GROUNDWATER MONITORING REPORT

CIRCLE K STORE #2706042
10171 U.S. HIGHWAY 12
NACHES, WASHINGTON 98937

SAMPLING DATE: DECEMBER 2, 2016

PREPARED FOR:

CIRCLE K STORES INC.
255 EAST RINCON, STE. 100
CORONA, CALIFORNIA 92879

SUBMITTED TO:

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
1250 ALDER STREET
UNION GAP, WASHINGTON 98903

PREPARED BY:

18011 SKY PARK CIRCLE, STE. H
IRVINE, CALIFORNIA 92614

BLAES PROJECT #202-06042-04

DECEMBER 15, 2016

This *Groundwater Monitoring Report* has been prepared by Blaes Environmental Management, Inc. for the exclusive use of Circle K Stores Inc. as it pertains to Circle K Store #2706042 located at 10171 U.S. Highway 12 in Naches, Washington. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists, engineers, and environmental consultants practicing in this field. No other warranty, express or implied, is made as to the professional advice in this report. *Any use of or reliance on this report by a third party shall be at such a party's sole risk.*

Blaes Environmental Management, Inc. can offer no assurances and assumes no responsibility for site conditions or activities outside the scope of the inquiry requested by Circle K Stores Inc. as outlined in this document. It should be understood by all parties that Blaes Environmental Management, Inc. has relied on the accuracy of documents, oral information, and other materials, services, and information provided by Circle K Stores Inc., subcontractors, and other associated parties. Any subsequent modification, revision or verification of this report must be provided in writing by Blaes Environmental Management, Inc.

All work associated with this project will be performed under the supervision of a State of Washington Licensed Geologist/Hydrogeologist.

Prepared By:
Blaes Environmental Management, Inc.

Daniel M. Blaes, L.G.
President/Principal Geologist
Washington Geologist/Hydrogeologist #2158

Blaes Project #202-06042-04

December 15, 2016

TABLE OF CONTENTS

1.0 INTRODUCTION

This groundwater monitoring report was prepared by Blaes Environmental Management, Inc. (Blaes Environmental), on behalf of Circle K Stores Inc. (Circle K) for Circle K Store #2706042 located at 10171 U.S. Highway 12 in Naches, Washington (Figure 1). This periodic groundwater monitoring program was conducted following a detection of petroleum hydrocarbon constituents in 2013 near the intersection of Naches Avenue and Highway 12.

In December 2016, Blaes Environmental conducted another groundwater monitoring event at the site using all eight groundwater monitoring wells (including the four new monitoring wells installed at the site in June 2016). The sampling event involved: (1) measuring the depth to groundwater in seven of the eight monitoring wells; (2) collecting a groundwater sample from each well; and (3) analyzing each groundwater sample at an analytical laboratory for petroleum constituents.

The data from this event was compared to the data from the July and August 2016 groundwater sampling events as a continued evaluation of the effectiveness of the short pilot test remediation feasibility event conducted during this last summer. Although there was a small increase (rebound) in several hydrocarbon constituents, significantly lower concentrations have remained following the short-term vapor extraction and air sparging pilot test conducted last summer. The following sections of this report include the description of the procedures and findings of the December 2016 groundwater monitoring event.

2.0 BACKGROUND INFORMATION

This section presents information regarding the site and provides a summary of the site background. The information was obtained from public records, the project files of Blaes Environmental, and the records of Circle K.

2.1 SITE LOCATION AND LAND USE

The property is located on the northwest corner of the intersection of Naches Avenue and Highway 12 in Naches, Washington. The property is within Section 4, Township 14 North, Range 17 East of the Naches Washington U.S. Geological Survey 7 ½ -minute Topographic Quadrangle. The property consists of a concrete and asphalt-paved lot with one existing single-story building (the Circle K Store) and three product dispensers. The site features are shown on the Site Plan in Figure 2. Global Positioning System (GPS) readings locate the site at approximately latitude 46 degrees, 43 minutes, 43.32 seconds North and longitude 210 degrees, 42 minutes, 01.73 seconds West as measured on Google Earth 2013.

The area surrounding the site consists of a mixture of commercial businesses and residential development. Commercial businesses are located southeast, west, and east-southeast of the site. Residential development is located south (across Highway 12), immediately north, and east (across the Naches Avenue), of the site.

2.2 SITE PHYSIOGRAPHY

The property lies at an elevation of approximately 1468 feet above Mean Sea Level (Google Earth 2013). Natural surface drainage in the area is towards the south-southwest towards the Naches River (U.S. Geological Survey 7 ½ -minute Topographic Quadrangle). On-site drainage is predominantly away from the building, towards the storm drains, to the north and east and east to Naches Avenue.

2.3 SITE LITHOLOGY AND DEPTH TO GROUNDWATER

The soil types in the immediate vicinity consists of Naches River Deposits. These deposits are composed of brown sandy loam with approximately 80 percent gravel, cobbles, and boulders up to approximately two feet (2) in diameter. The highly coarse soils extend to a depth of at least 25 feet below the ground surface. The soils in the lower part of the zone contain some clay.

Groundwater was encountered within the tank pit at approximately 11 feet below the ground surface in 1992 and logs of wells in the area also show the water level to be between 11 and 13 feet below the ground surface depending on the season of year. Groundwater was encountered at a depth of approximately 9 to 11 feet below the ground surface within the wells samples during this investigation. Groundwater flow is predominantly toward the south at the site.

2.4 SENSITIVE RECEPTORS

The Naches River is approximately 1,500 feet south of the site and the open irrigation ditch (trending approximately north-south) is approximately 75 feet east of the site. There are no additional surface water bodies or wetlands within one-mile of the site. Residences are located directly north of the site, across Naches Avenue to the east, and across U.S. Highway 12 to the south of the site.

The Naches Valley Middle School is located approximately 1,287 feet east-northeast of the site. The Naches Valley Intermediate School is located approximately 1,689 feet east-northeast of the site. The Naches Valley High School is located approximately 2,914 feet north-northwest of the site.

2.5 PREVIOUS INVESTIGATIONS

2.5.1 Limited Site Check: 1992

Previous investigations conducted at the site included a limited site check and sampling program in 1992 at the former Naches Chevron Facility. The investigation indicated gasoline range organics (GRO) in soil and GRO and lead in groundwater, adjacent to the former supreme unleaded gasoline UST, in excess of WDOE "Method A Clean-Up Levels". An Interim Status Report was prepared and submitted to the WDOE by Sage Earth Sciences, Inc. in October 1992. After the leak had been repaired the excavation was reportedly left open for approximately 15 months and then backfilled around the existing USTs.

2.5.2 UST Removal: 1998

In 1994 the three existing USTs were removed and replaced with fiberglass USTs. Subsequent soil and groundwater sampling during the tank removal revealed GRO in the groundwater beneath the site. Concentrations of soluble lead were not found in the soil sample collected at the site. The groundwater sample was not analyzed for soluble lead during this program. A UST Closure Site Assessment & Interim Remediation Report was prepared and submitted to the WDOE by White Shield, Inc. in March 1994.

2.5.3 WDOE Correspondence 1998-2001

In October 1998 the property owner, Mr. Mike Abhold, contacted WDOE indicating that he "believes that natural attenuation mechanisms have cleaned the residual groundwater at this site" and he wanted input from WDOE. WDOE responded to Mr. Abhold indicating that "groundwater samples to confirm natural attenuation and a site cleanup report" would be required. In 2001 the UST file was reviewed by Mr. Brian T. Deeken with WDOE and it was determined that there had been no change of status at the site since 1998. Based on this file review, Mr. John Mefford, L.G. the current WDOE manager for this site contacted Circle K (following the purchase of the site from Sun Pacific Energy) asking for the current site status.

2.5.4 Site Characterization Activities

Circle K contracted Blaes Environmental to conduct a program to determine if groundwater beneath the site had been impacted by petroleum hydrocarbons. The program included drilling and installation of four groundwater monitoring wells and collection and analyses of groundwater samples and the preparation of the October 2013 Site Characterization Report documenting the activities. Cascade Drilling of Woodinville, Washington was contracted to drill the soil borings for the four wells using a hollow-stem auger drilling rig. The boreholes were drilled on July 22 and 23, 2013 to depths ranging from approximately 14 feet below the ground surface (MW-3) to approximately 15' below the ground surface (MW-1) before large cobbles triggered auger refusal.

A total of five soil samples (one from wells MW-2, MW-3, and MW-1 and two from MW-1) were collected during the site characterization program and delivered by Blaes Environmental, under proper chain-of-custody record, to Test America in Seattle, Washington. Soil samples from the soil borings were analyzed for NWTPH-GX (GRO), NWTPH-DX (DRO), and for VOCs including Benzene, Toluene, Ethylbenzene, & Total Xylenes (BTEX), fuel oxygenates including methyl-tert butyl ether (MTBE), and ethylene dibromide (EDB) according to EPA Method 8260. Laboratory analytical results indicated concentrations of m-Xylenes & p-Xylenes (3.4 ug/Kg) and 1,2,4-Trimethylbenzene above laboratory reporting limits in the soil sample collected from the boring at MW-3 near the intersection. No other detectable concentrations of GRO, DRO, BTEX, VOC, or EDB were found in any other soil sample.

2.5.5 Groundwater Monitoring and Sampling

On August 18, 2013 Blaes Environmental conducted a groundwater monitoring and sampling event within the newly installed wells. The groundwater monitoring and sampling event consisted of three

tasks: 1) measuring the depth to groundwater in the wells; 2) purging water from each well using a low-flow device and collecting a groundwater sample; and 3) analyzing the groundwater samples at a State of Washington certified analytical laboratory. A copy of the report entitled *Site Characterization Report*, prepared by Blaes Environmental, dated October 31, 2013, is on file with WDOE.

On August 8, 2014, Blaes Environmental conducted a groundwater monitoring and sampling event within the four groundwater monitoring wells at the site (MW-1, MW-2, MW-3, and MW-4). The groundwater monitoring and sampling event consisted of three tasks: 1) measuring the depth to groundwater in the wells; 2) purging water from each well using low-flow pump and collecting a groundwater sample from each well; and 3) analyzing the groundwater samples at a State of Washington certified analytical laboratory. A copy of the report entitled *Groundwater Monitoring Report*, prepared by Blaes Environmental, dated August 25, 2014, is on file with WDOE.

On December 10, 2014, Blaes Environmental conducted a groundwater monitoring and sampling event within the four groundwater monitoring wells at the site (MW-1, MW-2, MW-3, and MW-4). The groundwater monitoring and sampling event consisted of three tasks: 1) measuring the depth to groundwater in the wells; 2) purging water from each well using low-flow pump and collecting a groundwater sample from each well; and 3) analyzing the groundwater samples at a State of Washington certified analytical laboratory. A copy of the report entitled *Groundwater Monitoring Report*, prepared by Blaes Environmental, dated December 31, 2014, is on file with WDOE.

On May 28, 2015, Blaes Environmental conducted another groundwater monitoring and sampling event within the four groundwater monitoring wells at the site (MW-1, MW-2, MW-3, and MW-4). The groundwater monitoring and sampling event consisted of three tasks: 1) measuring the depth to groundwater in the wells; 2) grabbing a groundwater sample from each well without purging; and 3) analyzing the groundwater samples at a State of Washington certified analytical laboratory. A copy of the report entitled *Groundwater Monitoring Report*, prepared by Blaes Environmental, dated June 8, 2015, is on file with WDOE.

On November 12, 2015, Blaes Environmental conducted a groundwater monitoring and sampling event within the four groundwater monitoring wells at the site (MW-1, MW-2, MW-3, and MW-4). The groundwater monitoring and sampling event consisted of three tasks: (1) measuring the depth to groundwater in the wells, and (2) analyzing the groundwater samples at a State of Washington certified

analytical laboratory. A copy of the report entitled *Groundwater Monitoring Report*, prepared by Blaes Environmental, dated December 21, 2015, is on file with WDOE.

2.5.6 Additional Groundwater Monitoring and Remediation Well Installation

In June 2016, Blaes Environmental, in conjunction with Cascade Drilling of Federal Way, Washington installed four additional groundwater monitoring wells and 11 air sparge remediation wells at the site. The objective of the additional monitoring wells was to further understand the lateral distribution of petroleum hydrocarbon concentrations under the property. The objective of the air sparge wells was to provide a remediation mechanism to start reducing the volatile hydrocarbon constituents at the site.

The four new groundwater monitoring wells (MW-5, MW-6, MW-7, and MW-8) were each drilled to a depth of approximately 25 feet below the ground surface using a sonic drilling rig. Each 2-inch diameter PVC monitoring well was screened from approximately 5 feet to 25 feet below the ground surface. The 11 new air sparge remediation wells were each drilled to a depth of approximately 25 feet below the ground surface using a sonic drilling rig. Each 2-inch diameter PVC monitoring well was screened from approximately 20 feet to 25 feet below the ground surface. The location of each new well is shown on the Site Plan in Figure 2. Additional data from this well installation program will be submitted in a separate report.

2.5.7 Additional Groundwater Monitoring and Sampling

In August 2016, an additional groundwater sampling event was conducted to evaluate the site conditions following the installation of the four new groundwater monitoring wells and following the short-term vapor extraction and air sparge program. The results of the sampling event were submitted to WDOE in a report dated September 29, 2016. The results of the August 2016 sampling event showed that the petroleum hydrocarbons in groundwater remained relatively low compared to results from past years. The remaining hydrocarbon concentrations in groundwater lie predominantly in the southeast corner of the site near the street intersection.

2.5.8 Soil Vapor Extraction and Groundwater Air Sparge Pilot Test Event

In August 2016, during a scheduled addition of diesel fuel and fuel system repipe project the site by Circle K, Blaes Environmental conducted a soil vapor extraction and groundwater air sparging remediation pilot test event at the site. The objective of the pilot test program was to evaluate whether or not petroleum hydrocarbon concentrations in the vadose zone soil and in the groundwater saturated

zone could be significantly reduced in the southeast part of the site without installing a full fixed-based remediation system. The program utilized a mobile trailer-mounted all-electric catalytic oxidizer (powered by its own diesel generator) to extract and treat soil vapor and a mobile air sparge compressor (powered by a separate diesel generator) to inject air. All of the equipment was located near the corner of the intersection. Select monitoring wells were used as the vapor extraction points and many of the new air sparge wells were used to inject air into the groundwater during the test.

The air sparge test was conducted from August 15, 2016 to August 26, 2016. The vapor extraction test was completed near the end of the air sparge test from August 24, 2016 to August 26, 2016 in part to recover vapors from the previous days of sparge testing. During both feasibility tests, Blaes Environmental recorded system parameters and monitored the uptime of each system. Additional details from this pilot test program will be presented in a separate pilot test report.

3.0 GROUNDWATER MONITORING PROGRAM

A groundwater monitoring and sampling event was conducted at the site in December 2016 by personnel from Blaes Environmental. The objective of the program was to evaluate the groundwater conditions at the site following the completion of the air sparge and vapor extraction pilot test event. The data from this event was compared to the data from the July 2016 sampling event (before the pilot test) and to the data from the August 2016 sampling event (after the pilot test) as a method to determine the effectiveness of the remediation technologies and the approach. Details of the December 2016 sampling event are provided in the following sections.

3.1 GROUNDWATER MONITORING AND SAMPLING

On December 2, 2016, Blaes Environmental conducted the groundwater monitoring and sampling event within the four previously existing groundwater monitoring wells at the site (MW-1, MW-2, MW-3, and MW-4) and four new groundwater monitoring wells (MW-5, MW-6, MW-7 and MW-8). The event consisted of three tasks: (1) measuring the depth to groundwater in seven of the eight wells, and (2) analyzing the groundwater samples from each well at a State of Washington certified analytical laboratory. A description of each task is presented in the following sections.

3.1.1 Groundwater Depth Measurements and Gradient

The depth to groundwater in monitoring wells MW-1, 2, 3, 4, 5, 7, and 8 was measured to the nearest 0.01 foot using a groundwater level indicator. The depth to groundwater was not measured in MW-6 because of a process error in the sampling protocol. Depths to water ranged from 10.17 feet (MW-8) to 11.93 feet (MW-4) and averaged 11.01 feet across the site. The water level measurement probe was washed with a Liquinox™ solution and rinsed with tap water before and after each groundwater depth measurement to prevent cross contamination. A summary of the depth to water/elevation data from the December 2, 2016 sampling event is included in Table 1. The field data sheets showing the depth to groundwater measurements are included in Appendix A.

The depth to groundwater was measured from a permanent mark on the top of the uncapped PVC well casing. Using the elevation of the well casing at that same mark, Blaes Environmental calculated the elevation of groundwater in the well during the monitoring event by subtracting the measured depth to groundwater within the well from the surveyed wellhead elevation. On December 2, 2016, the average groundwater elevation at the site was 1455.19 feet.

The groundwater flow direction was to the south at a gradient of approximately 0.0094 feet/foot. A diagram of the groundwater flow direction and gradient is presented in Figure 3. A hydrograph of groundwater elevations is presented in Figure 4.

