August 3, 2021
File No. 25221172.00

Ms. Cindy Koepke, PG, Hydrogeologist
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources - South Central Region
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Groundwater Monitoring Update Report
Former Bob's Citgo, 602 W. Madison Avenue, Milton, Wisconsin
BRRTS #03-54-000193

Dear Cindy:

SCS Engineers (SCS) is submitting this report on behalf of Mr. Robert Richardson for the former Bob's Citgo and Badgerland Coop leaking underground storage tank (LUST) case at the above-referenced property. SCS monitored groundwater and resurveyed selected well on July 8, 2021. Following are the results of those activities.

BACKGROUND

This case was first opened by the Wisconsin Department of Natural Resources (WDNR) in 1983. Groundwater was first sampled in November 2010. Information on the WDNR website indicates that petroleum contamination has been identified in soil and groundwater at the site. Sampling of the subslab vapors below the station building in 2015 and 2016 did not identify any vapor intrusion concerns. Groundwater sampling data indicate groundwater impacts are present on site, free product has been present in the past, and groundwater impacts extend off site to the west and south. Soil impacts are present at depth, but most of the shallow impacted soil was excavated when the underground storage tanks (USTs) were removed from the site in October 2019.

The wells were last sampled in October 2017. Groundwater analytical results are summarized on Table 1. Groundwater flow has consistently been to the west/southwest, with an apparent significant groundwater mound present on-site implicating a component of flow to the southeast. Groundwater quality data however indicates that flow is primarily to the west/southwest as impacts have not been detected at monitoring well, MW10, located to the southeast of the site.

JULY 2021 SAMPLING EVENT

- SCS provided a brief work plan to the WDNR via email on July 2, 2021, outlining the planned sampling event.

- SCS located and inspected the monitoring wells, and collected groundwater samples from MW1, MW2, MW3, MW5, and MW6 (five wells), and measured water levels at all 10 wells. Groundwater levels and elevations are summarized on the attached Table 2.

- Top of casing elevations were resurveyed at seven wells (MW1, MW2, MW3, MW4, MW5, MW6, and MW10). The PVC casings on MW2, MW3, MW5, and MW10 were cut down 0.2 feet to accommodate well locks which were added to all the wells. Casing elevations are listed on Table 2.

- Groundwater samples were analyzed for petroleum volatile organic compounds (PVOCs) and naphthalene by Pace Analytical Services, LLC, Green Bay, Wisconsin. The analytical report is attached.

- Wells MW1 through MW3 purged dry at 5 or less gallons, the other wells were purged of 3 to 5 well volumes. Purge water was drummed for disposal at a wastewater treatment plant (WWTP). One drum is being temporarily stored on site pending receipt of recent laboratory results and WWTP discharge approval.

- SCS checked for free product at MW2 and MW3. MW2 had 0.19 feet of product present. No indication of product was observed at MW3. Product was collected and disposed on absorbent pads.

FINDINGS

Overall petroleum concentrations appear to be stable or decreasing. Benzene, methyl tert-butyl ether (MTBE) and toluene concentrations at MW1 have decreased significantly at MW1. At MW3 and MW4 the July 2021 PVOC concentration are about the same as in 2017. At MW6, PVOC concentrations have decreased with benzene at a concentration just over the ES being the only NR 140 exceedance. The July 2021 benzene concentration detected at MW5 exceeds the NR 140 enforcement standard (ES) whereas benzene had not been detected in the samples from MW5 in 2017. The 2021 benzene concentration is however, very low compared to the concentrations detected in 2013 to 2015.

During this sampling event MW2 had 0.19 feet of product present. Previously MW2 had free product present ranging from greater than 3 feet in 2011, to 0.10 feet measured at the most recent previous sampling event in 2017. A sheen was observed in the water collected from MW3 in 2013, through the last sampling event in 2017. On July 8, 2021, no indication of product was observed at MW3.

There are some small differences between the top of casing elevations used previously and the 2021 resurvey; however, they do not affect the configuration of the groundwater contours and the indicated groundwater flow pattern.

Groundwater levels are high compared to the levels recorded at site monitoring wells in the past (Table 2). However, the July 2021 groundwater flow direction is consistent with previous findings with flow to the west/southwest, and an apparent groundwater mound present on-site implicating a component of flow to the southeast. Also consistent with previous findings, groundwater quality data indicates that flow is primarily to the west/southwest as impacts have not been detected at monitoring well, MW10, located to the southeast of the site.

The former tank basin area has not been repaved following the removal of the tanks in October 2019. The tank basin could serve as a preferential recharge area, however the apparent mound was present prior to the tanks and pavement being removed.

CONCLUSIONS

Previously treatment by chemical injection was proposed as a potential remediation for soil impacts. The October 2019 UST removal and soil excavation, and time has resulted in some improvements to groundwater conditions, but some additional active remediation may be needed prior to evaluating the potential for closure of the case with use restrictions and inclusion of the site on the registry of impacted sites maintained by the WDNR.

The July 2021 groundwater monitoring event provides information about current groundwater quality conditions at the site. We would like to discuss next steps and possible paths to site closure.

Please contact Betty at 608-212-6664 if you have any questions or comments.

