F1	ug/L		143	70 - 130
Ethylbenzene	324		2500	2846		ug/L		101	70 - 130
Toluene	2240		2500	4775		ug/L		101	70 - 130
Xylenes, Total	5410		5000	10760		ug/L		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*50 - 134*
Dibromofluoromethane	*89*		*62 - 130*
Toluene-d8 (Surr)	*76*		*70 - 130*
4-Bromofluorobenzene	*81*		*67 - 139*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-94269-1 MSD
Matrix: Water
Analysis Batch: 137797

Client Sample ID: BlancoNFP-MW32-06192014 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	6650		2500	10160	F1	ug/L		140	70 - 130	1	30
Ethylbenzene	324		2500	2974		ug/L		106	70 - 130	4	30
Toluene	2240		2500	4888		ug/L		106	70 - 130	2	30
Xylenes, Total	5410		5000	10630		ug/L		104	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*50 - 134*
Dibromofluoromethane	*93*		*62 - 130*
Toluene-d8 (Surr)	*80*		*70 - 130*
4-Bromofluorobenzene	*86*		*67 - 139*

QC Association Summary

Client: CH2M Hill, Inc.
Project/Site: Blanco Gas Plant-North Flare Pit

TestAmerica Job ID: 600-94269-1

GC/MS VOA

Analysis Batch: 137797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-94269-1	BlancoNFP-MW32-06192014	Total/NA	Water	8260B	
600-94269-1 MS	BlancoNFP-MW32-06192014 MS	Total/NA	Water	8260B	
600-94269-1 MSD	BlancoNFP-MW32-06192014 MSD	Total/NA	Water	8260B	
600-94269-4	BlancoNFP-MW23-06192014	Total/NA	Water	8260B	
600-94269-4 - DL	BlancoNFP-MW23-06192014	Total/NA	Water	8260B	
600-94269-5	BlancoNFP-MD01-06192014	Total/NA	Water	8260B	
600-94269-5 - DL	BlancoNFP-MD01-06192014	Total/NA	Water	8260B	
600-94269-6	BlancoNFP-MW33-06192014	Total/NA	Water	8260B	
600-94269-7	BlancoNFP-TB01-06192014	Total/NA	Water	8260B	
LCS 600-137797/3	Lab Control Sample	Total/NA	Water	8260B	
MB 600-137797/5	Method Blank	Total/NA	Water	8260B	

Client Sample ID: BlancoNFP-MW32-06192014

Lab Sample ID: 600-94269-1

Date Collected: 06/19/14 07:14

Matrix: Water

Date Received: 06/23/14 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	137797	06/26/14 13:00	DT1	TAL HOU

Client Sample ID: BlancoNFP-MW23-06192014

Lab Sample ID: 600-94269-4

Date Collected: 06/19/14 08:00

Matrix: Water

Date Received: 06/23/14 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	137797	06/26/14 13:28	DT1	TAL HOU
Total/NA	Analysis	8260B	DL	500	137797	06/26/14 14:26	DT1	TAL HOU

Client Sample ID: BlancoNFP-MD01-06192014

Lab Sample ID: 600-94269-5

Date Collected: 06/19/14 12:00

Matrix: Water

Date Received: 06/23/14 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	137797	06/26/14 13:57	DT1	TAL HOU
Total/NA	Analysis	8260B	DL	500	137797	06/26/14 15:51	DT1	TAL HOU

Client Sample ID: BlancoNFP-MW33-06192014

Lab Sample ID: 600-94269-6

Date Collected: 06/19/14 08:40

Matrix: Water

Date Received: 06/23/14 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137797	06/26/14 12:24	DT1	TAL HOU

Client Sample ID: BlancoNFP-TB01-06192014

Lab Sample ID: 600-94269-7

Date Collected: 06/19/14 07:00

Matrix: Water

Date Received: 06/23/14 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137797	06/26/14 11:55	DT1	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: CH2M Hill, Inc.
TestAmerica Job ID: 600-94269-1
Project/Site: Blanco Gas Plant-North Flare Pit

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-14
Louisiana	NELAP	6	30643	06-30-15
Oklahoma	State Program	6	1309	08-31-14
Texas	NELAP	6	T104704223	10-31-14
USDA	Federal		P330-14-00192	06-06-17
Utah	NELAP	8	TX00083	10-31-14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Instrument ID: CHVOAMS07 Analysis Batch Number: 135303

Lab Sample ID: IC 600-135303/3 Client Sample ID:

Date Analyzed: 05/27/14 11:27 Lab File ID: A14703.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromoform	12.34	Poor chromatography	tengd	05/27/14 13:41
1,2-Dibromo-3-Chloropropane	15.18	Poor chromatography	tengd	05/27/14 15:02

Lab Sample ID: IC 600-135303/4 Client Sample ID:

Date Analyzed: 05/27/14 11:56 Lab File ID: A14704.D GC Column: DB-VRX 60 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	5.67	Poor chromatography	tengd	05/27/14 14:05
1,4-Dioxane	9.16	Poor chromatography	tengd	05/27/14 14:05
Bromoform	12.34	Poor chromatography	tengd	05/27/14 14:05
trans-1,4-Dichloro-2-butene	12.73	Poor chromatography	tengd	05/27/14 15:21
1,2-Dibromo-3-Chloropropane	15.18	Poor chromatography	tengd	05/27/14 14:05

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
3NRSTD_00002	06/10/14	05/27/14	Methol, Lot V041414A	1 mL	1-Chlorhexane_00001	25 uL	1-Chlorohexane	50 ug/mL
					23DClButaneS_00034	25 uL	cis 2,3-dichlorobutane	49.9232 ug/mL
							trans 2,3-dichlorobutane	49.9232 ug/mL
.1-Chlorhexane_00001	05/02/22		Accustd, Lot 212051023		(Purchased Reagent)		1-Chlorohexane	2000 ug/mL
.23DClButaneS_00034	05/12/15	05/12/14	methol, Lot V041414A	10 mL	23DClButaneS_00032	36.15 uL	cis 2,3-dichlorobutane	1996.93 ug/mL
							trans 2,3-dichlorobutane	1996.93 ug/mL
..23DClButaneS_00032	10/16/16		Aldrich, Lot 07904EF		(Purchased Reagent)		cis 2,3-dichlorobutane	0.5524 g/mL
							trans 2,3-dichlorobutane	0.5524 g/mL
VOALCSPT_00034	07/02/14	06/18/14	Methanol, Lot V041414A	1 mL	VOARMegMixLcs_00001	25 uL	Benzene	50 ug/mL
							Ethylbenzene	50 ug/mL
							Toluene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VOARMegMixLcs_00001	02/29/16		Restek, Lot A093733		(Purchased Reagent)		Benzene	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Toluene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
VOARIST_00002	02/28/18		Restek, Lot A093504		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
VOASS50PPM_00161	07/08/14	06/24/14	Methanol, Lot V041414A	1 mL	VOARSS_00003	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARSS_00003	01/31/19		Restek, Lot A0101000		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOASTDGASPT_00062	05/27/14	05/20/14	Methanol, Lot V041414A	1 mL	VOARGAS_00002	25 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VOARGAS_00002	02/28/15		RESTEK, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VOASTDPT_00034	06/10/14	05/27/14	Methanol, Lot V041414A	1 mL	VOAR2CEVE_00001	50 uL	2-Chloroethyl vinyl ether	100 ug/mL
					VOARAcrolein_00007	50 uL	Acrolein	250 ug/mL

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VOARADDCOM_00002	25 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Acetonitrile	500 ug/mL
							Benzyl chloride	50 ug/mL
							Ethanol	2500 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							n-Butyl acetate	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					VOARCYCHONE_00001	125 uL	Cyclohexanone	2500 ug/mL
					VOARKETON_00001	10 uL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VOARMegMix_00002	25 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOARNR2_00001	25 uL	Pentachloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VOARSS_00002	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					VOARVA_00001	25 uL	Vinyl acetate	100 ug/mL
.VOAR2CEVE_00001	12/31/15		Restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
.VOARAcrolein_00007	05/31/14		Restek, Lot A0100485		(Purchased Reagent)		Acrolein	5000 ug/mL
.VOARADDCOM_00002	08/31/14		Restek, Lot A093634		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Acetonitrile	20000 ug/mL
							Benzyl chloride	2000 ug/mL
							Ethanol	100000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Isopropyl alcohol	20000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
							n-Butyl acetate	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
							Tert-butyl ethyl ether	2000 ug/mL
.VOARCYCHONE_00001	12/31/15		Restek, Lot A092211		(Purchased Reagent)		Cyclohexanone	20000 ug/mL
.VOARKETON_00001	12/31/15		RESTEK, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
.VOARMegMix_00002	02/29/16		Restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
.VOARNR2_00001	02/28/15		Restek, Lot A093359		(Purchased Reagent)		Pentachloroethane	2000 ug/mL
.VOARSS_00002	02/28/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.VOARVA_00001	06/30/14		Restek, Lot A092212		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VOASTDPT_00037	07/02/14	06/18/14	Methanol, Lot V041414A	1 mL	VOARMegMix_00002	25 uL	Benzene	50 ug/mL
							Ethylbenzene	50 ug/mL
							Toluene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VOARSS_00003	20 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VOARMegMix_00002	02/29/16		Restek, Lot A093581		(Purchased Reagent)		Benzene	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Toluene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
.VOARSS_00003	01/31/19		Restek, Lot A0101000		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

Default Detection Limits

Client: CH2M Hill, Inc.
Project/Site: Blanco Gas Plant-North Flare Pit

TestAmerica Job ID: 600-94269-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
Benzene	1.00	0.0800	ug/L	8260B
Ethylbenzene	1.00	0.110	ug/L	8260B
Toluene	1.00	0.150	ug/L	8260B
Xylenes, Total	1.00	0.260	ug/L	8260B

8260B_LL

Volatile Organic Compounds (GC/MS) by Method 8260B Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-VRX 60 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
BlancoNFP-MW32-061 92014	600-94269-1	80	92	81	79
BlancoNFP-MW23-061 92014	600-94269-4	81	88	80	81
BlancoNFP-MW23-061 92014 DL	600-94269-4 DL	85	92	79	80
BlancoNFP-MD01-061 92014	600-94269-5	80	90	83	84
BlancoNFP-MD01-061 92014 DL	600-94269-5 DL	83	91	83	85
BlancoNFP-MW33-061 92014	600-94269-6	88	101	83	81
BlancoNFP-TB01-061 92014	600-94269-7	91	97	82	79
	MB 600-137797/5	86	95	79	82
	LCS 600-137797/3	96	100	84	85
BlancoNFP-MW32-061 92014 MS MS	600-94269-1 MS	89	95	76	81
BlancoNFP-MW32-061 92014 MSD MSD	600-94269-1 MSD	93	97	80	86

	QC LIMITS
DBFM = Dibromofluoromethane	62-130
DCA = 1,2-Dichloroethane-d4 (Surr)	50-134
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene	67-139

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A17703.D

Lab ID: LCS 600-137797/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	10.0	12.97	130	70-130	
Ethylbenzene	10.0	10.34	103	70-130	
Toluene	10.0	10.63	106	70-130	
Xylenes, Total	20.0	20.81	104	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A17712.D

Lab ID: 600-94269-1 MS Client ID: BlancoNFP-MW32-06192014 MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	2500	6650	10220	143	70-130	F1
Ethylbenzene	2500	324	2846	101	70-130	
Toluene	2500	2240	4775	101	70-130	
Xylenes, Total	5000	5410	10760	107	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A17713.D

Lab ID: 600-94269-1 MSD Client ID: BlancoNFP-MW32-06192014 MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	2500	10160	140	1	30	70-130	F1
Ethylbenzene	2500	2974	106	4	30	70-130	
Toluene	2500	4888	106	2	30	70-130	
Xylenes, Total	5000	10630	104	1	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Lab File ID: A17705.D Lab Sample ID: MB 600-137797/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHVOAMS07 Date Analyzed: 06/26/2014 11:27

GC Column: DB-VRX 60 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 600-137797/3	A17703.D	06/26/2014 10:29
BlancoNFP-TB01-06192014	600-94269-7	A17706.D	06/26/2014 11:55
BlancoNFP-MW33-06192014	600-94269-6	A17707.D	06/26/2014 12:24
BlancoNFP-MW32-06192014	600-94269-1	A17708.D	06/26/2014 13:00
BlancoNFP-MW23-06192014	600-94269-4	A17709.D	06/26/2014 13:28
BlancoNFP-MD01-06192014	600-94269-5	A17710.D	06/26/2014 13:57
BlancoNFP-MW23-06192014 DL	600-94269-4 DL	A17711.D	06/26/2014 14:26
BlancoNFP-MW32-06192014 MS MS	600-94269-1 MS	A17712.D	06/26/2014 14:54
BlancoNFP-MW32-06192014 MSD MSD	600-94269-1 MSD	A17713.D	06/26/2014 15:23
BlancoNFP-MD01-06192014 DL	600-94269-5 DL	A17714.D	06/26/2014 15:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Lab File ID: A14701.D BFB Injection Date: 05/27/2014

Instrument ID: CHVOAMS07 BFB Injection Time: 10:06

Analysis Batch No.: 135303

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.7	
75	30.0 - 60.0 % of mass 95	53.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	68.5	
175	5.0 - 9.0 % of mass 174	5.1	(7.5)1
176	95.0 - 101.0 % of mass 174	65.9	(96.1)1
177	5.0 - 9.0 % of mass 176	4.4	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 600-135303/3	A14703.D	05/27/2014	11:27
	IC 600-135303/4	A14704.D	05/27/2014	11:56
	IC 600-135303/5	A14705.D	05/27/2014	12:24
	IC 600-135303/6	A14706.D	05/27/2014	12:52
	ICIS 600-135303/7	A14707.D	05/27/2014	13:21
	IC 600-135303/8	A14708.D	05/27/2014	13:49
	IC 600-135303/9	A14709.D	05/27/2014	14:18

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Lab File ID: A17701.D BFB Injection Date: 06/26/2014