3.1.2 Groundwater Sample Collection

The wells were not purged during this sampling event because Circle K wanted to compare directly to the groundwater data from the recent July and August 2016 events (that also was not a purged sample event). A groundwater grab sample was collected from each groundwater monitoring well to evaluate the current dissolved petroleum hydrocarbon concentrations in the groundwater. The groundwater samples were placed into laboratory supplied sample containers. The sample containers were sealed with Teflon lined caps, labeled, and placed on ice in a cooler. A written record of the sample was entered onto a chain-of-custody document for transport to the analytical laboratory.

3.1.3 Groundwater Laboratory Analyses

The groundwater samples were delivered to Test America in Fife, Washington for laboratory analyses. The groundwater samples were analyzed for Total Petroleum Hydrocarbons gasoline range organics using method NWTPH-GX; for full list VOCs according to EPA Method 8260B including EDB and EDC. A copy of the groundwater laboratory analytical report is included in Appendix B.

3.1.4 Groundwater Analytical Results

Laboratory analysis of the groundwater samples collected from MW-3 on August 30, 2016 indicated concentrations were NWTPH-gas (10,000 ug/L), Benzene (150 ug/L), Toluene (25 ug/L), Ethylbenzene (510 ug/L), Xylenes (1,480 ug/L), Naphthalene (350 ug/L), 1,2,4-Trimethylbenzene (2,400 ug/L), 1,3,5-Trimethylbenzene (540 ug/L), Isopropyltoluene (15 ug/L), Isopropylbenzene (84 ug/L), n-Butylbenzene (430 ug/L), and N-Propylbenzene (290 ug/L). None of the other seven groundwater monitoring wells had laboratory detections of the hydrocarbon constituents. The laboratory analytical results of the groundwater samples are summarized in Table 2.

4.0 RESULTS AND CONCLUSIONS

Based on the analytical results from the groundwater samples collected on December 2, 2016, Blaes Environmental confirms a continued impact to groundwater with petroleum hydrocarbon constituents on the southeastern portion of the site. The groundwater concentrations of petroleum hydrocarbon constituents found in the well MW-3 during this event were still dramatically lower during the December 2016 event compared with the July 2016 sampling event. Several hydrocarbon constituents did rebound up from the August 2016 groundwater sampling event. The new estimated lateral extent of Benzene above MTCA Method A Cleanup Standards in groundwater is shown in Figure 5.

These latest groundwater laboratory results indicate that groundwater air sparging and soil vapor extraction was an effective remediation technologies for this site. Further, the use of short-term targeted treatment events at the site (using select wells during each event) will meet the long-term remediation goals while avoiding the costly and time consuming need to install a fixed-based remediation system.

The next groundwater monitoring event is scheduled for the end of May or early June 2017. The next short-term air sparge and vapor extraction event is planned for June 2017.

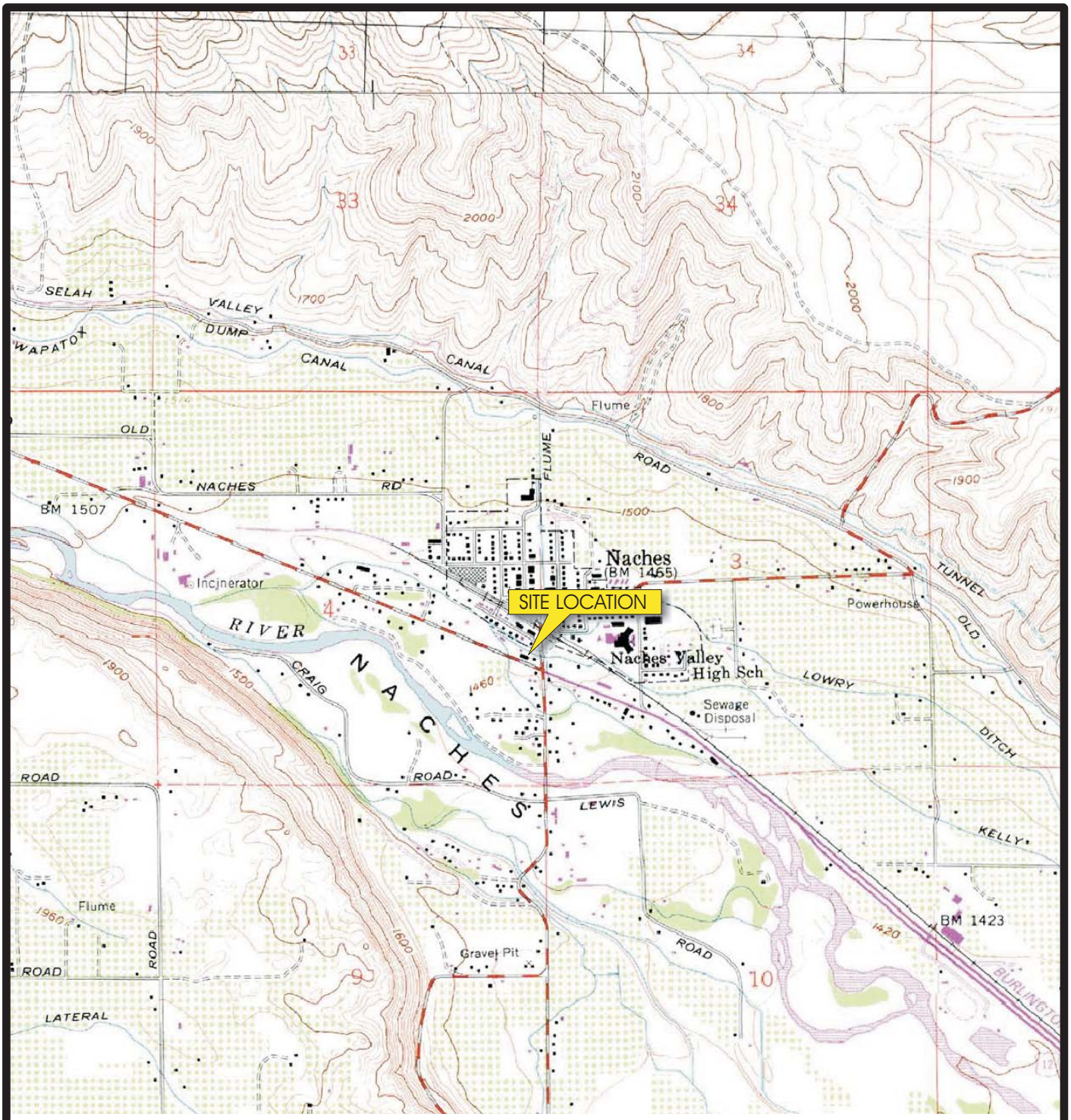
5.0 REFERENCES

White Shield Inc., 1994, UST Closure Site Assessment & Interim Remediation, 47 pg.

Sage Earth Sciences, Inc., 1992, Interim Status Report for a Limited Site Check and Petroleum Contaminated Soil Removal Activities, 36 pg.

Lasmanis, Raymond, 1991, The geology of Washington: Rocks and Minerals, v. 66, no. 4, p. 262-277. © Copyright Heldref Publications (Helen Dwight Reid Educational Foundation).

FIGURES



Source: MapTech Terrain Navigator Naches Quadrangle, 7.5 Minute Topographic Series, 1978

QUADRANGLE LOCATION

Approximate Scale
1:24,000
1 inch = 2000 feet

0 1000 2000 3000 4000

Contour Interval = 20 feet

SITE LOCATION: T14N, R17E, Section 4
46° 43′ 43.23″ North Latitude; 120° 42′ 03.07″ West Longitude

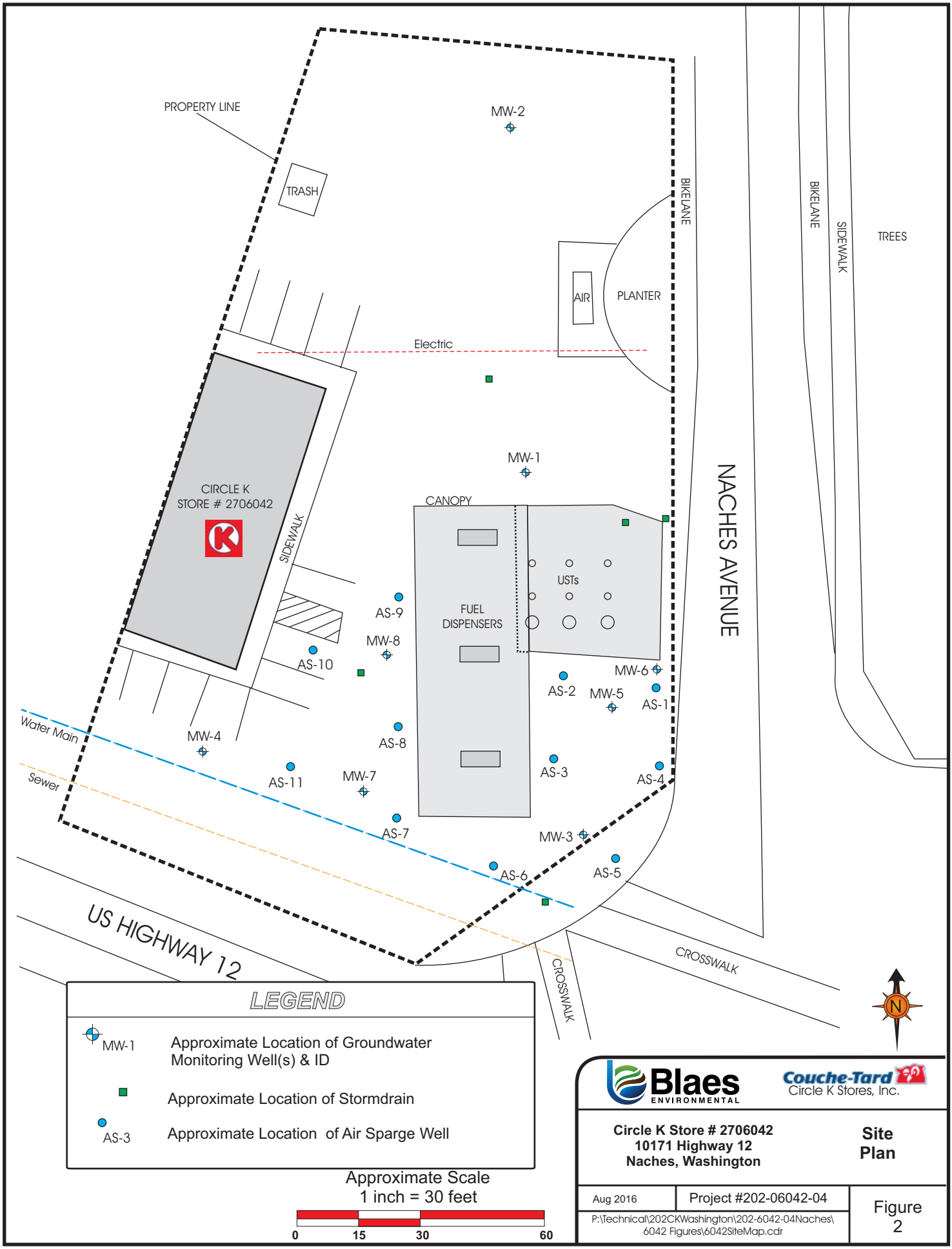
Blaes ENVIRONMENTAL
Couche-Tard
Circle K Stores, Inc.

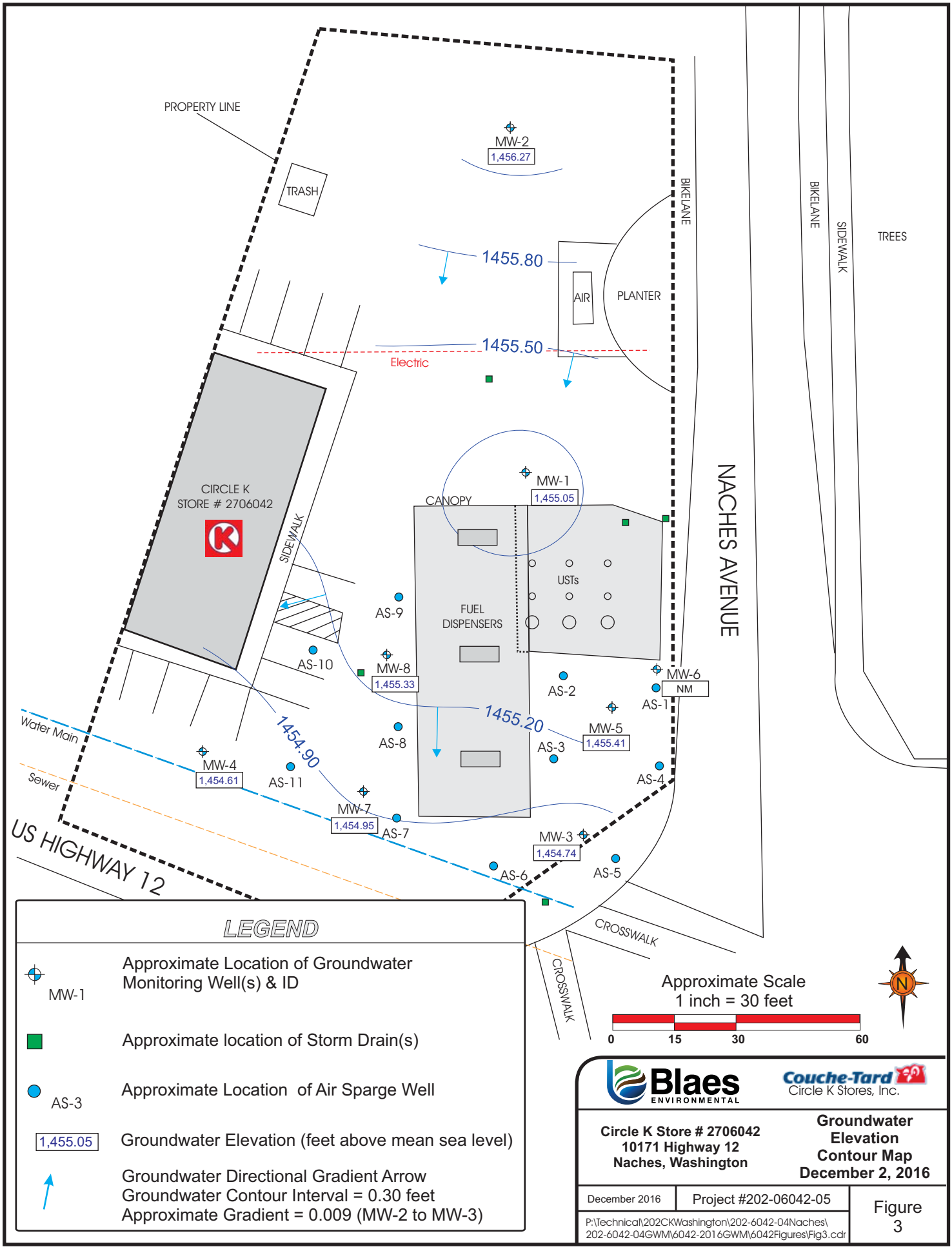
Circle K Store 2706042
(Former Sunmart #21)
10171-10173 Highway 12
Naches, WA

SITE LOCATION MAP

April 2013	Project #202-06042-02	Figure 1

P:\Technical\202CK-WA\202-06042-02 Naches\Graphics\SLM.cdr


PROPERTY LINE
MW-2
TRASH
BIKELANE
BIKELANE
SIDEWALK
TREES
AIR
PLANTER
Electric
MW-1
CIRCLE K
STORE # 2706042
SIDEWALK
CANOPY
NACHES AVENUE
USTs
FUEL
DISPENSERS
AS-9
MW-8
AS-10
MW-6
AS-2
MW-5
AS-1
Water Main
MW-4
AS-8
Sewer
AS-11
MW-7
AS-3
AS-4
AS-7
MW-3
AS-6
AS-5
US HIGHWAY 12
CROSSWALK
CROSSWALK
N
LEGEND
MW-1
Approximate Location of Groundwater Monitoring Well(s) & ID
Approximate Location of Stormdrain
AS-3
Approximate Location of Air Sparge Well
Approximate Scale
1 inch = 30 feet
0
15
30
60
Blaes ENVIRONMENTAL
Couche-Tard
Circle K Stores, Inc.
Circle K Store # 2706042
10171 Highway 12
Naches, Washington
Site Plan
Aug 2016
Project #202-06042-04
P:\Technical\202CKWashington\202-6042-04Naches\6042 Figures\6042SiteMap.cdr
Figure 2



LEGEND

- MW-1 — Approximate Location of Groundwater Monitoring Well(s) & ID
- Approximate location of Storm Drain(s)
- AS-3 — Approximate Location of Air Sparge Well
- 1,455.05 — Groundwater Elevation (feet above mean sea level)
- Groundwater Directional Gradient Arrow
  Groundwater Contour Interval = 0.30 feet
  Approximate Gradient = 0.009 (MW-2 to MW-3)

Blaes ENVIRONMENTAL

Couche-Tard
Circle K Stores, Inc.

