

January 13, 2016

Mrs. Erin Black
National EHSS Manager
The Coca-Cola Company
PO Box 1734
Atlanta, Georgia 30301
eblack@coca-cola.com

**RE: 2015 Groundwater Monitoring and Sampling Report
Former Coca Cola Bottling Company of Washington Facility
2101 Woburn Street
Bellingham, Washington 98229
ATC Project No. Z076000021**

Dear Mrs. Black:

On behalf of Coca Cola Refreshments (Coca Cola), ATC Group Services, LLC (ATC) has prepared this report describing groundwater monitoring and sampling activities performed during 2015 at the former Coca Cola Bottling Company of Washington facility located at 2101 Woburn Street in Bellingham, Washington (Figure 1, Site Vicinity Map) and off-property (Site). The groundwater assessment activities were performed subsequent to the Site's acceptance into the Voluntary Cleanup Program (VCP) by the Washington State Department of Ecology (Ecology) and was intended to address data gaps identified by Ecology in their advisory opinion letter (issued under the specific authority of Revised Code of Washington [RCW] 70.105D.030[1][i] and Washington Administrative Code [WAC] 173-340-515[5]) dated March 25, 2013 and continue the scope of work outlined in Cardno's February 20, 2014 *Work Plan for the Assessment of Off-Property Impacts and Groundwater Well Installation and Monitoring Program*, which was approved by Ecology in their May 19, 2014 advisory opinion letter.

The objective of the quarterly groundwater monitoring performed in 2015 was to characterize potential off-property impacts and Site groundwater over four consecutive quarters in accordance with the Model Toxics Control Act (MTCA) and its implementation regulations defined in RCW Chapter 70.105D and WAC Chapter 173-340.

SITE DESCRIPTION AND BACKGROUND

The former Coca Cola Bottling Company of Washington - Bellingham Facility is located at 2101 Woburn Street, Bellingham, Whatcom County, Washington. The property is comprised of approximately 2.6-acres and is bounded to the north by Woburn Street, to the south by Kentucky Street and to the west by Valencia Street. Access to the property is from Woburn Street to the east or Valencia Street to the west (**Figure 1**).

Environmental assessment activities were initiated at the Site in 1990 by an independent Coca Cola bottler with the removal of a 2,000-gallon underground storage tank (UST) by Colacurcio Brothers Construction Company. The UST, which had been installed in 1978, along with a fuel dispenser, was used to store and supply unleaded gasoline to service vehicles utilized by Coca-Cola. Coca-Cola began storing diesel fuel in the UST in approximately 1988. In 1989, approximately 60 to 100 gallons of diesel fuel was reportedly spilled during fueling activities. During the 1990 removal of the UST, approximately 20 cubic yards of petroleum hydrocarbon impacted soil was over-excavated and approximately 40 gallons of petroleum hydrocarbon impacted groundwater was removed from the excavation.

In 1999, IT Corporation (IT) of Renton, Washington performed a limited subsurface investigation the subsequent report concluded the following: 1) concentrations of diesel in soil above MTCA Method A cleanup levels were detected at shallow depths in a limited area west of the former UST; 2) petroleum hydrocarbon impact to groundwater is limited to noncontiguous perched water-bearing zones; and 3) the total concentration of carcinogenic polynuclear hydrocarbons (cPAHS) meet Ecology's criteria of being protective to human health and groundwater. The February 28, 2000 report also included an application to enter the Site into Ecology's Voluntary Cleanup Program (VCP), and a request for the Site to be granted a No Further Action (NFA) determination with Ecology under the VCP.

In a May 5, 2000 opinion advisory letter from Ecology to IT, Ecology requested further remedial action to be performed at the Site before a NFA determination could be granted. Between 2005 and 2011 further subsurface assessment was conducted by John Harrie Consultants (JHC) of Vancouver, Washington and Cardno /ATC of Seattle, Washington, which included the advancement of twenty-five (25) soil borings, five (5) hand-auger soil borings and the installation of groundwater monitoring wells MW-1 through MW-7. In 2006 JHC oversaw the excavation and removal of approximately 32 tons of petroleum hydrocarbon impacted soil from the vicinity of the former UST.

The soil assessment activities, determined that the greatest concentrations of petroleum contaminated soil to be located between the surface and 3.5 feet below ground surface, with the maximum concentrations identified in the area along the western property boundary. The groundwater monitoring and sampling activities indicated that only groundwater within the intermittent shallow water bearing zone contained dissolved petroleum hydrocarbons.

On October 18, 2011 the remediation contractor, Clearcreek Contractors, Inc. (CCI) began excavation activities in areas previously identified to contain petroleum hydrocarbon impacts to soil. During the excavation activities groundwater monitoring wells MW-2, MW-3, MW-4, MW-6, and MW-7 were removed.

Based on the laboratory analytical results of confirmation soil samples, the contaminants of concern (COCs) were removed to concentrations below the MTCA Method A cleanup levels in the north, east and south directions. Laboratory analytical results indicate that concentrations of gasoline and diesel are present along a portion of the eastern bounds of 4-foot diameter corrugated steel storm line, located within Valencia Street. Despite the presence of petroleum hydrocarbons in concentrations above MTCA Method A cleanup levels, the remedial excavation was not expanded west of the 4-foot corrugated steel storm line in order to not compromise municipal subsurface infrastructures.

With the exception of the localized, limited soil along the east side of the storm line beneath Valencia Street, the Site was remediated to the extent practicable to MTCA Method A cleanup levels as defined under the MTCA Cleanup Regulation WAC Chapter 173-340.

The results of the remedial activities were summarized in the Remedial Action Report dated November 15, 2012, which was submitted to Ecology along with an application to the VCP. In response to the November 15, 2012 Remedial Action Report, an opinion was issued by Ecology in an advisory opinion letter dated March 25, 2013. The opinion determined that further remedial action would be necessary to obtain a NFA determination for the Site, specifically the issuance of a NFA letter would be achieved if Site groundwater monitoring results demonstrate that groundwater contains concentrations of COCs below MTCA Method A cleanup levels for four consecutive quarters. Ecology also recommended the installation of at least one groundwater monitoring well in a location in the down-gradient direction of groundwater flow from areas of previously identified with impacted groundwater.

On November 4 and 5, 2014, Cardno oversaw the installation of groundwater monitoring wells MW-8, MW-9 and MW-10 to ascertain on property groundwater conditions and conditions west of the 4-foot corrugated steel storm line located below Valencia Street. Soil samples collected during the installation of groundwater monitoring wells MW-8, MW-9, and MW-10 did not contain detectable concentrations of gasoline, diesel, or BTEX, indicating that soil east of the 4-foot corrugated steel storm line is not impacted by petroleum hydrocarbons.

On November 11, 2014, depth to groundwater was measured and groundwater samples were collected (post low-flow purging) from existing groundwater monitoring wells MW-1 and MW-5, and newly installed groundwater monitoring wells MW-8, MW-9, and MW-10. Laboratory analysis indicated the November 11, 2014 groundwater samples did not contain detectable concentrations of gasoline, BTEX, diesel, and heavy oil.

OBJECTIVE AND SCOPE OF WORK

ATC's scope of work was to continue groundwater monitoring and sampling after the event conducted on November 11, 2014 over three additional consecutive quarters to assess groundwater compliance with the MTCA Cleanup Regulation WAC Chapter 173-340.

GROUNDWATER MONITORING AND SAMPLING

On January 27, June 4, 2015, and September 18, 2015 ATC gauged depth to water and collected post-purge groundwater samples from the five Site-related groundwater monitoring wells, MW-1, MW-5, MW-8, MW-9, and MW-10. Each groundwater monitoring well was purged using low-flow sampling techniques. During low-flow groundwater purging, high density polyethylene (HDPE) tubing was lowered into the well to the approximate center of the well screen interval. Groundwater was then purged by means of a peristaltic pump set at a steady flow rate while maintaining a drawdown of less than 0.33 feet. After a minimum of one tubing volume (including the volume of water in the pump and flow cell) was purged, water physical parameters including turbidity, dissolved oxygen, electroconductivity, pH, temperature, and oxidation-reduction potential (ORP) were recorded every two to five minutes until stabilization occurred (i.e., when the following criteria were met):

pH: ± 0.1 pH units
Specific Conductance: $\pm 3\%$
ORP: ± 10 millivolts (mV)

After achievement of stabilization, the groundwater samples were collected from the discharge port of the pump into laboratory-prepared containers. The groundwater samples were then placed on ice, entered onto a chain of custody and transported to the analytical laboratory. To minimize the potential for cross contamination, the flow-through cell was cleaned and new HDPE tubing was used at each well. The well purge logs are presented in **Appendix A**.

The groundwater samples were analysed for gasoline utilizing Ecology Method NWTPH-Gx; diesel and oil utilizing Ecology Method NWTPH-Dx/Dx-Extended and BTEX utilizing EPA Method 8260. The laboratory analytical reports are included in **Appendix B** and the results are presented on Table 1, Summary of Groundwater Monitoring and Laboratory Analytical Results. Groundwater elevation isocontour lines are depicted per event on **Figures 2, 3, and 4**.

GROUNDWATER ELEVATIONS

Depths to groundwater and groundwater elevations from the January 27, June 4, 2015, and September 18, 2015 groundwater monitoring and sampling events along with previous groundwater monitoring and sampling events are summarized on **Table 1**.

On January 27, 2015, groundwater beneath the Site was first encountered between 74.93 to 80.72 ft above mean sea level (MSL). A groundwater elevation contour map based on the November 10, 2010 water level measurements is provided in **Figure 2**. The groundwater flow direction is predominantly to the west-northwest, under a gradient of approximately 0.08 feet per foot (ft/ft).

On June 4, 2015, groundwater beneath the Site was first encountered between 74.61 to 79.74 ft above mean sea level (MSL). A groundwater elevation contour map based on the November 10, 2010 water level measurements is provided in **Figure 3**. The groundwater flow direction is predominantly to the west, under a gradient of approximately 0.037 ft/ft.

On September 18, 2015, groundwater beneath the Site was first encountered between 74.93 to 80.72 ft above mean sea level (MSL). A groundwater elevation contour map based on the November 10, 2010 water level measurements is provided in **Figure 4**. The groundwater flow direction is predominantly to the west-northwest, under a gradient of approximately 0.08 ft/ft.

GROUNDWATER ANALYTICAL RESULTS

Analytical results for collected groundwater samples analyzed for gasoline, diesel, heavy oil, and BTEX are presented in **Table 1**. The certified analytical report is presented in **Appendix B**. In addition, a summary of the analytical results is presented below:

Gasoline:

Groundwater samples for laboratory analysis for gasoline by Ecology Method NWTPH-Gx were collected from groundwater monitoring wells MW-1, MW-5, MW-8, MW-9, and MW-10 on January 27, June 6, and September 18, 2015. Gasoline was not detected above method reporting limits in any of the groundwater samples analyzed. Method reporting limits are below the MTCA Method A groundwater cleanup level of 800 micrograms per liter ($\mu\text{g/L}$) for gasoline with benzene present in groundwater.

BTEX Compounds:

Groundwater samples for laboratory analysis for BTEX by EPA Method 8260 were collected from groundwater monitoring wells MW-1, MW-5, MW-8, MW-9, and MW-10 on January 27, June 6, and September 18, 2015. No BTEX compounds were detected above method reporting limits in any of the groundwater samples analyzed. Method reporting limits are below the MTCA Method A groundwater cleanup levels of 5 $\mu\text{g/L}$ for benzene, 1,000 $\mu\text{g/L}$ for toluene, 700 $\mu\text{g/L}$ for ethyl benzene, and 1,000 $\mu\text{g/L}$ for xylenes.

Diesel and Heavy Oil:

Groundwater samples for laboratory analysis for diesel and heavy oil by Ecology Method Dx/Extended were collected from groundwater monitoring wells MW-1, MW-5, MW-8, MW-9, and MW-10 on January 27, June 6, and September 18, 2015. Neither diesel nor heavy oil were detected above method reporting limits in any of the groundwater samples analyzed. Method reporting limits are below the MTCA Method A groundwater cleanup levels of 500 $\mu\text{g/L}$ for diesel and 500 $\mu\text{g/L}$ for heavy oil.

FINDINGS AND CONCLUSIONS

Findings and conclusions of this monitoring event are summarized as follows:

Data collected during groundwater monitoring and sampling events conducted on January 27, June 4, 2015, and September 18, 2015, along with the previous reported event performed on November 11, 2014 represent four consecutive quarters of groundwater monitoring and sampling performed at the request of Ecology in their advisory opinion letter dated March 25, 2013.

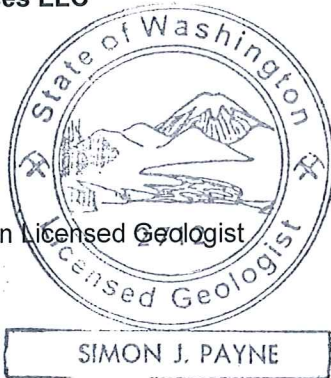
The results of the four quarters of groundwater monitoring and sampling indicate that dissolved petroleum hydrocarbons are not present concentrations above MTCA Method A cleanup levels and therefore groundwater at the Site is in compliance with the MTCA Cleanup Regulation WAC Chapter 173-340.

Based on the above and the previously reported soil conditions, ATC formally requests a No Further Action determination through Voluntary Cleanup Program with regard to the presence of petroleum hydrocarbons in soil and groundwater from previously reported releases to the Site.

We appreciate the opportunity to be of service in this matter. If you have questions regarding this report, please contact us at (206) 781-1449.