Sincerely,

Betty J. Socha, PhD, PG
Senior Project Manager
SCS Engineers

Tony Kollasch
Project Manager
SCS Engineers

BJS/AJR/TJK

CC: Mr. Robert Richardson

Encl. Table 1 – Groundwater Analytical Results Summary – VOCs
Table 2 – Water Level Summary
Figure 1 – Site Location Map
Figure 2 – Site Plan
Figure 3 – Groundwater Flow – 07/08/2021
Pace Analytical Report dated July 14, 2021

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Table 1. Groundwater Analytical Results Summary - VOCs
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00
(Results are in µg/L)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	MTBE	Toluene	TMBs	Xylenes	Naphthalene	Other VOCs	
MW-1	11/4/2010	--	**6,950**	**2,380**	**912**	**17,000**	**1,564**	**11,140**	**426**	ND	
	3/3/2011	--	**8,700**	**2,810**	**914**	**18,300**	**2,136**	**13,650**	**478**	Methylene Chloride	113 *
										n-Propylbenzene	208
	9/15/2011	--	**7,550**	**2,540**	**867**	**15,300**	**2,153**	**12,160**	**640**	NA	
	8/15/2013	--	**6,600**	**2,630**	**302**	**15,600**	**2,226**	**11,890**	**663**	NA	
	9/11/2013	--	**5,170**	**2,230**	**184**	**13,200**	**1,889**	**10,300**	**525**	Isopropylbenzene	73.6
										n-Propylbenzene	185
	5/28/2015	--	**5,620**	**2,060**	**160**	**12,800**	**1,854**	**9,360**	**567**	NA	
	6/24/2017	--	**6,970**	**2,980**	**390**	**17,100**	**2,224**	**12,880**	**734**	NA	
	10/23/2017	--	**5,170**	**2,940**	**222**	**14,000**	**2,324**	**13,170**	**711**	NA	
	7/8/2021	--	**2,420**	**2,890**	<11.3	**1,800**	**2,576**	**10,800**	**579**	NA	
MW-2	3/11/2011	--	**5,260**	**3,270**	**284**	**11,100**	**2,887**	**15,270**	**529**	Isopropylbenzene	101
										Methylene Chloride	66.5 *
										n-Propylbenzene	294
	9/15/2011	--	**4,760**	**3,720**	**280**	**10,900**	**3,238**	**16,550**	**891**	NA	
	8/15/2013	--	NA	NA	NA	NA	NA	NA	NA	NA	
	9/11/2013	--	**1,810**	**2,930**	*37.3*	**2,660**	**3,155**	**11,020**	**828**	Isopropylbenzene	150
										n-Propylbenzene	406
										p-Isopropyltoluene	11.3
										sec-Butylbenzene	19.6 J*
	5/28/2015	--	**2,020**	**3,400**	*49.6*	**2,560**	**3,843**	**14,150**	**826**	NA	
	6/24/2017	--	**2,310**	**3,300**	**60.6** J	*480*	**5,160**	**12,950**	**1,560**	NA	
	10/23/2017	--	**1,080**	**2,310**	<24.2	*204*	**4,055**	**8,640**	**928**	NA	
	7/8/2021	--	**335**	**2,000**	<45.2	57.1	**3,861**	**7,360**	**964**	NA	

Table 1. Groundwater Analytical Results Summary - VOCs
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00
(Results are in µg/L)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	MTBE	Toluene	TMBs	Xylenes	Naphthalene	Other VOCs	
MW-3	3/3/2011	--	**3,150**	**3,230**	<76.2	**10,500**	**2,888**	**14,130**	**589**	Isopropylbenzene	105
										n-Propylbenzene	284
										Methylene Chloride	65.6 *
	9/15/2011	--	**2,670**	**2,610**	**74.30**	**6,420**	**2,932**	**10,660**	**680**	NA	
	8/15/2013	--	**2,290**	**3,760**	**562**	**1,750**	**3,411**	**15,650**	**926**	NA	
	9/11/2013	--	**2,290**	**2,580**	**532**	**1,120**	**2,393**	**11,030**	**684**	Isopropylbenzene	93.3
										n-Propylbenzene	230
	5/28/2015	--	**1,360**	**3,040**	<24.2	*719*	**3,342**	**12,610**	**831**	NA	
	6/24/2017	--	**1,100**	**2,900**	*28.6* J	68.3	**3,063**	**9,208**	**743**	NA	
	10/23/2017	--	**1,760**	**2,730**	*58.3* J	*163*	**3,515**	**9,630**	**884**	NA	
	7/8/2021	--	**1,220**	**2,330**	<28.2	35.3	**4,227**	**4,170**	**813**	NA	
MW-4	9/15/2011	--	<0.41	<0.54	**154**	<0.67	<1.80	<2.63	<0.89	1,2-Dichloroethane	2.3
										Chloromethane	0.33
	8/15/2013	--	<0.34	<0.34	**210**	<0.34	<0.69	<1.03	<0.37	NA	
	9/11/2013	--	<0.50	<0.50	**154**	<0.44	<1.00	<1.32	<2.5	1,2-Dichloroethane	1
										Isopropylbenzene	1.4
	5/28/2015	--	<0.40	<0.39	**95.0**	<0.39	<0.84	<1.25	<0.42	NA	
	6/24/2017	--	<0.40	<0.39	0.68 J	<0.39	<0.84	<1.25	<0.42	NA	
	10/23/2017	--	<0.40	<0.39	*21.7*	<0.39	<0.84	<1.25	<0.42	NA	
MW-5	9/15/2011	--	**623**	58.5	**776**	6.3	<9.0	271	<4.4	ND	
	8/15/2013	--	**3,930**	**1,330**	**270**	**969**	**486**	**2,890**	**307**	NA	
	9/11/2013	--	**3,220**	**1,080**	**216**	*737*	*338.8*	**2,152**	**209**	Isopropylbenzene	36.6
										n-Propylbenzene	78.3
	5/28/2015	--	**2,170**	**917**	**105**	**1,690**	**900**	**3,920**	**275**	NA	
	6/24/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	
	10/23/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	2.6	NA	
	7/8/2021	--	**16.6**	26.5	4.7 J1	2.1	23.1	63.8	6.9	NA	