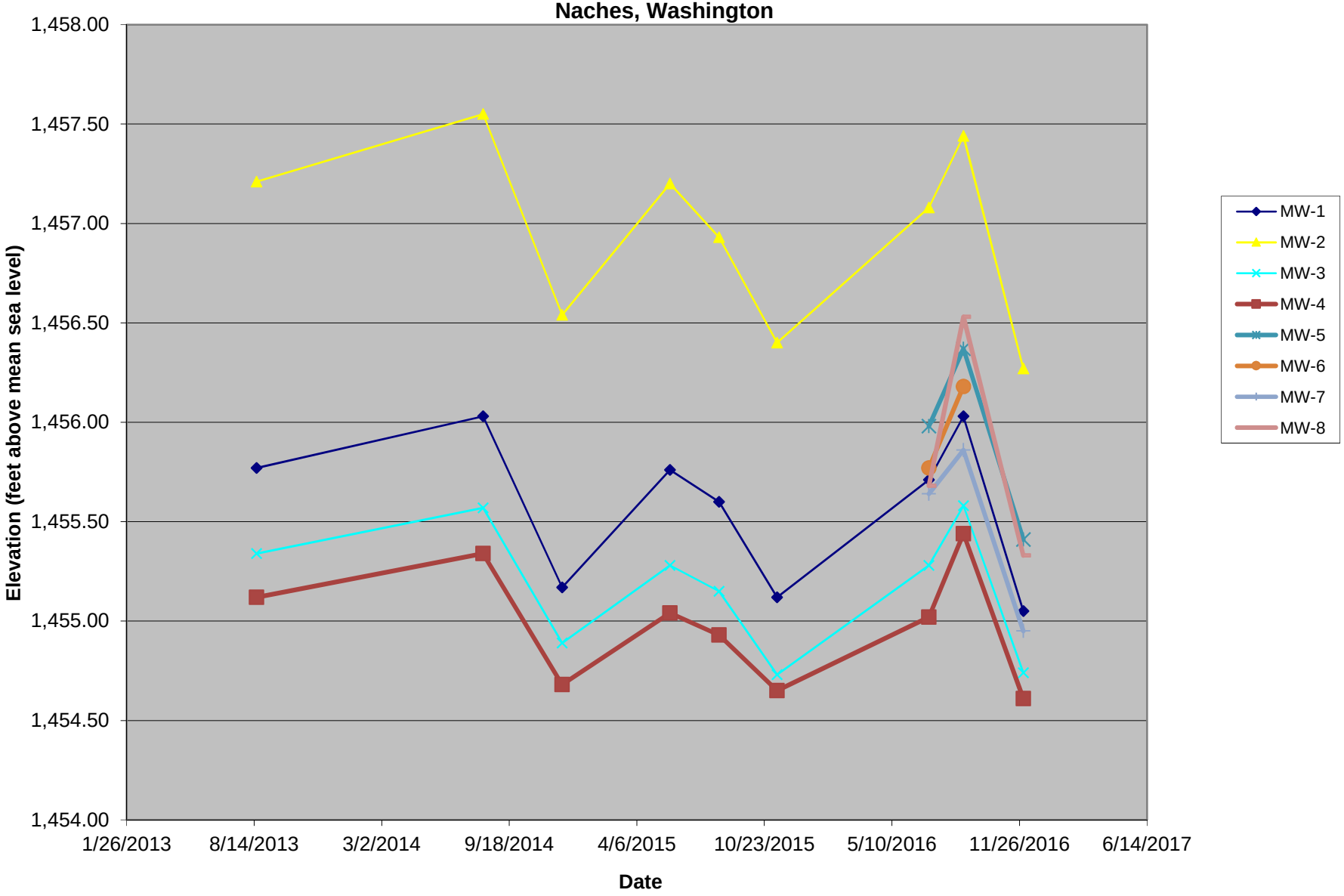
Circle K Store # 2706042
10171 Highway 12
Naches, Washington

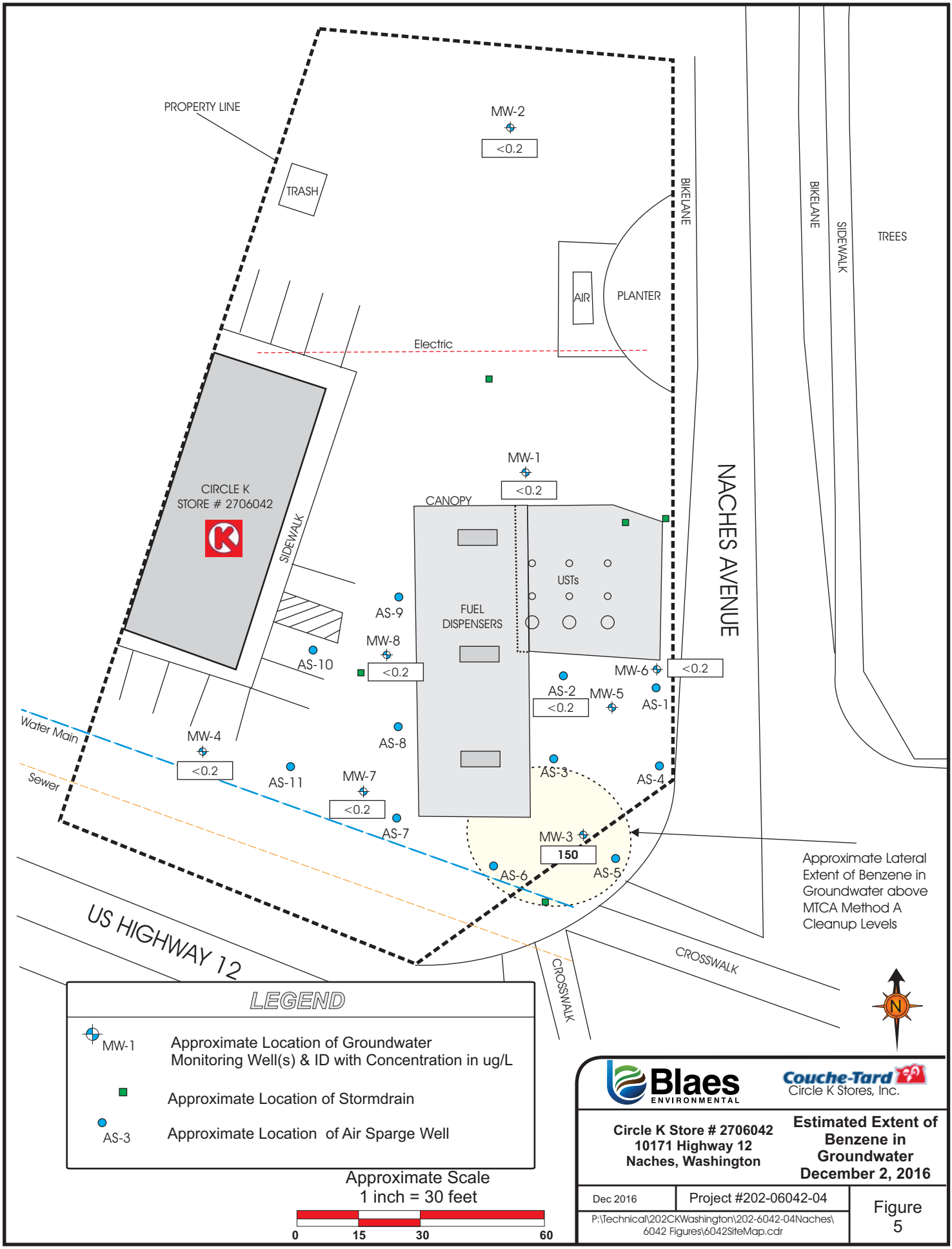
Groundwater Elevation Contour Map
December 2, 2016

December 2016	Project #202-06042-05	Figure 3

P:\Technical\202CKWashington\202-6042-04Naches\202-6042-04GWM\6042-2016GWM\6042Figures\Fig3.cdr

FIGURE 4: HYDROGRAPH
Circle K #2706042
10171 Highway 12
Naches, Washington





Blaes ENVIRONMENTAL

Couche-Tard
Circle K Stores, Inc.

Circle K Store # 2706042
10171 Highway 12
Naches, Washington

Estimated Extent of Benzene in Groundwater
December 2, 2016

Dec 2016	Project #202-06042-04	Figure 5

P:\Technical\202CKWashington\202-6042-04Naches\6042 Figures\6042SiteMap.cdr

TABLES

TABLE 1

SUMMARY OF GROUNDWATER ELEVATION DATA

Circle K Store #2706042
10171 Highway 12
Naches, Washington

Well ID	Date	TOC Elevation (ft amsl)	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
MW-1	8/18/2013	1466.08	---	10.31	1,455.77
	8/8/2014		---	10.05	1,456.03
	12/10/2014		---	10.91	1,455.17
	5/28/2015		---	10.32	1,455.76
	8/13/2015		---	10.48	1,455.60
	11/12/2015		---	10.96	1,455.12
	7/7/2016		---	10.37	1,455.71
	8/30/2016		---	10.05	1,456.03
	12/2/2016		---	11.03	1,455.05
MW-2	8/18/2013	1466.84	---	9.63	1,457.21
	8/8/2014		---	9.29	1,457.55
	12/10/2014		---	10.30	1,456.54
	5/28/2015		---	9.64	1,457.20
	8/13/2015		---	9.91	1,456.93
	11/12/2015		---	10.44	1,456.40
	7/7/2016		---	9.76	1,457.08
	8/30/2016		---	9.40	1,457.44
	12/2/2016		---	10.57	1,456.27
MW-3	8/18/2013	1466.26	---	10.92	1,455.34
	8/8/2014		---	10.69	1,455.57
	12/10/2014		---	11.37	1,454.89
	5/28/2015		---	10.98	1,455.28
	8/13/2015		---	11.11	1,455.15
	11/12/2015		---	11.53	1,454.73
	7/7/2016		---	10.98	1,455.28
	8/30/2016		---	10.68	1,455.58
	12/2/2016		---	11.52	1,454.74
MW-4	8/18/2013	1466.54	---	11.42	1,455.12
	8/8/2014		---	11.20	1,455.34
	12/10/2014		---	11.86	1,454.68
	5/28/2015		---	11.50	1,455.04
	8/13/2015		---	11.61	1,454.93
	11/12/2015		---	11.89	1,454.65
	7/7/2016		---	11.52	1,455.02
	8/30/2016		---	11.10	1,455.44
	12/2/2016		---	11.93	1,454.61
MW-5	7/7/2016	1466.25	---	10.27	1,455.98
	8/30/2016		---	9.88	1,456.37
	12/2/2016		---	10.84	1,455.41
MW-6	7/7/2016	1465.82	---	10.05	1,455.77
	8/30/2016		---	9.64	1,456.18
	12/2/2016		---	NA	NA
MW-7	7/7/2016	1465.99	---	10.35	1,455.64
	8/30/2016		---	10.13	1,455.86
	12/2/2016		---	11.04	1,454.95
MW-8	7/7/2016	1465.50	---	9.82	1,455.68
	8/30/2016		---	8.97	1,456.53

TABLE 1

SUMMARY OF GROUNDWATER ELEVATION DATA

Circle K Store #2706042
10171 Highway 12
Naches, Washington

Well ID	Date	TOC Elevation (ft amsl)	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
	12/2/2016	1465.50	---	10.17	1,455.33

NOTES:

ft btoc = Feet Below Top Of Casing
ft amsl = Feet Above Mean Sea Level
TOC = Top of Casing
--- = Not Present/Not Applicable

TABLE 2

SUMMARY OF GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS

Circle K Store #2706042
10171 Highway 12
Naches, Washington 98937

Sample ID	Date Collected	NWTPH-Gx (ug/L)	NWTPH-Dx (ug/L)	EPA Method 8260												
				Benzene (ug/L)	Toluene (ug/L)	EB (ug/L)	m&p -Xylenes (ug/L)	o-Xylene (ug/L)	MTBE (ug/L)	EDB (ug/L)	EDC (ug/L)	Naph (ug/L)	Isoprop (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Other VOCs (ug/L)
MW-1	8/12/2013	<50	---	**1.1**	<1.0	<1.0	<2.0	<1.0	<1.0	<0.01	NA	<1.0	<1.0	<1.0	<1.0	ND
	8/8/2014	**340**	---	<0.10	**0.27**	<0.10	**0.26**	**0.11**	<0.10	<0.01	<0.10	<0.40	<0.10	<0.10	<0.10	**1,2-Dichloropropane 0.16**
	12/10/2014	**170**	---	<0.10	**1.9**	**0.13**	**29**	**5.1**	<0.10	<0.01	<0.10	<0.40	**1.5**	<0.10	<0.10	ND
	5/28/2015	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.2	ND
	8/13/2015	<50	---	**3.1**	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	**2.6**	<0.5	<0.2	<0.5	ND
	11/12/2015	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	7/7/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	8/30/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	12/2/2016	<50		<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND

MW-2	8/12/2013	<50	---	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<0.01	NA	<1.0	<1.0	<1.0	<1.0	ND
	8/8/2014	**130**	---	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.01	<0.10	<0.40	<0.10	<0.10	<0.10	ND
	12/10/2014	<50	---	**0.32**	<0.10	<0.10	<0.20	<0.10	<0.10	<0.01	<0.10	<0.40	<0.10	<0.10	<0.10	ND
	5/28/2015	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.2	ND
	8/13/2015	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.2	ND
	11/12/2015	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	7/7/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	8/30/2016	<50	-----	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	12/2/2016	<50	-----	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.0099	<0.2	<0.5	<0.5	<0.2	<0.5	ND
MW-3	8/12/2013	**50000**	---	<1.0	**27**	**830**	**1,500**	**930**	<1.0	<0.01	NA	**380**	**160**	**1,200**	**780**	**4-Isopropyltoluene 22; n-Butylbenzene 550; N-propylbenzene 490; sec-Butylbenzene 34; Styrene 32;**
	8/8/2014	**59000**	---	**2.6**	**15**	**1100**	**5,300**	**920**	<0.10	<0.01	<0.10	**320**	**110**	**3,600**	**1,300**	**4-isopropylbenzene 57; n-Butylbenzene 510; N-Propylbenzene 430; sec-butylbenzene 31; Styrene 27;**

TABLE 2

SUMMARY OF GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS

Circle K Store #2706042
10171 Highway 12
Naches, Washington 98937

Sample ID	Date Collected	NWTPH-Gx (ug/L)	NWTPH-Dx (ug/L)	Benzene (ug/L)	Toluene (ug/L)	EB (ug/L)	m&p -Xylenes (ug/L)	o-Xylene (ug/L)	MTBE (ug/L)	EDB (ug/L)	EDC (ug/L)	Naph (ug/L)	Isoprop (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Other VOCs (ug/L)
	12/10/2014	49000	---	200	25	860	4,100	1000	<0.10	<0.01	<0.10	560	160	770	1,200	4-isopropylbenzene 19; n-Butylbenzene 670; N-Propylbenzene 460; sec-butylbenzene 38; Styrene 1.2;
	5/28/2015	56000	---	2800	3100	1300	5,100	1200	<0.2	<0.01	<0.2	520	180	4,800	1,300	4-isopropylbenzene 16; n-Butylbenzene 680; sec-butylbenzene 43; Styrene 1.4;
	8/13/2015	74000	110	2400	2300	1200	2,600	1200	<2	<0.01	<0.2	600	180	1,900	1,300	#2 Diesel 0.11; sec-Butylbenzene 43; n-Butylbenzene 710; N-Propylbenzene 590; 4-Isopropyltoluene 19
	11/12/2015	54000	12000	1900	1800	970	3,000	780	<0.2	<0.01	<0.2	33	140	3,100	830	4-isopropyltoluene 16; Styrene 0.82; n-Butylbenzene 530; N-Propylbenzene 520; #2 Diesel 12000 Motor Oil 860
	7/7/2016	36000	---	540	260	1000	3,000	790	<0.2	<0.40	<0.2	9	130	3,700	790	Styrene 0.74; 4-isopropyltoluene 19; N-propylbenzene 520; n-Butylbenzene 590;
	8/30/2016	1900	---	14	33	36	100	32	<0.2	<0.001	<0.2	26	3.5	110	42	1,3 Dichloropropene 0.5; N-Propylbenzene 13 ; sec-Butylbenzene 1.1; 4-Isopropyltoluene 0.84; n-Butylbenzene 44 ;
	12/2/2016	10000	---	150	25	510	1,200	280	<10	<0.0099	<10	350	84	2,400	540	N-Propylbenzene 290; 4-Isopropyltoluene 15; n-Butylbenzene 430
	8/12/2013	590	---	<1.0	<1.0	1.3	7.0	1.7	<1.0	<0.01	NA	72	<1.0	12	4.1	N-propylbenzene 1.9