Instrument ID: CHVOAMS07 BFB Injection Time: 09:18

Analysis Batch No.: 137797

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	25.7	
75	30.0 - 60.0 % of mass 95	59.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	65.7	
175	5.0 - 9.0 % of mass 174	5.2	(7.8)1
176	95.0 - 101.0 % of mass 174	66.4	(101.0)1
177	5.0 - 9.0 % of mass 176	4.7	(7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 600-137797/2	A17702.D	06/26/2014	10:01
	LCS 600-137797/3	A17703.D	06/26/2014	10:29
	MB 600-137797/5	A17705.D	06/26/2014	11:27
BlancoNFP-TB01-06192014	600-94269-7	A17706.D	06/26/2014	11:55
BlancoNFP-MW33-06192014	600-94269-6	A17707.D	06/26/2014	12:24
BlancoNFP-MW32-06192014	600-94269-1	A17708.D	06/26/2014	13:00
BlancoNFP-MW23-06192014	600-94269-4	A17709.D	06/26/2014	13:28
BlancoNFP-MD01-06192014	600-94269-5	A17710.D	06/26/2014	13:57
BlancoNFP-MW23-06192014 DL	600-94269-4 DL	A17711.D	06/26/2014	14:26
BlancoNFP-MW32-06192014 MS MS	600-94269-1 MS	A17712.D	06/26/2014	14:54
BlancoNFP-MW32-06192014 MSD MSD	600-94269-1 MSD	A17713.D	06/26/2014	15:23
BlancoNFP-MD01-06192014 DL	600-94269-5 DL	A17714.D	06/26/2014	15:51

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Sample No.: CCVIS 600-137797/2 Date Analyzed: 06/26/2014 10:01

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): A17702.D Heated Purge: (Y/N) N

Calibration ID: 3476

		FB		DXE		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		210256	8.70	3379	9.11	78813	11.73
UPPER LIMIT		420512	9.20	6758	9.61	157626	12.23
LOWER LIMIT		105128	8.20	1690	8.61	39407	11.23
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-137797/3		249377	8.70	2423	9.11	92262	11.73
MB 600-137797/5		214281	8.70	2179	9.12	76376	11.73
600-94269-7	BlancoNFP-TB01-061920 14	195548	8.70	1886	9.11	70926	11.73
600-94269-6	BlancoNFP-MW33-061920 14	211443	8.70			73545	11.73
600-94269-1	BlancoNFP-MW32-061920 14	217306	8.70	2041	9.12	74205	11.73
600-94269-4	BlancoNFP-MW23-061920 14	211658	8.70	1828	9.12	74797	11.73
600-94269-5	BlancoNFP-MD01-061920 14	231245	8.70	1633*	9.12	79762	11.73
600-94269-4 DL	BlancoNFP-MW23-061920 14 DL	199923	8.70	859*	9.11	73688	11.73
600-94269-1 MS	BlancoNFP-MW32-061920 14 MS MS	216410	8.70	3321	9.11	85123	11.73
600-94269-1 MSD	BlancoNFP-MW32-061920 14 MSD MSD	263333	8.70	3689	9.11	97973	11.73
600-94269-5 DL	BlancoNFP-MD01-061920 14 DL	250982	8.70	2077	9.11	85202	11.73

FB = Fluorobenzene
DXE = 1,4-Dioxane-d8
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Sample No.: CCVIS 600-137797/2 Date Analyzed: 06/26/2014 10:01

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm)

Lab File ID (Standard): A17702.D Heated Purge: (Y/N) N

Calibration ID: 3476

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		61110	14.31				
UPPER LIMIT		122220	14.81				
LOWER LIMIT		30555	13.81				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 600-137797/3		67886	14.31				
MB 600-137797/5		50220	14.31				
600-94269-7	BlancoNFP-TB01-06192014	49953	14.31				
600-94269-6	BlancoNFP-MW33-06192014	50819	14.31				
600-94269-1	BlancoNFP-MW32-06192014	53996	14.31				
600-94269-4	BlancoNFP-MW23-06192014	56337	14.31				
600-94269-5	BlancoNFP-MD01-06192014	56128	14.31				
600-94269-4 DL	BlancoNFP-MW23-06192014 DL	52188	14.31				
600-94269-1 MS	BlancoNFP-MW32-06192014 MS MS	67219	14.31				
600-94269-1 MSD	BlancoNFP-MW32-06192014 MSD MSD	70142	14.31				
600-94269-5 DL	BlancoNFP-MD01-06192014 DL	59403	14.31				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-MW32-06192014 Lab Sample ID: 600-94269-1

Matrix: Water Lab File ID: A17708.D

Analysis Method: 8260B Date Collected: 06/19/2014 07:14

Sample wt/vol: 20(mL) Date Analyzed: 06/26/2014 13:00

Soil Aliquot Vol: Dilution Factor: 250

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137797 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	6650		250	20.0
100-41-4	Ethylbenzene	324		250	27.5
108-88-3	Toluene	2240		250	37.5
1330-20-7	Xylenes, Total	5410		250	65.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		50-134
1868-53-7	Dibromofluoromethane	80		62-130
2037-26-5	Toluene-d8 (Surr)	81		70-130
460-00-4	4-Bromofluorobenzene	79		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-MW23-06192014 Lab Sample ID: 600-94269-4

Matrix: Water Lab File ID: A17709.D

Analysis Method: 8260B Date Collected: 06/19/2014 08:00

Sample wt/vol: 20(mL) Date Analyzed: 06/26/2014 13:28

Soil Aliquot Vol: Dilution Factor: 50

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137797 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	149		50.0	5.50
108-88-3	Toluene	7.50	U	50.0	7.50
1330-20-7	Xylenes, Total	1480		50.0	13.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		50-134
1868-53-7	Dibromofluoromethane	81		62-130
2037-26-5	Toluene-d8 (Surr)	80		70-130
460-00-4	4-Bromofluorobenzene	81		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-MW23-06192014 Lab Sample ID: 600-94269-4 DL

Matrix: Water Lab File ID: A17711.D

Analysis Method: 8260B Date Collected: 06/19/2014 08:00

Sample wt/vol: 20(mL) Date Analyzed: 06/26/2014 14:26

Soil Aliquot Vol: Dilution Factor: 500

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137797 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	8130		500	40.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		50-134
1868-53-7	Dibromofluoromethane	85		62-130
2037-26-5	Toluene-d8 (Surr)	79		70-130
460-00-4	4-Bromofluorobenzene	80		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston | Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-MD01-06192014 | Lab Sample ID: 600-94269-5

Matrix: Water | Lab File ID: A17710.D

Analysis Method: 8260B | Date Collected: 06/19/2014 12:00

Sample wt/vol: 20(mL) | Date Analyzed: 06/26/2014 13:57

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137797 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	140		50.0	5.50
108-88-3	Toluene	7.50	U	50.0	7.50
1330-20-7	Xylenes, Total	1410		50.0	13.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		50-134
1868-53-7	Dibromofluoromethane	80		62-130
2037-26-5	Toluene-d8 (Surr)	83		70-130
460-00-4	4-Bromofluorobenzene	84		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston | Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-MD01-06192014 | Lab Sample ID: 600-94269-5 DL

Matrix: Water | Lab File ID: A17714.D

Analysis Method: 8260B | Date Collected: 06/19/2014 12:00

Sample wt/vol: 20(mL) | Date Analyzed: 06/26/2014 15:51

Soil Aliquot Vol: | Dilution Factor: 500

Soil Extract Vol.: | GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137797 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	8580		500	40.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		50-134
1868-53-7	Dibromofluoromethane	83		62-130
2037-26-5	Toluene-d8 (Surr)	83		70-130
460-00-4	4-Bromofluorobenzene	85		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-MW33-06192014 Lab Sample ID: 600-94269-6

Matrix: Water Lab File ID: A17707.D

Analysis Method: 8260B Date Collected: 06/19/2014 08:40

Sample wt/vol: 20(mL) Date Analyzed: 06/26/2014 12:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137797 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.0800	U	1.00	0.0800
100-41-4	Ethylbenzene	0.110	U	1.00	0.110
108-88-3	Toluene	0.150	U	1.00	0.150
1330-20-7	Xylenes, Total	0.260	U	1.00	0.260

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		50-134
1868-53-7	Dibromofluoromethane	88		62-130
2037-26-5	Toluene-d8 (Surr)	83		70-130
460-00-4	4-Bromofluorobenzene	81		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-TB01-06192014 Lab Sample ID: 600-94269-7

Matrix: Water Lab File ID: A17706.D

Analysis Method: 8260B Date Collected: 06/19/2014 07:00

Sample wt/vol: 20(mL) Date Analyzed: 06/26/2014 11:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137797 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.0800	U	1.00	0.0800
100-41-4	Ethylbenzene	0.110	U	1.00	0.110
108-88-3	Toluene	0.150	U	1.00	0.150
1330-20-7	Xylenes, Total	0.260	U	1.00	0.260

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		50-134
1868-53-7	Dibromofluoromethane	91		62-130
2037-26-5	Toluene-d8 (Surr)	82		70-130
460-00-4	4-Bromofluorobenzene	79		67-139