Sincerely,
ATC Group Services LLC

Simon Payne, LG
State of Washington Licensed Geologist
Project Geologist



Terry McDunner
Branch Manager

Attachments:

- Table 1 - Summary of Groundwater Monitoring and Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Map (01/27/15)
- Figure 3 – Groundwater Elevation Map (06/04/15)
- Figure 4 – Groundwater Elevation Map (09/18/15)
- Figure 3 – Soil Sample Location Map
- Appendix A - Well Purge Logs
- Appendix B - Laboratory Analytical Result

TABLES

Table 1: Summary of Groundwater Monitoring and Analytical Results
Former Coca Cola Facility
2101 Woburn St
Bellingham, Washington
Cardno Project No. Z076000021

Monitoring Well ID	TOC Reference Elevation (Bold indicates elevation in feet above MSL)	Sample Date	Depth to Water in feet below TOC	Groundwater Elevation (bold indicates groundwater elevations in feet above MSL)	Total Petroleum Hydrocarbons ¹ in µg/L			Volatile Organic Compounds (VOCs) ² in µg/L			
					Gasoline	Diesel (Fuel Oil)	Heavy Oil	Benzene	Toluene	Ethylbenzne	Total Xylenes
MW-1	99.54	9/22/2005	17.05	82.49	<250	<250	--	<0.50	<0.50	<0.50	<0.50
		3/7/2006	3.64	95.90	<250	790³	--	<0.50	<0.50	<0.50	<0.50
		8/8/2006	4.70	94.84	<250	<250	--	<0.50	<0.50	<0.50	<0.50
		11/6/2007	4.10	95.44	<250	<260	--	<0.50	<0.50	<0.50	<0.50
		11/17/2009	4.02	95.52	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		5/12/2010	3.88	95.66	<50	<100	<200	<1.0	<1.0	<1.0	<1.0
		9/8/2010	4.68	94.86	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		9/9/2010	NM	NM	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
	84.06	11/11/2014	3.25	80.81	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		1/27/2015	3.34	80.72	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		6/4/2015	4.32	79.74	<50.0	<49.9	<99.8	<1.00	<1.00	<1.00	<1.00
		9/18/2015	3.25	80.81	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
MW-2	97.11	9/21/2005	16.20	80.91	<250	<260	--	6.2	0.81	8.7	1.85
		3/7/2006	2.73	94.38	1,100⁴	<280	--	24	4.0	74	15.9
		8/8/2006	4.38	92.73	1,300⁴	<250	--	40	4.9	97	14.6
		11/6/2007	4.43	92.68	1,400⁴	2705	--	32	5.4	73	11.6
		11/17/2009	2.49	94.62	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		5/12/2010	4.70	92.41	<50	<100	<200	<1.0	<1.0	<1.0	<1.0
		9/8/2010	3.64	93.47	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		9/9/2010	14.61	82.50	730	<100	<200	<1.0	<1.0	6.30	<2.0
Well decommissioned during 2011 Site remediation											
MW-3	96.72	9/21/2005	26.25	70.47	<250	340 ³	--	2.6	<0.50	4.5	9.4
		3/7/2006	2.29	94.43	<250	<250	--	<0.50	<0.50	<0.50	<0.50
		8/8/2006	2.76	93.96	<250	<250	--	<0.50	<0.50	<0.50	<0.50
		11/6/2007	4.21	92.51	<250	<280	--	<0.50	<0.50	<0.50	<0.50
		11/17/2009	3.48	93.24	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		5/12/2010	4.02	92.70	<50	<100	<200	<1.0	<1.0	<1.0	<1.0
		9/8/2010	2.60	94.12	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		9/9/2010	13.05	83.67	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
Well decommissioned during 2011 Site remediation											

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Cardno Project No. Z076000021

Monitoring Well ID	TOC Reference Elevation (Bold indicates elevation in feet above MSL)	Sample Date	Depth to Water in feet below TOC	Groundwater Elevation (bold indicates groundwater elevations in feet above MSL)	Total Petroleum Hydrocarbons ¹ in µg/L			Volatile Organic Compounds (VOCs) ² in µg/L			
					Gasoline	Diesel (Fuel Oil)	Heavy Oil	Benzene	Toluene	Ethylbenzne	Total Xylenes
MW-4	95.24	3/7/2006	3.25	91.99	<250	340 ³	--	<0.50	<0.50	<0.50	<0.50
		8/8/2006	4.00	91.24	<250	<250	--	0.620	<0.50	1.80	<0.50
		11/6/2007	1.75	93.49	400 ⁴	<250	--	75.000	1.200	41	2.700
		11/17/2009	1.77	93.47	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		5/12/2010	2.92	92.32	<50	<100	<200	<1.0	<1.0	<1.0	<1.0
		9/8/2010	1.66	93.58	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		9/9/2010	14.30	80.94	120	<100	<200	1.000	<1.0	5.40	<2.0
Well decommissioned during 2011 Site remediation											
MW-5	97.02	11/6/2007	2.33	94.69	<250	<260	--	<0.50	<0.50	<0.50	<0.50
		11/17/2009	1.74	95.28	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		5/12/2010	2.05	94.97	<50	<100	<200	<1.0	<1.0	<1.0	<1.0
		9/8/2010	3.47	93.55	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		9/9/2010	2.47	94.55	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
	81.34	11/11/2014	3.00	78.34	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		1/27/2015	3.21	78.13	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		6/4/2015	3.39	77.95	<50.0	<49.9	<99.8	<1.00	<1.00	<1.00	<1.00
9/18/2015	3.25	78.09	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00		
MW-6	95.71	11/6/2007	1.43	94.28	310 ⁴	<260	--	1.6	0.7	2.0	1.1
		11/17/2009	1.43	94.28	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		5/12/2010	1.60	94.11	<50	<100	<200	<1.0	<1.0	<1.0	<1.0
		9/8/2010	1.77	93.94	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		9/9/2010	4.33	91.38	170	<100	<200	<1.0	<1.0	<1.0	<2.0
Well decommissioned during 2011 Site remediation											
MW-7	95.57	11/06/07	2.34	93.23	460 ⁴	<260	--	4.3	0.96	10	2.1
		11/17/09	1.57	94.00	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		05/12/10	1.85	93.72	<50	<100	<200	<1.0	<1.0	<1.0	<1.0
		09/08/10	1.64	93.93	<50	<100	<200	<1.0	<1.0	<1.0	<2.0
		09/09/10	5.50	90.07	100	<100	<200	<1.0	<1.0	<1.0	<2.0
Well decommissioned during 2011 Site remediation											

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					Gasoline	Diesel (Fuel Oil)	Heavy Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-8	80.27	11/11/2014	3.19	77.08	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		1/27/2015	2.89	77.38	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		6/24/2015	3.75	76.52	<50.0	<49.9	<99.8	<1.00	<1.00	<1.00	<1.00
		9/18/2015	3.25	77.02	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
MW-9	79.72	11/11/2014	4.73	74.99	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		1/27/2015	4.79	74.93	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		6/24/2015	5.11	74.61	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		9/18/2015	3.25	76.47	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
MW-10	79.97	11/11/2014	5.22	74.75	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		1/27/2015	4.51	75.46	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
		6/24/2015	5.17	74.80	<50.0	<49.9	<99.9	<1.00	<1.00	<1.00	<1.00
		9/18/2015	3.25	76.72	<50.0	<50.0	<100	<1.00	<1.00	<1.00	<1.00
MTCA Method A Cleanup Levels for Groundwater					800/1,000⁴	500	500	5	1,000	700	1,000

Notes:

TOC = Top of Casing

MSL = Mean sea level

µg/L = micrograms per liter

BTEX = Benzene, toluene, ethylbenzene, and xylenes

-- = Not analyzed

Bold indicates concentration is above MTCA Method A cleanup level

MTCA = Washington State Department of Ecology Model Toxics Control Act

NE = MTCA Method A cleanup level for groundwater not established

1 = Analytical results by gas chromatography by Washington State Department of Ecology Methods NWTPH-Gx and NWTPH-Dx/Dx Extended

2 = Analytical results by gas chromatography and mass spectrometry by United States Environmental Protection Agency Method 8260

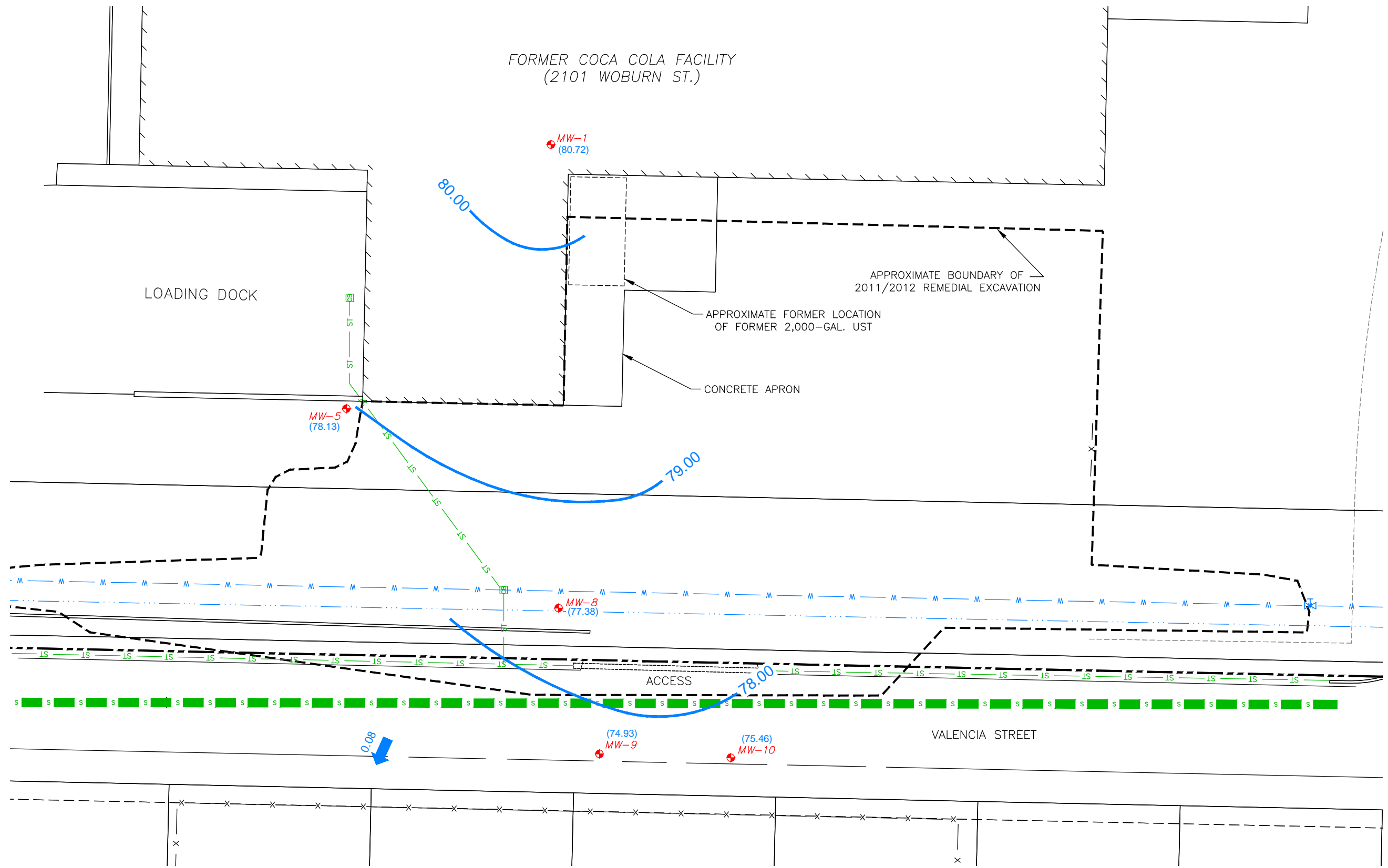
3 = Analytical results by cold vapor atomic absorption and inductively coupled plasma-atomic emission spectrometry by United States Environmental Protection Agency Methods 7470 and 6020

4 = MTCA Method A clean up level of 800 µg/L if benzene present in groundwater and 1,000 µg/L if no detectable benzene is present in groundwater

All analytical results reported in micrograms per liter (µg/L) or parts per billion (ppb)

FIGURES

FORMER COCA COLA FACILITY
(2101 WOBURN ST.)



LEGEND

- GROUNDWATER MONITOR WELL
- FORMER WOOD STAVE PIPE
- PROPERTY LINE
- CATCH BASIN
- 4' CORRUGATED STEEL STORM LINE
- FENCE
- 12" CAST IRON WATER MAIN
- STORM SEWER/CULVERT/DITCH
- (80.72) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- GROUNDWATER ELEVATION CONTOUR
- 0.04 APPROXIMATE GROUNDWATER GRADIENT (ft/ft)
- ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION



NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

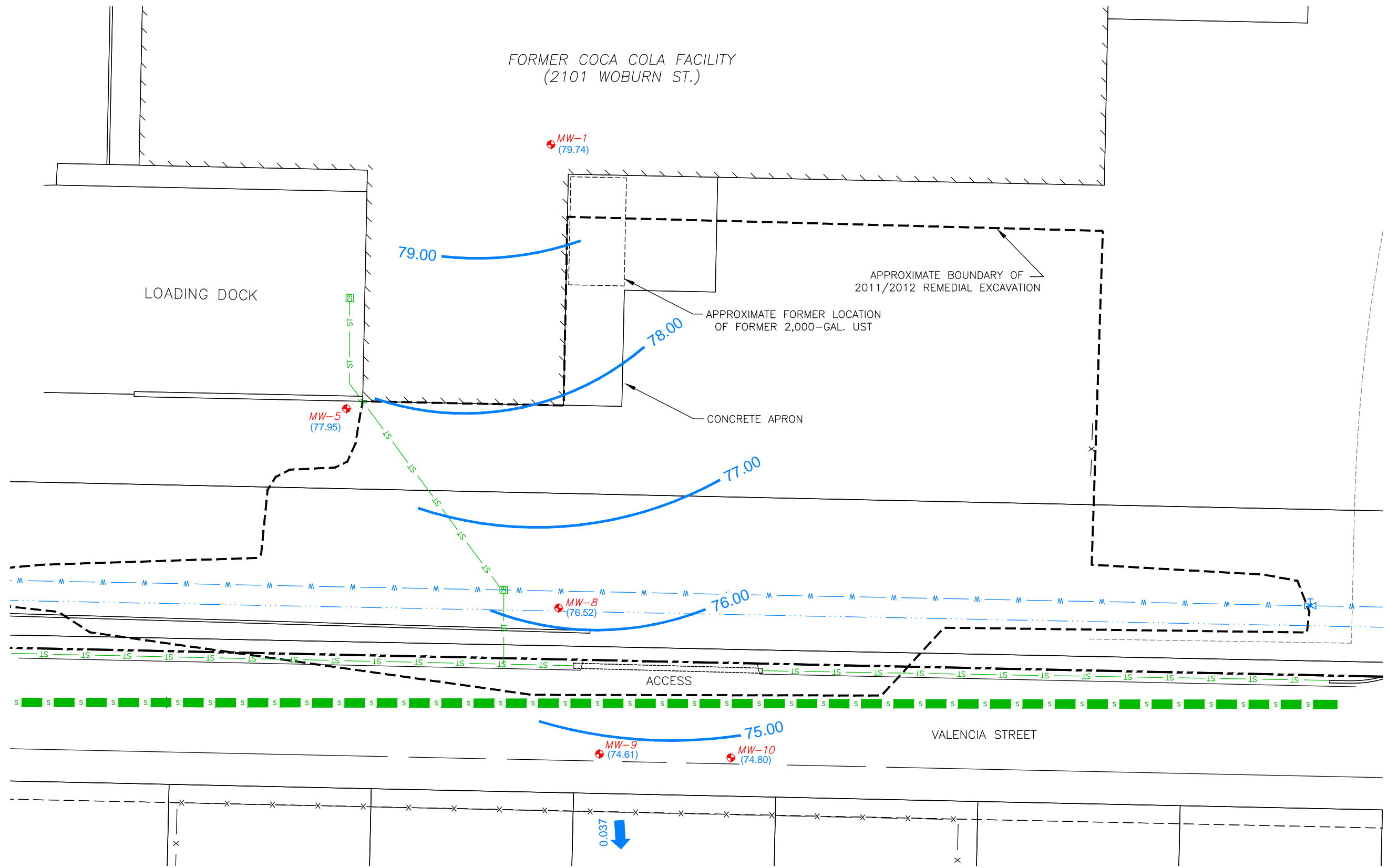
PROJECT NUMBER: Z076000021
 APPROVED BY: SP
 DATE: 1/21/16
 DRAWN BY: BK
ATC
 Ph: (206) 781-1449 *** Fax: (206) 781-1543
 6347 Seaview Avenue NW
 Seattle, Washington 98107

GROUNDWATER ELEVATION MAP
 (01/27/15)
 FORMER COCA-COLA BOTTLING COMPANY
 2101 WOBURN STREET
 BELLINGHAM, WA

FIGURE
2

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FORMER COCA COLA FACILITY
(2101 WOBURN ST.)