TABLE 2

SUMMARY OF GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS

Circle K Store #2706042
10171 Highway 12
Naches, Washington 98937

Sample ID	Date Collected	NWTPH-Gx (ug/L)	NWTPH-Dx (ug/L)	Benzene (ug/L)	Toluene (ug/L)	EB (ug/L)	m&p -Xylenes (ug/L)	o-Xylene (ug/L)	MTBE (ug/L)	EDB (ug/L)	EDC (ug/L)	Naph (ug/L)	Isoprop (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Other VOCs (ug/L)
MW-4	8/8/2014	<50	---	<1.0	**0.22**	<1.0	<0.20	<0.10	<1.0	<0.01	<0.10	<0.40	<1.0	<0.10	<0.10	**1,2-Dichloropropane 0.17; sec-Butylbenzene 0.20**
	12/10/2014	<50	---	**12**	**0.12**	**0.71**	**3.6**	**0.64**	<0.10	<0.01	<0.10	**4.1**	**0.17**	**1.3**	**1.6**	**sec-Butylbenzene 1.3**
	5/28/2015	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.2	**N-propylbenzene 1.2**
	8/13/2015	**51.0**	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.2	**trans-1,2 Dichloroethene 0.29;**
	11/12/2015	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	7/7/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	2	<0.5	<0.2	<0.5	ND
	8/30/2016	<50	----	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	12/2/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.0099	<0.2	<0.50	<0.5	<0.2	<0.5	ND

MW-5	7/7/2016	**850**	---	**1.9**	**33.0**	**14.0**	**96 E**	**67.0**	**0.70**	<0.01	<0.2	**4.3**	**0.7**	**40**	<0.5	**N-Propylbenzene 2.2; 4 Isopropyltoluene 0.34 n-Butylbenzene 17;**
	8/30/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	12/2/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.0099	<0.2	<0.5	<0.5	**0.32**	**0.51**	**n-Butylbenzene 0.95**

MW-6	7/7/2016	**79**	---	**0.31**	**0.26**	**0.68**	**2.10**	**1.30**	<0.20	<0.01	<0.20	**0.51**	<0.50	**2.30**	**0.91**	**n-butylbenzene 0.94**
	8/30/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	0.50	<0.5	<0.2	<0.5	ND
	12/2/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.0099	<0.2	<0.5	<0.5	<0.2	<0.5	**ND**
MW-7	7/7/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	2	<0.5	<0.2	<0.5	ND
	8/30/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	12/2/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.0099	<0.2	<0.5	<0.5	<0.2	<0.5	**ND**
MW-8	7/7/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	2	<0.5	<0.2	<0.5	ND
	8/30/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
	12/2/2016	<50	---	<0.2	<0.2	<0.2	<0.5	<0.5	<0.2	<0.01	<0.2	<0.5	<0.5	<0.2	<0.5	ND
MTCA Cleanup Standards		**800**	**NA**	**5**	**1,000**	**700**	**1,000**		**20**	**0.01**	**NA**	**160**	**NA**	**NA**	**NA**	**NA**

Notes:

EB	Ethylbenzene
EPA	U.S. Environmental Protection Agency
mg/L	milligrams per liter (parts per million)
ug/L	micrograms per liter (parts per billion)

TABLE 2

SUMMARY OF GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS

Circle K Store #2706042
10171 Highway 12
Naches, Washington 98937

Sample ID	Date Collected	NWTPH-Gx (ug/L)	NWTPH-Dx (ug/L)	Benzene (ug/L)	Toluene (ug/L)	EB (ug/L)	m&p -Xylenes (ug/L)	o-Xylene (ug/L)	MTBE (ug/L)	EDB (ug/L)	EDC (ug/L)	Naph (ug/L)	Isoprop (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)	Other VOCs (ug/L)

NWTPH-Gx	Northwest Total Petroleum Hydrocarbons - Gasoline Range
MTBE	Methyl-tert-butyl Ether
EDB	Ethylene Dibromide
Naph	Naphthanlene
Isoprop	Isopropylbenzene
TMB	Trimethylbenzene
BOLD	Concentration exceeds laboratory reporting limit or method detection limit
RED	Concentration exceeds applicable MTCA Cleanup Standard
NA	MTCA cleanup standard not available
ND	Not Detected above reporting limit
MTCA	Model Toxics Control Act

APPENDICES

APPENDIX A

GROUNDWATER SAMPLE DATA SHEETS

Blaes ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

Site ID: ~~Circle K #6042 Naches, WA~~
Project No.: 202-6042
Recorded By: BLAES

Well No.: MW-1
Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other: _____
Well Material: ☒ PVC ☐ St. Steel ☐ Other: _____

WELL PURGING

Purge Volume **Purge Date:** 12/2/16

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____
Total Depth of Casing (TD in feet BTOC): 14.03'
Water Level Depth (WL in feet BTOC): _____
Number of Well Volumes (# Vols) to be Purged:
☐ 3 ☐ 4 ☐ 5 ☐ Other: _____

Purge Volume Calulation:

(_____ (TD (feet)) − _____ (WL (feet))) X _____ (D^2 (inches)) X _____ (# Vols) X 0.0409 = _____ gallons (Calculated Purge Volume)

Purge Method
☐ Bailer - Type: NO PURGE
☐ Submersible ☐ Submersible Whale
☐ Other: _____

Pump Intake Setting
☐ Near Bottom ☐ Near Top ☐ Other: NA
Depth in feet (BTOC): _____
Screen Interval in Feet (BTOC): from _____ to _____

Pump Time
Start: _____ Stop: _____ Time Elapsed: _____

Purge Rate
Initial _____ gpm
Final _____ gpm

Actual Purge Volume
_____ gallons

Field Parameter Measurements

Time	Gallons Purged	DO%	DO (mg/L)	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp.	pH	Notes
		METER MALFUNCTION							

Observations During Purging (well Condition, Turbidity, Color, Odor, etc.): _____

Purge Water Storage/Disposal: ☐ Drum(s), Number: NA ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments: _____

WELL SAMPLING

Sampled By: BLAES **Sampling Date:** 12/2/16 **Sampling Time:** 9:34

Sampling Method
Water Level Before Sampling (in feet BTOC): _____

☒ Bailer - Type: DISPOSABLE ☐ Same as Above
☐ Submersible ☐ Whale ☐ Grab - Type: _____
☐ Other: _____ ☐ Other - Type: _____

Sampling Distribution Sample Series: _____

Sample No.	# Containers, Vol.	Preservative	Analysis	Lab	Comments
MW-1					

Other Notes: _____

Blaes ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

Site ID: ~~Circle K #6042 Naches, WA~~
Project No.: _____
Recorded By: BLAES

Well No.: MW-2
Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other: _____
Well Material: ☒ PVC ☐ St. Steel ☐ Other: _____

WELL PURGING

Purge Volume **Purge Date:** 12/2/16

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____
Total Depth of Casing (TD in feet BTOC): ~~10.57~~
Water Level Depth (WL in feet BTOC): 10.57
Number of Well Volumes (# Vols) to be Purged:
☐ 3 ☐ 4 ☐ 5 ☐ Other: _____

Purge Method
☐ Bailer - Type: NO PURGE
☐ Submersible ☐ Submersible Whale
☐ Other: _____

Pump Intake Setting
☐ Near Bottom ☐ Near Top ☐ Other: NA
Depth in feet (BTOC): _____
Screen Interval in Feet (BTOC): from _____ to _____

Purge Volume Calculation:

(_____ (TD feet) − _____ (WL feet)) X _____ (D (inches))^2 X _____ (# Vols) X 0.0409 = _____ gallons (Calculated Purge Volume)

Pump Time
Start: _____ Stop: _____ Time Elapsed: _____

Purge Rate
Initial _____ gpm
Final _____ gpm

Actual Purge Volume
_____ gallons

Field Parameter Measurements

Time	Gallons Purged	DO%	DO (mg/L)	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp.	pH	Notes
			METER MALFUNCTION						

Observations During Purging (well Condition, Turbidity, Color, Odor, etc.): _____

Purge Water Storage/Disposal: ☐ Drum(s), Number: _____ ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments: _____

WELL SAMPLING

Sampled By: BLAES **Sampling Date:** 12/2/16 **Sampling Time:** 9:15 A

Sampling Method
Water Level Before Sampling (in feet BTOC): _____

☒ Bailer - Type: DISPOSABLE
☐ Submersible ☐ Whale
☐ Other: _____
☐ Same as Above
☐ Grab - Type: _____
☐ Other - Type: _____

Sampling Distribution Sample Series: _____

Sample No.	# Containers, Vol.	Preservative	Analysis	Lab	Comments
MW-2					

Other Notes: _____

Blaes ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

Well No.: MW-3

Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other: _____

Well Material: ☒ PVC ☐ St. Steel ☐ Other: _____

Site ID: ~~Circle K #6042 Naches, WA~~

Project No.: _____

Recorded By: BLAES

WELL PURGING

Purge Volume

Purge Date: 12/2/16

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____

Total Depth of Casing (TD in feet BTOC): _____

Water Level Depth (WL in feet BTOC): 11.52'

Number of Well Volumes (# Vols) to be Purged:
☐ 3 ☐ 4 ☐ 5 ☐ Other: _____

Purge Volume Calulation:

(_____ (TD (feet)) − _____ (WL (feet))) X _____ (D (inches))^2 X _____ (# Vols) X 0.0409 = _____ gallons (Calculated Purge Volume)

Purge Method

☒ Bailer - Type: NO PURGE
☐ Submersible ☐ Submersible Whale
☐ Other: _____

Pump Intake Setting

☐ Near Bottom ☐ Near Top ☐ Other: _____

Depth in feet (BTOC): _____

Screen Interval in Feet (BTOC): from _____ to _____

Pump Time

Start: _____ Stop: _____ Time Elapsed: _____

Purge Rate

Initial _____ gpm

Final _____ gpm

Actual Purge Volume

_____ gallons

Field Parameter Measurements

Time	Gallons Purged	DO%	DO (mg/L)	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp.	pH	Notes
			METER MALFUNCTION						

Observations During Purging (well Condition, Turbidity, Color, Odor, etc.): _____

Purge Water Storage/Disposal: ☐ Drum(s), Number: _____ ☐ Storm Sewer ☐ Sanitary Sewer

Other / Comments: _____

WELL SAMPLING

Sampled By: BLAES **Sampling Date:** 12/2/16 **Sampling Time:** 10:40

Sampling Method

Water Level Before Sampling (in feet BTOC): _____

☐ Bailer - Type: _____
☐ Submersible ☐ Whale
☐ Other: _____

☐ Same as Above
☐ Grab - Type: _____
☐ Other - Type: _____

Sampling Distribution

Sample Series: _____

Sample No.	# Containers, Vol.	Preservative	Analysis	Lab	Comments
MW-4					

Other Notes: _____

Blaes ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

Site ID: ~~Circle K #6042 Naches, WA~~

Project No.: _____

Recorded By: BLAES

Well No.: MW-4

Well Type: ☐ Monitor ☐ Remedial - VE AS ☐ Other: _____

Well Material: ☐ PVC ☐ St. Steel ☐ Other: _____

WELL PURGING

Purge Date: 12/2/16

Purge Volume

Casing Diameter (D) in inches:

☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____

Total Depth of Casing (TD in feet BTOC): _____

Water Level Depth (WL in feet BTOC): 11.93

Number of Well Volumes (# Vols) to be Purged:

☐ 3 ☐ 4 ☐ 5 ☐ Other: _____

Purge Method

☐ Bailer - Type: NO PURGE

☐ Submersible ☐ Submersible Whale

☐ Other: _____

Pump Intake Setting

☐ Near Bottom ☐ Near Top ☐ Other: _____

Depth in feet (BTOC): _____

Screen Interval in Feet (BTOC): from _____ to _____

Purge Volume Calulation:

(_____ (TD feet) − _____ (WL feet)) X _____ (D^2 (inches)) X _____ (# Vols) X 0.0409 = _____ gallons (Calculated Purge Volume)

Pump Time

Start: _____ Stop: _____ Time Elapsed: _____

Purge Rate

Initial _____ gpm

Final _____ gpm

Actual Purge Volume

_____ gallons

Field Parameter Measurements

Time	Gallons Purged	DO%	DO (mg/L)	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp.	pH	Notes
			METER MALFUNCTION						

Observations During Purging (well Condition, Turbidity, Color, Odor, etc.): _____

Purge Water Storage/Disposal: ☐ Drum(s), Number: _____ ☐ Storm Sewer ☐ Sanitary Sewer

Other / Comments: _____

WELL SAMPLING

Sampled By: BLAES **Sampling Date:** 12/2/16 **Sampling Time:** 9:55

Sampling Method

Water Level Before Sampling (in feet BTOC): _____

☒ Bailer - Type: DISPOSABLE ☐ Same as Above

☐ Submersible ☐ Whale ☐ Grab - Type: _____

☐ Other: _____ ☐ Other - Type: _____

Sampling Distribution Sample Series: _____

Sample No.	# Containers, Vol.	Preservative	Analysis	Lab	Comments
MW-4					

Other Notes: _____

Blaes ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

Well No.: MW-5

Well Type: ☒ Monitor ☐ Remedial - VE AS
☐ Other: _____

Well Material: ☒ PVC ☐ St. Steel
☐ Other: _____

Site ID: ~~Circle K #6042 Naches, WA~~

Project No.: _____

Recorded By: BLAES

WELL PURGING

Purge Volume **Purge Date:** 12/2/16

Casing Diameter (D) in inches:
☐ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____

Total Depth of Casing (TD in feet BTOC): _____
Water Level Depth (WL in feet BTOC): 10.84

Number of Well Volumes (# Vols) to be Purged:
☐ 3 ☐ 4 ☐ 5 ☐ Other: _____

Purge Volume Calulation:

(_____ (TD feet) − _____ (WL feet)) X _____ (D (inches))^2 X _____ (# Vols) X 0.0409 = _____ gallons
Calculated Purge Volume

Purge Method
☐ Bailer - Type: NO PURGE
☐ Submersible ☐ Submersible Whale
☐ Other: _____

Pump Intake Setting
☐ Near Bottom ☐ Near Top ☐ Other: _____
Depth in feet (BTOC): _____
Screen Interval in Feet (BTOC): from _____ to _____

Pump Time
Start: _____ Stop: _____ Time Elapsed: _____

Purge Rate
Initial _____ gpm
Final _____ gpm

Actual Purge Volume
_____ gallons

Field Parameter Measurements

Time	Gallons Purged	DO%	DO (mg/L)	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp.	pH	Notes
			METER MALFUNCTION						

Observations During Purging (well Condition, Turbidity, Color, Odor, etc.): _____

Purge Water Storage/Disposal: ☐ Drum(s), Number: _____ ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments: _____

WELL SAMPLING

Sampled By: BLAES **Sampling Date:** 12/2/16 **Sampling Time:** 10:30

Sampling Method
☒ Bailer - Type: DISPOSABLE
☐ Submersible ☐ Whale
☐ Other: _____

Water Level Before Sampling (in feet BTOC): _____
☐ Same as Above
☐ Grab - Type: _____
☐ Other - Type: _____

Sampling Distribution Sample Series: _____

Sample No.	# Containers, Vol.	Preservative	Analysis	Lab	Comments
MW-5					

Other Notes: _____

Blaes ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

Site ID: ~~Circle K #6042 Naches, WA~~

Project No.: _____

Recorded By: BLAES

Well No.: MW-6

Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other: _____

Well Material: ☒ PVC ☐ St. Steel ☐ Other: _____

WELL PURGING

Purge Volume **Purge Date:** 12/2/16

Casing Diameter (D) in inches:
☐ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____

Total Depth of Casing (TD in feet BTOC): NA

Water Level Depth (WL in feet BTOC): _____

Number of Well Volumes (# Vols) to be Purged:
☐ 3 ☐ 4 ☐ 5 ☐ Other: _____

Purge Volume Calulation:

(_____ (TD feet) − _____ (WL feet)) X _____ (D (inches))^2 X _____ (# Vols) X 0.0409 = _____ gallons
Calculated Purge Volume

Purge Method
☐ Bailer - Type: NO PURGE
☐ Submersible ☐ Submersible Whale
☐ Other: _____

Pump Intake Setting
☐ Near Bottom ☐ Near Top ☐ Other: _____
Depth in feet (BTOC): _____
Screen Interval in Feet (BTOC): from _____ to _____

Pump Time
Start: _____ Stop: _____ Time Elapsed: _____

Purge Rate
Initial _____ gpm
Final _____ gpm

Actual Purge Volume
_____ gallons

Field Parameter Measurements

Time	Gallons Purged	DO%	DO (mg/L)	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp.	pH	Notes
			METER MALFUNCTION						

Observations During Purging (well Condition, Turbidity, Color, Odor, etc.): _____

Purge Water Storage/Disposal: ☐ Drum(s), Number: _____ ☐ Storm Sewer ☐ Sanitary Sewer
Other / Comments: _____

WELL SAMPLING

Sampled By: BLAES **Sampling Date:** 12/2/16 **Sampling Time:** 10:17 AM

Sampling Method
☒ Bailer - Type: DISPOSABLE ☐ Same as Above
☐ Submersible ☐ Whale ☐ Grab - Type: _____
☐ Other: _____ ☐ Other - Type: _____