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Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00
(Results are in µg/L)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	MTBE	Toluene	TMBs	Xylenes	Naphthalene	Other VOCs	
MW-6	9/15/2011	--	**289**	75.6	*53.8*	1.7	27.2	6.9	*19.2*	Isopropylbenzene	7.3
										n-Propylbenzene	7.3
	8/15/2013	--	*4.1*	1.2	5.3	<0.34	<0.69	<1.03	<0.37	NA	
	9/11/2013	--	**208**	121	3.2	11.3	35.0	162.1	*20.0*	Isopropylbenzene	6.5
										n-Propylbenzene	13.1
	5/28/2015	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	
	6/24/2017	--	**1,060**	**1,360**	**109**	*166*	**870**	**3,164**	**354**	NA	
	10/23/2017	--	**103**	98.7	4.1	7.9	65.3	160	*22.2*	NA	
	7/8/2021	--	**5.1**	4.1	<1.1	<0.29	0.60 J1	1.9 J1	<1.1	NA	
MW-7	9/11/2013	--	**56.6**	<0.50	**125**	<0.44	<l.00	<1.32	<2.5	1,2-Dichloroethane	1.1
	5/28/2015	--	**18.8**	1.3	**126**	<0.39	<0.84	5.2	1.7	NA	
	6/24/2017	(2)	**244**	8.2	**96.9**	3.2	<1.67	3.0	2.7	NA	
	10/23/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	
MW-8	9/11/2013	--	**12.8**	<0.50	4.30	<0.44	<1.00	<l.32	<2.5	ND	
	5/28/2015	--	*0.75* J	<0.39	10.30	<0.39	1.6	<1.25	0.67 J	NA	
	6/24/2017	--	*2.1*	12.2	2.30	0.441	<0.84	3.0	*14.4*	NA	
	10/23/2017	--	<0.40	<0.39	2.90	<0.39	<0.84	<1.25	<0.42	NA	
MW-9	9/11/2013	--	<0.50	<0.50	1.1	<0.44	<1.00	<1.32	<2.5	ND	
	5/28/2015	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	
	6/24/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	
	10/23/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	
MW-10	9/11/2013	--	<0.50	<0.50	<0.49	<0.44	<1.00	<l.32	<2.5	ND	
	5/28/2015	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	
	6/24/2017	--	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	
	10/23/2017	(1)(2)	<0.40	<0.39	<0.48	<0.39	<0.84	<1.25	<0.42	NA	

Table 1. Groundwater Analytical Results Summary - VOCs
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00
(Results are in µg/L)

Sample	Date	Lab Notes	Benzene	Ethylbenzene	MTBE	Toluene	TMBs	Xylenes	Naphthalene	Other VOCs	
Trip Blank	7/8/2021	--	<0.30	<0.33	<1.1	<0.29	<0.81	<1.0	<1.1	NA	
NR 140 Enforcement Standards (ESs)			5	700	60	800	480	2,000	100	1,2-Dichloroethane	5
										sec-Butylbenzene	NE
										Isopropylbenzene	NE
										n-Propylbenzene	NE
										p-Isopropyltoluene	NE
										Methylene Chloride	0.5
										Chloromethane	30
NR 140 Preventive Action Limits (PALs)			0.5	140	12	160	96	400	10	1,2-Dichloroethane	0.5
										sec-Butylbenzene	NE
										Isopropylbenzene	NE
										n-Propylbenzene	NE
										p-Isopropyltoluene	NE
										Methylene Chloride	5
										Chloromethane	3

Abbreviations:
µg/L = micrograms per liter or parts per billion (ppb)
-- = Not Applicable
NA = Not Analyzed
NE = No Standard Established
MTBE = Methyl tert-butyl ether
VOCs = Volatile Organic Compounds
TMBs = 1,2,4- and 1,3,5-trimethylbenzenes

Notes:
NR 140 ESs - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from February 2021
NR 140 PALs - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from February 2021
Bold+underlined values meet or exceed NR 140 ESs.
Italic+underlined values meet or exceed NR 140 PALs.

Laboratory Notes/Qualifiers:
* = May be laboratory contaminant
J = Estimated concentration below quantitation limit
J1 = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ).
(1) = Lab flagged sample for insufficient preservation pH
(2) = Lab flagged sample for headspace in sample

Created by:	AJR	Date:	7/22/2021
Last revision by:	AJR	Date:	7/26/2021
Checked by:	BJS	Date:	7/31/2021
Proj Mgr QA/QC:	BJS	Date:	7/31/2021

I:\25221172.00\Deliverables\2021-7 GWM Reprt\[Table 1_Groundwater VOCs_Bob's CITGO.xlsx]GW VOCs

Table 2. Water Level Summary
Bob's Citgo, Milton, Wisconsin / SCS Engineers Project #25221172.00