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-135303/3	A14703.D
Level 2	IC 600-135303/4	A14704.D
Level 3	IC 600-135303/5	A14705.D
Level 4	IC 600-135303/6	A14706.D
Level 5	ICIS 600-135303/7	A14707.D
Level 6	IC 600-135303/8	A14708.D
Level 7	IC 600-135303/9	A14709.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.2829	0.3127 0.2830	0.3352	0.3157	0.2991	Ave		0.3048				6.7		15.0			
Chloromethane	+++++ 0.2554	0.2775 0.2424	0.2955	0.2897	0.2647	Ave		0.2709			0.1000	7.6		15.0			
Vinyl chloride	+++++ 0.2238	0.2792 0.1937	0.2886	0.2665	0.2438	Ave		0.2493				14.0		15.0			
Butadiene	+++++ 0.2630	0.3190 0.2330	0.3275	0.3030	0.2734	Ave		0.2865				13.0		15.0			
Bromomethane	+++++ 0.1623	0.1666 0.1756	0.1617	0.1673	0.1581	Ave		0.1653				3.7		15.0			
Ethanol	+++++ 0.0013	0.0005 0.0013	0.0011	0.0011	0.0012	Lin2	-0.035	0.0013							0.9940		0.9900
Chloroethane	+++++ 0.1678	0.1665 0.1724	0.1734	0.1700	0.1694	Ave		0.1699				1.5		15.0			
Dichlorofluoromethane	+++++ 0.4302	0.4156 0.4458	0.4365	0.4402	0.4274	Ave		0.4326				2.5		15.0			
Acetonitrile	+++++ 0.0160	0.0123 0.0163	0.0148	0.0152	0.0169	Ave		0.0152				11.0		15.0			
Acrolein	+++++ 0.0007	0.0006 0.0006	0.0008	0.0007	0.0006	Ave		0.0007				12.0		15.0			
Trichlorofluoromethane	+++++ 0.4477	0.4284 0.4763	0.4566	0.4587	0.4363	Ave		0.4507				3.8		15.0			
Isopropyl alcohol	+++++ 0.0069	0.0039 0.0078	0.0040	0.0046	0.0059	Lin1	-0.064	0.0075							0.9900		0.9900
Acetone	+++++ 0.0475	0.0437 0.0476	0.0459	0.0474	0.0488	Ave		0.0468				3.8		15.0			
Ethyl ether	+++++ 0.2334	0.2323 0.2508	0.2371	0.2389	0.2314	Ave		0.2373				3.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
t-Butanol	+++++ 0.0148	0.0105 0.0163	0.0121	0.0132	0.0140	Ave		0.0135				15.0		15.0			
1,1-Dichloroethene	+++++ 0.2828	0.2551 0.3078	0.2711	0.2805	0.2864	Ave		0.2806				6.2		15.0			
Acrylonitrile	+++++ 0.0450	0.0335 0.0484	0.0424	0.0442	0.0448	Ave		0.0431				12.0		15.0			
Iodomethane	+++++ 0.5030	0.4158 0.5547	0.4889	0.5013	0.5005	Ave		0.4940				9.1		15.0			
Methylene Chloride	+++++ 0.3744	0.9323 0.3683	0.7438	0.5074	0.4089	Lin1	0.6517	0.3527							0.9980		0.9900
Methyl acetate	+++++ 0.1699	0.1353 0.1839	0.1559	0.1652	0.1682	Ave		0.1631				10.0		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1229	0.1212 0.1379	0.1285	0.1193	0.1251	Ave		0.1258				5.3		15.0			
3-Chloro-1-propene	+++++ 0.1782	0.1377 0.1911	0.1686	0.1693	0.1724	Ave		0.1696				10.0		15.0			
Carbon disulfide	+++++ 0.7812	0.7193 0.8139	0.7818	0.7839	0.7919	Ave		0.7787				4.1		15.0			
trans-1,2-Dichloroethene	+++++ 0.3480	0.3036 0.3777	0.3334	0.3489	0.3469	Ave		0.3431				7.0		15.0			
Methyl tert-butyl ether	+++++ 0.6777	0.5736 0.6976	0.6561	0.6744	0.6803	Ave		0.6599				6.7		15.0			
Propionitrile	+++++ 0.0178	0.0121 0.0185	0.0163	0.0183	0.0183	Ave		0.0169				15.0		15.0			
1,1-Dichloroethane	+++++ 0.6776	0.5840 0.7160	0.6755	0.6861	0.6812	Ave		0.6701			0.1000	6.7		15.0			
Vinyl acetate	+++++ 0.3340	0.2161 0.3777	0.2617	0.2988	0.3203	Lin2	-0.280	0.3450							0.9950		0.9900
2-Chloro-1,3-butadiene	+++++ 0.6174	0.5278 0.6699	0.5697	0.5848	0.6089	Ave		0.5964				8.1		15.0			
Hexane	+++++ 0.3809	0.3411 0.4179	0.3744	0.3674	0.3770	Ave		0.3765				6.6		15.0			
Isopropyl ether	+++++ 1.3182	1.2321 1.3430	1.3246	1.3695	1.3000	Ave		1.3145				3.6		15.0			
2-Butanone (MEK)	+++++ 0.0209	0.0163 0.0220	0.0191	0.0187	0.0214	Ave		0.0197				11.0		15.0			
Methacrylonitrile	+++++ 0.0221	0.0156 0.0234	0.0191	0.0213	0.0216	Ave		0.0205				14.0		15.0			
cis-1,2-Dichloroethene	+++++ 0.3661	0.3236 0.3963	0.3669	0.3669	0.3716	Ave		0.3652				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0674	0.0370 0.0757	0.0502	0.0578	0.0607	Lin2	-0.067	0.0686							0.9930		0.9900
Chlorobromomethane	+++++ 0.1285	0.1099 0.1430	0.1245	0.1292	0.1310	Ave		0.1277				8.4		15.0			
Chloroform	+++++ 0.6379	0.5407 0.6831	0.6140	0.6315	0.6306	Ave		0.6230				7.5		15.0			
Tert-butyl ethyl ether	+++++ 1.0151	0.8088 1.0557	0.9317	0.9695	0.9917	Ave		0.9621				8.9		15.0			
Isobutyl alcohol	+++++ 0.0101	0.0064 0.0113	0.0069	0.0073	0.0093	Lin1	-0.189	0.0109							0.9930		0.9900
2,2-Dichloropropane	+++++ 0.3367	0.3049 0.3245	0.3340	0.3462	0.3496	Ave		0.3327				4.9		15.0			
Tetrahydrofuran	+++++ 0.0506	0.0380 0.0508	0.0483	0.0461	0.0481	Ave		0.0470				10.0		15.0			
1,2-Dichloroethane	+++++ 0.3312	0.2811 0.3443	0.3263	0.3364	0.3289	Ave		0.3247				6.9		15.0			
n-Butanol	+++++ 0.0015	+++++ 0.0023	+++++	0.0008	0.0008	Ave		0.0014				53.0	*	15.0			
1,1,1-Trichloroethane	+++++ 0.4671	0.3707 0.4977	0.4310	0.4332	0.4508	Ave		0.4418				9.7		15.0			
1,1-Dichloropropene	+++++ 0.4594	0.3692 0.4963	0.4337	0.4483	0.4549	Ave		0.4436				9.5		15.0			
Cyclohexane	+++++ 0.3780	0.3513 0.4006	0.3864	0.3892	0.3936	Ave		0.3832				4.5		15.0			
Carbon tetrachloride	+++++ 0.3407	0.2226 0.4113	0.2448	0.2742	0.3043	Qua	-0.127	0.2986	0.0023						1.0000		0.9900
Benzene	+++++ 1.2996	1.1337 1.3809	1.2837	1.3012	1.3048	Ave		1.2840				6.3		15.0			
2-Nitropropane	+++++ 0.1421	0.1202 0.1428	0.1350	0.1387	0.1382	Ave		0.1362				6.1		15.0			
Tert-amyl methyl ether	+++++ 0.6999	0.5469 0.7048	0.6512	0.6766	0.6872	Ave		0.6611				8.9		15.0			
Ethyl acrylate	+++++ 0.2310	0.1468 0.2575	0.1875	0.2097	0.2250	Lin2	-0.098	0.2400							0.9970		0.9900
n-Heptane	+++++ 0.4248	0.3587 0.4634	0.4213	0.4143	0.4265	Ave		0.4182				8.1		15.0			
Dibromomethane	+++++ 0.1122	0.0905 0.1207	0.1054	0.1136	0.1133	Ave		0.1093				9.5		15.0			
1,2-Dichloropropane	+++++ 0.2989	0.2440 0.3186	0.2843	0.2939	0.2994	Ave		0.2898				8.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	+++++ 0.3465	0.2796 0.3910	0.3376	0.3275	0.3372	Ave		0.3366				11.0		15.0			
Bromodichloromethane	+++++ 0.3202	0.2328 0.3690	0.2617	0.2899	0.3123	Lin2	-0.112	0.3324							0.9930		0.9900
Methyl methacrylate	+++++ 0.1551	0.0941 0.1676	0.1191	0.1408	0.1526	Lin2	-0.140	0.1600							0.9980		0.9900
1,4-Dioxane	+++++ 1.2060	0.5579 1.3227	1.1216	1.6942	1.5338	Lin	5.7264	1.3085							0.9950		0.9900
2-Chloroethyl vinyl ether	+++++ 0.3260	0.2267 0.3607	0.2794	0.3077	0.3094	Ave		0.3016				15.0		15.0			
Methylcyclohexane	+++++ 0.4723	0.4320 0.4929	0.4879	0.4768	0.4868	Ave		0.4748				4.7		15.0			
cis-1,3-Dichloropropene	+++++ 1.2641	0.8704 1.3933	1.0059	1.1065	1.1962	Lin2	-0.452	1.2802							0.9950		0.9900
4-Methyl-2-pentanone (MIBK)	+++++ 0.1504	0.1016 0.1507	0.1371	0.1477	0.1509	Ave		0.1397				14.0		15.0			
trans-1,3-Dichloropropene	+++++ 0.9153	0.5960 1.0252	0.7160	0.7767	0.8653	Lin2	-0.366	0.9297							0.9930		0.9900
1,1,2-Trichloroethane	0.4409 0.4854	0.4254 0.5107	0.4869	0.4816	0.4882	Ave		0.4742				6.3		15.0			
trans 2,3-dichlorobutane	+++++ 1.2511	1.1855 1.2966	1.2577	1.2363	1.2456	Ave		1.2455				2.9		15.0			
Ethyl methacrylate	+++++ 0.7207	0.4432 0.7885	0.5311	0.5987	0.6880	Lin2	-0.314	0.7262							0.9930		0.9900
Toluene	+++++ 2.4882	1.9733 2.6987	2.3229	2.3739	2.4484	Ave		2.3842				10.0		15.0			
1,3-Dichloropropane	+++++ 0.9142	0.8118 0.9620	0.9443	0.9218	0.9367	Ave		0.9151				5.8		15.0			
2-Hexanone	+++++ 0.3155	0.1634 0.3388	0.2527	0.2987	0.3125	Lin2	-0.336	0.3326							0.9990		0.9900
cis 2,3-dichlorobutane	+++++ 0.9084	0.8930 0.9377	0.9236	0.8833	0.9152	Ave		0.9102				2.2		15.0			
Dibromochloromethane	+++++ 0.4607	0.2658 0.5577	0.2880	0.3483	0.3972	Qua	-0.259	0.4045	0.0032						1.0000		0.9900
n-Butyl acetate	+++++ 0.3645	0.2512 0.3982	0.2538	0.2917	0.3356	Lin1	-0.232	0.3883							0.9960		0.9900
1,2-Dibromoethane	+++++ 0.4207	0.3417 0.4469	0.4184	0.4090	0.4233	Ave		0.4100				8.7		15.0			
Tetrachloroethene	+++++ 0.7525	0.5871 0.7883	0.6787	0.6588	0.6992	Ave		0.6941				10.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Chlorohexane	+++++ 0.8973	0.7384 0.9612	0.8383	0.8929	0.9247	Ave		0.8755				9.0		15.0			
1,1,1,2-Tetrachloroethane	+++++ 0.5834	0.3629 0.6885	0.4408	0.4701	0.5528	Lin1	-0.456	0.6585							0.9920		0.9900
Chlorobenzene	+++++ 2.0998	1.8662 2.3037	2.0609	2.0884	2.1189	Ave		2.0897			0.3000	6.7		15.0			
Ethylbenzene	+++++ 1.2316	1.0070 1.3508	1.1970	1.1944	1.2345	Ave		1.2026				9.3		15.0			
m-Xylene & p-Xylene	+++++ 2.8208	2.3113 3.0943	2.6697	2.7788	2.8526	Ave		2.7546				9.4		15.0			
Bromoform	+++++ 0.2282	0.1120 0.2880	0.1778	0.1654	0.1899	Qua	-0.102	0.1892	0.0020		0.1000				1.0000		0.9900
Styrene	+++++ 1.9753	1.2943 2.2580	1.6350	1.8156	1.9082	Lin2	-0.810	2.0668							0.9960		0.9900
Cyclohexanone	+++++ 0.0127	0.0084 0.0144	0.0107	0.0120	0.0123	Lin2	-0.255	0.0133							0.9970		0.9900
1,1,2,2-Tetrachloroethane	+++++ 0.6979	0.6375 0.6937	0.6942	0.7224	0.7186	Ave		0.6941			0.3000	4.4		15.0			
o-Xylene	+++++ 1.3588	1.1563 1.5257	1.2709	1.3062	1.3645	Ave		1.3304				9.2		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1587	0.1221 0.1675	0.1247	0.1445	0.1509	Ave		0.1447				13.0		15.0			
1,2,3-Trichloropropane	+++++ 0.1824	0.1908 0.1739	0.1962	0.1961	0.1827	Ave		0.1870				4.7		15.0			
Isopropylbenzene	+++++ 4.8352	4.2196 4.7114	4.9836	4.8709	4.9807	Ave		4.7669				6.0		15.0			
Bromobenzene	+++++ 0.9125	0.7807 0.9365	0.9030	0.9137	0.9305	Ave		0.8961				6.5		15.0			
N-Propylbenzene	+++++ 1.3066	1.0955 1.3346	1.2804	1.2786	1.3274	Ave		1.2705				7.0		15.0			
2-Chlorotoluene	+++++ 1.0733	0.9457 1.1056	1.0779	1.0735	1.1001	Ave		1.0627				5.5		15.0			
4-Chlorotoluene	+++++ 3.2924	2.8644 3.3083	3.2098	3.2338	3.3140	Ave		3.2038				5.4		15.0			
1,3,5-Trimethylbenzene	+++++ 3.7770	3.0537 3.9465	3.6331	3.6860	3.7706	Ave		3.6445				8.5		15.0			
Pentachloroethane	+++++ 0.3396	0.1751 0.4892	0.2108	0.2399	0.2961	Qua	-0.095	0.2490	0.0048						1.0000		0.9900
tert-Butylbenzene	+++++ 3.2159	2.7544 3.3981	3.1439	3.1744	3.2928	Ave		3.1632				7.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	+++++ 3.7698	3.1395 3.9806	3.6261	3.6365	3.7685	Ave		3.6535				7.7		15.0			
sec-Butylbenzene	+++++ 4.6804	3.9678 4.9633	4.6044	4.4886	4.7303	Ave		4.5725				7.3		15.0			
Benzyl chloride	+++++ 0.6020	0.3321 0.7815	0.3613	0.3971	0.4948	Qua	-0.362	0.4909	0.0060						1.0000		0.9900
1,3-Dichlorobenzene	+++++ 1.9697	1.6826 2.1204	1.8617	1.8930	1.9219	Ave		1.9082				7.5		15.0			
1,4-Dichlorobenzene	+++++ 2.1301	1.6904 2.4058	1.9252	1.8697	2.0563	Ave		2.0129				12.0		15.0			
4-Isopropyltoluene	+++++ 4.4226	3.4199 4.9510	3.9317	3.9679	4.2727	Ave		4.1610				12.0		15.0			
1,2,3-Trimethylbenzene	+++++ 3.7638	2.9823 3.9211	3.5762	3.5882	3.7255	Ave		3.5928				9.0		15.0			
1,2-Dichlorobenzene	+++++ 1.6360	1.4222 1.7274	1.5589	1.5966	1.6744	Ave		1.6026				6.6		15.0			
n-Butylbenzene	+++++ 3.8634	3.0800 3.9616	3.6528	3.6610	3.8674	Ave		3.6810				8.7		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0695	0.0727 0.0729	0.0578	0.0615	0.0667	Ave		0.0668				9.2		15.0			
1,3,5-Trichlorobenzene	+++++ 1.1755	0.9689 1.2308	1.1126	1.0818	1.1605	Ave		1.1217				8.1		15.0			
1,2,4-Trichlorobenzene	+++++ 0.8523	0.6014 0.8703	0.7707	0.7609	0.8282	Ave		0.7806				13.0		15.0			
Naphthalene	+++++ 1.4288	0.9591 1.4226	1.2338	1.2615	1.4154	Ave		1.2869				14.0		15.0			
Hexachlorobutadiene	+++++ 0.2386	0.2384 0.2414	0.2291	0.2301	0.2451	Ave		0.2371				2.7		15.0			
1,2,3-Trichlorobenzene	+++++ 0.5832	0.4404 0.5767	0.5212	0.5452	0.5852	Ave		0.5420				10.0		15.0			
Dibromofluoromethane	0.4718 0.3139	0.3110 0.3426	0.3255	0.3235	0.3171	Lin1	0.0243	0.3302							0.9970		0.9900
1,2-Dichloroethane-d4 (Surr)	0.4367 0.2780	0.2939 0.2937	0.3098	0.2905	0.2852	Lin1	0.0472	0.2865							0.9990		0.9900
Toluene-d8 (Surr)	5.9605 3.5737	4.0387 3.9108	3.8234	3.5468	3.6334	Lin1	0.5823	3.7477							0.9970		0.9900
4-Bromofluorobenzene	2.5603 1.3130	1.5992 1.2795	1.4887	1.4171	1.3596	Lin1	0.5370	1.2770							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 600-135303/3	A14703.D
Level 2	IC 600-135303/4	A14704.D
Level 3	IC 600-135303/5	A14705.D
Level 4	IC 600-135303/6	A14706.D
Level 5	ICIS 600-135303/7	A14707.D
Level 6	IC 600-135303/8	A14708.D
Level 7	IC 600-135303/9	A14709.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 155585	7434 404032	16474	39308	78650	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Chloromethane	FB	Ave	+++++ 140465	6598 346147	14526	36073	69588	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	+++++ 123094	6637 276552	14186	33174	64098	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Butadiene	FB	Ave	+++++ 144636	7584 332632	16098	37721	71870	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Bromomethane	FB	Ave	+++++ 89280	3962 250681	7946	20832	41561	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Ethanol	FB	Lin2	+++++ 34767	650 93329	2704	6978	15311	+++++ 1000	50.0 2500	100	250	500
Chloroethane	FB	Ave	+++++ 92313	3958 246109	8523	21162	44546	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Dichlorofluoromethane	FB	Ave	+++++ 236621	9881 636529	21455	54803	112365	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	+++++ 88023	2917 232313	7265	18948	44383	+++++ 200	10.0 500	20.0	50.0	100
Acrolein	FB	Ave	+++++ 1807	68 4276	187	457	784	+++++ 100	5.00 250	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	+++++ 246240	10184 680127	22443	57108	114722	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl alcohol	FB	Lin1	+++++ 37949	924 111038	1955	5703	15559	+++++ 200	10.0 500	20.0	50.0	100
Acetone	FB	Ave	+++++ 52215	2079 136058	4517	11807	25678	+++++ 40.0	2.00 100	4.00	10.0	20.0
Ethyl ether	FB	Ave	+++++ 128399	5522 358159	11654	29737	60837	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
t-Butanol	FB	Ave	+++++ 81149	2504 233237	5933	16494	36683	+++++ 200	10.0 500	20.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	+++++ 155560	6066 439545	13324	34926	75287	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	+++++ 247383	7971 690986	20862	55054	117771	+++++ 200	10.0 500	20.0	50.0	100
Iodomethane	FB	Ave	+++++ 276681	9886 791997	24031	62410	131578	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin1	+++++ 205899	22164 525917	36557	63173	107503	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	+++++ 467233	16089 1312883	38318	102822	221072	+++++ 100	5.00 250	10.0	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	+++++ 67606	2881 196853	6316	14849	32888	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
3-Chloro-1-propene	FB	Ave	+++++ 97993	3274 272814	8288	21083	45336	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 429687	17101 1162112	38425	97595	208200	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 191408	7218 539261	16387	43434	91212	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	+++++ 372739	13636 996122	32247	83962	178861	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Propionitrile	FB	Ave	+++++ 98053	2886 264181	7995	22744	48087	+++++ 200	10.0 500	20.0	50.0	100
1,1-Dichloroethane	FB	Ave	+++++ 372687	13885 1022316	33203	85415	179100	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Vinyl acetate	FB	Lin2	+++++ 367415	10275 1078693	25723	74407	168415	+++++ 40.0	2.00 100	4.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 339588	12547 956525	28003	72812	160078	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Hexane	FB	Ave	+++++ 209482	8110 596750	18400	45746	99118	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	+++++ 725015	29293 1917562	65106	170498	341781	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 23024	775 62872	1875	4664	11249	+++++ 40.0	2.00 100	4.00	10.0	20.0
Methacrylonitrile	FB	Ave	+++++ 121590	3712 333996	9395	26548	56674	+++++ 200	10.0 500	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Ave	+++++ 201361	7693 565893	18036	45684	97691	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acetate	FB	Lin2	+++++ 74176	1759 216216	4933	14384	31930	+++++ 40.0	2.00 100	4.00	10.0	20.0
Chlorobromomethane	FB	Ave	+++++ 70693	2613 204199	6120	16083	34455	+++++ 20.0	1.00 50.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chloroform	FB	Ave	+++++ 350844	12854 975396	30179	78620	165791	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Tert-butyl ethyl ether	FB	Ave	+++++ 558316	19229 1507434	45797	120707	260726	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Lin1	+++++ 138241	3827 401689	8468	22782	61314	+++++ 500	25.0 1250	50.0	125	250
2,2-Dichloropropane	FB	Ave	+++++ 185205	7250 463295	16416	43105	91923	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 55705	1809 145015	4752	11476	25275	+++++ 40.0	2.00 100	4.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	+++++ 182165	6682 491554	16037	41881	86464	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
n-Butanol	FB	Ave	+++++ 20416	+++++ 83018	+++++	2456	5490	+++++ 500	+++++ 1250	+++++	125	250
1,1,1-Trichloroethane	FB	Ave	+++++ 256918	8814 710697	21186	53938	118521	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	+++++ 252692	8778 708604	21317	55817	119605	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	+++++ 207883	8351 572044	18993	48459	103486	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Qua	+++++ 187375	5293 587285	12034	34141	79999	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Benzene	FB	Ave	+++++ 714811	26952 1971655	63096	161994	343043	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
2-Nitropropane	FB	Ave	+++++ 156279	5715 407832	13270	34545	72651	+++++ 40.0	2.00 100	4.00	10.0	20.0
Tert-amyl methyl ether	FB	Ave	+++++ 384976	13003 1006342	32008	84231	180686	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Ethyl acrylate	FB	Lin2	+++++ 127048	3490 367725	9214	26110	59168	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
n-Heptane	FB	Ave	+++++ 233637	8529 661622	20706	51580	112145	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	+++++ 61713	2152 172395	5183	14145	29788	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	+++++ 164393	5800 454849	13974	36591	78717	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Trichloroethene	FB	Ave	+++++ 190560	6647 558283	16596	40773	88646	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Bromodichloromethane	FB	Lin2	+++++ 176111	5535 526917	12862	36095	82103	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Methyl methacrylate	FB	Lin2	+++++ 170652	4473 478514	11706	35048	80234	+++++ 40.0	2.00 100	4.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DXE	Lin	+++++ 9382	146 25449	662	2397	4156	+++++ 400	20.0 1000	40.0	100	200
2-Chloroethyl vinyl ether	CBZ	Ave	+++++ 104419	3163 292705	8061	23180	47562	+++++ 40.0	2.00 100	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	+++++ 259743	10271 703804	23982	59364	127988	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBZ	Lin2	+++++ 202479	6071 565245	14511	41681	91957	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	+++++ 165447	4829 430239	13479	36783	79360	+++++ 40.0	2.00 100	4.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Lin2	+++++ 146603	4157 415913	10329	29259	66518	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	1548 77753	2967 207192	7024	18140	37531	0.500 20.0	1.00 50.0	2.00	5.00	10.0
trans 2,3-dichlorobutane	CBZ	Ave	+++++ 200084	8256 525207	18116	46501	95602	+++++ 20.0	0.998 49.9	2.00	4.99	9.98
Ethyl methacrylate	CBZ	Lin2	+++++ 115437	3091 319910	7661	22552	52889	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Toluene	CBZ	Ave	+++++ 398540	13764 1094850	33511	89424	188215	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichloropropane	CBZ	Ave	+++++ 146433	5662 390282	13622	34726	72010	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
2-Hexanone	CBZ	Lin2	+++++ 101068	2279 274910	7292	22502	48041	+++++ 40.0	2.00 100	4.00	10.0	20.0
cis 2,3-dichlorobutane	CBZ	Ave	+++++ 145281	6219 379841	13303	33221	70249	+++++ 20.0	0.998 49.9	2.00	4.99	9.98
Dibromochloromethane	CBZ	Qua	+++++ 73789	1854 226266	4154	13119	30533	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
n-Butyl acetate	CBZ	Lin1	+++++ 58384	1752 161539	3661	10988	25795	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	+++++ 67391	2383 181294	6036	15406	32543	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	+++++ 120521	4095 319804	9791	24816	53751	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	+++++ 143724	5150 389971	12093	33636	71086	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Lin1	+++++ 93439	2531 279317	6359	17710	42496	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	+++++ 336332	13017 934610	29731	78671	162883	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	+++++ 197270	7024 548020	17268	44992	94898	+++++ 20.0	1.00 50.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
m-Xylene & p-Xylene	CBZ	Ave	+++++ 451817	16121 1255353	38514	104676	219287	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Bromoform	DCB	Qua	+++++ 25271	478 94536	1588	4064	9709	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Styrene	CBZ	Lin2	+++++ 316382	9028 916075	23587	68395	146687	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Lin2	+++++ 101395	2919 291273	7732	22634	47378	+++++ 1000	50.0 2500	100	250	500
1,1,2,2-Tetrachloroethane	DCB	Ave	+++++ 77278	2720 227701	6200	17752	36730	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
o-Xylene	CBZ	Ave	+++++ 217644	8065 618979	18334	49203	104896	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 17575	521 54993	1114	3551	7712	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 20202	814 57086	1752	4819	9340	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	+++++ 535404	18003 1546427	44507	119695	254587	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	+++++ 101045	3331 307374	8064	22452	47565	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
N-Propylbenzene	DCB	Ave	+++++ 144676	4674 438058	11435	31421	67850	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	+++++ 118847	4035 362879	9626	26379	56230	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	+++++ 364568	12221 1085889	28666	79465	169396	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	+++++ 418228	13029 1295350	32446	90579	192734	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Pentachloroethane	DCB	Qua	+++++ 37604	747 160585	1883	5895	15137	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	+++++ 356101	11752 1115338	28077	78007	168311	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	+++++ 417435	13395 1306556	32384	89363	192628	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	+++++ 518271	16929 1629090	41121	110302	241790	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Benzyl chloride	DCB	Qua	+++++ 66665	1417 256514	3227	9759	25294	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	+++++ 218102	7179 695976	16626	46519	98236	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	+++++ 235870	7212 789649	17193	45945	105107	+++++ 20.0	1.00 50.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Houston Job No.: 600-94269-1 Analy Batch No.: 135303