Water Level Before Sampling (in feet BTOC): _____

Sampling Distribution Sample Series: _____

Sample No.	# Containers, Vol.	Preservative	Analysis	Lab	Comments
MW-6					

Other Notes: _____

Blaes ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

Site ID: ~~Circle K #6042 Naches, WA~~

Project No.: _____

Recorded By: BLAES

Well No.: MW-7

Well Type: ☒ Monitor ☐ Remedial - VE AS ☐ Other: _____

Well Material: ☒ PVC ☐ St. Steel ☐ Other: _____

WELL PURGING

Purge Volume **Purge Date:** _____

Casing Diameter (D) in inches:
☒ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____

Total Depth of Casing (TD in feet BTOC): _____

Water Level Depth (WL in feet BTOC): 11.04'

Number of Well Volumes (# Vols) to be Purged:
☐ 3 ☐ 4 ☐ 5 ☐ Other: _____

Purge Method
☐ Bailer - Type: NO PURGE
☐ Submersible ☐ Submersible Whale
☐ Other: _____

Pump Intake Setting
☐ Near Bottom ☐ Near Top ☐ Other: _____
Depth in feet (BTOC): _____
Screen Interval in Feet (BTOC): from _____ to _____

Purge Volume Calulation:

(_____ (TD feet) − _____ (WL feet)) X _____ (D (inches))^2 X _____ (# Vols) X 0.0409 = _____ gallons (Calculated Purge Volume)

Pump Time **Purge Rate** **Actual Purge Volume**

Start:_____ Stop: _____ Time Elapsed: _____ Initial _____ gpm _____ gallons

Final _____ gpm

Field Parameter Measurements

Time	Gallons Purged	DO%	DO (mg/L)	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp.	pH	Notes
			METER MALFUNCTION						

Observations During Purging (well Condition, Turbidity, Color, Odor, etc.): _____

Purge Water Storage/Disposal: ☐ Drum(s), Number: _____ ☐ Storm Sewer ☐ Sanitary Sewer

Other / Comments: _____

WELL SAMPLING

Sampled By: BLAES **Sampling Date:** 12/2/16 **Sampling Time:** 10:07

Sampling Method

Water Level Before Sampling (in feet BTOC): _____

☒ Bailer - Type: DISPOSABLE ☐ Same as Above
☐ Submersible ☐ Whale ☐ Grab - Type: _____
☐ Other: _____ ☐ Other - Type: _____

Sampling Distribution Sample Series: _____

Sample No.	# Containers, Vol.	Preservative	Analysis	Lab	Comments
MW-7					

Other Notes: _____

Blaes ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

Site ID: ~~Circle K #6042 Naches, WA~~

Project No.: _____

Recorded By: BLAES

Well No.: MW-8

Well Type: ☑ Monitor ☐ Remedial - VE AS ☐ Other: _____

Well Material: ☑ PVC ☐ St. Steel ☐ Other: _____

WELL PURGING

Purge Volume

Purge Date: _____

Casing Diameter (D) in inches:
☑ 2-inch ☐ 4-inch ☐ 6-inch ☐ Other: _____

Total Depth of Casing (TD in feet BTOC): _____

Water Level Depth (WL in feet BTOC): 10.17

Number of Well Volumes (# Vols) to be Purged:
☐ 3 ☐ 4 ☐ 5 ☐ Other: _____

Purge Volume Calulation:

(_____ (TD (feet)) − _____ (WL (feet))) X _____ (D (inches))^2 X _____ (# Vols) X 0.0409 = _____ gallons (Calculated Purge Volume)

Purge Method

☐ Bailer - Type: NO PURGE
☐ Submersible ☐ Submersible Whale
☐ Other: _____

Pump Intake Setting

☐ Near Bottom ☐ Near Top ☐ Other: _____

Depth in feet (BTOC): _____

Screen Interval in Feet (BTOC): from _____ to _____

Pump Time

Start: _____ Stop: _____ Time Elapsed: _____

Purge Rate

Initial _____ gpm

Final _____ gpm

Actual Purge Volume

_____ gallons

Field Parameter Measurements

Time	Gallons Purged	DO%	DO (mg/L)	Cond. 1 (umhos/cm)	Cond. 2 (umhos/cm)	Salinity	Temp.	pH	Notes
			WATER WAS PURGED						

Observations During Purging (well Condition, Turbidity, Color, Odor, etc.): _____

Purge Water Storage/Disposal: ☐ Drum(s), Number: _____ ☐ Storm Sewer ☐ Sanitary Sewer

Other / Comments: _____

WELL SAMPLING

Sampled By: BLAES **Sampling Date:** 12/2/16 **Sampling Time:** 9:45

Sampling Method

☑ Bailer - Type: DISPOSABLE
☐ Submersible ☐ Whale
☐ Other: _____

Water Level Before Sampling (in feet BTOC): _____

☐ Same as Above
☐ Grab - Type: _____
☐ Other - Type: _____

Sampling Distribution

Sample Series: _____

Sample No.	# Containers, Vol.	Preservative	Analysis	Lab	Comments
MW-8					

Other Notes: _____

APPENDIX B

GROUNDWATER LABORATORY ANALYTICAL REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-64516-1
Client Project/Site: Circle K #6042 Naches, Wa

For:
Blaes Environmental Inc.
45 E Monterey Way
Suite 200
Phoenix, Arizona 85012

Attn: Dan Blaes

Authorized for release by:
12/7/2016 4:08:47 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

Table of Contents

Case Narrative

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Job ID: 580-64516-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-64516-1

Receipt
The samples were received on 12/2/2016 2:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-233813 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane and 1,1,2,2-Tetrachloroethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-3 (580-64516-3). Elevated reporting limits (RLs) are provided.

Method(s) NWTPH-Gx: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-3 (580-64516-3). Elevated reporting limits (RLs) are provided.

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

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

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

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)

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-1
Date Collected: 12/02/16 09:34
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.40		ug/L			12/04/16 17:04	1
Chloromethane	ND		0.30		ug/L			12/04/16 17:04	1
Vinyl chloride	ND		0.020		ug/L			12/04/16 17:04	1
Bromomethane	ND		1.0		ug/L			12/04/16 17:04	1
Chloroethane	ND		0.50		ug/L			12/04/16 17:04	1
Trichlorofluoromethane	ND		0.50		ug/L			12/04/16 17:04	1
1,1-Dichloroethene	ND		0.10		ug/L			12/04/16 17:04	1
Methylene Chloride	ND		0.50		ug/L			12/04/16 17:04	1
Methyl tert-butyl ether	ND		0.20		ug/L			12/04/16 17:04	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 17:04	1
1,1-Dichloroethane	ND		0.20		ug/L			12/04/16 17:04	1
2,2-Dichloropropane	ND		0.50		ug/L			12/04/16 17:04	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 17:04	1
Chlorobromomethane	ND		0.20		ug/L			12/04/16 17:04	1
Chloroform	ND		0.20		ug/L			12/04/16 17:04	1
1,1,1-Trichloroethane	ND		0.20		ug/L			12/04/16 17:04	1
Carbon tetrachloride	ND		0.20		ug/L			12/04/16 17:04	1
1,1-Dichloropropene	ND		0.10		ug/L			12/04/16 17:04	1
Benzene	ND		0.20		ug/L			12/04/16 17:04	1
EDC	ND		0.20		ug/L			12/04/16 17:04	1
Trichloroethene	ND		0.20		ug/L			12/04/16 17:04	1
1,2-Dichloropropane	ND		0.20		ug/L			12/04/16 17:04	1
Dibromomethane	ND		0.20		ug/L			12/04/16 17:04	1
Dichlorobromomethane	ND		0.20		ug/L			12/04/16 17:04	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/04/16 17:04	1
Toluene	ND		0.20		ug/L			12/04/16 17:04	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			12/04/16 17:04	1
1,1,2-Trichloroethane	ND		0.20		ug/L			12/04/16 17:04	1
Tetrachloroethene	ND		0.50		ug/L			12/04/16 17:04	1
1,3-Dichloropropane	ND		0.20		ug/L			12/04/16 17:04	1
Chlorodibromomethane	ND		0.20		ug/L			12/04/16 17:04	1
1,2-Dibromoethane	ND		0.10		ug/L			12/04/16 17:04	1
Chlorobenzene	ND		0.20		ug/L			12/04/16 17:04	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 17:04	1
Ethylbenzene	ND		0.20		ug/L			12/04/16 17:04	1
m-Xylene & p-Xylene	ND		0.50		ug/L			12/04/16 17:04	1
o-Xylene	ND		0.50		ug/L			12/04/16 17:04	1
Styrene	ND		0.50		ug/L			12/04/16 17:04	1
Bromoform	ND		0.50		ug/L			12/04/16 17:04	1
Isopropylbenzene	ND		0.50		ug/L			12/04/16 17:04	1
Bromobenzene	ND		0.20		ug/L			12/04/16 17:04	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 17:04	1
1,2,3-Trichloropropane	ND		0.20		ug/L			12/04/16 17:04	1
N-Propylbenzene	ND		0.20		ug/L			12/04/16 17:04	1
2-Chlorotoluene	ND		0.50		ug/L			12/04/16 17:04	1
4-Chlorotoluene	ND		0.30		ug/L			12/04/16 17:04	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/04/16 17:04	1
tert-Butylbenzene	ND		0.50		ug/L			12/04/16 17:04	1
1,2,4-Trimethylbenzene	ND		0.20		ug/L			12/04/16 17:04	1

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-1
Date Collected: 12/02/16 09:34
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50		ug/L			12/04/16 17:04	1
4-Isopropyltoluene	ND		0.30		ug/L			12/04/16 17:04	1
1,3-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:04	1
1,4-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:04	1
n-Butylbenzene	ND		0.50		ug/L			12/04/16 17:04	1
1,2-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/04/16 17:04	1
1,2,4-Trichlorobenzene	ND		0.20		ug/L			12/04/16 17:04	1
Hexachlorobutadiene	ND		0.50		ug/L			12/04/16 17:04	1
Naphthalene	ND		0.50		ug/L			12/04/16 17:04	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			12/04/16 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*12/04/16 17:04*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*12/04/16 17:04*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*12/04/16 17:04*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*12/04/16 17:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*12/04/16 17:04*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/05/16 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*12/05/16 12:36*	*1*
Trifluorotoluene (Surr)	*100*		*50 - 150*		*12/05/16 12:36*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010		ug/L		12/05/16 13:53	12/05/16 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*101*		*70 - 130*	*12/05/16 13:53*	*12/05/16 16:09*	*1*

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-2
Date Collected: 12/02/16 09:15
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.40		ug/L			12/04/16 17:29	1
Chloromethane	ND		0.30		ug/L			12/04/16 17:29	1
Vinyl chloride	ND		0.020		ug/L			12/04/16 17:29	1
Bromomethane	ND		1.0		ug/L			12/04/16 17:29	1
Chloroethane	ND		0.50		ug/L			12/04/16 17:29	1
Trichlorofluoromethane	ND		0.50		ug/L			12/04/16 17:29	1
1,1-Dichloroethene	ND		0.10		ug/L			12/04/16 17:29	1
Methylene Chloride	ND		0.50		ug/L			12/04/16 17:29	1
Methyl tert-butyl ether	ND		0.20		ug/L			12/04/16 17:29	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 17:29	1
1,1-Dichloroethane	ND		0.20		ug/L			12/04/16 17:29	1
2,2-Dichloropropane	ND		0.50		ug/L			12/04/16 17:29	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 17:29	1
Chlorobromomethane	ND		0.20		ug/L			12/04/16 17:29	1
Chloroform	ND		0.20		ug/L			12/04/16 17:29	1
1,1,1-Trichloroethane	ND		0.20		ug/L			12/04/16 17:29	1
Carbon tetrachloride	ND		0.20		ug/L			12/04/16 17:29	1
1,1-Dichloropropene	ND		0.10		ug/L			12/04/16 17:29	1
Benzene	ND		0.20		ug/L			12/04/16 17:29	1
EDC	ND		0.20		ug/L			12/04/16 17:29	1
Trichloroethene	ND		0.20		ug/L			12/04/16 17:29	1
1,2-Dichloropropane	ND		0.20		ug/L			12/04/16 17:29	1
Dibromomethane	ND		0.20		ug/L			12/04/16 17:29	1
Dichlorobromomethane	ND		0.20		ug/L			12/04/16 17:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/04/16 17:29	1
Toluene	ND		0.20		ug/L			12/04/16 17:29	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			12/04/16 17:29	1
1,1,2-Trichloroethane	ND		0.20		ug/L			12/04/16 17:29	1
Tetrachloroethene	ND		0.50		ug/L			12/04/16 17:29	1
1,3-Dichloropropane	ND		0.20		ug/L			12/04/16 17:29	1
Chlorodibromomethane	ND		0.20		ug/L			12/04/16 17:29	1
1,2-Dibromoethane	ND		0.10		ug/L			12/04/16 17:29	1
Chlorobenzene	ND		0.20		ug/L			12/04/16 17:29	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 17:29	1
Ethylbenzene	ND		0.20		ug/L			12/04/16 17:29	1
m-Xylene & p-Xylene	ND		0.50		ug/L			12/04/16 17:29	1
o-Xylene	ND		0.50		ug/L			12/04/16 17:29	1
Styrene	ND		0.50		ug/L			12/04/16 17:29	1
Bromoform	ND		0.50		ug/L			12/04/16 17:29	1
Isopropylbenzene	ND		0.50		ug/L			12/04/16 17:29	1
Bromobenzene	ND		0.20		ug/L			12/04/16 17:29	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 17:29	1
1,2,3-Trichloropropane	ND		0.20		ug/L			12/04/16 17:29	1
N-Propylbenzene	ND		0.20		ug/L			12/04/16 17:29	1
2-Chlorotoluene	ND		0.50		ug/L			12/04/16 17:29	1
4-Chlorotoluene	ND		0.30		ug/L			12/04/16 17:29	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/04/16 17:29	1
tert-Butylbenzene	ND		0.50		ug/L			12/04/16 17:29	1
1,2,4-Trimethylbenzene	ND		0.20		ug/L			12/04/16 17:29	1

Client Sample ID: MW-2
Date Collected: 12/02/16 09:15
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50		ug/L			12/04/16 17:29	1
4-Isopropyltoluene	ND		0.30		ug/L			12/04/16 17:29	1
1,3-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:29	1
1,4-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:29	1
n-Butylbenzene	ND		0.50		ug/L			12/04/16 17:29	1
1,2-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/04/16 17:29	1
1,2,4-Trichlorobenzene	ND		0.20		ug/L			12/04/16 17:29	1
Hexachlorobutadiene	ND		0.50		ug/L			12/04/16 17:29	1
Naphthalene	ND		0.50		ug/L			12/04/16 17:29	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			12/04/16 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*12/04/16 17:29*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*12/04/16 17:29*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*12/04/16 17:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*12/04/16 17:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*12/04/16 17:29*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/05/16 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*12/05/16 13:08*	*1*
Trifluorotoluene (Surr)	*99*		*50 - 150*		*12/05/16 13:08*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0099		ug/L		12/05/16 13:53	12/05/16 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*103*		*70 - 130*	*12/05/16 13:53*	*12/05/16 16:29*	*1*