	Depth to Water in feet below top of well casing									
	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9	MW10
Measurement Date										
11/4/2010	**53.15**									
3/3/2011	**53.92**	**51.18**	**54.02**							
9/15/2011	**54.85**	**59.17**	**54.67**	**55.9**	**57.85**	**57.06**				
8/15/2013	**55.92**	**51.3**	**52.68**	**57.45**	**60.77**	**59.14**				
9/11/2013	**55.16**	**48.01**	**52.06**	**57.1**	**60.23**	**58.77**	**60.86**	**64.39**	**59.61**	**61.29**
5/28/2015	**57.51**	**50.25**	**55.51**	**58.95**	**62.76**	**60.84**	**63.54**	**67.17**	**61.91**	**64.56**
6/24/2017	**53.78**	**48.35**	**53.81**	**52.91**	**56.86**	**59.16**	**61.03**	**64.72**	**60.29**	**62.24**
10/23/2017	**54.65**	**46.36**	**51.78**	**56.2**	**58.59**	**57.49**	**59.08**	**62.75**	**58.05**	**59.57**
7/8/2021	**52.46**	**47.61**	**51.73**	**53.75**	**54.83**	**54.43**	**55.50**	**59.09**	**54.16**	**56.48**

	Ground Water Elevation in feet above mean sea level (amsl)									
Well Number	**MW1**	**MW2**	**MW3**	**MW4**	**MW5**	**MW6**	**MW7**	**MW8**	**MW9**	**MW10**
Top of Casing Elevation* (feet amsl)	874.49	873.75	874.81	874.59	875.04	874.85	875.26	878.45	874.57	876.37
Screen Length (ft)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15
Total Depth (ft from top of casing)	62.40	61.90	62.80	63.30	63.70	64.30	69.50	73.60	65.60	69.1
Top of Well Screen Elevation (ft)	827.09	826.85	827.01	826.29	826.34	825.55	820.76	819.85	823.97	822.27
Measurement Date										
11/4/2010	**821.34**									
3/3/2011	**820.57**	**822.78**	**821.03**							
9/15/2011	**819.64**	**814.79**	**820.38**	**818.7**	**817.35**	**817.74**				
8/15/2013	**818.57**	**822.66**	**822.37**	**817.15**	**814.43**	**815.66**				
9/11/2013	**819.33**	**826.12**	**822.99**	**817.5**	**814.97**	**816.03**	**814.4**	**814.06**	**814.96**	**815.39**
5/28/2015	**816.98**	**823.85**	**819.54**	**815.65**	**812.44**	**813.96**	**811.72**	**811.28**	**812.66**	**812.12**
6/24/2017	**820.71**	**825.76**	**821.24**	**821.69**	**818.34**	**815.64**	**814.23**	**813.73**	**814.28**	**814.44**
10/23/2017	**819.84**	**827.62**	**823.27**	**818.4**	**816.61**	**817.31**	**816.18**	**815.7**	**816.52**	**817.11**
7/8/2021	**822.03**	**826.14**	**823.08**	**820.84**	**820.21**	**820.42**	**819.76**	**819.36**	**820.41**	**819.89**
Bottom of Well Elevation (ft)	812.09	811.85	812.01	811.29	811.34	810.55	805.76	804.85	808.97	807.27

Notes:
*Wells MW1-MW6, & MW19 were resurveyed 7/8/2021. Wells MW2, MW3, MW5 & MW10 casings were cut down 0.2' on 7/8/2021.
Depth to water measurements and groundwater elevations prior to 7/8/2021 are from Seymour Environmental reports.
Red indicates free product present; elevation not corrected for product.

Created by:	BJS	Date:	7/25/2021
Last revision by:	BJS	Date:	7/25/2021
Checked by:	BJS	Date:	7/25/2021
Proj Mgr QA/QC:	BJS	Date:	7/25/2021