SDG No.:

Instrument ID: CHVOAMS07 GC Column: DB-VRX 60 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2014 11:27 Calibration End Date: 05/27/2014 14:18 Calibration ID: 3476

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Isopropyltoluene	DCB	Ave	+++++ 489725	14591 1625041	35113	97505	218399	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCB	Ave	+++++ 416766	12724 1287009	31938	88174	190429	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	+++++ 181160	6068 566995	13922	39233	85587	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	+++++ 427795	13141 1300299	32622	89963	197682	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 7691	310 23915	516	1511	3407	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,3,5-Trichlorobenzene	DCB	Ave	+++++ 130161	4134 403967	9936	26583	59317	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 94373	2566 285646	6883	18698	42336	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	+++++ 158215	4092 466943	11019	30999	72346	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	+++++ 26421	1017 79231	2046	5655	12526	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 64578	1879 189285	4655	13398	29914	+++++ 20.0	1.00 50.0	2.00	5.00	10.0
Dibromofluoromethane	FB	Lin1	5762 172653	7393 489127	15999	40275	83381	0.500 20.0	1.00 50.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Lin1	5333 152926	6987 419329	15227	36164	74996	0.500 20.0	1.00 50.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBZ	Lin1	20928 572400	28170 1586599	55157	133607	279309	0.500 20.0	1.00 50.0	2.00	5.00	10.0
4-Bromofluorobenzene	DCB	Lin1	5374 145388	6823 419983	13295	34824	69494	0.500 20.0	1.00 50.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Lab Sample ID: CCVIS 600-137797/2 Calibration Date: 06/26/2014 10:01

Instrument ID: CHVOAMS07 Calib Start Date: 05/27/2014 11:27

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 05/27/2014 14:18

Lab File ID: A17702.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3048	0.4564		15.0	10.0	49.8*	35.0
Chloromethane	Ave	0.2709	0.4231		15.6	10.0	56.2*	35.0
Vinyl chloride	Ave	0.2493	0.3859		15.5	10.0	54.8*	20.0
Butadiene	Ave	0.2865	0.5553		19.4	10.0	93.8*	35.0
Bromomethane	Ave	0.1653	0.1864		11.3	10.0	12.8	35.0
Ethanol	Lin2		0.0013		522	500	4.4	50.0
Chloroethane	Ave	0.1699	0.2133		12.6	10.0	25.5	35.0
Dichlorofluoromethane	Ave	0.4326	0.4676		10.8	10.0	8.1	35.0
Acetonitrile	Ave	0.0152	0.0175		115	100	14.8	50.0
Acrolein	Ave	0.0007	0.0016		122	50.0	143.5*	50.0
Trichlorofluoromethane	Ave	0.4507	0.4173		9.26	10.0	-7.4	35.0
Isopropyl alcohol	Lin1		0.0049		74.4	100	-25.6	50.0
Acetone	Ave	0.0468	0.0445		19.0	20.0	-4.9	50.0
Ethyl ether	Ave	0.2373	0.2528		10.7	10.0	6.5	35.0
t-Butanol	Ave	0.0135	0.0134		99.1	100	-0.9	35.0
1,1-Dichloroethene	Ave	0.2806	0.3035		10.8	10.0	8.1	20.0
Acrylonitrile	Ave	0.0431	0.0498		116	100	15.6	50.0
Iodomethane	Ave	0.4940	0.3748		7.59	10.0	-24.1	35.0
Methylene Chloride	Lin1		0.4306		10.4	10.0	3.6	50.0
Methyl acetate	Ave	0.1631	0.1946		59.7	50.0	19.3	35.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1258	0.1192		9.48	10.0	-5.2	35.0
3-Chloro-1-propene	Ave	0.1696	0.1483		8.75	10.0	-12.5	35.0
Carbon disulfide	Ave	0.7787	0.6186		7.95	10.0	-20.6	35.0
trans-1,2-Dichloroethene	Ave	0.3431	0.3281		9.56	10.0	-4.4	35.0
Methyl tert-butyl ether	Ave	0.6599	0.7207		10.9	10.0	9.2	35.0
Propionitrile	Ave	0.0169	0.0195		115	100	15.4	35.0
1,1-Dichloroethane	Ave	0.6701	0.7595		11.3	10.0	13.4	35.0
Vinyl acetate	Lin2		0.3425		20.7	20.0	3.3	50.0
2-Chloro-1,3-butadiene	Ave	0.5964	0.6459		10.8	10.0	8.3	35.0
Hexane	Ave	0.3765	0.3019		8.02	10.0	-19.8	35.0
Isopropyl ether	Ave	1.315	1.650		12.6	10.0	25.5	35.0
2-Butanone (MEK)	Ave	0.0197	0.0239		24.2	20.0	21.0	50.0
Methacrylonitrile	Ave	0.0205	0.0265		129	100	28.9	35.0
cis-1,2-Dichloroethene	Ave	0.3652	0.4141		11.3	10.0	13.4	35.0
Ethyl acetate	Lin2		0.0794		24.1	20.0	20.6	35.0
Chlorobromomethane	Ave	0.1277	0.1436		11.2	10.0	12.4	35.0
Chloroform	Ave	0.6230	0.7831		12.6	10.0	25.7*	20.0
Isobutyl alcohol	Lin1		0.0123		300	250	19.9	50.0
Tert-butyl ethyl ether	Ave	0.9621	1.100		11.4	10.0	14.4	35.0
2,2-Dichloropropane	Ave	0.3327	0.3003		9.03	10.0	-9.7	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Lab Sample ID: CCVIS 600-137797/2 Calibration Date: 06/26/2014 10:01

Instrument ID: CHVOAMS07 Calib Start Date: 05/27/2014 11:27

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 05/27/2014 14:18

Lab File ID: A17702.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrahydrofuran	Ave	0.0470	0.0570		24.3	20.0	21.3	35.0
1,2-Dichloroethane	Ave	0.3247	0.4099		12.6	10.0	26.3	35.0
1,1,1-Trichloroethane	Ave	0.4418	0.5069		11.5	10.0	14.7	35.0
1,1-Dichloropropene	Ave	0.4436	0.5233		11.8	10.0	18.0	35.0
Cyclohexane	Ave	0.3832	0.3160		8.25	10.0	-17.5	35.0
Carbon tetrachloride	Qua		0.3524		11.3	10.0	12.5	35.0
Benzene	Ave	1.284	1.520		11.8	10.0	18.4	35.0
2-Nitropropane	Ave	0.1362	0.1606		23.6	20.0	17.9	35.0
Tert-amyl methyl ether	Ave	0.6611	0.7307		11.1	10.0	10.5	35.0
Ethyl acrylate	Lin2		0.2477		10.7	10.0	7.3	35.0
n-Heptane	Ave	0.4182	0.3988		9.54	10.0	-4.6	35.0
Dibromomethane	Ave	0.1093	0.1379		12.6	10.0	26.1	35.0
1,2-Dichloropropane	Ave	0.2898	0.3800		13.1	10.0	31.1*	20.0
Trichloroethene	Ave	0.3366	0.3929		11.7	10.0	16.7	35.0
Bromodichloromethane	Lin2		0.4083		12.6	10.0	26.2	35.0
Methyl methacrylate	Lin2		0.2002		25.9	20.0	29.5	50.0
1,4-Dioxane	Lin		1.867		281	200	40.5	50.0
2-Chloroethyl vinyl ether	Ave	0.3016	0.3318		22.0	20.0	10.0	35.0
Methylcyclohexane	Ave	0.4748	0.4758		10.0	10.0	0.2	35.0
cis-1,3-Dichloropropene	Lin2		1.065		8.67	10.0	-13.3	35.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1397	0.1897		27.2	20.0	35.8	50.0
trans-1,3-Dichloropropene	Lin2		0.6874		7.79	10.0	-22.1	35.0
1,1,2-Trichloroethane	Ave	0.4742	0.4807		10.1	10.0	1.4	35.0
Ethyl methacrylate	Lin2		0.6248		9.04	10.0	-9.6	50.0
Toluene	Ave	2.384	2.456		10.3	10.0	3.0	20.0
1,3-Dichloropropane	Ave	0.9151	0.9341		10.2	10.0	2.1	35.0
2-Hexanone	Lin2		0.2917		18.6	20.0	-7.3	50.0
Dibromochloromethane	Qua		0.4076		9.94	10.0	-0.6	35.0
n-Butyl acetate	Lin1		0.3136		8.68	10.0	-13.2	35.0
n-Butyl acrylate	None		0.0137			20.0		35.0
1,2-Dibromoethane	Ave	0.4100	0.3945		9.62	10.0	-3.8	35.0
Tetrachloroethene	Ave	0.6941	0.6472		9.32	10.0	-6.8	35.0
1,1,1,2-Tetrachloroethane	Lin1		0.5498		9.04	10.0	-9.6	35.0
Chlorobenzene	Ave	2.090	2.089		10.00	10.0	-0.0	35.0
Ethylbenzene	Ave	1.203	1.210		10.1	10.0	0.7	20.0
m-Xylene & p-Xylene	Ave	2.755	2.849		10.3	10.0	3.4	35.0
Bromoform	Qua		0.1832		9.30	10.0	-7.0	35.0
Styrene	Lin2		1.890		9.54	10.0	-4.7	35.0
Cyclohexanone	Lin2		0.0137		532	500	6.5	35.0
1,1,2,2-Tetrachloroethane	Ave	0.6941	0.6738		9.71	10.0	-2.9	35.0
o-Xylene	Ave	1.330	1.416		10.6	10.0	6.4	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Lab Sample ID: CCVIS 600-137797/2 Calibration Date: 06/26/2014 10:01