LEGEND

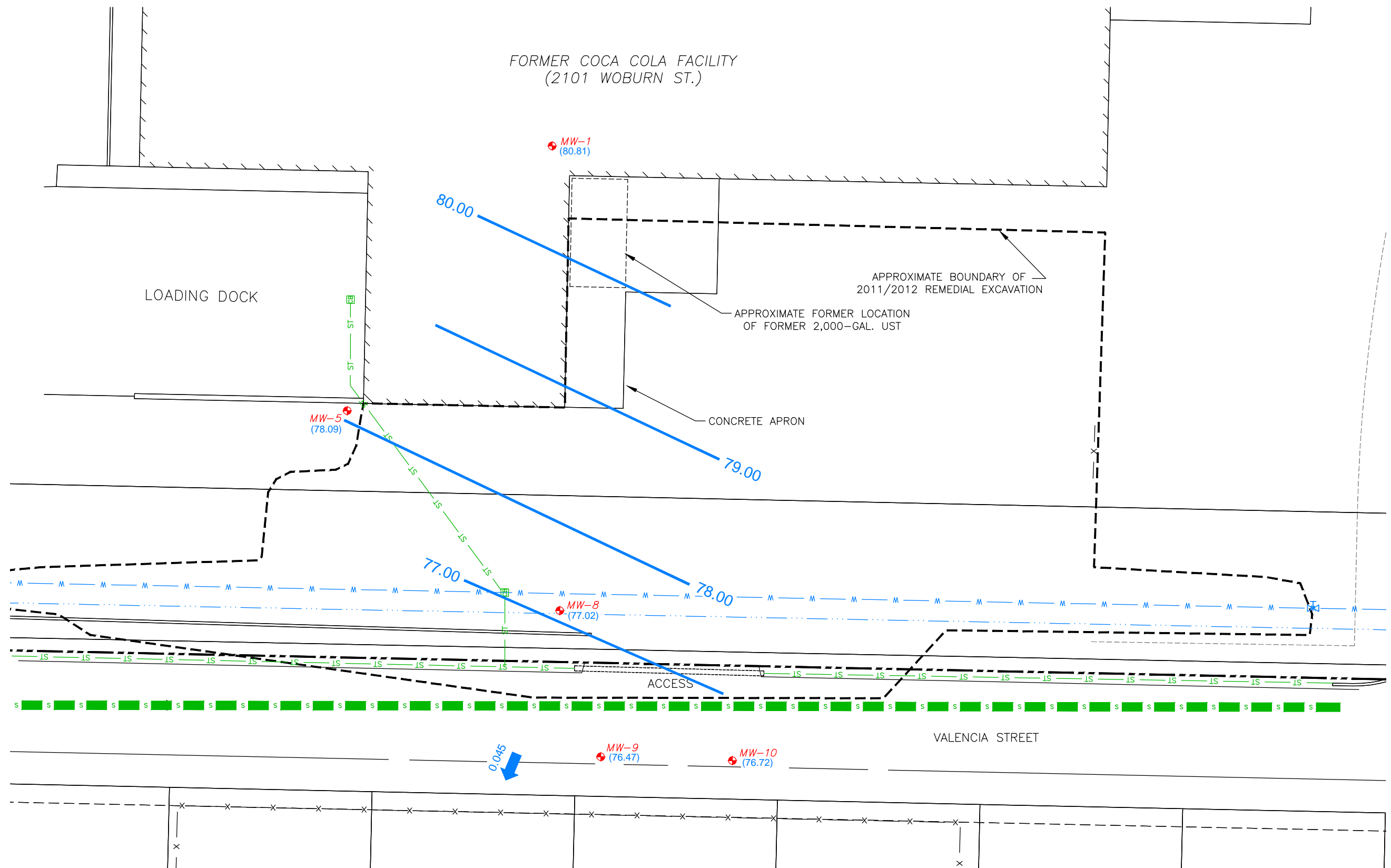
- GROUNDWATER MONITOR WELL
- 4' CORRUGATED STEEL STORM LINE
- (74.61) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- FORMER WOOD STAVE PIPE
- FENCE
- 79.00 GROUNDWATER ELEVATION CONTOUR
- PROPERTY LINE
- 12" CAST IRON WATER MAIN
- 0.037 APPROXIMATE GROUNDWATER GRADIENT (ft/ft)
- STORM SEWER/CULVERT/DITCH
- CATCH BASIN
- APPROXIMATE GROUNDWATER FLOW DIRECTION



NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

S:\Projects\7617588 Coca Cola\003\GW_060415.dwg

FORMER COCA COLA FACILITY
(2101 WOBURN ST.)



NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

PROJECT NUMBER: Z076000021
APPROVED BY: SP

DATE: 1/21/16
DRAWN BY: BK

ATC
Ph: (206) 781-1449 *** Fax: (206) 781-1543

6347 Seaview Avenue NW
Seattle, Washington 98107

GROUNDWATER ELEVATION MAP
(09/18/15)

FORMER COCA-COLA BOTTLING COMPANY
2101 WOBURN STREET
BELLINGHAM, WA

FIGURE
4

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**APPENDIX A:
WELL PURGE LOGS**



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

Cardno ATC Branch: Seattle	Date: 1/27/15	Page 1 of 1
Cardno ATC Representative(s):	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
MW-1	Contractor: NA	
	Weather:	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) 5.0 - 11.0	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other	Casing Volumes (CV): 11.50
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47	WC 24.16 x CM 0.16 = 3.87 (CV)(gal) x 3.0 CV (gal) = 11.50 PV

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 27.50
Depth to Water (DTW)(feet): 3.34	Water Column (WC)(feet): 24.16
LNAPL Thickness (ft): —	Purging Start Time: 12:45

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
12:55	5.39	1.0			Clear				
13:05	7.12	2.0			"				
13:15	8.21	2.5			"				
13:25	10.43	3.0			"				
13:30	10.65	3.5			"				

Sample Data

Sample ID: MW-1	Time of Sample: 13:30	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities: 3 - 20L water, 1-L				

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 10.65	Approximate Flow Rate (GPM): 0.1 - 0.01
Recovery Type: <input checked="" type="checkbox"/> Fast <input checked="" type="checkbox"/> Slow	% Recovery = —
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments: **Started purging 0.1 gpm, DTW was falling too fast, lowered purge rate to 0.05, DTW still falling, decided to collect sample.**



Monitoring Well Purging and Sampling Log

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Cardno ATC Branch: Seattle	Date: 1/27/15	Page of
Cardno ATC Representative(s):	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
MW-5	Contractor: NA	
	Weather:	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <input type="checkbox"/>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): <input checked="" type="radio"/> 2" <input type="radio"/> 4" <input type="radio"/> 6" Other	Casing Volumes (CV):
Casing Multiplier (CM) _(gallons/foot) : <input checked="" type="radio"/> 0.16 <input type="radio"/> 0.65 <input type="radio"/> 1.47	WC 21.8 x CM 0.16 = 3.49 (CV) _(gal) x 3.0 CV _(gal) = 10.46 PV

Monitoring Measurements

Depth to LNAPL (feet): <input type="checkbox"/>	Total Well Depth (feet): 25:00
Depth to Water (DTW)(feet): 3.21	Water Column (WC)(feet): 21.79
LNAPL Thickness (ft): <input type="checkbox"/>	Purging Start Time: 13:45

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
13:55	4.09	0.0			clear				
14:05	4.47	2.0			↓				
14:15	5.06	3.0							
14:25	5.29	4.0							
14:35	5.74	5.0							

Sample Data

Sample ID: MW-5	Time of Sample: 14:35	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
3 - 40ml, 1 - TL				

Well Recovery Data

Maximum Drawdown (DTW _m)(feet):	Approximate Flow Rate (GPM):
Recovery Type: <input type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery =

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



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Monitoring Well Purging and Sampling Log

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Cardno ATC Branch: Seattle	Date: 1/27/15	Page 1 of 1
Cardno ATC Representative(s): Mark Newman	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No: —
nw-8	Contractor: NA	
	Weather: —	Temperature: —

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input checked="" type="checkbox"/> Low Flow <input type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) 5.0	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other	Casing Volumes (CV):
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47	WC 7.11 x CM 0.16 = 1.14 (CV)(gal) x 3.0 CV (gal) = 3.4 PV

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 10.00
Depth to Water (DTW)(feet): 2.89	Water Column (WC)(feet): 7.11
LNAPL Thickness (ft): —	Purging Start Time: 9:10

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
9:20	2.89	1.0			Clear				
9:30	3.16	2.0			"				
9:40	3.28	3.0			"				
9:49	3.40	3.9			"				

Sample Data

Sample ID: nw-8	Time of Sample: 9:50	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
3-10A, 1-1L		✓	HCl	GC, Pb, BTEX

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 3.40	Approximate Flow Rate (GPM): 0.1
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = 100
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments: **YSI will not work. Aim to purge 3 well volumes or stabilized well depth to water. Collect sample at 0.01 gpm.**



Monitoring Well Purging and Sampling Log

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Cardno ATC Representative(s):	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No: <u> </u>
<u>MW-9</u>	Contractor: NA	
	Weather: <u> </u>	Temperature: <u> </u>

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <u> </u>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <u> </u>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <u> </u>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): <u>2"</u> 4" 6" Other	Casing Volumes (CV):
Casing Multiplier (CM)(gallons/foot): <u>0.16</u> 0.65 1.47	WC <u>15.21</u> x CM <u>0.16</u> = <u>2.4</u> (CV)(gal) x 3.0 CV (gal) = <u>7.5</u> PV

Monitoring Measurements

Depth to LNAPL (feet): <u> </u>	Total Well Depth (feet): <u>20.00</u>
Depth to Water (DTW)(feet): <u>4.79</u>	Water Column (WC)(feet): <u>15.21</u>
LNAPL Thickness (ft): <u> </u>	Purging Start Time: <u>11:20</u>

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
<u>11:30</u>	<u>5.79</u>	<u>0.0</u>			<u>Clear</u>				
<u>11:45</u>	<u>6.01</u>	<u>2.5</u>			<u>''</u>				
<u>12:00</u>	<u>6.27</u>	<u>4.0</u>			<u>''</u>				
<u>12:15</u>	<u>6.43</u>	<u>5.5</u>			<u>''</u>				
<u>12:29</u>	<u>6.66</u>	<u>7.9</u>			<u>''</u>				

Sample Data

Sample ID: <u>MW-9</u>	Time of Sample: <u>12:30</u>	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
<u>3-40ml Vials, 1-L Amber</u>		<u>W</u>	<u>MCL</u>	<u>6x, Px, BTEX</u>

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): <u>0.00 - 0.01</u>
Recovery Type: <input type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery =

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

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Cardno ATC Representative(s): <u>A. Newman</u>	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No: <u> </u>
<u>MW-10</u>	Contractor: NA	
	Weather: <u> </u>	Temperature: <u> </u>

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <u> </u>	
3 Well Volumes <input checked="" type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <u> </u>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <u> </u>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): <u>2"</u> 4" 6" Other	Casing Volumes (CV):
Casing Multiplier (CM) _(gallons/foot) : <u>0.16</u> 0.65 1.47	WC <u>15.49</u> x CM <u>0.16</u> = <u>2.48</u> (CV) _(gal) x 3.0 CV _(gal) = <u>7.4</u> PV

Monitoring Measurements

Depth to LNAPL (feet): <u> </u>	Total Well Depth (feet): <u>20.00</u>
Depth to Water (DTW)(feet): <u>4.51</u>	Water Column (WC)(feet): <u>25.49</u>
LNAPL Thickness (ft): <u> </u>	Purging Start Time: <u>10:15</u>

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
10:25	5.01	1.0			clear				
10:35	5.11	2.0			"				
10:45	5.28	3.0			"				
10:55	5.36	4.0			"				
11:04	5.45	4.9			"				

Sample Data

Sample ID: <u>MW-10</u>	Time of Sample: <u>11:05</u>	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities: <u>3-VOAs, 1-L</u>		<u>N</u>	<u>HCl</u>	<u>Gx, Dx, BTEX</u>

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): <u> </u>	Approximate Flow Rate (GPM): <u>0.1</u>
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = <u>100</u>
Purge Water Disposition (Attach Drum Inventory Log - FLD 108): <u> </u>	

Comments: YSI not functional. Purge for 2 well volumes, DTW stabilized. Collect sample at 0.01 gpm.