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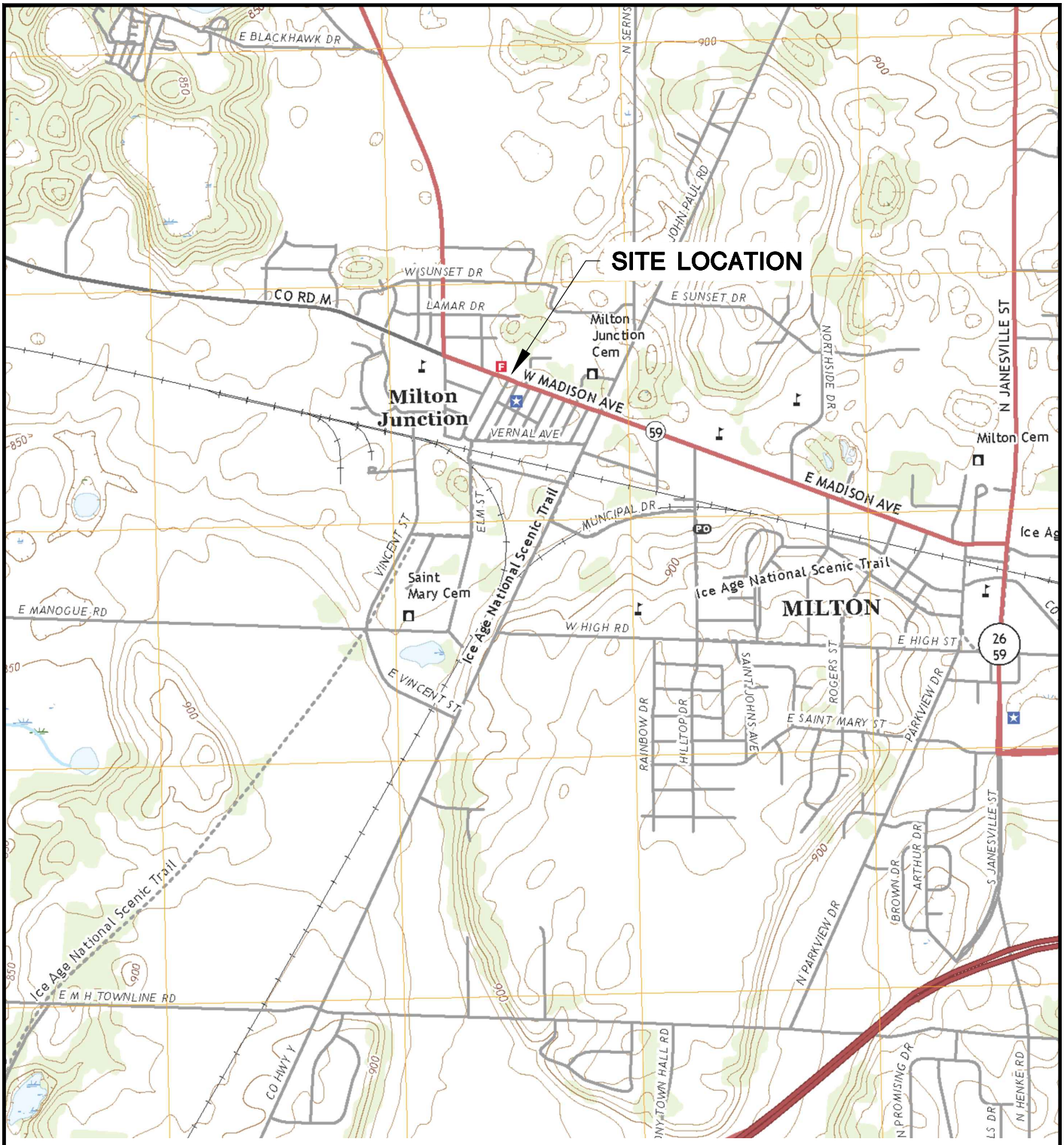

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MILTON QUADRANGLE
WISCONSIN
7.5 MINUTE SERIES (TOPOGRAPHIC)
2018

1000 0 1000 2000
FEET

CLIENT	MR. ROBERT RICHARDSON 507 CAMPUS STREET MILTON, WI 53563	SITE	BOB'S CITGO 602 W. MADISON AVENUE MILTON, WISCONSIN

SITE LOCATION MAP

PROJECT NO.	25221172.00	DRAWN BY:	KP
DRAWN:	08/02/2021	CHECKED BY:	BJS
REVISED:	08/02/2021	APPROVED BY:	BJS 08/03/2021

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

FIGURE
1

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SITE PLAN

BOB'S CITGO
602 W. MADISON AVENUE
MILTON, WISCONSIN

SITE

MR. ROBERT RICHARDSON
507 CAMPUS STREET
MILTON, WI 53563

CLIENT

FIGURE 2

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

ENGINEER

DRAWN BY:	KP	
CHECKED BY:	BJS	
APPROVED BY:	BJS	08/03/2021
PROJECT NO.	25221172.00	
DRAWN:	08/02/2021	
REVISED:	08/02/2021	

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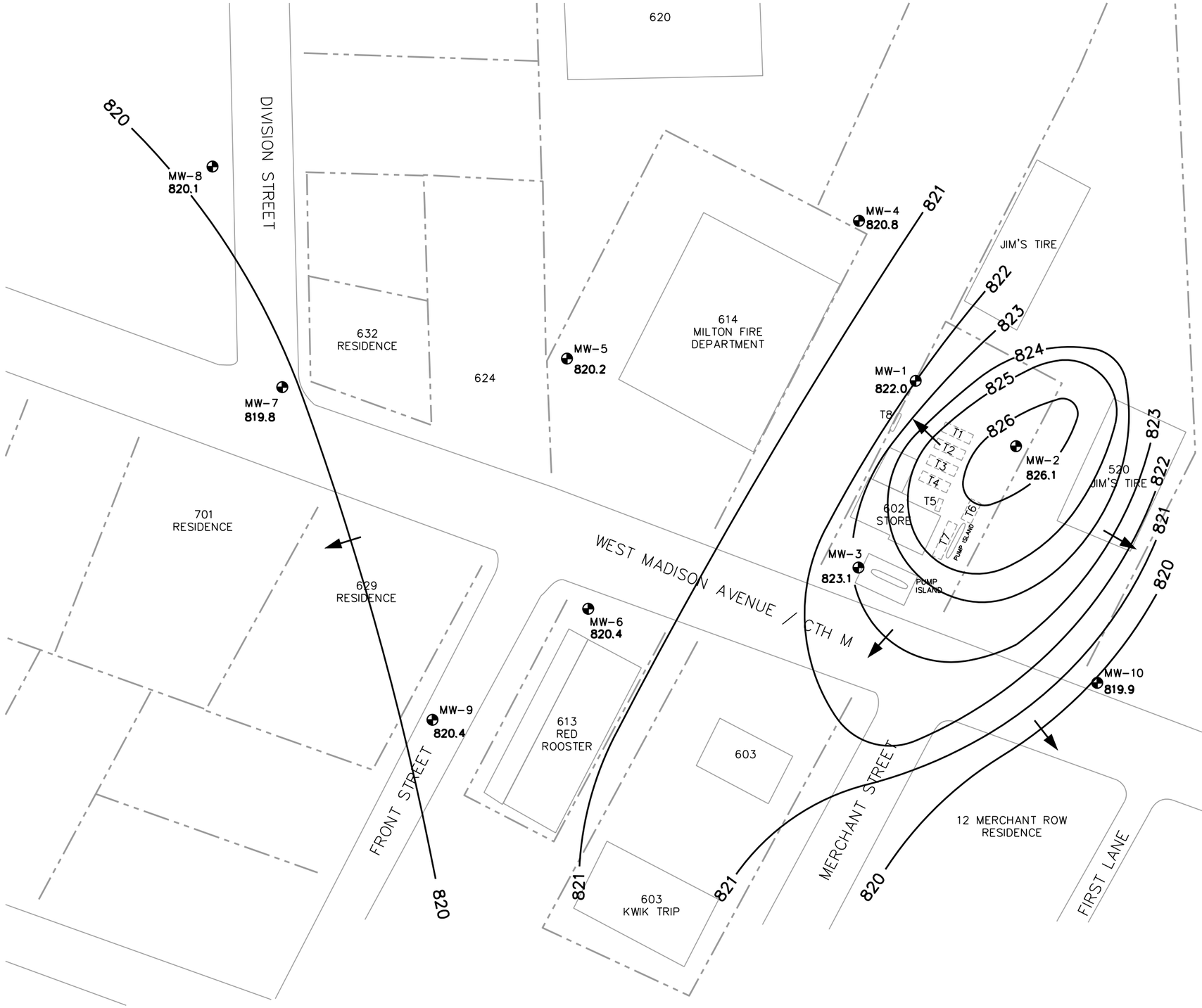