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-3
Date Collected: 12/02/16 10:40
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		20		ug/L			12/04/16 20:30	50
Chloromethane	ND		15		ug/L			12/04/16 20:30	50
Vinyl chloride	ND		1.0		ug/L			12/04/16 20:30	50
Bromomethane	ND		50		ug/L			12/04/16 20:30	50
Chloroethane	ND		25		ug/L			12/04/16 20:30	50
Trichlorofluoromethane	ND		25		ug/L			12/04/16 20:30	50
1,1-Dichloroethene	ND		5.0		ug/L			12/04/16 20:30	50
Methylene Chloride	ND		25		ug/L			12/04/16 20:30	50
Methyl tert-butyl ether	ND		10		ug/L			12/04/16 20:30	50
trans-1,2-Dichloroethene	ND		10		ug/L			12/04/16 20:30	50
1,1-Dichloroethane	ND		10		ug/L			12/04/16 20:30	50
2,2-Dichloropropane	ND		25		ug/L			12/04/16 20:30	50
cis-1,2-Dichloroethene	ND		10		ug/L			12/04/16 20:30	50
Chlorobromomethane	ND		10		ug/L			12/04/16 20:30	50
Chloroform	ND		10		ug/L			12/04/16 20:30	50
1,1,1-Trichloroethane	ND		10		ug/L			12/04/16 20:30	50
Carbon tetrachloride	ND		10		ug/L			12/04/16 20:30	50
1,1-Dichloropropene	ND		5.0		ug/L			12/04/16 20:30	50
Benzene	**150**		10		ug/L			12/04/16 20:30	50
EDC	ND		10		ug/L			12/04/16 20:30	50
Trichloroethene	ND		10		ug/L			12/04/16 20:30	50
1,2-Dichloropropane	ND		10		ug/L			12/04/16 20:30	50
Dibromomethane	ND		10		ug/L			12/04/16 20:30	50
Dichlorobromomethane	ND		10		ug/L			12/04/16 20:30	50
cis-1,3-Dichloropropene	ND		25		ug/L			12/04/16 20:30	50
Toluene	**25**		10		ug/L			12/04/16 20:30	50
trans-1,3-Dichloropropene	ND		10		ug/L			12/04/16 20:30	50
1,1,2-Trichloroethane	ND		10		ug/L			12/04/16 20:30	50
Tetrachloroethene	ND		25		ug/L			12/04/16 20:30	50
1,3-Dichloropropane	ND		10		ug/L			12/04/16 20:30	50
Chlorodibromomethane	ND		10		ug/L			12/04/16 20:30	50
1,2-Dibromoethane	ND		5.0		ug/L			12/04/16 20:30	50
Chlorobenzene	ND		10		ug/L			12/04/16 20:30	50
1,1,1,2-Tetrachloroethane	ND		10		ug/L			12/04/16 20:30	50
Ethylbenzene	**510**		10		ug/L			12/04/16 20:30	50
m-Xylene & p-Xylene	**1200**		25		ug/L			12/04/16 20:30	50
o-Xylene	**280**		25		ug/L			12/04/16 20:30	50
Styrene	ND		25		ug/L			12/04/16 20:30	50
Bromoform	ND		25		ug/L			12/04/16 20:30	50
Isopropylbenzene	**84**		25		ug/L			12/04/16 20:30	50
Bromobenzene	ND		10		ug/L			12/04/16 20:30	50
1,1,2,2-Tetrachloroethane	ND		10		ug/L			12/04/16 20:30	50
1,2,3-Trichloropropane	ND		10		ug/L			12/04/16 20:30	50
N-Propylbenzene	**290**		10		ug/L			12/04/16 20:30	50
2-Chlorotoluene	ND		25		ug/L			12/04/16 20:30	50
4-Chlorotoluene	ND		15		ug/L			12/04/16 20:30	50
1,3,5-Trimethylbenzene	**540**		25		ug/L			12/04/16 20:30	50
tert-Butylbenzene	ND		25		ug/L			12/04/16 20:30	50
1,2,4-Trimethylbenzene	**2400**		10		ug/L			12/04/16 20:30	50

Client Sample ID: MW-3

Date Collected: 12/02/16 10:40
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		25		ug/L			12/04/16 20:30	50
4-Isopropyltoluene	**15**		15		ug/L			12/04/16 20:30	50
1,3-Dichlorobenzene	ND		15		ug/L			12/04/16 20:30	50
1,4-Dichlorobenzene	ND		15		ug/L			12/04/16 20:30	50
n-Butylbenzene	**430**		25		ug/L			12/04/16 20:30	50
1,2-Dichlorobenzene	ND		15		ug/L			12/04/16 20:30	50
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			12/04/16 20:30	50
1,2,4-Trichlorobenzene	ND		10		ug/L			12/04/16 20:30	50
Hexachlorobutadiene	ND		25		ug/L			12/04/16 20:30	50
Naphthalene	**350**		25		ug/L			12/04/16 20:30	50
1,2,3-Trichlorobenzene	ND		25		ug/L			12/04/16 20:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*12/04/16 20:30*	*50*
Trifluorotoluene (Surr)	*98*		*74 - 118*		*12/04/16 20:30*	*50*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*12/04/16 20:30*	*50*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*12/04/16 20:30*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*12/04/16 20:30*	*50*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**10**		1.3		mg/L			12/06/16 12:09	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*12/06/16 12:09*	*25*
Trifluorotoluene (Surr)	*96*		*50 - 150*		*12/06/16 12:09*	*25*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0099		ug/L		12/05/16 13:53	12/05/16 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*12/05/16 13:53*	*12/05/16 16:49*	*1*

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-4
Date Collected: 12/02/16 09:55
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.40		ug/L			12/04/16 17:55	1
Chloromethane	ND		0.30		ug/L			12/04/16 17:55	1
Vinyl chloride	ND		0.020		ug/L			12/04/16 17:55	1
Bromomethane	ND		1.0		ug/L			12/04/16 17:55	1
Chloroethane	ND		0.50		ug/L			12/04/16 17:55	1
Trichlorofluoromethane	ND		0.50		ug/L			12/04/16 17:55	1
1,1-Dichloroethene	ND		0.10		ug/L			12/04/16 17:55	1
Methylene Chloride	ND		0.50		ug/L			12/04/16 17:55	1
Methyl tert-butyl ether	ND		0.20		ug/L			12/04/16 17:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 17:55	1
1,1-Dichloroethane	ND		0.20		ug/L			12/04/16 17:55	1
2,2-Dichloropropane	ND		0.50		ug/L			12/04/16 17:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 17:55	1
Chlorobromomethane	ND		0.20		ug/L			12/04/16 17:55	1
Chloroform	ND		0.20		ug/L			12/04/16 17:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			12/04/16 17:55	1
Carbon tetrachloride	ND		0.20		ug/L			12/04/16 17:55	1
1,1-Dichloropropene	ND		0.10		ug/L			12/04/16 17:55	1
Benzene	ND		0.20		ug/L			12/04/16 17:55	1
EDC	ND		0.20		ug/L			12/04/16 17:55	1
Trichloroethene	ND		0.20		ug/L			12/04/16 17:55	1
1,2-Dichloropropane	ND		0.20		ug/L			12/04/16 17:55	1
Dibromomethane	ND		0.20		ug/L			12/04/16 17:55	1
Dichlorobromomethane	ND		0.20		ug/L			12/04/16 17:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/04/16 17:55	1
Toluene	ND		0.20		ug/L			12/04/16 17:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			12/04/16 17:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			12/04/16 17:55	1
Tetrachloroethene	ND		0.50		ug/L			12/04/16 17:55	1
1,3-Dichloropropane	ND		0.20		ug/L			12/04/16 17:55	1
Chlorodibromomethane	ND		0.20		ug/L			12/04/16 17:55	1
1,2-Dibromoethane	ND		0.10		ug/L			12/04/16 17:55	1
Chlorobenzene	ND		0.20		ug/L			12/04/16 17:55	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 17:55	1
Ethylbenzene	ND		0.20		ug/L			12/04/16 17:55	1
m-Xylene & p-Xylene	ND		0.50		ug/L			12/04/16 17:55	1
o-Xylene	ND		0.50		ug/L			12/04/16 17:55	1
Styrene	ND		0.50		ug/L			12/04/16 17:55	1
Bromoform	ND		0.50		ug/L			12/04/16 17:55	1
Isopropylbenzene	ND		0.50		ug/L			12/04/16 17:55	1
Bromobenzene	ND		0.20		ug/L			12/04/16 17:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 17:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			12/04/16 17:55	1
N-Propylbenzene	ND		0.20		ug/L			12/04/16 17:55	1
2-Chlorotoluene	ND		0.50		ug/L			12/04/16 17:55	1
4-Chlorotoluene	ND		0.30		ug/L			12/04/16 17:55	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/04/16 17:55	1
tert-Butylbenzene	ND		0.50		ug/L			12/04/16 17:55	1
1,2,4-Trimethylbenzene	ND		0.20		ug/L			12/04/16 17:55	1

Client Sample ID: MW-4
Date Collected: 12/02/16 09:55
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50		ug/L			12/04/16 17:55	1
4-Isopropyltoluene	ND		0.30		ug/L			12/04/16 17:55	1
1,3-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:55	1
n-Butylbenzene	ND		0.50		ug/L			12/04/16 17:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			12/04/16 17:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/04/16 17:55	1
1,2,4-Trichlorobenzene	ND		0.20		ug/L			12/04/16 17:55	1
Hexachlorobutadiene	ND		0.50		ug/L			12/04/16 17:55	1
Naphthalene	ND		0.50		ug/L			12/04/16 17:55	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			12/04/16 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*12/04/16 17:55*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*12/04/16 17:55*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*12/04/16 17:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*12/04/16 17:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*12/04/16 17:55*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/06/16 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*		*12/06/16 11:37*	*1*
Trifluorotoluene (Surr)	*77*		*50 - 150*		*12/06/16 11:37*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0099		ug/L		12/05/16 13:53	12/05/16 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*118*		*70 - 130*	*12/05/16 13:53*	*12/05/16 17:12*	*1*

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-5
Date Collected: 12/02/16 10:30
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.40		ug/L			12/04/16 18:21	1
Chloromethane	ND		0.30		ug/L			12/04/16 18:21	1
Vinyl chloride	ND		0.020		ug/L			12/04/16 18:21	1
Bromomethane	ND		1.0		ug/L			12/04/16 18:21	1
Chloroethane	ND		0.50		ug/L			12/04/16 18:21	1
Trichlorofluoromethane	ND		0.50		ug/L			12/04/16 18:21	1
1,1-Dichloroethene	ND		0.10		ug/L			12/04/16 18:21	1
Methylene Chloride	ND		0.50		ug/L			12/04/16 18:21	1
Methyl tert-butyl ether	ND		0.20		ug/L			12/04/16 18:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 18:21	1
1,1-Dichloroethane	ND		0.20		ug/L			12/04/16 18:21	1
2,2-Dichloropropane	ND		0.50		ug/L			12/04/16 18:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 18:21	1
Chlorobromomethane	ND		0.20		ug/L			12/04/16 18:21	1
Chloroform	ND		0.20		ug/L			12/04/16 18:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			12/04/16 18:21	1
Carbon tetrachloride	ND		0.20		ug/L			12/04/16 18:21	1
1,1-Dichloropropene	ND		0.10		ug/L			12/04/16 18:21	1
Benzene	ND		0.20		ug/L			12/04/16 18:21	1
EDC	ND		0.20		ug/L			12/04/16 18:21	1
Trichloroethene	ND		0.20		ug/L			12/04/16 18:21	1
1,2-Dichloropropane	ND		0.20		ug/L			12/04/16 18:21	1
Dibromomethane	ND		0.20		ug/L			12/04/16 18:21	1
Dichlorobromomethane	ND		0.20		ug/L			12/04/16 18:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/04/16 18:21	1
Toluene	ND		0.20		ug/L			12/04/16 18:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			12/04/16 18:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			12/04/16 18:21	1
Tetrachloroethene	ND		0.50		ug/L			12/04/16 18:21	1
1,3-Dichloropropane	ND		0.20		ug/L			12/04/16 18:21	1
Chlorodibromomethane	ND		0.20		ug/L			12/04/16 18:21	1
1,2-Dibromoethane	ND		0.10		ug/L			12/04/16 18:21	1
Chlorobenzene	ND		0.20		ug/L			12/04/16 18:21	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 18:21	1
Ethylbenzene	ND		0.20		ug/L			12/04/16 18:21	1
m-Xylene & p-Xylene	ND		0.50		ug/L			12/04/16 18:21	1
o-Xylene	ND		0.50		ug/L			12/04/16 18:21	1
Styrene	ND		0.50		ug/L			12/04/16 18:21	1
Bromoform	ND		0.50		ug/L			12/04/16 18:21	1
Isopropylbenzene	ND		0.50		ug/L			12/04/16 18:21	1
Bromobenzene	ND		0.20		ug/L			12/04/16 18:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 18:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			12/04/16 18:21	1
N-Propylbenzene	ND		0.20		ug/L			12/04/16 18:21	1
2-Chlorotoluene	ND		0.50		ug/L			12/04/16 18:21	1
4-Chlorotoluene	ND		0.30		ug/L			12/04/16 18:21	1
1,3,5-Trimethylbenzene	**0.51**		0.50		ug/L			12/04/16 18:21	1
tert-Butylbenzene	ND		0.50		ug/L			12/04/16 18:21	1
1,2,4-Trimethylbenzene	**0.32**		0.20		ug/L			12/04/16 18:21	1

Client Sample ID: MW-5
Date Collected: 12/02/16 10:30
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50		ug/L			12/04/16 18:21	1
4-Isopropyltoluene	ND		0.30		ug/L			12/04/16 18:21	1
1,3-Dichlorobenzene	ND		0.30		ug/L			12/04/16 18:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			12/04/16 18:21	1
n-Butylbenzene	**0.95**		0.50		ug/L			12/04/16 18:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			12/04/16 18:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/04/16 18:21	1
1,2,4-Trichlorobenzene	ND		0.20		ug/L			12/04/16 18:21	1
Hexachlorobutadiene	ND		0.50		ug/L			12/04/16 18:21	1
Naphthalene	ND		0.50		ug/L			12/04/16 18:21	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			12/04/16 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*12/04/16 18:21*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*12/04/16 18:21*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*12/04/16 18:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*12/04/16 18:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*12/04/16 18:21*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/05/16 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*		*12/05/16 14:45*	*1*
Trifluorotoluene (Surr)	*100*		*50 - 150*		*12/05/16 14:45*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0099		ug/L		12/05/16 13:53	12/05/16 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*12/05/16 13:53*	*12/05/16 17:33*	*1*

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-6
Date Collected: 12/02/16 10:17
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.40		ug/L			12/04/16 18:47	1
Chloromethane	ND		0.30		ug/L			12/04/16 18:47	1
Vinyl chloride	ND		0.020		ug/L			12/04/16 18:47	1
Bromomethane	ND		1.0		ug/L			12/04/16 18:47	1
Chloroethane	ND		0.50		ug/L			12/04/16 18:47	1
Trichlorofluoromethane	ND		0.50		ug/L			12/04/16 18:47	1
1,1-Dichloroethene	ND		0.10		ug/L			12/04/16 18:47	1
Methylene Chloride	ND		0.50		ug/L			12/04/16 18:47	1
Methyl tert-butyl ether	ND		0.20		ug/L			12/04/16 18:47	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 18:47	1
1,1-Dichloroethane	ND		0.20		ug/L			12/04/16 18:47	1
2,2-Dichloropropane	ND		0.50		ug/L			12/04/16 18:47	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 18:47	1
Chlorobromomethane	ND		0.20		ug/L			12/04/16 18:47	1
Chloroform	ND		0.20		ug/L			12/04/16 18:47	1
1,1,1-Trichloroethane	ND		0.20		ug/L			12/04/16 18:47	1
Carbon tetrachloride	ND		0.20		ug/L			12/04/16 18:47	1
1,1-Dichloropropene	ND		0.10		ug/L			12/04/16 18:47	1
Benzene	ND		0.20		ug/L			12/04/16 18:47	1
EDC	ND		0.20		ug/L			12/04/16 18:47	1
Trichloroethene	ND		0.20		ug/L			12/04/16 18:47	1
1,2-Dichloropropane	ND		0.20		ug/L			12/04/16 18:47	1
Dibromomethane	ND		0.20		ug/L			12/04/16 18:47	1
Dichlorobromomethane	ND		0.20		ug/L			12/04/16 18:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/04/16 18:47	1
Toluene	ND		0.20		ug/L			12/04/16 18:47	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			12/04/16 18:47	1
1,1,2-Trichloroethane	ND		0.20		ug/L			12/04/16 18:47	1
Tetrachloroethene	ND		0.50		ug/L			12/04/16 18:47	1
1,3-Dichloropropane	ND		0.20		ug/L			12/04/16 18:47	1
Chlorodibromomethane	ND		0.20		ug/L			12/04/16 18:47	1
1,2-Dibromoethane	ND		0.10		ug/L			12/04/16 18:47	1
Chlorobenzene	ND		0.20		ug/L			12/04/16 18:47	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 18:47	1
Ethylbenzene	ND		0.20		ug/L			12/04/16 18:47	1
m-Xylene & p-Xylene	ND		0.50		ug/L			12/04/16 18:47	1
o-Xylene	ND		0.50		ug/L			12/04/16 18:47	1
Styrene	ND		0.50		ug/L			12/04/16 18:47	1
Bromoform	ND		0.50		ug/L			12/04/16 18:47	1
Isopropylbenzene	ND		0.50		ug/L			12/04/16 18:47	1
Bromobenzene	ND		0.20		ug/L			12/04/16 18:47	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 18:47	1
1,2,3-Trichloropropane	ND		0.20		ug/L			12/04/16 18:47	1
N-Propylbenzene	ND		0.20		ug/L			12/04/16 18:47	1
2-Chlorotoluene	ND		0.50		ug/L			12/04/16 18:47	1
4-Chlorotoluene	ND		0.30		ug/L			12/04/16 18:47	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/04/16 18:47	1
tert-Butylbenzene	ND		0.50		ug/L			12/04/16 18:47	1
1,2,4-Trimethylbenzene	ND		0.20		ug/L			12/04/16 18:47	1