Instrument ID: CHVOAMS07 Calib Start Date: 05/27/2014 11:27

GC Column: DB-VRX 60 ID: 0.25(mm) Calib End Date: 05/27/2014 14:18

Lab File ID: A17702.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,4-Dichloro-2-butene	Ave	0.1447	0.1569		10.8	10.0	8.4	50.0
1,2,3-Trichloropropane	Ave	0.1870	0.1801		9.63	10.0	-3.7	35.0
Isopropylbenzene	Ave	4.767	4.578		9.60	10.0	-4.0	35.0
Bromobenzene	Ave	0.8961	0.8109		9.05	10.0	-9.5	35.0
N-Propylbenzene	Ave	1.271	1.217		9.58	10.0	-4.2	35.0
2-Chlorotoluene	Ave	1.063	1.030		9.69	10.0	-3.1	35.0
4-Chlorotoluene	Ave	3.204	3.182		9.93	10.0	-0.7	35.0
1,3,5-Trimethylbenzene	Ave	3.644	3.525		9.67	10.0	-3.3	35.0
Pentachloroethane	Qua		0.2862		9.95	10.0	-0.5	50.0
tert-Butylbenzene	Ave	3.163	3.036		9.60	10.0	-4.0	35.0
1,2,4-Trimethylbenzene	Ave	3.654	3.555		9.73	10.0	-2.7	35.0
sec-Butylbenzene	Ave	4.572	4.580		10.0	10.0	0.2	35.0
Benzyl chloride	Qua		0.3774		7.70	10.0	-23.0	35.0
1,3-Dichlorobenzene	Ave	1.908	1.843		9.66	10.0	-3.4	35.0
1,4-Dichlorobenzene	Ave	2.013	1.938		9.63	10.0	-3.7	35.0
4-Isopropyltoluene	Ave	4.161	4.112		9.88	10.0	-1.2	35.0
1,2,3-Trimethylbenzene	Ave	3.593	3.500		9.74	10.0	-2.6	35.0
1,2-Dichlorobenzene	Ave	1.603	1.523		9.51	10.0	-5.0	35.0
n-Butylbenzene	Ave	3.681	3.946		10.7	10.0	7.2	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0668	0.0481		7.19	10.0	-28.1	35.0
1,3,5-Trichlorobenzene	Ave	1.122	1.045		9.32	10.0	-6.8	35.0
1,2,4-Trichlorobenzene	Ave	0.7806	0.6807		8.72	10.0	-12.8	35.0
Naphthalene	Ave	1.287	0.996		7.74	10.0	-22.6	35.0
Hexachlorobutadiene	Ave	0.2371	0.2141		9.03	10.0	-9.7	35.0
1,2,3-Trichlorobenzene	Ave	0.5420	0.4157		7.67	10.0	-23.3	35.0
Dibromofluoromethane	Lin1		0.3663		11.0	10.0	10.2	35.0
1,2-Dichloroethane-d4 (Surr)	Lin1		0.3373		11.6	10.0	16.1	35.0
Toluene-d8 (Surr)	Lin1		3.395		8.90	10.0	-11.0	35.0
4-Bromofluorobenzene	Lin1		1.208		9.04	10.0	-9.6	35.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston | Job No.: 600-94269-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 600-137797/5

Matrix: Water | Lab File ID: A17705.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 06/26/2014 11:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137797 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.0800	U	1.00	0.0800
100-41-4	Ethylbenzene	0.110	U	1.00	0.110
108-88-3	Toluene	0.150	U	1.00	0.150
1330-20-7	Xylenes, Total	0.260	U	1.00	0.260

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		50-134
1868-53-7	Dibromofluoromethane	86		62-130
2037-26-5	Toluene-d8 (Surr)	79		70-130
460-00-4	4-Bromofluorobenzene	82		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston | Job No.: 600-94269-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 600-137797/3

Matrix: Water | Lab File ID: A17703.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 06/26/2014 10:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137797 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	12.97		1.00	0.0800
100-41-4	Ethylbenzene	10.34		1.00	0.110
108-88-3	Toluene	10.63		1.00	0.150
1330-20-7	Xylenes, Total	20.81		1.00	0.260

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		50-134
1868-53-7	Dibromofluoromethane	96		62-130
2037-26-5	Toluene-d8 (Surr)	84		70-130
460-00-4	4-Bromofluorobenzene	85		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-MW32-06192014 Lab Sample ID: 600-94269-1 MS

Matrix: Water Lab File ID: A17712.D

Analysis Method: 8260B Date Collected: 06/19/2014 07:14

Sample wt/vol: 20(mL) Date Analyzed: 06/26/2014 14:54

Soil Aliquot Vol: Dilution Factor: 250

Soil Extract Vol.: GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 137797 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	10220		250	20.0
100-41-4	Ethylbenzene	2846		250	27.5
108-88-3	Toluene	4775		250	37.5
1330-20-7	Xylenes, Total	10760		250	65.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		50-134
1868-53-7	Dibromofluoromethane	89		62-130
2037-26-5	Toluene-d8 (Surr)	76		70-130
460-00-4	4-Bromofluorobenzene	81		67-139

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Houston | Job No.: 600-94269-1

SDG No.:

Client Sample ID: BlancoNFP-MW32-06192014 | Lab Sample ID: 600-94269-1 MSD

Matrix: Water | Lab File ID: A17713.D

Analysis Method: 8260B | Date Collected: 06/19/2014 07:14

Sample wt/vol: 20(mL) | Date Analyzed: 06/26/2014 15:23

Soil Aliquot Vol: | Dilution Factor: 250

Soil Extract Vol.: | GC Column: DB-VRX 60 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 137797 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	10160		250	20.0
100-41-4	Ethylbenzene	2974		250	27.5
108-88-3	Toluene	4888		250	37.5
1330-20-7	Xylenes, Total	10630		250	65.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		50-134
1868-53-7	Dibromofluoromethane	93		62-130
2037-26-5	Toluene-d8 (Surr)	80		70-130
460-00-4	4-Bromofluorobenzene	86		67-139

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Instrument ID: CHVOAMS07 Start Date: 05/27/2014 10:06

Analysis Batch Number: 135303 End Date: 05/27/2014 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-135303/1		05/27/2014 10:06	1	A14701.D	DB-VRX 60 0.25(mm)
IC 600-135303/3		05/27/2014 11:27	1	A14703.D	DB-VRX 60 0.25(mm)
IC 600-135303/4		05/27/2014 11:56	1	A14704.D	DB-VRX 60 0.25(mm)
IC 600-135303/5		05/27/2014 12:24	1	A14705.D	DB-VRX 60 0.25(mm)
IC 600-135303/6		05/27/2014 12:52	1	A14706.D	DB-VRX 60 0.25(mm)
ICIS 600-135303/7		05/27/2014 13:21	1	A14707.D	DB-VRX 60 0.25(mm)
IC 600-135303/8		05/27/2014 13:49	1	A14708.D	DB-VRX 60 0.25(mm)
IC 600-135303/9		05/27/2014 14:18	1	A14709.D	DB-VRX 60 0.25(mm)
ICV 600-135303/15		05/27/2014 17:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/27/2014 17:16	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/27/2014 17:44	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/27/2014 19:09	1		DB-VRX 60 0.25(mm)
ZZZZZ		05/27/2014 19:38	1		DB-VRX 60 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Houston Job No.: 600-94269-1

SDG No.:

Instrument ID: CHVOAMS07 Start Date: 06/26/2014 09:18

Analysis Batch Number: 137797 End Date: 06/26/2014 21:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 600-137797/1		06/26/2014 09:18	1	A17701.D	DB-VRX 60 0.25(mm)
CCVIS 600-137797/2		06/26/2014 10:01	1	A17702.D	DB-VRX 60 0.25(mm)
LCS 600-137797/3		06/26/2014 10:29	1	A17703.D	DB-VRX 60 0.25(mm)
MB 600-137797/5		06/26/2014 11:27	1	A17705.D	DB-VRX 60 0.25(mm)
600-94269-7	BlancoNFP-TB01-061920 14	06/26/2014 11:55	1	A17706.D	DB-VRX 60 0.25(mm)
600-94269-6	BlancoNFP-MW33-061920 14	06/26/2014 12:24	1	A17707.D	DB-VRX 60 0.25(mm)
600-94269-1	BlancoNFP-MW32-061920 14	06/26/2014 13:00	250	A17708.D	DB-VRX 60 0.25(mm)
600-94269-4	BlancoNFP-MW23-061920 14	06/26/2014 13:28	50	A17709.D	DB-VRX 60 0.25(mm)
600-94269-5	BlancoNFP-MD01-061920 14	06/26/2014 13:57	50	A17710.D	DB-VRX 60 0.25(mm)
600-94269-4 DL	BlancoNFP-MW23-061920 14 DL	06/26/2014 14:26	500	A17711.D	DB-VRX 60 0.25(mm)
600-94269-1 MS	BlancoNFP-MW32-061920 14 MS MS	06/26/2014 14:54	250	A17712.D	DB-VRX 60 0.25(mm)
600-94269-1 MSD	BlancoNFP-MW32-061920 14 MSD MSD	06/26/2014 15:23	250	A17713.D	DB-VRX 60 0.25(mm)
600-94269-5 DL	BlancoNFP-MD01-061920 14 DL	06/26/2014 15:51	500	A17714.D	DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 16:20	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 16:49	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 17:17	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 17:46	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 18:14	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 18:43	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 19:11	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 19:39	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 20:08	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 20:36	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 21:04	1		DB-VRX 60 0.25(mm)
ZZZZZ		06/26/2014 21:32	1		DB-VRX 60 0.25(mm)

Shipping and Receiving Documents

TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain o

600-94269 Chain of Custody

TestAmerica

07/14/2014

Client Information	Sampler: L. Hill	Lab PM: Upton	COC No: 600-28866-9934.1
Client Contact: Mr. John Ynfante	Phone: (205) 240-3235	E-Mail: cathy.	Page: Page 1 of 1
Company: CH2M Hill Constructors, Inc.			Job #
Address: 14701 St. Mary's Lane Suite 300	Due Date Requested:		
City: Houston	TAT Requested (days): Standard		
State, Zip: TX, 77079-2923			
Phone: 281-721-8546(Tel)	PO #: WD211106		
Email: john.ynfante@ch2m.com	WO #:		
Project Name: Kinder Morgan Bloomfield, NM	Project #: 60004617		
Site: Blanco Gas Plant-North Flare Pit	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
BlancoNFP-MW32-06192014	6/19/14	0714	G	Water	N		X		
BlancoNFP-MW32-06192014 MS	6/19/14	0714	G	Water	N		X		
BlancoNFP-MW32-06192014 MSD	6/19/14	0714	G	Water	N		X		
BlancoNFP-MW23-06192014	6/19/14	0800	G	Water	N		X		
BlancoNFP-MD01-06192014	6/19/14	1200	G	Water	N		X		
BlancoNFP-MW33-06192014	6/19/14	0840	G	Water	N		X		
BlancoNFP-TB01-06192014	6/19/14	0700	G	Water	N		X		
			G	Water	N		X		
			G	Water	N		X		
			G	Water	N		X		
			G	Water	N		X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
L. Hill L. Hill	6/20/14 1200	CH2M HILL			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				6/21/14 10:44	TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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Sample Receipt Checklist

UNPACKED BY: _____ Loc: 600 94269

Date/Time Received: 14 JUN 21 1645

CLIENT: CH2M

JOB NUMBER: _____ _____

CARRIER/DRIVER: FED

Custody Seal Present: ☐ YES ☒ NO

Number of Coolers Received: _____

IR THERMOMETER #: 549

THERMOMETER CORRECTION FACTOR: -0.1

Temperature of the samples(s):

Temp taken by: TB = Temp. Blank and/or SC = Sample Container

Cooler ID	BW								
Temp	TB SC 2.8	TB SC	TB SC	TB SC	TB SC	TB SC	TB SC	TB SC	TB SC
Corrected Temp	2.7								

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YES

Base samples are>pH 12: ☐ YES ☐ NO Acid preserved are<pH 2: ☐ YES ☐ NO

Lot #_____ Lot #_____

VOA headspace acceptable: ☒ YES ☐ NO ☐ NA VOA trip blanks included: ☒ YES ☐ NO ☐ NA

	YES	NO
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X	

COMMENTS:

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 600-94269-1

Login Number: 94269

List Source: TestAmerica Houston

List Number: 1

Creator: Lockett, DuJuan D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	False	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-103873-1
Client Project/Site: Kinder Morgan Bloomfield, NM NFP

For:
CH2M Hill Constructors, Inc.
14701 St. Mary's Lane
Suite 300
Houston, Texas 77079-2923

Attn: Mr. John Ynfante

Authorized for release by:
12/31/2014 7:13:39 PM

Cathy Upton, Project Manager I
(713)690-4444
cathy.upton@testamericainc.com

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Job ID: 600-103873-1

Laboratory: TestAmerica Houston

Narrative

CASE NARRATIVE

Client: CH2M Hill Constructors, Inc.