GROUNDWATER FLOW
07/08/2021

SITE
BOB'S CITGO
602 W. MADISON AVENUE
MILTON, WISCONSIN

CLIENT
MR. ROBERT RICHARDSON
507 CAMPUS STREET
MILTON, WI 53563

FIGURE 3

ENGINEER
SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

DRAWN BY:	KP	
CHECKED BY:	BJS	
APPROVED BY:	BJS	08/03/2021
PROJECT NO.	25221172.00	
DRAWN:	08/02/2021	
REVISED:	08/02/2021	

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 14, 2021

Betty Socha
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Dear Betty Socha:

Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40229709001	**TRIP BLANK**	Water	07/08/21 09:10	07/10/21 08:55
40229709002	**MW 6**	Water	07/08/21 12:30	07/10/21 08:55
40229709003	**MW 5**	Water	07/08/21 13:20	07/10/21 08:55
40229709004	**MW 3**	Water	07/08/21 15:20	07/10/21 08:55
40229709005	**MW 2**	Water	07/08/21 15:30	07/10/21 08:55
40229709006	**MW 1**	Water	07/08/21 16:00	07/10/21 08:55

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40229709001	**TRIP BLANK**	EPA 8260	SMT	11	PASI-G
40229709002	**MW 6**	EPA 8260	LAP	11	PASI-G
40229709003	**MW 5**	EPA 8260	LAP	11	PASI-G
40229709004	**MW 3**	EPA 8260	LAP	11	PASI-G
40229709005	**MW 2**	EPA 8260	LAP	11	PASI-G
40229709006	**MW 1**	EPA 8260	LAP	11	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40229709002	**MW 6**					
EPA 8260	Benzene	5.1	ug/L	1.0	07/13/21 18:56	
EPA 8260	Ethylbenzene	4.1	ug/L	1.0	07/13/21 18:56	
EPA 8260	1,2,4-Trimethylbenzene	0.60J	ug/L	1.0	07/13/21 18:56	
EPA 8260	Xylene (Total)	1.9J	ug/L	3.0	07/13/21 18:56	
40229709003	**MW 5**					
EPA 8260	Benzene	16.6	ug/L	1.0	07/13/21 19:15	
EPA 8260	Ethylbenzene	26.5	ug/L	1.0	07/13/21 19:15	
EPA 8260	Methyl-tert-butyl ether	4.7J	ug/L	5.0	07/13/21 19:15	
EPA 8260	Naphthalene	6.9	ug/L	5.0	07/13/21 19:15	
EPA 8260	Toluene	2.1	ug/L	1.0	07/13/21 19:15	
EPA 8260	1,2,4-Trimethylbenzene	17.6	ug/L	1.0	07/13/21 19:15	
EPA 8260	1,3,5-Trimethylbenzene	5.5	ug/L	1.0	07/13/21 19:15	
EPA 8260	Xylene (Total)	63.8	ug/L	3.0	07/13/21 19:15	
40229709004	**MW 3**					
EPA 8260	Benzene	1220	ug/L	25.0	07/13/21 20:11	
EPA 8260	Ethylbenzene	2330	ug/L	25.0	07/13/21 20:11	
EPA 8260	Naphthalene	813	ug/L	125	07/13/21 20:11	
EPA 8260	Toluene	35.3	ug/L	25.0	07/13/21 20:11	
EPA 8260	1,2,4-Trimethylbenzene	3530	ug/L	25.0	07/13/21 20:11	
EPA 8260	1,3,5-Trimethylbenzene	697	ug/L	25.0	07/13/21 20:11	
EPA 8260	Xylene (Total)	4170	ug/L	75.0	07/13/21 20:11	
40229709005	**MW 2**					
EPA 8260	Benzene	335	ug/L	40.0	07/13/21 19:52	
EPA 8260	Ethylbenzene	2000	ug/L	40.0	07/13/21 19:52	
EPA 8260	Naphthalene	964	ug/L	200	07/13/21 19:52	
EPA 8260	Toluene	57.1	ug/L	40.0	07/13/21 19:52	
EPA 8260	1,2,4-Trimethylbenzene	3230	ug/L	40.0	07/13/21 19:52	
EPA 8260	1,3,5-Trimethylbenzene	631	ug/L	40.0	07/13/21 19:52	
EPA 8260	Xylene (Total)	7360	ug/L	120	07/13/21 19:52	
40229709006	**MW 1**					
EPA 8260	Benzene	2420	ug/L	10.0	07/13/21 19:34	
EPA 8260	Ethylbenzene	2890	ug/L	10.0	07/13/21 19:34	
EPA 8260	Naphthalene	579	ug/L	50.0	07/13/21 19:34	
EPA 8260	Toluene	1800	ug/L	10.0	07/13/21 19:34	
EPA 8260	1,2,4-Trimethylbenzene	2120	ug/L	10.0	07/13/21 19:34	
EPA 8260	1,3,5-Trimethylbenzene	456	ug/L	10.0	07/13/21 19:34	
EPA 8260	Xylene (Total)	10800	ug/L	300	07/14/21 08:37	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Sample: TRIP BLANK **Lab ID: 40229709001** Collected: 07/08/21 09:10 Received: 07/10/21 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**<0.30**	ug/L	1.0	0.30	1		07/13/21 12:07	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		07/13/21 12:07	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/13/21 12:07	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/13/21 12:07	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/13/21 12:07	108-88-3	
1,2,4-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		07/13/21 12:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/13/21 12:07	108-67-8	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		07/13/21 12:07	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		07/13/21 12:07	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		07/13/21 12:07	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		07/13/21 12:07	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Sample: MW 6 **Lab ID: 40229709002** Collected: 07/08/21 12:30 Received: 07/10/21 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**5.1**	ug/L	1.0	0.30	1		07/13/21 18:56	71-43-2	