Monitoring Well Purging and Sampling Log

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Cardno ATC Representative(s):	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
<i>MW-1</i>	Contractor: NA	
	Weather:	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <input type="checkbox"/>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other	Casing Volumes (CV): <input type="checkbox"/>
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47	WC <input type="checkbox"/> x CM <input type="checkbox"/> = <input type="checkbox"/> (CV)(gal) x 3.0 CV (gal) = <input type="checkbox"/> PV

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 22.50
Depth to Water (DTW)(feet): 4.32	Water Column (WC)(feet): 23.18
LNAPL Thickness (ft): —	Purging Start Time: 11:45

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
12:00	4.51	0.15	14.05	675	clear	1.85	6.49	-23.1	
12:03	4.63	0.18	14.06	675	"	1.86	6.49	-23.3	
12:06	4.66	0.21	14.06	677	"	1.97	6.48	-23.6	
12:09	4.69	0.24	14.07	677	"	1.86	6.47	-23.8	


Sample Data

Sample ID: MW-1	Time of Sample: 12:10	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
3 - 40ml Vials 1-1L Amber		✓	HCl	6x/BTEX, Dx

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): 4.67	Approximate Flow Rate (GPM): 0.01
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = 100
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments:

 <p>Cardno[®] ATC Shaping the Future</p>	<h2>Monitoring Well Purging and Sampling Log</h2>		FLD-103						
			Revision 1.0						
			Jul-08						
Cardno ATC Branch: Seattle		Date: 6/4/15		Page of					
Cardno ATC Representative(s): M. Newman		Project: Coca-Cola Bellingham							
Role: Geologist		Location: 2101 Woburn Street, Bellingham, WA							
Contact Information: 206-781-1449		Project No: 76.17568.0003		Task No:					
MW-5		Contractor: NA							
		Weather:		Temperature:					
Purging & Sampling Instrumentation & Method									
Water Level Meter (Model/ID): Envirotape		Interface Probe (Model/ID): NA							
Water Quality Meter (Model/ID): YSI 556 MPS		Decontamination Method: Alconox/DI Water							
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>									
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) 6.0									
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>									
Casing Volume Information			Purging Calculations						
Casing Diameter (Circle): 6" 4" 6" Other			Casing Volumes (CV):						
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47			WC <input type="checkbox"/> x CM <input type="checkbox"/> = <input type="checkbox"/> (CV)(gal) x 3.0 CV (gal) = <input type="checkbox"/> PV						
Monitoring Measurements									
Depth to LNAPL (feet):		Total Well Depth (feet): 25.00							
Depth to Water (DTW)(feet): 3.39		Water Column (WC)(feet): 21.61							
LNAPL Thickness (ft):		Purging Start Time: 11:00							
Purging Data									
Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
11:15	3.49	0.15	14.27	665	Clear	2.11	8.21	-15.1	
11:18	3.58	0.18	14.28	663	"	2.17	8.21	-15.2	
11:21	3.64	0.21	14.28	663	"	2.15	8.20	-15.4	
11:24	3.70	0.24	14.26	663	"	2.22	8.22	-15.7	
Sample Data									
Sample ID: MW-5		Time of Sample: 11:25		Filtered (yes/no)	Preservatives	Analytical Parameters			
Container Types, Volumes, & Quantities: 3-100L, 1L									
				~	HCl	Ba, D _x , VOCs			
Well Recovery Data									
Maximum Drawdown (DTW _m)(feet): 3.70		Approximate Flow Rate (GPM): 0.01							
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow		% Recovery = 100							
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments:									



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Cardno ATC Representative(s): M. Newman	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
MW-8	Contractor: NA	
	Weather: 	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: 	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) 5.0	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: 	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other	Casing Volumes (CV):
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47	WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet): 	Total Well Depth (feet): 10.00
Depth to Water (DTW)(feet): 3.75	Water Column (WC)(feet): 6.25
LNAPL Thickness (ft): 	Purging Start Time: 10:20

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
10:35	3.89	0.15	17.33	115	clear	1.48	6.79	-15.6	
10:38	3.91	0.18	17.35	114	"	1.45	6.77	-15.7	
10:41	3.98	0.21	17.37	114	"	1.53	6.76	-15.2	
10:44	4.01	0.24	17.40	114	"	1.59	6.75	-14.8	

Sample Data

Sample ID: MW-8	Time of Sample: 10:45	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
3-100L, 1-L				

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): 4.01	Approximate Flow Rate (GPM): 0.01
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = 100

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



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Cardno ATC Representative(s):	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
MW-9	Contractor: NA	
	Weather:	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: _____	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) _____	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: _____	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): <u>2</u> 4" 6" Other	Casing Volumes (CV): _____
Casing Multiplier (CM) _(gallons/foot) : 0.16 0.65 1.47	WC _____ x CM _____ = _____ (CV) _(gal) x 3.0 CV _(gal) = _____ PV

Monitoring Measurements

Depth to LNAPL (feet):	Total Well Depth (feet):
Depth to Water (DTW)(feet): 5.11	Water Column (WC)(feet):
LNAPL Thickness (ft):	Purging Start Time: 13:15

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
13:30	5.30	0.15	16.88	1048	clear	1.11	7.86	25.6	
13:33	5.35	0.18	17.11	1044	"	1.06	7.84	23.6	
13:36	5.37	0.21	17.22	1048	"	1.02	7.84	22.6	
13:39	5.42	0.24	17.20	1044	"	1.00	7.84	22.1	

Sample Data

Sample ID: MW-9	Time of Sample: 13:40	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
3.40ml VOA		N	HCl	6p, 8p, BTEX

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): 8.42	Approximate Flow Rate (GPM): 0.01
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = 100

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

Cardno ATC Branch: Seattle	Date: 6/4/15	Page 1 of 1
Cardno ATC Representative(s):	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
MW-10	Contractor: NA	
	Weather: clear	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: _____	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) 7.00	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: _____	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): <u>2"</u> 4" 6" Other	Casing Volumes (CV): _____
Casing Multiplier (CM) _(gallons/foot) : <u>0.16</u> 0.65 1.47	WC _____ x CM _____ = _____ (CV) _(gal) x 3.0 CV _(gal) = _____ PV

Monitoring Measurements

Depth to LNAPL (feet): <u>—</u>	Total Well Depth (feet): 20.00
Depth to Water (DTW)(feet): 5.17	Water Column (WC)(feet): 14.83
LNAPL Thickness (ft): <u>—</u>	Purging Start Time: 12:25

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
12:40	5.28	0.15	16.17	221	clear	1.90	7.97	104.0	
12:43	5.35	0.18	16.17	220	"	1.88	7.98	103.1	
12:46	5.37	0.21	16.17	207	"	1.71	7.94	101.9	
12:49	5.40	0.24	16.19	201	"	1.66	7.94	102.3	

Sample Data

Sample ID: MW-10	Time of Sample: 12:50	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities: 3-60ml Vials 1-L		✓	N/C	Gr, Dr, BTEX

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): 5.40	Approximate Flow Rate (GPM): 0.01
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = 100

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

Cardno ATC Branch: Seattle	Date: 9/18/15	Page 1 of 1
Cardno ATC Representative(s):	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
MW-1	Contractor: NA	
	Weather:	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) 6.50	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other	Casing Volumes (CV): —
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47	WC <input type="checkbox"/> x CM <input type="checkbox"/> = <input type="checkbox"/> (CV)(gal) x 3.0 CV (gal) = <input type="checkbox"/> PV

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 27.50
Depth to Water (DTW)(feet): 4.36	Water Column (WC)(feet): 23.14
LNAPL Thickness (ft): —	Purging Start Time: 12:20

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
12:30	4.39	0.10	15.39	640	Clear	0.84	7.88	22.3	
12:33	4.40	0.13	15.40	640	"	0.84	7.89	22.6	
12:36	4.41	0.16	15.40	640	"	0.83	7.89	22.5	
12:39	4.42	0.19	15.40	640	"	0.82	7.91	23.0	

Sample Data

Sample ID: MW-1	Time of Sample: 12:40	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities: 3-40ml VOA, 1-L		N	HCl	GF, BIP, PA

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 4.62	Approximate Flow Rate (GPM): 0.01
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = 100

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

Cardno ATC Branch: Seattle	Date: 9/18/15	Page 1 of 1
Cardno ATC Representative(s): Mark Newman	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
MW-5	Contractor: NA	
	Weather: —	Temperature: —

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) 6.00	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other	Casing Volumes (CV): —
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47	WC <input type="checkbox"/> x CM <input type="checkbox"/> = <input type="checkbox"/> (CV)(gal) x 3.0 CV (gal) = <input type="checkbox"/> PV

Monitoring Measurements

Depth to LNAPL (feet): —	Total Well Depth (feet): 25.00
Depth to Water (DTW)(feet): 4.35	Water Column (WC)(feet): 20.65
LNAPL Thickness (ft): —	Purging Start Time: 11:00

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
11:15	4.41	0.10	17.76	614	Clear	3.10	8.10	-38.6	
11:28	4.43	0.13	17.76	614	"	3.09	8.09	-38.6	
11:21	4.46	0.16	17.77	614	"	3.07	8.09	-38.7	
11:24	4.48	0.19	17.78	614	"	3.05	8.09	-38.6	

Sample Data

Sample ID: MW-5	Time of Sample: 11:25	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
3-100Ls, 1-1L		✓	HCl	6x.Px, BTEX

Well Recovery Data

Maximum Drawdown (DTWm)(feet): 4.48	Approximate Flow Rate (GPM): 0.01
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = 100

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

Cardno ATC Branch: Seattle	Date: <u>9/18/15</u>	Page <u>1</u> of <u>1</u>
Cardno ATC Representative(s): <u>Mark Newman</u>	Project: <u>Coca-Cola Bellingham</u>	
Role: <u>Geologist</u>	Location: <u>2101 Woburn Street, Bellingham, WA</u>	
Contact Information: <u>206-781-1449</u>	Project No: <u>76.17568.0003</u>	Task No:
<u>MW-8</u>	Contractor: <u>NA</u>	
	Weather: <u>—</u>	Temperature: <u>—</u>

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): <u>Envirotape</u>	Interface Probe (Model/ID): <u>NA</u>
Water Quality Meter (Model/ID): <u>YSI 556 MPS</u>	Decontamination Method: <u>Alconox/DI Water</u>
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <u>6.50</u>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): <u>2"</u> 4" 6" Other	Casing Volumes (CV): <u>—</u>
Casing Multiplier (CM) _(gallons/foot) : <u>0.16</u> 0.65 1.47	WC <u>—</u> x CM <u>—</u> = <u>—</u> (CV) _(gal) x 3.0 CV _(gal) = <u>—</u> PV

Monitoring Measurements

Depth to LNAPL (feet): <u>—</u>	Total Well Depth (feet): <u>10.00</u>
Depth to Water (DTW)(feet): <u>4.31</u>	Water Column (WC)(feet): <u>5.69</u>
LNAPL Thickness (ft): <u>—</u>	Purging Start Time: <u>11:40</u>

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
<u>11:55</u>	<u>4.39</u>	<u>0.10</u>	<u>18.65</u>	<u>126</u>	<u>clear</u>	<u>1.79</u>	<u>7.59</u>	<u>-22.3</u>	
<u>11:58</u>	<u>4.40</u>	<u>0.107</u>	<u>18.64</u>	<u>125</u>	<u>"</u>	<u>1.65</u>	<u>7.50</u>	<u>-22.2</u>	
<u>12:01</u>	<u>4.41</u>	<u>0.16</u>	<u>18.63</u>	<u>125</u>	<u>"</u>	<u>1.54</u>	<u>7.54</u>	<u>-21.9</u>	
<u>12:04</u>	<u>4.42</u>	<u>0.19</u>	<u>18.63</u>	<u>125</u>	<u>"</u>	<u>1.48</u>	<u>7.52</u>	<u>-21.5</u>	

Sample Data

Sample ID: <u>MW-8</u>	Time of Sample: <u>12:05</u>	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities: <u>3- 40ml 1-l</u>		<u>N</u>	<u>HCl</u>	<u>Gas, DR, BTEX</u>

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): <u>4.42</u>	Approximate Flow Rate (GPM): <u>0.01</u>
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = <u>100</u>

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

Cardno ATC Branch: Seattle	Date: <u>9/18/15</u>	Page of
Cardno ATC Representative(s): <u>Mark Newman</u>	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
<u>MW-9</u>	Contractor: NA	
	Weather:	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <u>7.00</u>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): <u>2"</u> 4" 6" Other	Casing Volumes (CV): <u> </u>
Casing Multiplier (CM)(gallons/foot): <u>0.16</u> 0.65 1.47	WC <u> </u> x CM <u> </u> = <u> </u> (CV)(gal) x 3.0 CV (gal) = <u> </u> PV

Monitoring Measurements

Depth to LNAPL (feet): <u> </u>	Total Well Depth (feet): <u>20.00</u>
Depth to Water (DTW)(feet): <u>5.35</u>	Water Column (WC)(feet): <u>14.65</u>
LNAPL Thickness (ft): <u> </u>	Purging Start Time: <u>10:00</u>

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
10:15	5.39	0.10	20.26	983	clear	0.93	7.78	-47.0	
10:18	5.40	0.13	20.36	982	"	0.88	7.78	-47.0	
10:21	5.41	0.16	20.38	983	"	0.87	7.77	-46.9	
10:24	5.42	0.19	20.40	982	"	0.85	7.77	-46.9	

Sample Data

Sample ID: <u>MW-9</u>	Time of Sample: <u>10:25</u>	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
<u>3-40ml UAs, 1-1L Amber</u>		<u>N</u>	<u>HCl</u>	<u>6x, BTEX, Dx</u>

Well Recovery Data

Maximum Drawdown (DTWm)(feet): <u>5.42</u>	Approximate Flow Rate (GPM): <u>0.01</u>
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = <u>100%</u>

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

Cardno ATC Branch: Seattle	Date: <u>9/18/15</u>	Page of
Cardno ATC Representative(s): <u>Mark Newman</u>	Project: Coca-Cola Bellingham	
Role: Geologist	Location: 2101 Woburn Street, Bellingham, WA	
Contact Information: 206-781-1449	Project No: 76.17568.0003	Task No:
<u>MW-10</u>	Contractor: NA	
	Weather:	Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape	Interface Probe (Model/ID): NA
Water Quality Meter (Model/ID): YSI 556 MPS	Decontamination Method: Alconox/DI Water
Purging Method: <input type="checkbox"/> PVC Bailer <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: <input type="checkbox"/>	
3 Well Volumes <input type="checkbox"/> Low Flow <input checked="" type="checkbox"/> Micro Purge <input type="checkbox"/> Intake Depth (feet below TOC) <u>7.50</u>	
Sampling Method: <input type="checkbox"/> Teflon Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Dedicated Tubing Other: <input type="checkbox"/>	

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): <u>2"</u> 4" 6" Other	Casing Volumes (CV): <input type="checkbox"/>
Casing Multiplier (CM) _(gallons/foot) : <u>0.18</u> 0.65 1.47	WC <input type="checkbox"/> x CM <input type="checkbox"/> = <input type="checkbox"/> (CV) _(gal) x 3.0 CV _(gal) = <input type="checkbox"/> PV

Monitoring Measurements

Depth to LNAPL (feet): <u>—</u>	Total Well Depth (feet): <u>20.00</u>
Depth to Water (DTW)(feet): <u>5.67</u>	Water Column (WC)(feet):
LNAPL Thickness (ft): <u>—</u>	Purging Start Time: <u>9:15</u>

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
9:30	5.69	0.15	17.84	1058	clear	0.82	7.99	-50.1	
9:33	5.72	0.18	17.87	1057	"	0.77	7.98	-50.4	
9:36	5.73	0.21	17.89	1057	"	0.73	7.98	-50.5	
9:39	5.74	0.24	17.94	1056	"	0.68	7.96	-50.8	

Sample Data

Sample ID: <u>MW-10</u>	Time of Sample: <u>9:40</u>	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
<u>3 - 40 ml VOAC, 1 - 6L Amber</u>		<u>N</u>	<u>HCl</u>	<u>6x, BTEX, DX</u>

Well Recovery Data

Maximum Drawdown (DTW _m)(feet): <u>5.74</u>	Approximate Flow Rate (GPM): <u>0.01</u>
Recovery Type: <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = <u>100</u>
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):	

Comments:

**APPENDIX B:
LABORATORY ANALYTICAL REPORTS**



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Cardno ATC

Simon Payne
6347 Seaview Ave NW
Seattle, WA 98107

RE: Coca Cola

Lab ID: 1501226

February 02, 2015

Attention Simon Payne:

Fremont Analytical, Inc. received 6 sample(s) on 1/27/2015 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward", written in a cursive style.