Project: Kinder Morgan Bloomfield, NM NFP

Report Number: 600-103873-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within 2°C of the required temperature or method specified range. For samples with a specified temperature of 4°C, samples with a temperature ranging from just above freezing temperature of water to 6°C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

The samples were received on 12/18/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples BLANCONFP-TB01-17122014 (600-103873-1), BLANCONFP-MW33-17122014 (600-103873-2), BLANCONFP-MD33-17122014 (600-103873-3), BLANCONFP-MW23-17122014 (600-103873-4) and BLANCONFP-MW32-17122014 (600-103873-5) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/23/2014 and 12/24/2014.

The continuing calibration verification (CCV) associated with batch 152339 recovered above the upper control limit for Bromomethane (59.2%). The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Samples BLANCONFP-MW23-17122014 (600-103873-4)[1000X], BLANCONFP-MW23-17122014 (600-103873-4)[50X] and BLANCONFP-MW32-17122014 (600-103873-5)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN

Samples BLANCONFP-MW33-17122014 (600-103873-2) and BLANCONFP-MD33-17122014 (600-103873-3) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 12/31/2014.

Samples BLANCONFP-MW33-17122014 (600-103873-2)[50X] and BLANCONFP-MD33-17122014 (600-103873-3)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 600-103873-1 (Continued)

Laboratory: TestAmerica Houston (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-103873-1	BLANCONFP-TB01-17122014	Water	12/17/14 12:05	12/18/14 11:28
600-103873-2	BLANCONFP-MW33-17122014	Water	12/17/14 12:10	12/18/14 11:28
600-103873-3	BLANCONFP-MD33-17122014	Water	12/17/14 12:20	12/18/14 11:28
600-103873-4	BLANCONFP-MW23-17122014	Water	12/17/14 13:05	12/18/14 11:28
600-103873-5	BLANCONFP-MW32-17122014	Water	12/17/14 13:30	12/18/14 11:28

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Client Sample ID: BLANCONFP-TB01-17122014
Date Collected: 12/17/14 12:05
Date Received: 12/18/14 11:28

Lab Sample ID: 600-103873-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.990	U	5.00	0.990	ug/L			12/23/14 18:57	1
Benzene	0.0800	U	1.00	0.0800	ug/L			12/23/14 18:57	1
Chlorobromomethane	0.180	U	1.00	0.180	ug/L			12/23/14 18:57	1
Bromoform	0.190	U	1.00	0.190	ug/L			12/23/14 18:57	1
Bromomethane	0.250	U	2.00	0.250	ug/L			12/23/14 18:57	1
2-Butanone (MEK)	0.760	U	2.00	0.760	ug/L			12/23/14 18:57	1
Carbon disulfide	0.240	U	2.00	0.240	ug/L			12/23/14 18:57	1
Carbon tetrachloride	0.150	U	1.00	0.150	ug/L			12/23/14 18:57	1
Dibromochloromethane	0.150	U	1.00	0.150	ug/L			12/23/14 18:57	1
Chlorobenzene	0.120	U	1.00	0.120	ug/L			12/23/14 18:57	1
Chloroethane	0.0800	U	2.00	0.0800	ug/L			12/23/14 18:57	1
Chloroform	0.130	U	1.00	0.130	ug/L			12/23/14 18:57	1
Chloromethane	0.180	U	2.00	0.180	ug/L			12/23/14 18:57	1
1,1-Dichloroethane	0.110	U	1.00	0.110	ug/L			12/23/14 18:57	1
1,2-Dichloroethane	0.140	U	1.00	0.140	ug/L			12/23/14 18:57	1
1,1-Dichloroethene	0.190	U	1.00	0.190	ug/L			12/23/14 18:57	1
trans-1,2-Dichloroethene	0.0900	U	1.00	0.0900	ug/L			12/23/14 18:57	1
1,2-Dichloropropane	0.160	U	1.00	0.160	ug/L			12/23/14 18:57	1
cis-1,3-Dichloropropene	0.180	U	1.00	0.180	ug/L			12/23/14 18:57	1
trans-1,3-Dichloropropene	0.210	U	1.00	0.210	ug/L			12/23/14 18:57	1
Ethylbenzene	0.110	U	1.00	0.110	ug/L			12/23/14 18:57	1
2-Hexanone	0.350	U	2.00	0.350	ug/L			12/23/14 18:57	1
Methylene Chloride	0.150	U	5.00	0.150	ug/L			12/23/14 18:57	1
4-Methyl-2-pentanone (MIBK)	0.450	U	2.00	0.450	ug/L			12/23/14 18:57	1
Styrene	0.0700	U	1.00	0.0700	ug/L			12/23/14 18:57	1
1,1,2,2-Tetrachloroethane	0.220	U	1.00	0.220	ug/L			12/23/14 18:57	1
Tetrachloroethene	0.130	U	1.00	0.130	ug/L			12/23/14 18:57	1
Toluene	0.150	U	1.00	0.150	ug/L			12/23/14 18:57	1
1,1,1-Trichloroethane	0.150	U	1.00	0.150	ug/L			12/23/14 18:57	1
1,1,2-Trichloroethane	0.280	U	1.00	0.280	ug/L			12/23/14 18:57	1
Trichloroethene	0.180	U	1.00	0.180	ug/L			12/23/14 18:57	1
Vinyl acetate	0.210	U	2.00	0.210	ug/L			12/23/14 18:57	1
Vinyl chloride	0.110	U	2.00	0.110	ug/L			12/23/14 18:57	1
o-Xylene	0.120	U	1.00	0.120	ug/L			12/23/14 18:57	1
m-Xylene & p-Xylene	0.170	U	1.00	0.170	ug/L			12/23/14 18:57	1
Xylenes, Total	0.260	U	1.00	0.260	ug/L			12/23/14 18:57	1
cis-1,2-Dichloroethene	0.0600	U	1.00	0.0600	ug/L			12/23/14 18:57	1
Bromodichloromethane	0.160	U	1.00	0.160	ug/L			12/23/14 18:57	1
1,2-Dichloroethene, Total	0.300	U	1.00	0.300	ug/L			12/23/14 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*70 - 130*		*12/23/14 18:57*	*1*
Dibromofluoromethane	*99*		*62 - 130*		*12/23/14 18:57*	*1*
4-Bromofluorobenzene	*100*		*67 - 139*		*12/23/14 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*50 - 134*		*12/23/14 18:57*	*1*

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Client Sample ID: BLANCONFP-MW33-17122014
Date Collected: 12/17/14 12:10
Date Received: 12/18/14 11:28

Lab Sample ID: 600-103873-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.990	U	5.00	0.990	ug/L			12/23/14 19:47	1
Benzene	0.0800	U	1.00	0.0800	ug/L			12/23/14 19:47	1
Chlorobromomethane	0.180	U	1.00	0.180	ug/L			12/23/14 19:47	1
Bromoform	0.190	U	1.00	0.190	ug/L			12/23/14 19:47	1
Bromomethane	0.250	U	2.00	0.250	ug/L			12/23/14 19:47	1
2-Butanone (MEK)	0.760	U	2.00	0.760	ug/L			12/23/14 19:47	1
Carbon disulfide	0.240	U	2.00	0.240	ug/L			12/23/14 19:47	1
Carbon tetrachloride	0.150	U	1.00	0.150	ug/L			12/23/14 19:47	1
Dibromochloromethane	0.150	U	1.00	0.150	ug/L			12/23/14 19:47	1
Chlorobenzene	0.120	U	1.00	0.120	ug/L			12/23/14 19:47	1
Chloroethane	0.0800	U	2.00	0.0800	ug/L			12/23/14 19:47	1
Chloroform	0.130	U	1.00	0.130	ug/L			12/23/14 19:47	1
Chloromethane	0.180	U	2.00	0.180	ug/L			12/23/14 19:47	1
1,1-Dichloroethane	0.110	U	1.00	0.110	ug/L			12/23/14 19:47	1
1,2-Dichloroethane	0.140	U	1.00	0.140	ug/L			12/23/14 19:47	1
1,1-Dichloroethene	0.190	U	1.00	0.190	ug/L			12/23/14 19:47	1
trans-1,2-Dichloroethene	0.0900	U	1.00	0.0900	ug/L			12/23/14 19:47	1
1,2-Dichloropropane	0.160	U	1.00	0.160	ug/L			12/23/14 19:47	1
cis-1,3-Dichloropropene	0.180	U	1.00	0.180	ug/L			12/23/14 19:47	1
trans-1,3-Dichloropropene	0.210	U	1.00	0.210	ug/L			12/23/14 19:47	1
Ethylbenzene	0.110	U	1.00	0.110	ug/L			12/23/14 19:47	1
2-Hexanone	0.350	U	2.00	0.350	ug/L			12/23/14 19:47	1
Methylene Chloride	0.150	U	5.00	0.150	ug/L			12/23/14 19:47	1
4-Methyl-2-pentanone (MIBK)	0.450	U	2.00	0.450	ug/L			12/23/14 19:47	1
Styrene	0.0700	U	1.00	0.0700	ug/L			12/23/14 19:47	1
1,1,2,2-Tetrachloroethane	0.220	U	1.00	0.220	ug/L			12/23/14 19:47	1
Tetrachloroethene	0.130	U	1.00	0.130	ug/L			12/23/14 19:47	1
Toluene	0.150	U	1.00	0.150	ug/L			12/23/14 19:47	1
1,1,1-Trichloroethane	0.150	U	1.00	0.150	ug/L			12/23/14 19:47	1
1,1,2-Trichloroethane	0.280	U	1.00	0.280	ug/L			12/23/14 19:47	1
Trichloroethene	0.180	U	1.00	0.180	ug/L			12/23/14 19:47	1
Vinyl acetate	0.210	U	2.00	0.210	ug/L			12/23/14 19:47	1
Vinyl chloride	0.110	U	2.00	0.110	ug/L			12/23/14 19:47	1
o-Xylene	0.120	U	1.00	0.120	ug/L			12/23/14 19:47	1
m-Xylene & p-Xylene	0.170	U	1.00	0.170	ug/L			12/23/14 19:47	1
Xylenes, Total	0.260	U	1.00	0.260	ug/L			12/23/14 19:47	1
cis-1,2-Dichloroethene	0.0600	U	1.00	0.0600	ug/L			12/23/14 19:47	1
Bromodichloromethane	0.160	U	1.00	0.160	ug/L			12/23/14 19:47	1
1,2-Dichloroethene, Total	0.300	U	1.00	0.300	ug/L			12/23/14 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/23/14 19:47*	*1*
Dibromofluoromethane	*104*		*62 - 130*		*12/23/14 19:47*	*1*
4-Bromofluorobenzene	*99*		*67 - 139*		*12/23/14 19:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*50 - 134*		*12/23/14 19:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	19.0		2.50	0.850	mg/L			12/31/14 17:54	50

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Client Sample ID: BLANCONFP-MD33-17122014
Date Collected: 12/17/14 12:20
Date Received: 12/18/14 11:28

Lab Sample ID: 600-103873-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.990	U	5.00	0.990	ug/L			12/23/14 19:22	1
Benzene	0.0800	U	1.00	0.0800	ug/L			12/23/14 19:22	1
Chlorobromomethane	0.180	U	1.00	0.180	ug/L			12/23/14 19:22	1
Bromoform	0.190	U	1.00	0.190	ug/L			12/23/14 19:22	1
Bromomethane	0.250	U	2.00	0.250	ug/L			12/23/14 19:22	1
2-Butanone (MEK)	0.760	U	2.00	0.760	ug/L			12/23/14 19:22	1
Carbon disulfide	0.240	U	2.00	0.240	ug/L			12/23/14 19:22	1
Carbon tetrachloride	0.150	U	1.00	0.150	ug/L			12/23/14 19:22	1
Dibromochloromethane	0.150	U	1.00	0.150	ug/L			12/23/14 19:22	1
Chlorobenzene	0.120	U	1.00	0.120	ug/L			12/23/14 19:22	1
Chloroethane	0.0800	U	2.00	0.0800	ug/L			12/23/14 19:22	1
Chloroform	0.130	U	1.00	0.130	ug/L			12/23/14 19:22	1
Chloromethane	0.180	U	2.00	0.180	ug/L			12/23/14 19:22	1
1,1-Dichloroethane	0.110	U	1.00	0.110	ug/L			12/23/14 19:22	1
1,2-Dichloroethane	0.140	U	1.00	0.140	ug/L			12/23/14 19:22	1
1,1-Dichloroethene	0.190	U	1.00	0.190	ug/L			12/23/14 19:22	1
trans-1,2-Dichloroethene	0.0900	U	1.00	0.0900	ug/L			12/23/14 19:22	1
1,2-Dichloropropane	0.160	U	1.00	0.160	ug/L			12/23/14 19:22	1
cis-1,3-Dichloropropene	0.180	U	1.00	0.180	ug/L			12/23/14 19:22	1
trans-1,3-Dichloropropene	0.210	U	1.00	0.210	ug/L			12/23/14 19:22	1
Ethylbenzene	0.110	U	1.00	0.110	ug/L			12/23/14 19:22	1
2-Hexanone	0.350	U	2.00	0.350	ug/L			12/23/14 19:22	1
Methylene Chloride	0.150	U	5.00	0.150	ug/L			12/23/14 19:22	1
4-Methyl-2-pentanone (MIBK)	0.450	U	2.00	0.450	ug/L			12/23/14 19:22	1
Styrene	0.0700	U	1.00	0.0700	ug/L			12/23/14 19:22	1
1,1,2,2-Tetrachloroethane	0.220	U	1.00	0.220	ug/L			12/23/14 19:22	1
Tetrachloroethene	0.130	U	1.00	0.130	ug/L			12/23/14 19:22	1
Toluene	0.150	U	1.00	0.150	ug/L			12/23/14 19:22	1
1,1,1-Trichloroethane	0.150	U	1.00	0.150	ug/L			12/23/14 19:22	1
1,1,2-Trichloroethane	0.280	U	1.00	0.280	ug/L			12/23/14 19:22	1
Trichloroethene	0.180	U	1.00	0.180	ug/L			12/23/14 19:22	1
Vinyl acetate	0.210	U	2.00	0.210	ug/L			12/23/14 19:22	1
Vinyl chloride	0.110	U	2.00	0.110	ug/L			12/23/14 19:22	1
o-Xylene	0.120	U	1.00	0.120	ug/L			12/23/14 19:22	1
m-Xylene & p-Xylene	0.170	U	1.00	0.170	ug/L			12/23/14 19:22	1
Xylenes, Total	0.260	U	1.00	0.260	ug/L			12/23/14 19:22	1
cis-1,2-Dichloroethene	0.0600	U	1.00	0.0600	ug/L			12/23/14 19:22	1
Bromodichloromethane	0.160	U	1.00	0.160	ug/L			12/23/14 19:22	1
1,2-Dichloroethene, Total	0.300	U	1.00	0.300	ug/L			12/23/14 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/23/14 19:22*	*1*
Dibromofluoromethane	*103*		*62 - 130*		*12/23/14 19:22*	*1*
4-Bromofluorobenzene	*99*		*67 - 139*		*12/23/14 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*		*12/23/14 19:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	22.2		2.50	0.850	mg/L			12/31/14 17:55	50