Ethylbenzene	**4.1**	ug/L	1.0	0.33	1		07/13/21 18:56	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		07/13/21 18:56	1634-04-4	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		07/13/21 18:56	91-20-3	
Toluene	**<0.29**	ug/L	1.0	0.29	1		07/13/21 18:56	108-88-3	
1,2,4-Trimethylbenzene	**0.60J**	ug/L	1.0	0.45	1		07/13/21 18:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.36**	ug/L	1.0	0.36	1		07/13/21 18:56	108-67-8	
Xylene (Total)	**1.9J**	ug/L	3.0	1.0	1		07/13/21 18:56	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%	70-130		1		07/13/21 18:56	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		07/13/21 18:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		07/13/21 18:56	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Sample: MW 5 **Lab ID: 40229709003** Collected: 07/08/21 13:20 Received: 07/10/21 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**16.6**	ug/L	1.0	0.30	1		07/13/21 19:15	71-43-2	
Ethylbenzene	**26.5**	ug/L	1.0	0.33	1		07/13/21 19:15	100-41-4	
Methyl-tert-butyl ether	**4.7J**	ug/L	5.0	1.1	1		07/13/21 19:15	1634-04-4	
Naphthalene	**6.9**	ug/L	5.0	1.1	1		07/13/21 19:15	91-20-3	
Toluene	**2.1**	ug/L	1.0	0.29	1		07/13/21 19:15	108-88-3	
1,2,4-Trimethylbenzene	**17.6**	ug/L	1.0	0.45	1		07/13/21 19:15	95-63-6	
1,3,5-Trimethylbenzene	**5.5**	ug/L	1.0	0.36	1		07/13/21 19:15	108-67-8	
Xylene (Total)	**63.8**	ug/L	3.0	1.0	1		07/13/21 19:15	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%	70-130		1		07/13/21 19:15	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		07/13/21 19:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		07/13/21 19:15	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Sample: MW 3 **Lab ID: 40229709004** Collected: 07/08/21 15:20 Received: 07/10/21 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**1220**	ug/L	25.0	7.4	25		07/13/21 20:11	71-43-2	
Ethylbenzene	**2330**	ug/L	25.0	8.1	25		07/13/21 20:11	100-41-4	
Methyl-tert-butyl ether	**<28.2**	ug/L	125	28.2	25		07/13/21 20:11	1634-04-4	
Naphthalene	**813**	ug/L	125	28.2	25		07/13/21 20:11	91-20-3	
Toluene	**35.3**	ug/L	25.0	7.2	25		07/13/21 20:11	108-88-3	
1,2,4-Trimethylbenzene	**3530**	ug/L	25.0	11.2	25		07/13/21 20:11	95-63-6	
1,3,5-Trimethylbenzene	**697**	ug/L	25.0	8.9	25		07/13/21 20:11	108-67-8	
Xylene (Total)	**4170**	ug/L	75.0	26.2	25		07/13/21 20:11	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%	70-130		25		07/13/21 20:11	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		25		07/13/21 20:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		25		07/13/21 20:11	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Sample: MW 2 **Lab ID: 40229709005** Collected: 07/08/21 15:30 Received: 07/10/21 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**335**	ug/L	40.0	11.8	40		07/13/21 19:52	71-43-2	
Ethylbenzene	**2000**	ug/L	40.0	13.0	40		07/13/21 19:52	100-41-4	
Methyl-tert-butyl ether	**<45.2**	ug/L	200	45.2	40		07/13/21 19:52	1634-04-4	
Naphthalene	**964**	ug/L	200	45.2	40		07/13/21 19:52	91-20-3	
Toluene	**57.1**	ug/L	40.0	11.5	40		07/13/21 19:52	108-88-3	
1,2,4-Trimethylbenzene	**3230**	ug/L	40.0	17.9	40		07/13/21 19:52	95-63-6	
1,3,5-Trimethylbenzene	**631**	ug/L	40.0	14.3	40		07/13/21 19:52	108-67-8	
Xylene (Total)	**7360**	ug/L	120	41.9	40		07/13/21 19:52	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	70-130		40		07/13/21 19:52	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		40		07/13/21 19:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		40		07/13/21 19:52	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Sample: MW 1 **Lab ID: 40229709006** Collected: 07/08/21 16:00 Received: 07/10/21 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Benzene	**2420**	ug/L	10.0	3.0	10		07/13/21 19:34	71-43-2	
Ethylbenzene	**2890**	ug/L	10.0	3.3	10		07/13/21 19:34	100-41-4	
Methyl-tert-butyl ether	**<11.3**	ug/L	50.0	11.3	10		07/13/21 19:34	1634-04-4	
Naphthalene	**579**	ug/L	50.0	11.3	10		07/13/21 19:34	91-20-3	
Toluene	**1800**	ug/L	10.0	2.9	10		07/13/21 19:34	108-88-3	
1,2,4-Trimethylbenzene	**2120**	ug/L	10.0	4.5	10		07/13/21 19:34	95-63-6	
1,3,5-Trimethylbenzene	**456**	ug/L	10.0	3.6	10		07/13/21 19:34	108-67-8	
Xylene (Total)	**10800**	ug/L	300	105	100		07/14/21 08:37	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	70-130		10		07/13/21 19:34	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		10		07/13/21 19:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		10		07/13/21 19:34	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