Chelsea Ward
Project Manager



Date: 02/02/2015

CLIENT: Cardno ATC
Project: Coca Cola
Lab Order: 1501226

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1501226-001	MW-1	01/27/2015 1:30 PM	01/27/2015 3:30 PM
1501226-002	MW-5	01/27/2015 2:35 PM	01/27/2015 3:30 PM
1501226-003	MW-8	01/27/2015 9:50 AM	01/27/2015 3:30 PM
1501226-004	MW-9	01/27/2015 12:30 PM	01/27/2015 3:30 PM
1501226-005	MW-10	01/27/2015 11:05 AM	01/27/2015 3:30 PM
1501226-006	Trip Blank	01/26/2015 3:00 PM	01/27/2015 3:30 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Cardno ATC**Project:** Coca Cola

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-DX-W), SAMPLE (1501226-005B) required Silica Gel Cleanup Procedure (Using Method No 3630C).

Prep Comments for METHOD (PREP-DX-W), SAMPLE (1501226-004B) required Silica Gel Cleanup Procedure (Using Method No 3630C).

Prep Comments for METHOD (PREP-DX-W), SAMPLE (1501226-003B) required Silica Gel Cleanup Procedure (Using Method No 3630C).

Prep Comments for METHOD (PREP-DX-W), SAMPLE (1501226-002B) required Silica Gel Cleanup Procedure (Using Method No 3630C).

Prep Comments for METHOD (PREP-DX-W), SAMPLE (1501226-001B) required Silica Gel Cleanup Procedure (Using Method No 3630C).



Analytical Report

WO#: 1501226
Date Reported: 2/2/2015

Client: Cardno ATC

Collection Date: 1/27/2015 1:30:00 PM

Project: Coca Cola

Lab ID: 1501226-001

Matrix: Water

Client Sample ID: MW-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9940 Analyst: EC

Diesel (Fuel Oil)	ND	50.0		µg/L	1	1/30/2015 1:34:00 PM
Heavy Oil	ND	100		µg/L	1	1/30/2015 1:34:00 PM
Surr: 2-Fluorobiphenyl	64.2	50-150		%REC	1	1/30/2015 1:34:00 PM
Surr: o-Terphenyl	71.0	50-150		%REC	1	1/30/2015 1:34:00 PM

Gasoline by NWTPH-Gx

Batch ID: R20356 Analyst: AK

Gasoline	ND	50.0		µg/L	1	1/28/2015 3:00:00 AM
Surr: 4-Bromofluorobenzene	86.6	65-135		%REC	1	1/28/2015 3:00:00 AM
Surr: Toluene-d8	90.8	65-135		%REC	1	1/28/2015 3:00:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R20348 Analyst: AK

Benzene	ND	1.00		µg/L	1	1/28/2015 3:00:00 AM
Toluene	ND	1.00		µg/L	1	1/28/2015 3:00:00 AM
Ethylbenzene	ND	1.00		µg/L	1	1/28/2015 3:00:00 AM
m,p-Xylene	ND	1.00		µg/L	1	1/29/2015 2:39:00 AM
o-Xylene	ND	1.00		µg/L	1	1/28/2015 3:00:00 AM
Surr: Dibromofluoromethane	109	77.4-147		%REC	1	1/28/2015 3:00:00 AM
Surr: Toluene-d8	100	40.1-139		%REC	1	1/28/2015 3:00:00 AM
Surr: 1-Bromo-4-fluorobenzene	86.4	64.2-128		%REC	1	1/28/2015 3:00:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1501226
Date Reported: 2/2/2015

Client: Cardno ATC

Collection Date: 1/27/2015 2:35:00 PM

Project: Coca Cola

Lab ID: 1501226-002

Matrix: Water

Client Sample ID: MW-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9940 Analyst: EC

Diesel (Fuel Oil)	ND	50.0		µg/L	1	1/30/2015 2:36:00 PM
Heavy Oil	ND	100		µg/L	1	1/30/2015 2:36:00 PM
Surr: 2-Fluorobiphenyl	60.0	50-150		%REC	1	1/30/2015 2:36:00 PM
Surr: o-Terphenyl	68.2	50-150		%REC	1	1/30/2015 2:36:00 PM

Gasoline by NWTPH-Gx

Batch ID: R20356 Analyst: AK

Gasoline	ND	50.0		µg/L	1	1/28/2015 3:28:00 AM
Surr: 4-Bromofluorobenzene	83.3	65-135		%REC	1	1/28/2015 3:28:00 AM
Surr: Toluene-d8	92.3	65-135		%REC	1	1/28/2015 3:28:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R20348 Analyst: AK

Benzene	ND	1.00		µg/L	1	1/28/2015 3:28:00 AM
Toluene	ND	1.00		µg/L	1	1/28/2015 3:28:00 AM
Ethylbenzene	ND	1.00		µg/L	1	1/28/2015 3:28:00 AM
m,p-Xylene	ND	1.00		µg/L	1	1/28/2015 3:28:00 AM
o-Xylene	ND	1.00		µg/L	1	1/28/2015 3:28:00 AM
Surr: Dibromofluoromethane	111	77.4-147		%REC	1	1/28/2015 3:28:00 AM
Surr: Toluene-d8	102	40.1-139		%REC	1	1/28/2015 3:28:00 AM
Surr: 1-Bromo-4-fluorobenzene	83.2	64.2-128		%REC	1	1/28/2015 3:28:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1501226
Date Reported: 2/2/2015

Client: Cardno ATC

Collection Date: 1/27/2015 9:50:00 AM

Project: Coca Cola

Lab ID: 1501226-003

Matrix: Water

Client Sample ID: MW-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9940 Analyst: EC

Diesel (Fuel Oil)	ND	50.0		µg/L	1	1/30/2015 3:07:00 PM
Heavy Oil	ND	100		µg/L	1	1/30/2015 3:07:00 PM
Surr: 2-Fluorobiphenyl	68.2	50-150		%REC	1	1/30/2015 3:07:00 PM
Surr: o-Terphenyl	77.7	50-150		%REC	1	1/30/2015 3:07:00 PM

Gasoline by NWTPH-Gx

Batch ID: R20356 Analyst: AK

Gasoline	ND	50.0		µg/L	1	1/28/2015 3:57:00 AM
Surr: 4-Bromofluorobenzene	82.4	65-135		%REC	1	1/28/2015 3:57:00 AM
Surr: Toluene-d8	90.5	65-135		%REC	1	1/28/2015 3:57:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R20348 Analyst: AK

Benzene	ND	1.00		µg/L	1	1/28/2015 3:57:00 AM
Toluene	ND	1.00		µg/L	1	1/28/2015 3:57:00 AM
Ethylbenzene	ND	1.00		µg/L	1	1/28/2015 3:57:00 AM
m,p-Xylene	ND	1.00		µg/L	1	1/28/2015 3:57:00 AM
o-Xylene	ND	1.00		µg/L	1	1/28/2015 3:57:00 AM
Surr: Dibromofluoromethane	111	77.4-147		%REC	1	1/28/2015 3:57:00 AM
Surr: Toluene-d8	101	40.1-139		%REC	1	1/28/2015 3:57:00 AM
Surr: 1-Bromo-4-fluorobenzene	82.4	64.2-128		%REC	1	1/28/2015 3:57:00 AM

Qualifiers: B Analyte detected in the associated Method Blank D Dilution was required
 E Value above quantitation range H Holding times for preparation or analysis exceeded
 J Analyte detected below quantitation limits ND Not detected at the Reporting Limit
 RL Reporting Limit S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1501226
Date Reported: 2/2/2015

Client: Cardno ATC

Collection Date: 1/27/2015 12:30:00 PM

Project: Coca Cola

Lab ID: 1501226-004

Matrix: Water

Client Sample ID: MW-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u>			Batch ID: 9940		Analyst: EC	
Diesel (Fuel Oil)	ND	50.0		µg/L	1	1/30/2015 3:38:00 PM
Heavy Oil	ND	100		µg/L	1	1/30/2015 3:38:00 PM
Surr: 2-Fluorobiphenyl	57.9	50-150		%REC	1	1/30/2015 3:38:00 PM
Surr: o-Terphenyl	68.6	50-150		%REC	1	1/30/2015 3:38:00 PM
<u>Gasoline by NWTPH-Gx</u>			Batch ID: R20356		Analyst: AK	
Gasoline	ND	50.0		µg/L	1	1/28/2015 4:26:00 AM
Surr: 4-Bromofluorobenzene	81.3	65-135		%REC	1	1/28/2015 4:26:00 AM
Surr: Toluene-d8	91.4	65-135		%REC	1	1/28/2015 4:26:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>			Batch ID: R20348		Analyst: AK	
Benzene	ND	1.00		µg/L	1	1/28/2015 4:26:00 AM
Toluene	ND	1.00		µg/L	1	1/28/2015 4:26:00 AM
Ethylbenzene	ND	1.00		µg/L	1	1/28/2015 4:26:00 AM
m,p-Xylene	ND	1.00		µg/L	1	1/28/2015 4:26:00 AM
o-Xylene	ND	1.00		µg/L	1	1/28/2015 4:26:00 AM
Surr: Dibromofluoromethane	112	77.4-147		%REC	1	1/28/2015 4:26:00 AM
Surr: Toluene-d8	102	40.1-139		%REC	1	1/28/2015 4:26:00 AM
Surr: 1-Bromo-4-fluorobenzene	81.2	64.2-128		%REC	1	1/28/2015 4:26:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1501226
Date Reported: 2/2/2015

Client: Cardno ATC

Collection Date: 1/27/2015 11:05:00 AM

Project: Coca Cola

Lab ID: 1501226-005

Matrix: Water

Client Sample ID: MW-10

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 9940

Analyst: EC

Diesel (Fuel Oil)	ND	50.0		µg/L	1	1/30/2015 4:09:00 PM
Heavy Oil	ND	100		µg/L	1	1/30/2015 4:09:00 PM
Surr: 2-Fluorobiphenyl	56.4	50-150		%REC	1	1/30/2015 4:09:00 PM
Surr: o-Terphenyl	66.4	50-150		%REC	1	1/30/2015 4:09:00 PM

Gasoline by NWTPH-Gx

Batch ID: R20356

Analyst: AK

Gasoline	ND	50.0		µg/L	1	1/28/2015 4:54:00 AM
Surr: 4-Bromofluorobenzene	82.4	65-135		%REC	1	1/28/2015 4:54:00 AM
Surr: Toluene-d8	91.7	65-135		%REC	1	1/28/2015 4:54:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R20348

Analyst: AK

Benzene	ND	1.00		µg/L	1	1/28/2015 4:54:00 AM
Toluene	ND	1.00		µg/L	1	1/28/2015 4:54:00 AM
Ethylbenzene	ND	1.00		µg/L	1	1/28/2015 4:54:00 AM
m,p-Xylene	ND	1.00		µg/L	1	1/28/2015 4:54:00 AM
o-Xylene	ND	1.00		µg/L	1	1/28/2015 4:54:00 AM
Surr: Dibromofluoromethane	103	77.4-147		%REC	1	1/28/2015 4:54:00 AM
Surr: Toluene-d8	90.4	40.1-139		%REC	1	1/28/2015 4:54:00 AM
Surr: 1-Bromo-4-fluorobenzene	82.3	64.2-128		%REC	1	1/28/2015 4:54:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit
 D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1501226
CLIENT: Cardno ATC
Project: Coca Cola

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 1501248-001BDUP	SampType: DUP	Units: µg/L				Prep Date: 1/29/2015	RunNo: 20415				
Client ID: BATCH	Batch ID: 9940					Analysis Date: 1/30/2015	SeqNo: 388571				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	50.0						0		30	
Heavy Oil	ND	100						0		30	
Surr: 2-Fluorobiphenyl	52.4		80.00		65.5	50	150		0		
Surr: o-Terphenyl	60.8		80.00		75.9	50	150		0		

Sample ID: LCS-9940	SampType: LCS	Units: µg/L				Prep Date: 1/29/2015	RunNo: 20415				
Client ID: LCSW	Batch ID: 9940					Analysis Date: 1/30/2015	SeqNo: 388578				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	782	50.0	1,000	0	78.2	65	135				
Surr: 2-Fluorobiphenyl	51.5		80.00		64.4	50	150				
Surr: o-Terphenyl	61.4		80.00		76.8	50	150				

Sample ID: MB-9940	SampType: MBLK	Units: µg/L				Prep Date: 1/29/2015	RunNo: 20415				
Client ID: MBLKW	Batch ID: 9940					Analysis Date: 1/30/2015	SeqNo: 388580				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	50.0									
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	43.7		80.00		54.7	50	150				
Surr: o-Terphenyl	51.9		80.00		64.8	50	150				

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits



Date: 2/2/2015

Work Order: 1501226
 CLIENT: Cardno ATC
 Project: Coca Cola

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: 1501214-001ADUP	SampType: DUP	Units: µg/L			Prep Date: 1/27/2015	RunNo: 20356					
Client ID: BATCH	Batch ID: R20356				Analysis Date: 1/27/2015	SeqNo: 387009					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0						0		30	
Surr: Toluene-d8	22.6		25.00		90.3	65	135		0	0	
Surr: 4-Bromofluorobenzene	20.6		25.00		82.5	65	135		0	0	