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Client Sample ID: BLANCONFP-MW23-17122014
Date Collected: 12/17/14 13:05
Date Received: 12/18/14 11:28

Lab Sample ID: 600-103873-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	49.5	U	250	49.5	ug/L			12/23/14 20:13	50
Chlorobromomethane	9.00	U	50.0	9.00	ug/L			12/23/14 20:13	50
Bromoform	9.50	U	50.0	9.50	ug/L			12/23/14 20:13	50
Bromomethane	12.5	U	100	12.5	ug/L			12/23/14 20:13	50
2-Butanone (MEK)	38.0	U	100	38.0	ug/L			12/23/14 20:13	50
Carbon disulfide	12.0	U	100	12.0	ug/L			12/23/14 20:13	50
Carbon tetrachloride	7.50	U	50.0	7.50	ug/L			12/23/14 20:13	50
Dibromochloromethane	7.50	U	50.0	7.50	ug/L			12/23/14 20:13	50
Chlorobenzene	6.00	U	50.0	6.00	ug/L			12/23/14 20:13	50
Chloroethane	4.00	U	100	4.00	ug/L			12/23/14 20:13	50
Chloroform	6.50	U	50.0	6.50	ug/L			12/23/14 20:13	50
Chloromethane	9.00	U	100	9.00	ug/L			12/23/14 20:13	50
1,1-Dichloroethane	5.50	U	50.0	5.50	ug/L			12/23/14 20:13	50
1,2-Dichloroethane	7.00	U	50.0	7.00	ug/L			12/23/14 20:13	50
1,1-Dichloroethene	9.50	U	50.0	9.50	ug/L			12/23/14 20:13	50
trans-1,2-Dichloroethene	4.50	U	50.0	4.50	ug/L			12/23/14 20:13	50
1,2-Dichloropropane	8.00	U	50.0	8.00	ug/L			12/23/14 20:13	50
cis-1,3-Dichloropropene	9.00	U	50.0	9.00	ug/L			12/23/14 20:13	50
trans-1,3-Dichloropropene	10.5	U	50.0	10.5	ug/L			12/23/14 20:13	50
Ethylbenzene	**141**		50.0	5.50	ug/L			12/23/14 20:13	50
2-Hexanone	17.5	U	100	17.5	ug/L			12/23/14 20:13	50
Methylene Chloride	7.50	U	250	7.50	ug/L			12/23/14 20:13	50
4-Methyl-2-pentanone (MIBK)	22.5	U	100	22.5	ug/L			12/23/14 20:13	50
Styrene	3.50	U	50.0	3.50	ug/L			12/23/14 20:13	50
1,1,2,2-Tetrachloroethane	11.0	U	50.0	11.0	ug/L			12/23/14 20:13	50
Tetrachloroethene	6.50	U	50.0	6.50	ug/L			12/23/14 20:13	50
Toluene	7.50	U	50.0	7.50	ug/L			12/23/14 20:13	50
1,1,1-Trichloroethane	7.50	U	50.0	7.50	ug/L			12/23/14 20:13	50
1,1,2-Trichloroethane	14.0	U	50.0	14.0	ug/L			12/23/14 20:13	50
Trichloroethene	9.00	U	50.0	9.00	ug/L			12/23/14 20:13	50
Vinyl acetate	**111**		100	10.5	ug/L			12/23/14 20:13	50
Vinyl chloride	5.50	U	100	5.50	ug/L			12/23/14 20:13	50
o-Xylene	6.00	U	50.0	6.00	ug/L			12/23/14 20:13	50
m-Xylene & p-Xylene	**1410**		50.0	8.50	ug/L			12/23/14 20:13	50
Xylenes, Total	**1410**		50.0	13.0	ug/L			12/23/14 20:13	50
cis-1,2-Dichloroethene	3.00	U	50.0	3.00	ug/L			12/23/14 20:13	50
Bromodichloromethane	8.00	U	50.0	8.00	ug/L			12/23/14 20:13	50
1,2-Dichloroethene, Total	15.0	U	50.0	15.0	ug/L			12/23/14 20:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/23/14 20:13*	*50*
Dibromofluoromethane	*96*		*62 - 130*		*12/23/14 20:13*	*50*
4-Bromofluorobenzene	*103*		*67 - 139*		*12/23/14 20:13*	*50*
1,2-Dichloroethane-d4 (Surr)	*93*		*50 - 134*		*12/23/14 20:13*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9700**		1000	80.0	ug/L			12/24/14 16:09	1000

Client Sample ID: BLANCONFP-MW23-17122014

Lab Sample ID: 600-103873-4

Date Collected: 12/17/14 13:05

Matrix: Water

Date Received: 12/18/14 11:28

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130		12/24/14 16:09	1000
Dibromofluoromethane	103		62 - 130		12/24/14 16:09	1000
4-Bromofluorobenzene	99		67 - 139		12/24/14 16:09	1000
1,2-Dichloroethane-d4 (Surr)	102		50 - 134		12/24/14 16:09	1000

Client Sample ID: BLANCONFP-MW32-17122014

Lab Sample ID: 600-103873-5

Date Collected: 12/17/14 13:30

Matrix: Water

Date Received: 12/18/14 11:28

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4550**		250	49.5	ug/L			12/23/14 20:38	50
Benzene	**1570**		50.0	4.00	ug/L			12/23/14 20:38	50
Chlorobromomethane	9.00	U	50.0	9.00	ug/L			12/23/14 20:38	50
Bromoform	9.50	U	50.0	9.50	ug/L			12/23/14 20:38	50
Bromomethane	12.5	U	100	12.5	ug/L			12/23/14 20:38	50
2-Butanone (MEK)	38.0	U	100	38.0	ug/L			12/23/14 20:38	50
Carbon disulfide	12.0	U	100	12.0	ug/L			12/23/14 20:38	50
Carbon tetrachloride	7.50	U	50.0	7.50	ug/L			12/23/14 20:38	50
Dibromochloromethane	7.50	U	50.0	7.50	ug/L			12/23/14 20:38	50
Chlorobenzene	6.00	U	50.0	6.00	ug/L			12/23/14 20:38	50
Chloroethane	4.00	U	100	4.00	ug/L			12/23/14 20:38	50
Chloroform	6.50	U	50.0	6.50	ug/L			12/23/14 20:38	50
Chloromethane	9.00	U	100	9.00	ug/L			12/23/14 20:38	50
1,1-Dichloroethane	5.50	U	50.0	5.50	ug/L			12/23/14 20:38	50
1,2-Dichloroethane	7.00	U	50.0	7.00	ug/L			12/23/14 20:38	50
1,1-Dichloroethene	9.50	U	50.0	9.50	ug/L			12/23/14 20:38	50
trans-1,2-Dichloroethene	4.50	U	50.0	4.50	ug/L			12/23/14 20:38	50
1,2-Dichloropropane	8.00	U	50.0	8.00	ug/L			12/23/14 20:38	50
cis-1,3-Dichloropropene	9.00	U	50.0	9.00	ug/L			12/23/14 20:38	50
trans-1,3-Dichloropropene	10.5	U	50.0	10.5	ug/L			12/23/14 20:38	50
Ethylbenzene	**98.0**		50.0	5.50	ug/L			12/23/14 20:38	50
2-Hexanone	17.5	U	100	17.5	ug/L			12/23/14 20:38	50
Methylene Chloride	7.50	U	250	7.50	ug/L			12/23/14 20:38	50
4-Methyl-2-pentanone (MIBK)	22.5	U	100	22.5	ug/L			12/23/14 20:38	50
Styrene	3.50	U	50.0	3.50	ug/L			12/23/14 20:38	50
1,1,2,2-Tetrachloroethane	11.0	U	50.0	11.0	ug/L			12/23/14 20:38	50
Tetrachloroethene	6.50	U	50.0	6.50	ug/L			12/23/14 20:38	50
Toluene	**736**		50.0	7.50	ug/L			12/23/14 20:38	50
1,1,1-Trichloroethane	7.50	U	50.0	7.50	ug/L			12/23/14 20:38	50
1,1,2-Trichloroethane	14.0	U	50.0	14.0	ug/L			12/23/14 20:38	50
Trichloroethene	9.00	U	50.0	9.00	ug/L			12/23/14 20:38	50
Vinyl acetate	10.5	U	100	10.5	ug/L			12/23/14 20:38	50
Vinyl chloride	5.50	U	100	5.50	ug/L			12/23/14 20:38	50
o-Xylene	**250**		50.0	6.00	ug/L			12/23/14 20:38	50
m-Xylene & p-Xylene	**1320**		50.0	8.50	ug/L			12/23/14 20:38	50
Xylenes, Total	**1570**		50.0	13.0	ug/L			12/23/14 20:38	50
cis-1,2-Dichloroethene	3.00	U	50.0	3.00	ug/L			12/23/14 20:38	50
Bromodichloromethane	8.00	U	50.0	8.00	ug/L			12/23/14 20:38	50
1,2-Dichloroethene, Total	15.0	U	50.0	15.0	ug/L			12/23/14 20:38	50

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Client Sample ID: BLANCONFP-MW32-17122014
Date Collected: 12/17/14 13:30
Date Received: 12/18/14 11:28

Lab Sample ID: 600-103873-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130		12/23/14 20:38	50
Dibromofluoromethane	100		62 - 130		12/23/14 20:38	50
4-Bromofluorobenzene	104		67 - 139		12/23/14 20:38	50
1,2-Dichloroethane-d4 (Surr)	132		50 - 134		12/23/14 20:38	50

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(70-130)	(62-130)	(67-139)	(50-134)
600-103873-1	BLANCONFP-TB01-17122014	109	99	100	94
600-103873-2	BLANCONFP-MW33-17122014	106	104	99	108
600-103873-3	BLANCONFP-MD33-17122014	106	103	99	105
600-103873-4	BLANCONFP-MW23-17122014	105	96	103	93
600-103873-4 - DL	BLANCONFP-MW23-17122014	106	103	99	102
600-103873-5	BLANCONFP-MW32-17122014	106	100	104	132
LCS 600-152339/3	Lab Control Sample	112	112	100	99
LCS 600-152444/3	Lab Control Sample	106	107	97	96
LCSD 600-152339/4	Lab Control Sample Dup	111	111	100	100
LCSD 600-152444/4	Lab Control Sample Dup	105	108	95	98
MB 600-152339/8	Method Blank	107	103	100	101
MB 600-152444/6	Method Blank	106	102	99	104

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane
BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-152339/8
Matrix: Water
Analysis Batch: 152339