Client Sample ID: MW-6
Date Collected: 12/02/16 10:17
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50		ug/L			12/04/16 18:47	1
4-Isopropyltoluene	ND		0.30		ug/L			12/04/16 18:47	1
1,3-Dichlorobenzene	ND		0.30		ug/L			12/04/16 18:47	1
1,4-Dichlorobenzene	ND		0.30		ug/L			12/04/16 18:47	1
n-Butylbenzene	ND		0.50		ug/L			12/04/16 18:47	1
1,2-Dichlorobenzene	ND		0.30		ug/L			12/04/16 18:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/04/16 18:47	1
1,2,4-Trichlorobenzene	ND		0.20		ug/L			12/04/16 18:47	1
Hexachlorobutadiene	ND		0.50		ug/L			12/04/16 18:47	1
Naphthalene	ND		0.50		ug/L			12/04/16 18:47	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			12/04/16 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*12/04/16 18:47*	*1*
Trifluorotoluene (Surr)	*98*		*74 - 118*		*12/04/16 18:47*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*12/04/16 18:47*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*12/04/16 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*12/04/16 18:47*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/05/16 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*12/05/16 15:17*	*1*
Trifluorotoluene (Surr)	*97*		*50 - 150*		*12/05/16 15:17*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0099		ug/L		12/05/16 13:53	12/05/16 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*116*		*70 - 130*	*12/05/16 13:53*	*12/05/16 17:54*	*1*

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-7
Date Collected: 12/02/16 10:07
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.40		ug/L			12/04/16 19:13	1
Chloromethane	ND		0.30		ug/L			12/04/16 19:13	1
Vinyl chloride	ND		0.020		ug/L			12/04/16 19:13	1
Bromomethane	ND		1.0		ug/L			12/04/16 19:13	1
Chloroethane	ND		0.50		ug/L			12/04/16 19:13	1
Trichlorofluoromethane	ND		0.50		ug/L			12/04/16 19:13	1
1,1-Dichloroethene	ND		0.10		ug/L			12/04/16 19:13	1
Methylene Chloride	ND		0.50		ug/L			12/04/16 19:13	1
Methyl tert-butyl ether	ND		0.20		ug/L			12/04/16 19:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 19:13	1
1,1-Dichloroethane	ND		0.20		ug/L			12/04/16 19:13	1
2,2-Dichloropropane	ND		0.50		ug/L			12/04/16 19:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 19:13	1
Chlorobromomethane	ND		0.20		ug/L			12/04/16 19:13	1
Chloroform	ND		0.20		ug/L			12/04/16 19:13	1
1,1,1-Trichloroethane	ND		0.20		ug/L			12/04/16 19:13	1
Carbon tetrachloride	ND		0.20		ug/L			12/04/16 19:13	1
1,1-Dichloropropene	ND		0.10		ug/L			12/04/16 19:13	1
Benzene	ND		0.20		ug/L			12/04/16 19:13	1
EDC	ND		0.20		ug/L			12/04/16 19:13	1
Trichloroethene	ND		0.20		ug/L			12/04/16 19:13	1
1,2-Dichloropropane	ND		0.20		ug/L			12/04/16 19:13	1
Dibromomethane	ND		0.20		ug/L			12/04/16 19:13	1
Dichlorobromomethane	ND		0.20		ug/L			12/04/16 19:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/04/16 19:13	1
Toluene	ND		0.20		ug/L			12/04/16 19:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			12/04/16 19:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			12/04/16 19:13	1
Tetrachloroethene	ND		0.50		ug/L			12/04/16 19:13	1
1,3-Dichloropropane	ND		0.20		ug/L			12/04/16 19:13	1
Chlorodibromomethane	ND		0.20		ug/L			12/04/16 19:13	1
1,2-Dibromoethane	ND		0.10		ug/L			12/04/16 19:13	1
Chlorobenzene	ND		0.20		ug/L			12/04/16 19:13	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 19:13	1
Ethylbenzene	ND		0.20		ug/L			12/04/16 19:13	1
m-Xylene & p-Xylene	ND		0.50		ug/L			12/04/16 19:13	1
o-Xylene	ND		0.50		ug/L			12/04/16 19:13	1
Styrene	ND		0.50		ug/L			12/04/16 19:13	1
Bromoform	ND		0.50		ug/L			12/04/16 19:13	1
Isopropylbenzene	ND		0.50		ug/L			12/04/16 19:13	1
Bromobenzene	ND		0.20		ug/L			12/04/16 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 19:13	1
1,2,3-Trichloropropane	ND		0.20		ug/L			12/04/16 19:13	1
N-Propylbenzene	ND		0.20		ug/L			12/04/16 19:13	1
2-Chlorotoluene	ND		0.50		ug/L			12/04/16 19:13	1
4-Chlorotoluene	ND		0.30		ug/L			12/04/16 19:13	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/04/16 19:13	1
tert-Butylbenzene	ND		0.50		ug/L			12/04/16 19:13	1
1,2,4-Trimethylbenzene	ND		0.20		ug/L			12/04/16 19:13	1

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-7
Date Collected: 12/02/16 10:07
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50		ug/L			12/04/16 19:13	1
4-Isopropyltoluene	ND		0.30		ug/L			12/04/16 19:13	1
1,3-Dichlorobenzene	ND		0.30		ug/L			12/04/16 19:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			12/04/16 19:13	1
n-Butylbenzene	ND		0.50		ug/L			12/04/16 19:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			12/04/16 19:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/04/16 19:13	1
1,2,4-Trichlorobenzene	ND		0.20		ug/L			12/04/16 19:13	1
Hexachlorobutadiene	ND		0.50		ug/L			12/04/16 19:13	1
Naphthalene	ND		0.50		ug/L			12/04/16 19:13	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			12/04/16 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*12/04/16 19:13*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*12/04/16 19:13*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*12/04/16 19:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*12/04/16 19:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*12/04/16 19:13*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/05/16 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*12/05/16 15:49*	*1*
Trifluorotoluene (Surr)	*96*		*50 - 150*		*12/05/16 15:49*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0099		ug/L		12/05/16 13:53	12/05/16 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*118*		*70 - 130*	*12/05/16 13:53*	*12/05/16 18:15*	*1*

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-8
Date Collected: 12/02/16 09:45
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.40		ug/L			12/04/16 19:39	1
Chloromethane	ND		0.30		ug/L			12/04/16 19:39	1
Vinyl chloride	ND		0.020		ug/L			12/04/16 19:39	1
Bromomethane	ND		1.0		ug/L			12/04/16 19:39	1
Chloroethane	ND		0.50		ug/L			12/04/16 19:39	1
Trichlorofluoromethane	ND		0.50		ug/L			12/04/16 19:39	1
1,1-Dichloroethene	ND		0.10		ug/L			12/04/16 19:39	1
Methylene Chloride	ND		0.50		ug/L			12/04/16 19:39	1
Methyl tert-butyl ether	ND		0.20		ug/L			12/04/16 19:39	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 19:39	1
1,1-Dichloroethane	ND		0.20		ug/L			12/04/16 19:39	1
2,2-Dichloropropane	ND		0.50		ug/L			12/04/16 19:39	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 19:39	1
Chlorobromomethane	ND		0.20		ug/L			12/04/16 19:39	1
Chloroform	ND		0.20		ug/L			12/04/16 19:39	1
1,1,1-Trichloroethane	ND		0.20		ug/L			12/04/16 19:39	1
Carbon tetrachloride	ND		0.20		ug/L			12/04/16 19:39	1
1,1-Dichloropropene	ND		0.10		ug/L			12/04/16 19:39	1
Benzene	ND		0.20		ug/L			12/04/16 19:39	1
EDC	ND		0.20		ug/L			12/04/16 19:39	1
Trichloroethene	ND		0.20		ug/L			12/04/16 19:39	1
1,2-Dichloropropane	ND		0.20		ug/L			12/04/16 19:39	1
Dibromomethane	ND		0.20		ug/L			12/04/16 19:39	1
Dichlorobromomethane	ND		0.20		ug/L			12/04/16 19:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/04/16 19:39	1
Toluene	ND		0.20		ug/L			12/04/16 19:39	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			12/04/16 19:39	1
1,1,2-Trichloroethane	ND		0.20		ug/L			12/04/16 19:39	1
Tetrachloroethene	ND		0.50		ug/L			12/04/16 19:39	1
1,3-Dichloropropane	ND		0.20		ug/L			12/04/16 19:39	1
Chlorodibromomethane	ND		0.20		ug/L			12/04/16 19:39	1
1,2-Dibromoethane	ND		0.10		ug/L			12/04/16 19:39	1
Chlorobenzene	ND		0.20		ug/L			12/04/16 19:39	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 19:39	1
Ethylbenzene	ND		0.20		ug/L			12/04/16 19:39	1
m-Xylene & p-Xylene	ND		0.50		ug/L			12/04/16 19:39	1
o-Xylene	ND		0.50		ug/L			12/04/16 19:39	1
Styrene	ND		0.50		ug/L			12/04/16 19:39	1
Bromoform	ND		0.50		ug/L			12/04/16 19:39	1
Isopropylbenzene	ND		0.50		ug/L			12/04/16 19:39	1
Bromobenzene	ND		0.20		ug/L			12/04/16 19:39	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 19:39	1
1,2,3-Trichloropropane	ND		0.20		ug/L			12/04/16 19:39	1
N-Propylbenzene	ND		0.20		ug/L			12/04/16 19:39	1
2-Chlorotoluene	ND		0.50		ug/L			12/04/16 19:39	1
4-Chlorotoluene	ND		0.30		ug/L			12/04/16 19:39	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/04/16 19:39	1
tert-Butylbenzene	ND		0.50		ug/L			12/04/16 19:39	1
1,2,4-Trimethylbenzene	ND		0.20		ug/L			12/04/16 19:39	1

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-8
Date Collected: 12/02/16 09:45
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.50		ug/L			12/04/16 19:39	1
4-Isopropyltoluene	ND		0.30		ug/L			12/04/16 19:39	1
1,3-Dichlorobenzene	ND		0.30		ug/L			12/04/16 19:39	1
1,4-Dichlorobenzene	ND		0.30		ug/L			12/04/16 19:39	1
n-Butylbenzene	ND		0.50		ug/L			12/04/16 19:39	1
1,2-Dichlorobenzene	ND		0.30		ug/L			12/04/16 19:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/04/16 19:39	1
1,2,4-Trichlorobenzene	ND		0.20		ug/L			12/04/16 19:39	1
Hexachlorobutadiene	ND		0.50		ug/L			12/04/16 19:39	1
Naphthalene	ND		0.50		ug/L			12/04/16 19:39	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			12/04/16 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*12/04/16 19:39*	*1*
Trifluorotoluene (Surr)	*97*		*74 - 118*		*12/04/16 19:39*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*12/04/16 19:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*12/04/16 19:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*12/04/16 19:39*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/05/16 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*		*12/05/16 16:22*	*1*
Trifluorotoluene (Surr)	*97*		*50 - 150*		*12/05/16 16:22*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0099		ug/L		12/05/16 13:53	12/05/16 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*117*		*70 - 130*	*12/05/16 13:53*	*12/05/16 18:36*	*1*

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

Lab Sample ID: MB 580-233813/4
Matrix: Water
Analysis Batch: 233813

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.40		ug/L			12/04/16 15:48	1
Chloromethane	ND		0.30		ug/L			12/04/16 15:48	1
Vinyl chloride	ND		0.020		ug/L			12/04/16 15:48	1
Bromomethane	ND		1.0		ug/L			12/04/16 15:48	1
Chloroethane	ND		0.50		ug/L			12/04/16 15:48	1
Trichlorofluoromethane	ND		0.50		ug/L			12/04/16 15:48	1
1,1-Dichloroethene	ND		0.10		ug/L			12/04/16 15:48	1
Methylene Chloride	ND		0.50		ug/L			12/04/16 15:48	1
Methyl tert-butyl ether	ND		0.20		ug/L			12/04/16 15:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 15:48	1
1,1-Dichloroethane	ND		0.20		ug/L			12/04/16 15:48	1
2,2-Dichloropropane	ND		0.50		ug/L			12/04/16 15:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			12/04/16 15:48	1
Chlorobromomethane	ND		0.20		ug/L			12/04/16 15:48	1
Chloroform	ND		0.20		ug/L			12/04/16 15:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			12/04/16 15:48	1
Carbon tetrachloride	ND		0.20		ug/L			12/04/16 15:48	1
1,1-Dichloropropene	ND		0.10		ug/L			12/04/16 15:48	1
Benzene	ND		0.20		ug/L			12/04/16 15:48	1
EDC	ND		0.20		ug/L			12/04/16 15:48	1
Trichloroethene	ND		0.20		ug/L			12/04/16 15:48	1
1,2-Dichloropropane	ND		0.20		ug/L			12/04/16 15:48	1
Dibromomethane	ND		0.20		ug/L			12/04/16 15:48	1
Dichlorobromomethane	ND		0.20		ug/L			12/04/16 15:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			12/04/16 15:48	1
Toluene	ND		0.20		ug/L			12/04/16 15:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			12/04/16 15:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			12/04/16 15:48	1
Tetrachloroethene	ND		0.50		ug/L			12/04/16 15:48	1
1,3-Dichloropropane	ND		0.20		ug/L			12/04/16 15:48	1
Chlorodibromomethane	ND		0.20		ug/L			12/04/16 15:48	1
1,2-Dibromoethane	ND		0.10		ug/L			12/04/16 15:48	1
Chlorobenzene	ND		0.20		ug/L			12/04/16 15:48	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 15:48	1
Ethylbenzene	ND		0.20		ug/L			12/04/16 15:48	1
m-Xylene & p-Xylene	ND		0.50		ug/L			12/04/16 15:48	1
o-Xylene	ND		0.50		ug/L			12/04/16 15:48	1
Styrene	ND		0.50		ug/L			12/04/16 15:48	1
Bromoform	ND		0.50		ug/L			12/04/16 15:48	1
Isopropylbenzene	ND		0.50		ug/L			12/04/16 15:48	1
Bromobenzene	ND		0.20		ug/L			12/04/16 15:48	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			12/04/16 15:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			12/04/16 15:48	1
N-Propylbenzene	ND		0.20		ug/L			12/04/16 15:48	1
2-Chlorotoluene	ND		0.50		ug/L			12/04/16 15:48	1
4-Chlorotoluene	ND		0.30		ug/L			12/04/16 15:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			12/04/16 15:48	1
tert-Butylbenzene	ND		0.50		ug/L			12/04/16 15:48	1

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

Lab Sample ID: MB 580-233813/4
Matrix: Water
Analysis Batch: 233813

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.20		ug/L			12/04/16 15:48	1
sec-Butylbenzene	ND		0.50		ug/L			12/04/16 15:48	1
4-Isopropyltoluene	ND		0.30		ug/L			12/04/16 15:48	1
1,3-Dichlorobenzene	ND		0.30		ug/L			12/04/16 15:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			12/04/16 15:48	1
n-Butylbenzene	ND		0.50		ug/L			12/04/16 15:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			12/04/16 15:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			12/04/16 15:48	1
1,2,4-Trichlorobenzene	ND		0.20		ug/L			12/04/16 15:48	1
Hexachlorobutadiene	ND		0.50		ug/L			12/04/16 15:48	1
Naphthalene	ND		0.50		ug/L			12/04/16 15:48	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			12/04/16 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*12/04/16 15:48*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*12/04/16 15:48*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*12/04/16 15:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*12/04/16 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*12/04/16 15:48*	*1*

Lab Sample ID: LCS 580-233813/5
Matrix: Water
Analysis Batch: 233813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	5.00	3.72		ug/L		74	45 - 150
Chloromethane	5.00	4.11		ug/L		82	40 - 150
Vinyl chloride	5.00	4.55		ug/L		91	59 - 140
Bromomethane	5.00	5.66		ug/L		113	61 - 135
Chloroethane	5.00	5.42		ug/L		108	58 - 130
Trichlorofluoromethane	5.00	5.24		ug/L		105	60 - 150
1,1-Dichloroethene	5.04	4.94		ug/L		98	64 - 125
Methylene Chloride	5.02	4.94		ug/L		98	58 - 134
Methyl tert-butyl ether	5.01	5.21		ug/L		104	56 - 150
trans-1,2-Dichloroethene	5.01	5.17		ug/L		103	69 - 124
1,1-Dichloroethane	5.00	5.23		ug/L		105	68 - 135
2,2-Dichloropropane	5.00	6.14		ug/L		123	60 - 150
cis-1,2-Dichloroethene	5.01	5.19		ug/L		104	73 - 130
Chlorobromomethane	5.01	5.19		ug/L		104	71 - 131
Chloroform	5.00	5.13		ug/L		103	71 - 130
1,1,1-Trichloroethane	5.02	5.26		ug/L		105	56 - 150
Carbon tetrachloride	5.01	4.89		ug/L		98	54 - 150
1,1-Dichloropropene	5.00	5.17		ug/L		103	64 - 146
Benzene	5.02	5.17		ug/L		103	73 - 120
EDC	5.00	5.00		ug/L		100	63 - 150
Trichloroethene	5.01	5.87		ug/L		117	72 - 123
1,2-Dichloropropane	5.00	5.06		ug/L		101	72 - 120
Dibromomethane	5.02	5.19		ug/L		104	65 - 137