Sample ID: LCS-R20356	SampType: LCS	Units: µg/L			Prep Date: 1/27/2015	RunNo: 20356					
Client ID: LCSW	Batch ID: R20356				Analysis Date: 1/27/2015	SeqNo: 387018					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	498	50.0	500.0	0	99.6	65	135				
Surr: Toluene-d8	25.1		25.00		100	65	135				
Surr: 4-Bromofluorobenzene	23.8		25.00		95.0	65	135				

Sample ID: MB-R20356	SampType: MBLK	Units: µg/L			Prep Date: 1/27/2015	RunNo: 20356					
Client ID: MBLKW	Batch ID: R20356				Analysis Date: 1/27/2015	SeqNo: 387019					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0									
Surr: Toluene-d8	23.3		25.00		93.3	65	135				
Surr: 4-Bromofluorobenzene	21.3		25.00		85.1	65	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 2/2/2015

Work Order: 1501226
 CLIENT: Cardno ATC
 Project: Coca Cola

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1501214-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 1/27/2015	RunNo: 20348							
Client ID: BATCH	Batch ID: R20348		Analysis Date: 1/27/2015	SeqNo: 386863							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00						0		30	
Toluene	ND	1.00						0		30	
Ethylbenzene	ND	1.00						0		30	
m,p-Xylene	1.80	1.00						1.834	1.92	30	
o-Xylene	ND	1.00						0		30	
Surr: Dibromofluoromethane	28.7		25.00		115	77.4	147		0		
Surr: Toluene-d8	24.4		25.00		97.7	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	20.6		25.00		82.4	64.2	128		0		

Sample ID: 1501214-002AMS	SampType: MS	Units: µg/L	Prep Date: 1/28/2015	RunNo: 20348							
Client ID: BATCH	Batch ID: R20348		Analysis Date: 1/28/2015	SeqNo: 386865							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.6	1.00	20.00	0	108	65.4	138				
Toluene	21.0	1.00	20.00	0.05320	105	64	139				
Ethylbenzene	18.3	1.00	20.00	0.7752	87.8	64.5	136				
m,p-Xylene	37.1	1.00	40.00	1.720	88.4	63.3	135				
o-Xylene	18.0	1.00	20.00	0	89.8	65.4	134				
Surr: Dibromofluoromethane	26.9		25.00		108	77.4	147				
Surr: Toluene-d8	27.2		25.00		109	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	26.8		25.00		107	64.2	128				

Sample ID: LCS-R20348	SampType: LCS	Units: µg/L	Prep Date: 1/27/2015	RunNo: 20348							
Client ID: LCSW	Batch ID: R20348		Analysis Date: 1/27/2015	SeqNo: 386873							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.4	1.00	20.00	0	96.8	69.3	132				
Toluene	18.6	1.00	20.00	0	93.0	61.3	145				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1501226
CLIENT: Cardno ATC
Project: Coca Cola

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-R20348	SampType: LCS	Units: µg/L				Prep Date: 1/27/2015	RunNo: 20348				
Client ID: LCSW	Batch ID: R20348					Analysis Date: 1/27/2015	SeqNo: 386873				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	16.3	1.00	20.00	0	81.3	72	130				
m,p-Xylene	33.4	1.00	40.00	0	83.4	73	131				
o-Xylene	16.2	1.00	20.00	0	81.0	72.1	131				
Surr: Dibromofluoromethane	26.5		25.00		106	77.4	147				
Surr: Toluene-d8	27.2		25.00		109	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	27.3		25.00		109	64.2	128				

Sample ID: MB-R20348	SampType: MBLK	Units: µg/L				Prep Date: 1/27/2015	RunNo: 20348				
Client ID: MBLKW	Batch ID: R20348					Analysis Date: 1/27/2015	SeqNo: 386874				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00									
Toluene	ND	1.00									
Ethylbenzene	ND	1.00									
m,p-Xylene	ND	1.00									
o-Xylene	ND	1.00									
Surr: Dibromofluoromethane	28.0		25.00		112	77.4	147				
Surr: Toluene-d8	24.6		25.00		98.6	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	21.3		25.00		85.1	64.2	128				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **ATC**
 Logged by: **Kerra Ziegler**

Work Order Number: **1501226**
 Date Received: **1/27/2015 3:30:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody seals intact on shipping container/cooler? Yes No Not Required
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is the headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	3.5	Good
Sample	6.1	Good



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N, Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 1/27/15

Laboratory Project No (internal): 15012210
Page: 1 of 1

Client: Cardno ATC
Address: 6347 Sawview Ave
City, State, Zip: Seattle, WA
Tel: 206-781-1449
Reports To (PM): Simon Payne
Fax: _____

Project Name: Loce Cola
Location: 2101 Hubbard Street
Collected by: M. Newman
Email: Simon.Payne@cardno.com
Project No: _____

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													Comments/Depth		
				VOC (EPA 8160)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (DH)	SMM VOL (EPA 8270 - SIM)	PAH (EPA 8270)	PCBs (EPA 8082)	Metals** (6040 / 200.8)	Total (T) Dissolved (D)	Anions (C)***	ECB (8011)			
1 MW-1	1/27/15	13:30	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Dray Silica Gel Cleanup.
2 MW-5		14:35		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 MW-8		9:56		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4 MW-9		12:30		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5 MW-10		11:05		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6																			
7																			
8																			
9																			
10																			

**Metals Analysis (Circle): MTCA-5 RCHA-8 Priority Pollutants TAl Individual: Ag Al Ar B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Nitrate-Nitrite

Sample Disposal: Return to Client Disposal by Lab (a fee may be assessed if samples are retained after 30 days.)

Retained: 15:30 1/27/15 Received: Simon Payne 01/27/15 15:30

Retained: _____ Date/Time: _____ Received: _____ Date/Time: _____

Retained: _____ Date/Time: _____ Received: _____ Date/Time: _____

TAT -> SameDaySM NextDaySM 2 Day 3 Day STD

*Please coordinate with the lab in advance



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Cardno ATC

Simon Payne
6347 Seaview Ave NW
Seattle, WA 98107

RE: Coca Cola

Lab ID: 1506087

June 11, 2015

Attention Simon Payne:

Fremont Analytical, Inc. received 6 sample(s) on 6/4/2015 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward", written in a cursive style.

Chelsea Ward
Project Manager



Date: 06/11/2015

CLIENT: Cardno ATC
Project: Coca Cola
Lab Order: 1506087

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1506087-001	MW-1	06/04/2015 12:10 PM	06/04/2015 3:52 PM
1506087-002	MW-5	06/04/2015 11:25 AM	06/04/2015 3:52 PM
1506087-003	MW-8	06/04/2015 10:45 AM	06/04/2015 3:52 PM
1506087-004	MW-9	06/04/2015 1:40 PM	06/04/2015 3:52 PM
1506087-005	MW-10	06/04/2015 12:50 PM	06/04/2015 3:52 PM
1506087-006	Trip Blank	06/04/2015 8:25 AM	06/04/2015 3:52 PM

CLIENT: Cardno ATC

Project: Coca Cola

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

Acronyms:

- %Rec - Percent Recovery
 - CCB - Continued Calibration Blank
 - CCV - Continued Calibration Verification
 - DF - Dilution Factor
 - HEM - Hexane Extractable Material
 - ICV - Initial Calibration Verification
 - LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
 - MB or MBLANK - Method Blank
 - MDL - Method Detection Limit
 - MS/MSD - Matrix Spike / Matrix Spike Duplicate
 - PDS - Post Digestion Spike
 - Ref Val - Reference Value
 - RL - Reporting Limit
 - RPD - Relative Percent Difference
 - SD - Serial Dilution
 - SGT - Silica Gel Treatment
 - SPK - Spike
 - Surr - Surrogate
-



Client: Cardno ATC

Collection Date: 6/4/2015 12:10:00 PM

Project: Coca Cola

Lab ID: 1506087-001

Matrix: Water

Client Sample ID: MW-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 10954

Analyst: DB

Diesel (Fuel Oil)	ND	49.9		µg/L	1	6/8/2015 5:12:00 PM
Heavy Oil	ND	99.8		µg/L	1	6/8/2015 5:12:00 PM
Surr: 2-Fluorobiphenyl	67.0	50-150		%REC	1	6/8/2015 5:12:00 PM
Surr: o-Terphenyl	77.5	50-150		%REC	1	6/8/2015 5:12:00 PM

Gasoline by NWTPH-Gx

Batch ID: R22879

Analyst: AK

Gasoline	ND	50.0		µg/L	1	6/11/2015 2:04:00 AM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	6/11/2015 2:04:00 AM
Surr: Toluene-d8	99.3	65-135		%REC	1	6/11/2015 2:04:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R22900

Analyst: AK

Benzene	ND	1.00		µg/L	1	6/11/2015 2:04:00 AM
Toluene	ND	1.00		µg/L	1	6/11/2015 2:04:00 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2015 2:04:00 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2015 2:04:00 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2015 2:04:00 AM
Surr: Dibromofluoromethane	94.6	77.4-147		%REC	1	6/11/2015 2:04:00 AM
Surr: Toluene-d8	95.1	40.1-139		%REC	1	6/11/2015 2:04:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	64.2-128		%REC	1	6/11/2015 2:04:00 AM



Analytical Report

WO#: 1506087

Date Reported: 6/11/2015

Client: Cardno ATC

Collection Date: 6/4/2015 11:25:00 AM

Project: Coca Cola

Lab ID: 1506087-002

Matrix: Water

Client Sample ID: MW-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 10954 Analyst: DB

Diesel (Fuel Oil)	ND	49.9		µg/L	1	6/8/2015 5:44:00 PM
Heavy Oil	ND	99.8		µg/L	1	6/8/2015 5:44:00 PM
Surr: 2-Fluorobiphenyl	82.5	50-150		%REC	1	6/8/2015 5:44:00 PM
Surr: o-Terphenyl	90.3	50-150		%REC	1	6/8/2015 5:44:00 PM

Gasoline by NWTPH-Gx

Batch ID: R22879 Analyst: AK

Gasoline	ND	50.0		µg/L	1	6/11/2015 2:32:00 AM
Surr: 4-Bromofluorobenzene	99.9	65-135		%REC	1	6/11/2015 2:32:00 AM
Surr: Toluene-d8	101	65-135		%REC	1	6/11/2015 2:32:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R22900 Analyst: AK

Benzene	ND	1.00		µg/L	1	6/11/2015 2:32:00 AM
Toluene	ND	1.00		µg/L	1	6/11/2015 2:32:00 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2015 2:32:00 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2015 2:32:00 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2015 2:32:00 AM
Surr: Dibromofluoromethane	96.5	77.4-147		%REC	1	6/11/2015 2:32:00 AM
Surr: Toluene-d8	94.2	40.1-139		%REC	1	6/11/2015 2:32:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	64.2-128		%REC	1	6/11/2015 2:32:00 AM



Analytical Report

WO#: 1506087

Date Reported: 6/11/2015

Client: Cardno ATC

Collection Date: 6/4/2015 10:45:00 AM

Project: Coca Cola

Lab ID: 1506087-003

Matrix: Water

Client Sample ID: MW-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 10954 Analyst: DB

Diesel (Fuel Oil)	ND	49.9		µg/L	1	6/8/2015 6:17:00 PM
Heavy Oil	ND	99.8		µg/L	1	6/8/2015 6:17:00 PM
Surr: 2-Fluorobiphenyl	80.4	50-150		%REC	1	6/8/2015 6:17:00 PM
Surr: o-Terphenyl	83.3	50-150		%REC	1	6/8/2015 6:17:00 PM

Gasoline by NWTPH-Gx

Batch ID: R22879 Analyst: AK

Gasoline	ND	50.0		µg/L	1	6/11/2015 3:29:00 AM
Surr: 4-Bromofluorobenzene	101	65-135		%REC	1	6/11/2015 3:29:00 AM
Surr: Toluene-d8	137	65-135	S	%REC	1	6/11/2015 3:29:00 AM

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect.

Volatile Organic Compounds by EPA Method 8260

Batch ID: R22900 Analyst: AK

Benzene	ND	1.00		µg/L	1	6/11/2015 3:29:00 AM
Toluene	ND	1.00		µg/L	1	6/11/2015 3:29:00 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2015 3:29:00 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2015 3:29:00 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2015 3:29:00 AM
Surr: Dibromofluoromethane	96.8	77.4-147		%REC	1	6/11/2015 3:29:00 AM
Surr: Toluene-d8	127	40.1-139		%REC	1	6/11/2015 3:29:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.4	64.2-128		%REC	1	6/11/2015 3:29:00 AM



Analytical Report

WO#: 1506087

Date Reported: 6/11/2015

Client: Cardno ATC

Collection Date: 6/4/2015 1:40:00 PM

Project: Coca Cola

Lab ID: 1506087-004

Matrix: Water

Client Sample ID: MW-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 10954 Analyst: DB

Diesel (Fuel Oil)	ND	50.0		µg/L	1	6/8/2015 6:50:00 PM
Heavy Oil	ND	100		µg/L	1	6/8/2015 6:50:00 PM
Surr: 2-Fluorobiphenyl	81.2	50-150		%REC	1	6/8/2015 6:50:00 PM
Surr: o-Terphenyl	87.1	50-150		%REC	1	6/8/2015 6:50:00 PM

Gasoline by NWTPH-Gx

Batch ID: R22879 Analyst: AK

Gasoline	ND	50.0		µg/L	1	6/11/2015 3:58:00 AM
Surr: 4-Bromofluorobenzene	100	65-135		%REC	1	6/11/2015 3:58:00 AM
Surr: Toluene-d8	101	65-135		%REC	1	6/11/2015 3:58:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R22900 Analyst: AK

Benzene	ND	1.00		µg/L	1	6/11/2015 3:58:00 AM
Toluene	ND	1.00		µg/L	1	6/11/2015 3:58:00 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2015 3:58:00 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2015 3:58:00 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2015 3:58:00 AM
Surr: Dibromofluoromethane	96.1	77.4-147		%REC	1	6/11/2015 3:58:00 AM
Surr: Toluene-d8	95.5	40.1-139		%REC	1	6/11/2015 3:58:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	64.2-128		%REC	1	6/11/2015 3:58:00 AM



Analytical Report

WO#: 1506087

Date Reported: 6/11/2015

Client: Cardno ATC

Collection Date: 6/4/2015 12:50:00 PM

Project: Coca Cola

Lab ID: 1506087-005

Matrix: Water

Client Sample ID: MW-10

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 10954 Analyst: DB

Diesel (Fuel Oil)	ND	49.9		µg/L	1	6/8/2015 7:23:00 PM
Heavy Oil	ND	99.9		µg/L	1	6/8/2015 7:23:00 PM
Surr: 2-Fluorobiphenyl	84.9	50-150		%REC	1	6/8/2015 7:23:00 PM
Surr: o-Terphenyl	92.0	50-150		%REC	1	6/8/2015 7:23:00 PM

Gasoline by NWTPH-Gx

Batch ID: R22879 Analyst: AK

Gasoline	ND	50.0		µg/L	1	6/11/2015 4:26:00 AM
Surr: 4-Bromofluorobenzene	99.9	65-135		%REC	1	6/11/2015 4:26:00 AM
Surr: Toluene-d8	136	65-135	S	%REC	1	6/11/2015 4:26:00 AM

NOTES:

S - Outlying surrogate recovery observed (high bias). Sample is non-detect.