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.990	U	5.00	0.990	ug/L			12/23/14 14:14	1
Benzene	0.0800	U	1.00	0.0800	ug/L			12/23/14 14:14	1
Chlorobromomethane	0.180	U	1.00	0.180	ug/L			12/23/14 14:14	1
Bromoform	0.190	U	1.00	0.190	ug/L			12/23/14 14:14	1
Bromomethane	0.250	U	2.00	0.250	ug/L			12/23/14 14:14	1
2-Butanone (MEK)	0.760	U	2.00	0.760	ug/L			12/23/14 14:14	1
Carbon disulfide	0.240	U	2.00	0.240	ug/L			12/23/14 14:14	1
Carbon tetrachloride	0.150	U	1.00	0.150	ug/L			12/23/14 14:14	1
Dibromochloromethane	0.150	U	1.00	0.150	ug/L			12/23/14 14:14	1
Chlorobenzene	0.120	U	1.00	0.120	ug/L			12/23/14 14:14	1
Chloroethane	0.0800	U	2.00	0.0800	ug/L			12/23/14 14:14	1
Chloroform	0.130	U	1.00	0.130	ug/L			12/23/14 14:14	1
Chloromethane	0.180	U	2.00	0.180	ug/L			12/23/14 14:14	1
1,1-Dichloroethane	0.110	U	1.00	0.110	ug/L			12/23/14 14:14	1
1,2-Dichloroethane	0.140	U	1.00	0.140	ug/L			12/23/14 14:14	1
1,1-Dichloroethene	0.190	U	1.00	0.190	ug/L			12/23/14 14:14	1
trans-1,2-Dichloroethene	0.0900	U	1.00	0.0900	ug/L			12/23/14 14:14	1
1,2-Dichloropropane	0.160	U	1.00	0.160	ug/L			12/23/14 14:14	1
cis-1,3-Dichloropropene	0.180	U	1.00	0.180	ug/L			12/23/14 14:14	1
trans-1,3-Dichloropropene	0.210	U	1.00	0.210	ug/L			12/23/14 14:14	1
Ethylbenzene	0.110	U	1.00	0.110	ug/L			12/23/14 14:14	1
2-Hexanone	0.350	U	2.00	0.350	ug/L			12/23/14 14:14	1
Methylene Chloride	0.150	U	5.00	0.150	ug/L			12/23/14 14:14	1
4-Methyl-2-pentanone (MIBK)	0.450	U	2.00	0.450	ug/L			12/23/14 14:14	1
Styrene	0.0700	U	1.00	0.0700	ug/L			12/23/14 14:14	1
1,1,2,2-Tetrachloroethane	0.220	U	1.00	0.220	ug/L			12/23/14 14:14	1
Tetrachloroethene	0.130	U	1.00	0.130	ug/L			12/23/14 14:14	1
Toluene	0.150	U	1.00	0.150	ug/L			12/23/14 14:14	1
1,1,1-Trichloroethane	0.150	U	1.00	0.150	ug/L			12/23/14 14:14	1
1,1,2-Trichloroethane	0.280	U	1.00	0.280	ug/L			12/23/14 14:14	1
Trichloroethene	0.180	U	1.00	0.180	ug/L			12/23/14 14:14	1
Vinyl acetate	0.210	U	2.00	0.210	ug/L			12/23/14 14:14	1
Vinyl chloride	0.110	U	2.00	0.110	ug/L			12/23/14 14:14	1
o-Xylene	0.120	U	1.00	0.120	ug/L			12/23/14 14:14	1
m-Xylene & p-Xylene	0.170	U	1.00	0.170	ug/L			12/23/14 14:14	1
Xylenes, Total	0.260	U	1.00	0.260	ug/L			12/23/14 14:14	1
cis-1,2-Dichloroethene	0.0600	U	1.00	0.0600	ug/L			12/23/14 14:14	1
Bromodichloromethane	0.160	U	1.00	0.160	ug/L			12/23/14 14:14	1
1,2-Dichloroethene, Total	0.300	U	1.00	0.300	ug/L			12/23/14 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*70 - 130*		*12/23/14 14:14*	*1*
Dibromofluoromethane	*103*		*62 - 130*		*12/23/14 14:14*	*1*
4-Bromofluorobenzene	*100*		*67 - 139*		*12/23/14 14:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 134*		*12/23/14 14:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-152339/3
Matrix: Water
Analysis Batch: 152339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	28.49		ug/L		142	18 - 144
Benzene	10.0	9.603		ug/L		96	70 - 130
Chlorobromomethane	10.0	8.801		ug/L		88	58 - 130
Bromoform	10.0	7.788		ug/L		78	54 - 133
Bromomethane	10.0	6.034		ug/L		60	25 - 150
2-Butanone (MEK)	20.0	25.56		ug/L		128	41 - 141
Carbon disulfide	10.0	8.982		ug/L		90	55 - 150
Carbon tetrachloride	10.0	9.016		ug/L		90	70 - 144
Dibromochloromethane	10.0	7.796		ug/L		78	62 - 130
Chlorobenzene	10.0	8.804		ug/L		88	69 - 130
Chloroethane	10.0	9.759		ug/L		98	47 - 150
Chloroform	10.0	9.576		ug/L		96	70 - 130
Chloromethane	10.0	6.595		ug/L		66	10 - 150
1,1-Dichloroethane	10.0	9.289		ug/L		93	70 - 140
1,2-Dichloroethane	10.0	9.217		ug/L		92	67 - 134
1,1-Dichloroethene	10.0	9.657		ug/L		97	58 - 148
trans-1,2-Dichloroethene	10.0	9.252		ug/L		93	68 - 131
1,2-Dichloropropane	10.0	9.825		ug/L		98	70 - 130
cis-1,3-Dichloropropene	10.0	9.356		ug/L		94	57 - 130
trans-1,3-Dichloropropene	10.0	7.999		ug/L		80	60 - 130
Ethylbenzene	10.0	8.945		ug/L		89	70 - 130
2-Hexanone	20.0	21.15		ug/L		106	56 - 130
Methylene Chloride	10.0	8.976		ug/L		90	55 - 147
4-Methyl-2-pentanone (MIBK)	20.0	21.56		ug/L		108	62 - 136
Styrene	10.0	9.046		ug/L		90	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.431		ug/L		94	58 - 133
Tetrachloroethene	10.0	8.610		ug/L		86	47 - 150
Toluene	10.0	9.289		ug/L		93	70 - 130
1,1,1-Trichloroethane	10.0	9.836		ug/L		98	70 - 136
1,1,2-Trichloroethane	10.0	9.384		ug/L		94	70 - 130
Trichloroethene	10.0	9.173		ug/L		92	70 - 130
Vinyl acetate	20.0	21.28		ug/L		106	10 - 150
Vinyl chloride	10.0	8.683		ug/L		87	33 - 150
o-Xylene	10.0	8.926		ug/L		89	70 - 130
m-Xylene & p-Xylene	10.0	9.089		ug/L		91	70 - 130
Xylenes, Total	20.0	18.02		ug/L		90	70 - 130
cis-1,2-Dichloroethene	10.0	9.472		ug/L		95	68 - 130
Bromodichloromethane	10.0	9.712		ug/L		97	70 - 131
1,2-Dichloroethene, Total	20.0	18.72		ug/L		94	69 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*112*		*70 - 130*
Dibromofluoromethane	*112*		*62 - 130*
4-Bromofluorobenzene	*100*		*67 - 139*
1,2-Dichloroethane-d4 (Surr)	*99*		*50 - 134*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-152339/4
Matrix: Water
Analysis Batch: 152339

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	20.0	24.83		ug/L		124	18 - 144	14	20
Benzene	10.0	10.36		ug/L		104	70 - 130	8	20
Chlorobromomethane	10.0	10.00		ug/L		100	58 - 130	13	20
Bromoform	10.0	9.339		ug/L		93	54 - 133	18	20
Bromomethane	10.0	6.123		ug/L		61	25 - 150	1	20
2-Butanone (MEK)	20.0	27.95		ug/L		140	41 - 141	9	20
Carbon disulfide	10.0	9.860		ug/L		99	55 - 150	9	20
Carbon tetrachloride	10.0	10.12		ug/L		101	70 - 144	12	20
Dibromochloromethane	10.0	8.869		ug/L		89	62 - 130	13	20
Chlorobenzene	10.0	9.925		ug/L		99	69 - 130	12	20
Chloroethane	10.0	10.16		ug/L		102	47 - 150	4	20
Chloroform	10.0	10.47		ug/L		105	70 - 130	9	20
Chloromethane	10.0	7.415		ug/L		74	10 - 150	12	20
1,1-Dichloroethane	10.0	10.26		ug/L		103	70 - 140	10	20
1,2-Dichloroethane	10.0	10.33		ug/L		103	67 - 134	11	20
1,1-Dichloroethene	10.0	9.984		ug/L		100	58 - 148	3	20
trans-1,2-Dichloroethene	10.0	10.44		ug/L		104	68 - 131	12	20
1,2-Dichloropropane	10.0	10.58		ug/L		106	70 - 130	7	20
cis-1,3-Dichloropropene	10.0	10.77		ug/L		108	57 - 130	14	20
trans-1,3-Dichloropropene	10.0	9.263		ug/L		93	60 - 130	15	20
Ethylbenzene	10.0	9.960		ug/L		100	70 - 130	11	20
2-Hexanone	20.0	24.02		ug/L		120	56 - 130	13	20
Methylene Chloride	10.0	10.22		ug/L		102	55 - 147	13	20
4-Methyl-2-pentanone (MIBK)	20.0	25.50		ug/L		127	62 - 136	17	20
Styrene	10.0	10.21		ug/L		102	70 - 130	12	20
1,1,2,2-Tetrachloroethane	10.0	10.68		ug/L		107	58 - 133	12	20
Tetrachloroethene	10.0	9.422		ug/L		94	47 - 150	9	20
Toluene	10.0	10.26		ug/L		103	70 - 130	10	20
1,1,1-Trichloroethane	10.0	11.10		ug/L		111	70 - 136	12	20
1,1,2-Trichloroethane	10.0	10.65		ug/L		106	70 - 130	13	20
Trichloroethene	10.0	10.14		ug/L		101	70 - 130	10	20
Vinyl acetate	20.0	24.90		ug/L		124	10 - 150	16	20
Vinyl chloride	10.0	9.013		ug/L		90	33 - 150	4	20
o-Xylene	10.0	9.722		ug/L		97	70 - 130	9	20
m-Xylene & p-Xylene	10.0	9.898		ug/L		99	70 - 130	9	20
Xylenes, Total	20.0	19.62		ug/L		98	70 - 130	9	20
cis-1,2-Dichloroethene	10.0	10.26		ug/L		103	68 - 130	8	20
Bromodichloromethane	10.0	11.16		ug/L		112	70 - 131	14	20
1,2-Dichloroethene, Total	20.0	20.70		ug/L		104	69 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*111*		*70 - 130*
Dibromofluoromethane	*111*		*62 - 130*
4-Bromofluorobenzene	*100*		*67 - 139*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 134*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-152444/6
Matrix: Water
Analysis Batch: 152444

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0800	U	1.00	0.0800	ug/L			12/24/14 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/24/14 15:43*	*1*
Dibromofluoromethane	*102*		*62 - 130*		*12/24/14 15:43*	*1*
4-Bromofluorobenzene	*99*		*67 - 139*		*12/24/14 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*50 - 134*		*12/24/14 15:43*	*1*

Lab Sample ID: LCS 600-152444/3
Matrix: Water
Analysis Batch: 152444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			10.0	9.146		ug/L		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*70 - 130*
Dibromofluoromethane	*107*		*62 - 130*
4-Bromofluorobenzene	*97*		*67 - 139*
1,2-Dichloroethane-d4 (Surr)	*96*		*50 - 134*

Lab Sample ID: LCSD 600-152444/4
Matrix: Water
Analysis Batch: 152444

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	10.33		ug/L		103	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*70 - 130*
Dibromofluoromethane	*108*		*62 - 130*
4-Bromofluorobenzene	*95*		*67 - 139*
1,2-Dichloroethane-d4 (Surr)	*98*		*50 - 134*

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 600-152859/4
Matrix: Water
Analysis Batch: 152859

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0170	U	0.0500	0.0170	mg/L			12/31/14 17:35	1

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 600-152859/5
Matrix: Water
Analysis Batch: 152859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.9934		mg/L		99	90 - 110

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

GC/MS VOA

Analysis Batch: 152339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-103873-1	BLANCONFP-TB01-17122014	Total/NA	Water	8260B	
600-103873-2	BLANCONFP-MW33-17122014	Total/NA	Water	8260B	
600-103873-3	BLANCONFP-MD33-17122014	Total/NA	Water	8260B	
600-103873-4	BLANCONFP-MW23-17122014	Total/NA	Water	8260B	
600-103873-5	BLANCONFP-MW32-17122014	Total/NA	Water	8260B	
LCS 600-152339/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-152339/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 600-152339/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 152444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-103873-4 - DL	BLANCONFP-MW23-17122014	Total/NA	Water	8260B	
LCS 600-152444/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-152444/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 600-152444/6	Method Blank	Total/NA	Water	8260B	

General Chemistry

Analysis Batch: 152859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-103873-2	BLANCONFP-MW33-17122014	Total/NA	Water	353.2	
600-103873-3	BLANCONFP-MD33-17122014	Total/NA	Water	353.2	
LCS 600-152859/5	Lab Control Sample	Total/NA	Water	353.2	
MB 600-152859/4	Method Blank	Total/NA	Water	353.2	

Lab Chronicle

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Client Sample ID: BLANCONFP-TB01-17122014

Lab Sample ID: 600-103873-1

Date Collected: 12/17/14 12:05

Matrix: Water

Date Received: 12/18/14 11:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	152339	12/23/14 18:57	PXS	TAL HOU

Client Sample ID: BLANCONFP-MW33-17122014

Lab Sample ID: 600-103873-2

Date Collected: 12/17/14 12:10

Matrix: Water

Date Received: 12/18/14 11:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	152339	12/23/14 19:47	PXS	TAL HOU
Total/NA	Analysis	353.2		50	5 mL	5 mL	152859	12/31/14 17:54	KRD	TAL HOU

Client Sample ID: BLANCONFP-MD33-17122014

Lab Sample ID: 600-103873-3

Date Collected: 12/17/14 12:20

Matrix: Water

Date Received: 12/18/14 11:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	152339	12/23/14 19:22	PXS	TAL HOU
Total/NA	Analysis	353.2		50	5 mL	5 mL	152859	12/31/14 17:55	KRD	TAL HOU

Client Sample ID: BLANCONFP-MW23-17122014

Lab Sample ID: 600-103873-4

Date Collected: 12/17/14 13:05

Matrix: Water

Date Received: 12/18/14 11:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	20 mL	20 mL	152339	12/23/14 20:13	PXS	TAL HOU
Total/NA	Analysis	8260B	DL	1000	20 mL	20 mL	152444	12/24/14 16:09	PXS	TAL HOU

Client Sample ID: BLANCONFP-MW32-17122014

Lab Sample ID: 600-103873-5

Date Collected: 12/17/14 13:30

Matrix: Water

Date Received: 12/18/14 11:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	20 mL	20 mL	152339	12/23/14 20:38	PXS	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: CH2M Hill Constructors, Inc.
Project/Site: Kinder Morgan Bloomfield, NM NFP

TestAmerica Job ID: 600-103873-1

Laboratory: TestAmerica Houston

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0759	08-04-15
Louisiana	NELAP	6	30643	06-30-15
Oklahoma	State Program	6	1309	08-31-15
Texas	NELAP	6	T104704223	10-31-15
USDA	Federal		P330-14-00192	06-06-17
Utah	NELAP	8	TX00083	11-30-15

TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: AForsberg	Lab PM: Upton, Cathy L	Carrier Tracking No(s): FedEx 6250 7339 1335 12	COC No: 600-32774-10949.1
Client Contact: Aleeca Forsberg	Phone: 505 915 1800	E-Mail: cathy.upton@testamericainc.com		Page: Page 1 of 1
Company: CH2M Hill, Inc.				Job #:
Address: 3721 Rutledge Road NE Suite B-1	Due Date Requested:			
City: Albuquerque	TAT Requested (days): Std			
State, Zip: NM, 87109				
Phone: 505-855-5239(Tel)	PO #: Purchase Order Requested			
Email: Aleeca.Forsberg@CH2M.com	WO #:			
Project Name: Kinder Morgan Bloomfield, NM NFP	Project #: 60004617			
Site: Blanco North Flare Pit	SSOW#:			

600-103873 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - PPL List	353.2_Pres - Nitrate Nitrite as N	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A			
BLANCONFP-TB01-17122014	12/17/14	1205	G	Water	N	N	X		2	TRIP BLANK
BLANCONFP-MW33-17122014	"	1210	G	Water	N	N	X	X	4	
BLANCONFP-MD33-17122014	"	1220	G	Water	N	N	X	X	4	
BLANCONFP-MW23-17122014	"	1305	G	Water	N	N	X		3	
BLANCONFP-MW32-17122014	"	1330	G	Water	N	N	X		3	
			G	Water	N	N				
			G	Water	N	N				
			G	Water	N	N				

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Codes:
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
Other:

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		12/17/14 1300	CH2M	FedEx 6250 7339 1335 12		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					12/18/14 1128	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica Houston

Sample Recei Loc: 600 103873

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Date/Time Received:

JOB NUMBER: _____ CLIENT: CH2MHill

UNPACKED BY: [signature] CARRIER/DRIVER: FedEx

Custody Seal Present: ☑ YES ☐ NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Them CF	Corrected Temp (°C)
(1) RW	Y / N	Y / N	5.4	1006	-0.8	4.6
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑ NO ☐ YES

Base samples are>pH 12: ☐ YES ☐ NO Acid preserved are<pH 2: ☐ YES ☐ NO

pH paper Lot #_____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☑ NA

	YES	NO
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓	

COMMENTS:

Login Sample Receipt Checklist

Client: CH2M Hill Constructors, Inc.

Job Number: 600-103873-1

Login Number: 103873

List Source: TestAmerica Houston

List Number: 1

Creator: Crafton, Tommie S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.