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

Lab Sample ID: LCS 580-233813/5
Matrix: Water
Analysis Batch: 233813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	5.02	4.99		ug/L		100	62 - 150
cis-1,3-Dichloropropene	5.01	5.21		ug/L		104	54 - 150
Toluene	5.00	5.34		ug/L		107	70 - 126
trans-1,3-Dichloropropene	5.00	5.22		ug/L		104	40 - 150
1,1,2-Trichloroethane	5.02	5.28		ug/L		105	62 - 137
Tetrachloroethene	5.01	5.10		ug/L		102	67 - 123
1,3-Dichloropropane	5.01	5.23		ug/L		104	61 - 130
Chlorodibromomethane	5.01	4.97		ug/L		99	46 - 150
1,2-Dibromoethane	5.01	5.31		ug/L		106	56 - 146
Chlorobenzene	5.02	5.25		ug/L		104	74 - 114
1,1,1,2-Tetrachloroethane	5.02	5.14		ug/L		102	68 - 139
Ethylbenzene	5.02	5.56		ug/L		111	74 - 125
m-Xylene & p-Xylene	5.01	5.36		ug/L		107	73 - 130
o-Xylene	5.01	5.35		ug/L		107	80 - 139
Styrene	5.01	5.22		ug/L		104	68 - 136
Bromoform	5.02	5.10		ug/L		102	51 - 137
Isopropylbenzene	5.01	5.60		ug/L		112	75 - 137
Bromobenzene	5.00	5.13		ug/L		103	68 - 130
1,1,2,2-Tetrachloroethane	5.01	3.51		ug/L		70	60 - 134
1,2,3-Trichloropropane	5.01	5.38		ug/L		107	45 - 150
N-Propylbenzene	5.00	5.58		ug/L		112	61 - 142
2-Chlorotoluene	5.00	5.06		ug/L		101	68 - 130
4-Chlorotoluene	5.01	5.10		ug/L		102	75 - 130
1,3,5-Trimethylbenzene	5.01	5.46		ug/L		109	70 - 145
tert-Butylbenzene	5.00	5.24		ug/L		105	55 - 150
1,2,4-Trimethylbenzene	5.00	5.33		ug/L		107	70 - 142
sec-Butylbenzene	5.01	5.59		ug/L		112	62 - 140
4-Isopropyltoluene	5.00	5.38		ug/L		108	72 - 127
1,3-Dichlorobenzene	5.01	5.35		ug/L		107	76 - 120
1,4-Dichlorobenzene	5.01	5.32		ug/L		106	77 - 120
n-Butylbenzene	5.01	5.20		ug/L		104	66 - 125
1,2-Dichlorobenzene	5.00	5.39		ug/L		108	73 - 120
1,2-Dibromo-3-Chloropropane	5.01	5.50		ug/L		110	34 - 150
1,2,4-Trichlorobenzene	5.00	5.76		ug/L		115	60 - 138
Hexachlorobutadiene	5.00	5.53		ug/L		111	38 - 150
Naphthalene	5.01	5.93		ug/L		118	26 - 150
1,2,3-Trichlorobenzene	5.01	5.55		ug/L		111	60 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*74 - 118*
Dibromofluoromethane (Surr)	*101*		*42 - 132*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

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

Lab Sample ID: LCSD 580-233813/6
Matrix: Water
Analysis Batch: 233813

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
Dichlorodifluoromethane	5.00	3.41		ug/L		68	45 - 150	9	29
Chloromethane	5.00	3.90		ug/L		78	40 - 150	5	31
Vinyl chloride	5.00	4.26		ug/L		85	59 - 140	7	30
Bromomethane	5.00	5.31		ug/L		106	61 - 135	6	31
Chloroethane	5.00	4.99		ug/L		100	58 - 130	8	35
Trichlorofluoromethane	5.00	5.06		ug/L		101	60 - 150	4	31
1,1-Dichloroethene	5.04	4.50		ug/L		89	64 - 125	9	28
Methylene Chloride	5.02	4.66		ug/L		93	58 - 134	6	29
Methyl tert-butyl ether	5.01	5.01		ug/L		100	56 - 150	4	26
trans-1,2-Dichloroethene	5.01	4.94		ug/L		99	69 - 124	5	27
1,1-Dichloroethane	5.00	4.98		ug/L		100	68 - 135	5	27
2,2-Dichloropropane	5.00	5.23		ug/L		105	60 - 150	16	29
cis-1,2-Dichloroethene	5.01	5.08		ug/L		101	73 - 130	2	20
Chlorobromomethane	5.01	5.11		ug/L		102	71 - 131	2	20
Chloroform	5.00	4.92		ug/L		98	71 - 130	4	20
1,1,1-Trichloroethane	5.02	4.99		ug/L		100	56 - 150	5	29
Carbon tetrachloride	5.01	4.60		ug/L		92	54 - 150	6	30
1,1-Dichloropropene	5.00	4.90		ug/L		98	64 - 146	6	20
Benzene	5.02	4.91		ug/L		98	73 - 120	5	20
EDC	5.00	4.92		ug/L		98	63 - 150	2	29
Trichloroethene	5.01	5.63		ug/L		112	72 - 123	4	20
1,2-Dichloropropane	5.00	4.76		ug/L		95	72 - 120	6	20
Dibromomethane	5.02	5.05		ug/L		101	65 - 137	3	20
Dichlorobromomethane	5.02	4.77		ug/L		95	62 - 150	5	20
cis-1,3-Dichloropropene	5.01	4.84		ug/L		97	54 - 150	7	28
Toluene	5.00	5.00		ug/L		100	70 - 126	7	20
trans-1,3-Dichloropropene	5.00	4.89		ug/L		98	40 - 150	6	30
1,1,2-Trichloroethane	5.02	4.95		ug/L		99	62 - 137	6	30
Tetrachloroethene	5.01	4.70		ug/L		94	67 - 123	8	20
1,3-Dichloropropane	5.01	4.86		ug/L		97	61 - 130	7	29
Chlorodibromomethane	5.01	4.81		ug/L		96	46 - 150	3	20
1,2-Dibromoethane	5.01	4.95		ug/L		99	56 - 146	7	20
Chlorobenzene	5.02	4.91		ug/L		98	74 - 114	7	12
1,1,1,2-Tetrachloroethane	5.02	4.95		ug/L		99	68 - 139	4	20
Ethylbenzene	5.02	5.24		ug/L		104	74 - 125	6	20
m-Xylene & p-Xylene	5.01	5.02		ug/L		100	73 - 130	6	20
o-Xylene	5.01	5.14		ug/L		103	80 - 139	4	20
Styrene	5.01	4.96		ug/L		99	68 - 136	5	20
Bromoform	5.02	4.83		ug/L		96	51 - 137	6	20
Isopropylbenzene	5.01	5.30		ug/L		106	75 - 137	5	20
Bromobenzene	5.00	4.94		ug/L		99	68 - 130	4	20
1,1,2,2-Tetrachloroethane	5.01	3.31		ug/L		66	60 - 134	6	25
1,2,3-Trichloropropane	5.01	5.25		ug/L		105	45 - 150	2	20
N-Propylbenzene	5.00	5.31		ug/L		106	61 - 142	5	20
2-Chlorotoluene	5.00	4.83		ug/L		97	68 - 130	5	20
4-Chlorotoluene	5.01	4.85		ug/L		97	75 - 130	5	20
1,3,5-Trimethylbenzene	5.01	5.18		ug/L		104	70 - 145	5	20
tert-Butylbenzene	5.00	4.93		ug/L		99	55 - 150	6	20

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

Lab Sample ID: LCSD 580-233813/6
Matrix: Water
Analysis Batch: 233813

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
1,2,4-Trimethylbenzene			5.00	5.11		ug/L		102	70 - 142	4	20
sec-Butylbenzene			5.01	5.25		ug/L		105	62 - 140	6	20
4-Isopropyltoluene			5.00	5.08		ug/L		101	72 - 127	6	14
1,3-Dichlorobenzene			5.01	5.13		ug/L		102	76 - 120	4	12
1,4-Dichlorobenzene			5.01	5.13		ug/L		102	77 - 120	4	11
n-Butylbenzene			5.01	4.93		ug/L		99	66 - 125	5	20
1,2-Dichlorobenzene			5.00	5.19		ug/L		104	73 - 120	4	14
1,2-Dibromo-3-Chloropropane			5.01	5.32		ug/L		106	34 - 150	3	20
1,2,4-Trichlorobenzene			5.00	5.36		ug/L		107	60 - 138	7	20
Hexachlorobutadiene			5.00	5.16		ug/L		103	38 - 150	7	20
Naphthalene			5.01	5.52		ug/L		110	26 - 150	7	20
1,2,3-Trichlorobenzene			5.01	5.11		ug/L		102	60 - 137	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*74 - 118*
Dibromofluoromethane (Surr)	*102*		*42 - 132*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-233828/6
Matrix: Water
Analysis Batch: 233828

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/05/16 09:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*		*12/05/16 09:56*	*1*
Trifluorotoluene (Surr)	*100*		*50 - 150*		*12/05/16 09:56*	*1*

Lab Sample ID: LCS 580-233828/7
Matrix: Water
Analysis Batch: 233828

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline			1.16	1.15		mg/L		99	79 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*50 - 150*
Trifluorotoluene (Surr)	*106*		*50 - 150*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-233828/8
Matrix: Water
Analysis Batch: 233828

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
Gasoline			1.16	1.16		mg/L		100	79 - 110	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*50 - 150*
Trifluorotoluene (Surr)	*105*		*50 - 150*

Lab Sample ID: MB 580-233892/6
Matrix: Water
Analysis Batch: 233892

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.050		mg/L			12/06/16 10:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*		*12/06/16 10:01*	*1*
Trifluorotoluene (Surr)	*97*		*50 - 150*		*12/06/16 10:01*	*1*

Lab Sample ID: LCS 580-233892/7
Matrix: Water
Analysis Batch: 233892

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1.16	1.12		mg/L		96	79 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*50 - 150*
Trifluorotoluene (Surr)	*100*		*50 - 150*

Lab Sample ID: LCSD 580-233892/8
Matrix: Water
Analysis Batch: 233892

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
Gasoline			1.16	1.12		mg/L		97	79 - 110	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*
Trifluorotoluene (Surr)	*98*		*50 - 150*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 580-233849/2-A
Matrix: Water
Analysis Batch: 233847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010		ug/L		12/05/16 11:17	12/05/16 14:24	1

QC Sample Results

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	92		70 - 130	12/05/16 11:17	12/05/16 14:24	1

Lab Sample ID: LCS 580-233849/3-A
Matrix: Water
Analysis Batch: 233847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233849

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene Dibromide			0.0571	0.0633		ug/L		111	60 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dibromopropane	97		70 - 130

Lab Sample ID: LCSD 580-233849/4-A
Matrix: Water
Analysis Batch: 233847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide			0.0571	0.0599		ug/L		105	60 - 140	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dibromopropane	91		70 - 130

Lab Sample ID: LLCS 580-233849/5-A
Matrix: Water
Analysis Batch: 233847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233849

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene Dibromide			0.0200	0.0216		ug/L		108	60 - 140		

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
1,2-Dibromopropane	98		70 - 130

Lab Chronicle

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Client Sample ID: MW-1
Date Collected: 12/02/16 09:34
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233813	12/04/16 17:04	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	233828	12/05/16 12:36	J1J	TAL SEA
Total/NA	Prep	8011			233849	12/05/16 13:53	DCV	TAL SEA
Total/NA	Analysis	8011		1	233847	12/05/16 16:09	DCV	TAL SEA

Client Sample ID: MW-2
Date Collected: 12/02/16 09:15
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233813	12/04/16 17:29	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	233828	12/05/16 13:08	J1J	TAL SEA
Total/NA	Prep	8011			233849	12/05/16 13:53	DCV	TAL SEA
Total/NA	Analysis	8011		1	233847	12/05/16 16:29	DCV	TAL SEA

Client Sample ID: MW-3
Date Collected: 12/02/16 10:40
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	233813	12/04/16 20:30	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		25	233892	12/06/16 12:09	D1R	TAL SEA
Total/NA	Prep	8011			233849	12/05/16 13:53	DCV	TAL SEA
Total/NA	Analysis	8011		1	233847	12/05/16 16:49	DCV	TAL SEA

Client Sample ID: MW-4
Date Collected: 12/02/16 09:55
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233813	12/04/16 17:55	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	233892	12/06/16 11:37	D1R	TAL SEA
Total/NA	Prep	8011			233849	12/05/16 13:53	DCV	TAL SEA
Total/NA	Analysis	8011		1	233847	12/05/16 17:12	DCV	TAL SEA

Client Sample ID: MW-5
Date Collected: 12/02/16 10:30
Date Received: 12/02/16 14:35

Lab Sample ID: 580-64516-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233813	12/04/16 18:21	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	233828	12/05/16 14:45	J1J	TAL SEA

Lab Chronicle

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			233849	12/05/16 13:53	DCV	TAL SEA
Total/NA	Analysis	8011		1	233847	12/05/16 17:33	DCV	TAL SEA

Client Sample ID: MW-6

Lab Sample ID: 580-64516-6

Date Collected: 12/02/16 10:17

Matrix: Water

Date Received: 12/02/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233813	12/04/16 18:47	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	233828	12/05/16 15:17	J1J	TAL SEA
Total/NA	Prep	8011			233849	12/05/16 13:53	DCV	TAL SEA
Total/NA	Analysis	8011		1	233847	12/05/16 17:54	DCV	TAL SEA

Client Sample ID: MW-7

Lab Sample ID: 580-64516-7

Date Collected: 12/02/16 10:07

Matrix: Water

Date Received: 12/02/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233813	12/04/16 19:13	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	233828	12/05/16 15:49	J1J	TAL SEA
Total/NA	Prep	8011			233849	12/05/16 13:53	DCV	TAL SEA
Total/NA	Analysis	8011		1	233847	12/05/16 18:15	DCV	TAL SEA

Client Sample ID: MW-8

Lab Sample ID: 580-64516-8

Date Collected: 12/02/16 09:45

Matrix: Water

Date Received: 12/02/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233813	12/04/16 19:39	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	233828	12/05/16 16:22	J1J	TAL SEA
Total/NA	Prep	8011			233849	12/05/16 13:53	DCV	TAL SEA
Total/NA	Analysis	8011		1	233847	12/05/16 18:36	DCV	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-17

Analysis Method	Prep Method	Matrix	Analyte

Sample Summary

Client: Blaes Environmental Inc.
Project/Site: Circle K #6042 Naches, Wa

TestAmerica Job ID: 580-64516-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-64516-1	MW-1	Water	12/02/16 09:34	12/02/16 14:35
580-64516-2	MW-2	Water	12/02/16 09:15	12/02/16 14:35
580-64516-3	MW-3	Water	12/02/16 10:40	12/02/16 14:35
580-64516-4	MW-4	Water	12/02/16 09:55	12/02/16 14:35
580-64516-5	MW-5	Water	12/02/16 10:30	12/02/16 14:35
580-64516-6	MW-6	Water	12/02/16 10:17	12/02/16 14:35
580-64516-7	MW-7	Water	12/02/16 10:07	12/02/16 14:35
580-64516-8	MW-8	Water	12/02/16 09:45	12/02/16 14:35

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

Loc: 580
64516

☒ Rush
☐ Short Hold

Chain of Custody Record

Client: BLAES ENVIRONMENTAL	Client Contact: D. BLAES	Date: 12/2/16	Chain of Custody Number: 32906
Address: 45 E. MONTEREY WAY	Telephone Number (Area Code)/Fax Number: 602-728-0707	Lab Number:	Page 1 of 1
City: PHOENIX / State: AZ / Zip Code: 85012	Sampler: D. BLAES	Lab Contact:	
Project Name and Location (State): CIRCLE K #6042 NACHES, WA	Billing Contact:		
Contract/Purchase Order/Quote No.: 202-6042			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: 8015-NWTPH-Gx	8260 BTEX	EDC	Special Instructions/ Conditions of Receipt
MW-1	12/2/16	9:37 AM		X									X	X	X	5-DAY TAT
MW-2		9:15		X									X	X	X	
MW-3		10:40		X									X	X	X	
MW-4		9:55		X									X	X	X	
MW-5		10:30		X									X	X	X	
MW-6		10:17		X									X	X	X	
MW-7		10:07		X									X	X	X	
MW-8		9:45 AM		X									X	X	X	

580-64516 Chain of Custody

TB A2 Cooler Cor 1.2 W/O Unc 1.4
Cooler Dsc Lg Red @Lab
Wet/Packs Packing bub
clinic

Cooler: ☒ Yes ☐ No Cooler Temp: _____

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

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

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☒ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print	12/2/16	2:35 pm	1. Received By Sign/Print: Tom B / Blankinship	12/2/16	1435
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Blaes Environmental Inc.

Job Number: 580-64516-1

Login Number: 64516
List Number: 1
Creator: Gall, Brandon A

List Source: TestAmerica Seattle

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.	N/A	Not present
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	
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 (excluding tests with immediate HTs)	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.	N/A	
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").	False	Headspace larger than 1/4" in one vial for sample #4
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	