Volatile Organic Compounds by EPA Method 8260

Batch ID: R22900 Analyst: AK

Benzene	ND	1.00		µg/L	1	6/11/2015 4:26:00 AM
Toluene	ND	1.00		µg/L	1	6/11/2015 4:26:00 AM
Ethylbenzene	ND	1.00		µg/L	1	6/11/2015 4:26:00 AM
m,p-Xylene	ND	1.00		µg/L	1	6/11/2015 4:26:00 AM
o-Xylene	ND	1.00		µg/L	1	6/11/2015 4:26:00 AM
Surr: Dibromofluoromethane	95.3	77.4-147		%REC	1	6/11/2015 4:26:00 AM
Surr: Toluene-d8	126	40.1-139		%REC	1	6/11/2015 4:26:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.6	64.2-128		%REC	1	6/11/2015 4:26:00 AM



Date: 6/11/2015

Work Order: 1506087
CLIENT: Cardno ATC
Project: Coca Cola

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: LCS-10954	SampType: LCS	Units: µg/L			Prep Date: 6/5/2015	RunNo: 22830					
Client ID: LCSW	Batch ID: 10954				Analysis Date: 6/8/2015	SeqNo: 432549					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	796	50.0	1,000	0	79.6	65	135				
Surr: 2-Fluorobiphenyl	57.7		80.00		72.2	50	150				
Surr: o-Terphenyl	66.9		80.00		83.6	50	150				

Sample ID: MB-10954	SampType: MBLK	Units: µg/L			Prep Date: 6/5/2015	RunNo: 22830					
Client ID: MBLKW	Batch ID: 10954				Analysis Date: 6/8/2015	SeqNo: 432550					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	50.0									
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	45.7		80.00		57.1	50	150				
Surr: o-Terphenyl	46.6		80.00		58.3	50	150				

Sample ID: 1506076-001BDUP	SampType: DUP	Units: µg/L			Prep Date: 6/5/2015	RunNo: 22830					
Client ID: BATCH	Batch ID: 10954				Analysis Date: 6/8/2015	SeqNo: 432585					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	49.9						0			30
Heavy Oil	ND	99.8						0			30
Surr: 2-Fluorobiphenyl	61.6		79.87		77.1	50	150		0		
Surr: o-Terphenyl	67.7		79.87		84.7	50	150		0		



Date: 6/11/2015

Work Order: 1506087
CLIENT: Cardno ATC
Project: Coca Cola

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: 1506087-002BDUP	SampType: DUP	Units: µg/L			Prep Date: 6/11/2015	RunNo: 22879					
Client ID: MW-5	Batch ID: R22879				Analysis Date: 6/11/2015	SeqNo: 434090					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0						0		30	
Surr: Toluene-d8	25.0		25.00		100	65	135		0	0	
Surr: 4-Bromofluorobenzene	25.3		25.00		101	65	135		0	0	

Sample ID: LCS-R22879	SampType: LCS	Units: µg/L			Prep Date: 6/10/2015	RunNo: 22879					
Client ID: LCSW	Batch ID: R22879				Analysis Date: 6/10/2015	SeqNo: 434106					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	434	50.0	500.0	0	86.9	65	135				
Surr: Toluene-d8	24.9		25.00		99.8	65	135				
Surr: 4-Bromofluorobenzene	24.8		25.00		99.1	65	135				

Sample ID: MB-R22879	SampType: MBLK	Units: µg/L			Prep Date: 6/10/2015	RunNo: 22879					
Client ID: MBLKW	Batch ID: R22879				Analysis Date: 6/10/2015	SeqNo: 434107					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0									
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID: MB-R22879	SampType: MBLK	Units: %REC			Prep Date: 6/11/2015	RunNo: 22879					
Client ID: MBLKW	Batch ID: R22879				Analysis Date: 6/11/2015	SeqNo: 434264					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	25.3		25.00		101	65	135				
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Date: 6/11/2015

Work Order: 1506087
 CLIENT: Cardno ATC
 Project: Coca Cola

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1506084-001BMS	SampType: MS	Units: µg/L				Prep Date: 6/11/2015	RunNo: 22900				
Client ID: BATCH	Batch ID: R22900					Analysis Date: 6/11/2015	SeqNo: 434000				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.6	1.00	20.00	0	103	65.4	138				
Toluene	18.7	1.00	20.00	0	93.5	64	139				
Ethylbenzene	20.8	1.00	20.00	0	104	64.5	136				
m,p-Xylene	41.0	1.00	40.00	0	102	63.3	135				
o-Xylene	20.2	1.00	20.00	0	101	65.4	134				
Surr: Dibromofluoromethane	26.0		25.00		104	77.4	147				
Surr: Toluene-d8	23.4		25.00		93.7	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.5	64.2	128				

Sample ID: 1506087-002BDUP	SampType: DUP	Units: µg/L				Prep Date: 6/11/2015	RunNo: 22900				
Client ID: MW-5	Batch ID: R22900					Analysis Date: 6/11/2015	SeqNo: 434003				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00						0		30	
Toluene	ND	1.00						0		30	
Ethylbenzene	ND	1.00						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	1.00						0		30	
Surr: Dibromofluoromethane	24.2		25.00		96.7	77.4	147		0		
Surr: Toluene-d8	23.7		25.00		94.9	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		100	64.2	128		0		

Sample ID: LCS-R22900	SampType: LCS	Units: µg/L				Prep Date: 6/10/2015	RunNo: 22900				
Client ID: LCSW	Batch ID: R22900					Analysis Date: 6/10/2015	SeqNo: 434017				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.2	1.00	20.00	0	96.0	69.3	132				
Toluene	16.8	1.00	20.00	0	84.2	61.3	145				
Ethylbenzene	18.7	1.00	20.00	0	93.7	72	130				
m,p-Xylene	37.2	1.00	40.00	0	92.9	70.3	134				



Date: 6/11/2015

Work Order: 1506087
 CLIENT: Cardno ATC
 Project: Coca Cola

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-R22900	SampType: LCS	Units: µg/L				Prep Date: 6/10/2015	RunNo: 22900				
Client ID: LCSW	Batch ID: R22900					Analysis Date: 6/10/2015	SeqNo: 434017				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

o-Xylene	18.8	1.00	20.00	0	94.0	72.1	131				
Surr: Dibromofluoromethane	26.3		25.00		105	77.4	147				
Surr: Toluene-d8	23.4		25.00		93.8	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.5	64.2	128				

Sample ID: MB-R22900	SampType: MBLK	Units: µg/L				Prep Date: 6/10/2015	RunNo: 22900				
Client ID: MBLKW	Batch ID: R22900					Analysis Date: 6/10/2015	SeqNo: 434018				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	1.00									
Toluene	ND	1.00									
Ethylbenzene	ND	1.00									
m,p-Xylene	ND	1.00									
o-Xylene	ND	1.00									
Surr: Dibromofluoromethane	23.3		25.00		93.2	77.4	147				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.6	64.2	128				

Sample ID: MB-R22900	SampType: MBLK	Units: %REC				Prep Date: 6/11/2015	RunNo: 22900				
Client ID: MBLKW	Batch ID: R22900					Analysis Date: 6/11/2015	SeqNo: 434226				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	25.4		25.00		101	40.1	139				
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Sample Log-In Check List

Client Name: ATC	Work Order Number: 1506087
Logged by: Erica Silva	Date Received: 6/4/2015 3:52:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	1.2
Sample	6.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date:

6/4/15

Page:

1

of:

1

Laboratory Project No (Internal):

1506087

Client:
Address:
City, State, Zip

Cardno ATC

Fax:

Email:

Project Name:
Project No:
Location:
Reports To (PM):

Coca Cola

Bellingham WA

Simon. Payne @ Cardno.com

Collected by:

M. Williams

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water, SW = Storm Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analysis													Comments/Depth
				VOC (EPA 8260)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DH)	SEMI-VOL (EPA 8270)	PAH (EPA 8270 - SIM)	PCBs (EPA 8082)	Metal** (6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)**	(Top 80) EOB (801)	
1 MW-1	6/4/15	12:10		X	X	X	X	X	X	X	X	X	X	X	X	X	
2 MW-5		11:25		X	X	X	X	X	X	X	X	X	X	X	X	X	
3 MW-8		10:45		X	X	X	X	X	X	X	X	X	X	X	X	X	
4 MW-9		13:40		X	X	X	X	X	X	X	X	X	X	X	X	X	
5 MW-10		12:50		X	X	X	X	X	X	X	X	X	X	X	X	X	
6																	
7																	
8																	
9																	
10																	

**Metals Analysis (Circle): MTCA-5 HCrA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

*** Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished Date/Time: 6/4/15 15:52

Received Date/Time: 6-4-15 15:52

Reinquired Date/Time: 6/4/15 15:52

Requested Date/Time: 6-4-15 15:52

TAT -> SameDay[^] NextDay[^] 2 Day 3 Day 5TD

*Please coordinate with the lab in advance



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Cardno ATC

Simon Payne
6347 Seaview Ave NW
Seattle, WA 98107

RE: Coca-Cola Bellingham

Lab ID: 1509263

September 25, 2015

Attention Simon Payne:

Fremont Analytical, Inc. received 7 sample(s) on 9/18/2015 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Gasoline by NWTPH-Gx

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Chelsea Ward".

Chelsea Ward
Project Manager



Date: 09/25/2015

CLIENT: Cardno ATC
Project: Coca-Cola Bellingham
Lab Order: 1509263

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1509263-001	MW-1	09/18/2015 12:40 PM	09/18/2015 3:35 PM
1509263-002	MW-5	09/18/2015 11:25 AM	09/18/2015 3:35 PM
1509263-003	MW-8	09/18/2015 12:05 PM	09/18/2015 3:35 PM
1509263-004	MW-9	09/18/2015 10:25 AM	09/18/2015 3:35 PM
1509263-005	MW-10	09/18/2015 9:40 AM	09/18/2015 3:35 PM
1509263-006	DUP-091815	09/18/2015 7:00 AM	09/18/2015 3:35 PM
1509263-007	Trip Blank	08/21/2015 4:00 PM	09/18/2015 3:35 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Cardno ATC
Project: Coca-Cola Bellingham

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

WO#: 1509263

Date Reported: 9/25/2015

Client: Cardno ATC

Collection Date: 9/18/2015 12:40:00 PM

Project: Coca-Cola Bellingham

Lab ID: 1509263-001

Matrix: Water

Client Sample ID: MW-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 11896

Analyst: CM

Diesel (Fuel Oil)	ND	50.0		µg/L	1	9/24/2015 9:26:00 AM
Heavy Oil	ND	100		µg/L	1	9/24/2015 9:26:00 AM
Surr: 2-Fluorobiphenyl	72.9	50-150		%REC	1	9/24/2015 9:26:00 AM
Surr: o-Terphenyl	75.2	50-150		%REC	1	9/24/2015 9:26:00 AM

Gasoline by NWTPH-Gx

Batch ID: R25021

Analyst: EM

Gasoline	ND	50.0		µg/L	1	9/22/2015 4:36:00 AM
Surr: 4-Bromofluorobenzene	97.3	65-135		%REC	1	9/22/2015 4:36:00 AM
Surr: Toluene-d8	88.5	65-135		%REC	1	9/22/2015 4:36:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R25020

Analyst: EM

Benzene	ND	1.00		µg/L	1	9/22/2015 4:36:00 AM
Toluene	ND	1.00		µg/L	1	9/22/2015 4:36:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/22/2015 4:36:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/22/2015 4:36:00 AM
o-Xylene	ND	1.00		µg/L	1	9/22/2015 4:36:00 AM
Surr: Dibromofluoromethane	98.0	45.4-152		%REC	1	9/22/2015 4:36:00 AM
Surr: Toluene-d8	98.2	40.1-139		%REC	1	9/22/2015 4:36:00 AM
Surr: 1-Bromo-4-fluorobenzene	102	64.2-128		%REC	1	9/22/2015 4:36:00 AM



Analytical Report

WO#: 1509263

Date Reported: 9/25/2015

Client: Cardno ATC

Collection Date: 9/18/2015 11:25:00 AM

Project: Coca-Cola Bellingham

Lab ID: 1509263-002

Matrix: Water

Client Sample ID: MW-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 11896

Analyst: CM

Diesel (Fuel Oil)	ND	50.0		µg/L	1	9/24/2015 9:57:00 AM
Heavy Oil	ND	100		µg/L	1	9/24/2015 9:57:00 AM
Surr: 2-Fluorobiphenyl	70.0	50-150		%REC	1	9/24/2015 9:57:00 AM
Surr: o-Terphenyl	78.3	50-150		%REC	1	9/24/2015 9:57:00 AM

Gasoline by NWTPH-Gx

Batch ID: R25021

Analyst: EM

Gasoline	ND	50.0		µg/L	1	9/22/2015 5:05:00 AM
Surr: 4-Bromofluorobenzene	97.7	65-135		%REC	1	9/22/2015 5:05:00 AM
Surr: Toluene-d8	89.7	65-135		%REC	1	9/22/2015 5:05:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R25020

Analyst: EM

Benzene	ND	1.00		µg/L	1	9/22/2015 5:05:00 AM
Toluene	ND	1.00		µg/L	1	9/22/2015 5:05:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/22/2015 5:05:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/22/2015 5:05:00 AM
o-Xylene	ND	1.00		µg/L	1	9/22/2015 5:05:00 AM
Surr: Dibromofluoromethane	102	45.4-152		%REC	1	9/22/2015 5:05:00 AM
Surr: Toluene-d8	102	40.1-139		%REC	1	9/22/2015 5:05:00 AM
Surr: 1-Bromo-4-fluorobenzene	103	64.2-128		%REC	1	9/22/2015 5:05:00 AM



Analytical Report

WO#: 1509263

Date Reported: 9/25/2015

Client: Cardno ATC

Collection Date: 9/18/2015 12:05:00 PM

Project: Coca-Cola Bellingham

Lab ID: 1509263-003

Matrix: Water

Client Sample ID: MW-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u>					Batch ID: 11896	Analyst: CM
Diesel (Fuel Oil)	ND	50.0		µg/L	1	9/24/2015 10:28:00 AM
Heavy Oil	ND	100		µg/L	1	9/24/2015 10:28:00 AM
Surr: 2-Fluorobiphenyl	72.9	50-150		%REC	1	9/24/2015 10:28:00 AM
Surr: o-Terphenyl	74.2	50-150		%REC	1	9/24/2015 10:28:00 AM
<u>Gasoline by NWTPH-Gx</u>					Batch ID: R25021	Analyst: EM
Gasoline	ND	50.0		µg/L	1	9/22/2015 5:33:00 AM
Surr: 4-Bromofluorobenzene	96.1	65-135		%REC	1	9/22/2015 5:33:00 AM
Surr: Toluene-d8	88.5	65-135		%REC	1	9/22/2015 5:33:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>					Batch ID: R25020	Analyst: EM
Benzene	ND	1.00		µg/L	1	9/22/2015 5:33:00 AM
Toluene	ND	1.00		µg/L	1	9/22/2015 5:33:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/22/2015 5:33:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/22/2015 5:33:00 AM
o-Xylene	ND	1.00		µg/L	1	9/22/2015 5:33:00 AM
Surr: Dibromofluoromethane	101	45.4-152		%REC	1	9/22/2015 5:33:00 AM
Surr: Toluene-d8	101	40.1-139		%REC	1	9/22/2015 5:33:00 AM
Surr: 1-Bromo-4-fluorobenzene	101	64.2-128		%REC	1	9/22/2015 5:33:00 AM



Analytical Report

WO#: 1509263

Date Reported: 9/25/2015

Client: Cardno ATC

Collection Date: 9/18/2015 10:25:00 AM

Project: Coca-Cola Bellingham

Lab ID: 1509263-004

Matrix: Water

Client Sample ID: MW-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 11896

Analyst: CM

Diesel (Fuel Oil)	ND	49.9		µg/L	1	9/24/2015 10:59:00 AM
Heavy Oil	ND	99.9		µg/L	1	9/24/2015 10:59:00 AM
Surr: 2-Fluorobiphenyl	71.1	50-150		%REC	1	9/24/2015 10:59:00 AM
Surr: o-Terphenyl	76.1	50-150		%REC	1	9/24/2015 10:59:00 AM

Gasoline by NWTPH-Gx

Batch ID: R25021

Analyst: EM

Gasoline	ND	50.0		µg/L	1	9/22/2015 6:01:00 AM
Surr: 4-Bromofluorobenzene	94.2	65-135		%REC	1	9/22/2015 6:01:00 AM
Surr: Toluene-d8	89.2	65-135		%REC	1	9/22/2015 6:01:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R25020

Analyst: EM

Benzene	ND	1.00		µg/L	1	9/22/2015 6:01:00 AM
Toluene	ND	1.00		µg/L	1	9/22/2015 6:01:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/22/2015 6:01:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/22/2015 6:01:00 AM
o-Xylene	ND	1.00		µg/L	1	9/22/2015 6:01:00 AM
Surr: Dibromofluoromethane	99.4	45.4-152		%REC	1	9/22/2015 6:01:00 AM
Surr: Toluene-d8	99.9	40.1-139		%REC	1	9/22/2015 6:01:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	64.2-128		%REC	1	9/22/2015 6:01:00 AM



Analytical Report

WO#: 1509263

Date Reported: 9/25/2015

Client: Cardno ATC

Collection Date: 9/18/2015 9:40:00 AM

Project: Coca-Cola Bellingham

Lab ID: 1509263-005

Matrix: Water

Client Sample ID: MW-10

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u>					Batch ID: 11896	Analyst: CM
Diesel (Fuel Oil)	ND	50.0		µg/L	1	9/24/2015 11:31:00 AM
Heavy Oil	ND	100		µg/L	1	9/24/2015 11:31:00 AM
Surr: 2-Fluorobiphenyl	69.5	50-150		%REC	1	9/24/2015 11:31:00 AM
Surr: o-Terphenyl	74.6	50-150		%REC	1	9/24/2015 11:31:00 AM
<u>Gasoline by NWTPH-Gx</u>					Batch ID: R25021	Analyst: EM
Gasoline	ND	50.0		µg/L	1	9/22/2015 6:29:00 AM
Surr: 4-Bromofluorobenzene	99.4	65-135		%REC	1	9/22/2015 6:29:00 AM
Surr: Toluene-d8	90.3	65-135		%REC	1	9/22/2015 6:29:00 AM
<u>Volatile Organic Compounds by EPA Method 8260</u>					Batch ID: R25020	Analyst: EM
Benzene	ND	1.00		µg/L	1	9/22/2015 6:29:00 AM
Toluene	ND	1.00		µg/L	1	9/22/2015 6:29:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/22/2015 6:29:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/22/2015 6:29:00 AM
o-Xylene	ND	1.00		µg/L	1	9/22/2015 6:29:00 AM
Surr: Dibromofluoromethane	99.0	45.4-152		%REC	1	9/22/2015 6:29:00 AM
Surr: Toluene-d8	101	40.1-139		%REC	1	9/22/2015 6:29:00 AM
Surr: 1-Bromo-4-fluorobenzene	104	64.2-128		%REC	1	9/22/2015 6:29:00 AM



Analytical Report

WO#: 1509263

Date Reported: 9/25/2015

Client: Cardno ATC

Collection Date: 9/18/2015 7:00:00 AM

Project: Coca-Cola Bellingham

Lab ID: 1509263-006

Matrix: Water

Client Sample ID: DUP-091815

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Gasoline by NWTPH-Gx

Batch ID: R25021 Analyst: EM

Gasoline	ND	50.0		µg/L	1	9/22/2015 8:49:00 AM
Surr: 4-Bromofluorobenzene	96.0	65-135		%REC	1	9/22/2015 8:49:00 AM
Surr: Toluene-d8	89.2	65-135		%REC	1	9/22/2015 8:49:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: R25020 Analyst: EM

Benzene	ND	1.00		µg/L	1	9/22/2015 8:49:00 AM
Toluene	ND	1.00		µg/L	1	9/22/2015 8:49:00 AM
Ethylbenzene	ND	1.00		µg/L	1	9/22/2015 8:49:00 AM
m,p-Xylene	ND	1.00		µg/L	1	9/22/2015 8:49:00 AM
o-Xylene	ND	1.00		µg/L	1	9/22/2015 8:49:00 AM
Surr: Dibromofluoromethane	104	45.4-152		%REC	1	9/22/2015 8:49:00 AM
Surr: Toluene-d8	102	40.1-139		%REC	1	9/22/2015 8:49:00 AM
Surr: 1-Bromo-4-fluorobenzene	101	64.2-128		%REC	1	9/22/2015 8:49:00 AM

Work Order: 1509263
CLIENT: Cardno ATC
Project: Coca-Cola Bellingham

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: MB-11896	SampType: MBLK	Units: µg/L				Prep Date: 9/21/2015	RunNo: 25050				
Client ID: MBLKW	Batch ID: 11896					Analysis Date: 9/23/2015	SeqNo: 472305				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	50.0									
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	52.2		80.00		65.2	50	150				
Surr: o-Terphenyl	55.8		80.00		69.7	50	150				

Sample ID: LCS-11896	SampType: LCS	Units: µg/L				Prep Date: 9/21/2015	RunNo: 25050				
Client ID: LCSW	Batch ID: 11896					Analysis Date: 9/23/2015	SeqNo: 472304				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	653	50.0	1,000	0	65.3	65	135				
Surr: 2-Fluorobiphenyl	54.3		80.00		67.9	50	150				
Surr: o-Terphenyl	45.9		80.00		57.4	50	150				

Sample ID: 1509263-005ADUP	SampType: DUP	Units: µg/L				Prep Date: 9/21/2015	RunNo: 25050				
Client ID: MW-10	Batch ID: 11896					Analysis Date: 9/24/2015	SeqNo: 473366				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	49.9						0		30	
Heavy Oil	ND	99.9						0		30	
Surr: 2-Fluorobiphenyl	60.1		79.92		75.2	50	150		0		
Surr: o-Terphenyl	64.0		79.92		80.1	50	150		0		



Work Order: 1509263
CLIENT: Cardno ATC
Project: Coca-Cola Bellingham

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-R25021	SampType: LCS	Units: µg/L	Prep Date: 9/22/2015	RunNo: 25021							
Client ID: LCSW	Batch ID: R25021		Analysis Date: 9/22/2015	SeqNo: 471371							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	575	50.0	500.0	0	115	65	135				
Surr: Toluene-d8	21.4		25.00		85.5	65	135				
Surr: 4-Bromofluorobenzene	23.4		25.00		93.6	65	135				

Sample ID: MB-R25021	SampType: MBLK	Units: µg/L	Prep Date: 9/22/2015	RunNo: 25021							
Client ID: MBLKW	Batch ID: R25021		Analysis Date: 9/22/2015	SeqNo: 471372							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0									
Surr: Toluene-d8	21.8		25.00		87.4	65	135				
Surr: 4-Bromofluorobenzene	24.2		25.00		96.8	65	135				

Sample ID: 1509263-006BDUP	SampType: DUP	Units: µg/L	Prep Date: 9/22/2015	RunNo: 25021							
Client ID: DUP-091815	Batch ID: R25021		Analysis Date: 9/22/2015	SeqNo: 471364							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0						0		30	
Surr: Toluene-d8	21.8		25.00		87.2	65	135		0	0	
Surr: 4-Bromofluorobenzene	23.5		25.00		94.0	65	135		0	0	

Work Order: 1509263
 CLIENT: Cardno ATC
 Project: Coca-Cola Bellingham

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-R25020	SampType: LCS	Units: µg/L				Prep Date: 9/22/2015	RunNo: 25020				
Client ID: LCSW	Batch ID: R25020					Analysis Date: 9/22/2015	SeqNo: 471348				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.8	1.00	20.00	0	98.8	69.3	132				
Toluene	18.7	1.00	20.00	0	93.6	61.3	145				
Ethylbenzene	19.2	1.00	20.00	0	95.8	72	130				
m,p-Xylene	38.4	1.00	40.00	0	96.0	70.3	134				
o-Xylene	18.6	1.00	20.00	0	93.0	72.1	131				
Surr: Dibromofluoromethane	25.6		25.00		102	45.4	152				
Surr: Toluene-d8	25.9		25.00		103	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	24.1		25.00		96.4	64.2	128				

Sample ID: MB-R25020	SampType: MBLK	Units: µg/L				Prep Date: 9/22/2015	RunNo: 25020				
Client ID: MBLKW	Batch ID: R25020					Analysis Date: 9/22/2015	SeqNo: 471349				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.00									
Toluene	ND	1.00									
Ethylbenzene	ND	1.00									
m,p-Xylene	ND	1.00									
o-Xylene	ND	1.00									
Surr: Dibromofluoromethane	26.3		25.00		105	45.4	152				
Surr: Toluene-d8	25.2		25.00		101	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	25.3		25.00		101	64.2	128				

Sample ID: 1509263-005BMS	SampType: MS	Units: µg/L				Prep Date: 9/22/2015	RunNo: 25020				
Client ID: MW-10	Batch ID: R25020					Analysis Date: 9/22/2015	SeqNo: 471334				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.3	1.00	20.00	0	106	65.4	138				
Toluene	20.0	1.00	20.00	0	100	64	139				
Ethylbenzene	21.1	1.00	20.00	0	105	64.5	136				
m,p-Xylene	41.8	1.00	40.00	0	104	63.3	135				

Work Order: 1509263
CLIENT: Cardno ATC
Project: Coca-Cola Bellingham

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1509263-005BMS	SampType: MS	Units: µg/L	Prep Date: 9/22/2015	RunNo: 25020							
Client ID: MW-10	Batch ID: R25020		Analysis Date: 9/22/2015	SeqNo: 471334							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

o-Xylene	20.0	1.00	20.00	0	100	65.4	134				
Surr: Dibromofluoromethane	24.8		25.00		99.1	45.4	152				
Surr: Toluene-d8	24.8		25.00		99.1	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	24.6		25.00		98.5	64.2	128				

Sample ID: 1509263-006BDUP	SampType: DUP	Units: µg/L	Prep Date: 9/22/2015	RunNo: 25020							
Client ID: DUP-091815	Batch ID: R25020		Analysis Date: 9/22/2015	SeqNo: 471336							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	1.00						0		30	
Toluene	ND	1.00						0		30	
Ethylbenzene	ND	1.00						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	1.00						0		30	
Surr: Dibromofluoromethane	26.4		25.00		106	45.4	152		0		
Surr: Toluene-d8	24.8		25.00		99.1	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	24.2		25.00		97.0	64.2	128		0		

Client Name: ATC	Work Order Number: 1509263
Logged by: Erica Silva	Date Received: 9/18/2015 3:35:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA

Please refer to Item Information

8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input style="width: 95%;" type="text"/>	Date:	<input style="width: 95%;" type="text"/>
By Whom:	<input style="width: 95%;" type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input style="width: 95%;" type="text"/>		
Client Instructions:	<input style="width: 95%;" type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	9.8
Sample	13.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont Analytical

Chain of Custody Record

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal):

15092403

Date: 9/18/15

Page: 1 of 1

Client: Cardno ATC

Project Name: Coq-Cole Bellingham

Collected by: M. New Math

Address: 6387 Seaview Ave

Project No: 207600021

Location: Bellingham, WA

City, State, Zip: Seattle

Report To (PM):

Simon Payne @ cardno.com

Telephone: 206-781-1449

Fax:

PM Email:

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes																Comments		
				VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/heavy Oil Range Organics (DX)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 / 625)	PCBs (EPA 8092 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)						
1 MW-1	9/18/15	12:40	Water	X			X															
2 MW-5		11:25		X			X															
3 MW-8		12:05		X			X															
4 MW-9		10:25		X			X															
5 MW-10		9:40		X			X															
6 DUP-091815		7:00		X			X														Hold	
7																						
8																						
9																						
10																						

**Metals Analysis (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite Turn-around times for samples received after 4:00pm will begin on the following business day.

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished: [Signature] Date/Time: 9/18/15 15:35 Received: [Signature] Date/Time: 9/18/15 15:35

Relinquished: [Signature] Date/Time: 9/18/15 15:35 Received: [Signature] Date/Time: 9/18/15 15:35

TAT → SameDay[®] NextDay[®] 2 Day 3 Day ETD

*Please coordinate with the lab in advance

Distribution: White - Lab, Yellow - File, Pink - Originator

www.fremontanalytical.com