QC Batch: 390161
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40229709001

METHOD BLANK: 2250010 Matrix: Water
Associated Lab Samples: 40229709001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	07/13/21 08:14	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	07/13/21 08:14	
Benzene	ug/L	<0.30	1.0	07/13/21 08:14	
Ethylbenzene	ug/L	<0.33	1.0	07/13/21 08:14	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	07/13/21 08:14	
Naphthalene	ug/L	<1.1	5.0	07/13/21 08:14	
Toluene	ug/L	<0.29	1.0	07/13/21 08:14	
Xylene (Total)	ug/L	<1.0	3.0	07/13/21 08:14	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130	07/13/21 08:14	
4-Bromofluorobenzene (S)	%	100	70-130	07/13/21 08:14	
Toluene-d8 (S)	%	99	70-130	07/13/21 08:14	

LABORATORY CONTROL SAMPLE: 2250011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	56.2	112	70-132	
Ethylbenzene	ug/L	50	54.2	108	80-123	
Methyl-tert-butyl ether	ug/L	50	42.8	86	66-130	
Toluene	ug/L	50	53.9	108	80-121	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			102	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

QC Batch: 390195
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40229709002, 40229709003, 40229709004, 40229709005, 40229709006

METHOD BLANK: 2250215 Matrix: Water
Associated Lab Samples: 40229709002, 40229709003, 40229709004, 40229709005, 40229709006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	07/13/21 13:02	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	07/13/21 13:02	
Benzene	ug/L	<0.30	1.0	07/13/21 13:02	
Ethylbenzene	ug/L	<0.33	1.0	07/13/21 13:02	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	07/13/21 13:02	
Naphthalene	ug/L	<1.1	5.0	07/13/21 13:02	
Toluene	ug/L	<0.29	1.0	07/13/21 13:02	
Xylene (Total)	ug/L	<1.0	3.0	07/13/21 13:02	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130	07/13/21 13:02	
4-Bromofluorobenzene (S)	%	107	70-130	07/13/21 13:02	
Toluene-d8 (S)	%	104	70-130	07/13/21 13:02	

LABORATORY CONTROL SAMPLE: 2250216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	54.4	109	70-132	
Ethylbenzene	ug/L	50	55.4	111	80-123	
Methyl-tert-butyl ether	ug/L	50	47.9	96	66-130	
Toluene	ug/L	50	53.8	108	80-121	
Xylene (Total)	ug/L	150	158	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			106	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2250818 2250819

Parameter	Units	40229732003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.30	50	50	53.3	54.7	107	109	70-132	2	20	
Ethylbenzene	ug/L	<0.33	50	50	56.8	56.7	114	113	80-123	0	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	45.6	47.3	91	95	66-130	4	20	
Toluene	ug/L	<0.29	50	50	55.2	55.8	110	112	80-121	1	20	
Xylene (Total)	ug/L	<1.0	150	150	161	161	107	108	70-130	0	20	
1,2-Dichlorobenzene-d4 (S)	%						103	103	70-130			
4-Bromofluorobenzene (S)	%						114	109	70-130			
Toluene-d8 (S)	%						107	107	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25221172 BOB'S CITGO
Pace Project No.: 40229709

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40229709001	**TRIP BLANK**	EPA 8260	390161		
40229709002	**MW 6**	EPA 8260	390195		
40229709003	**MW 5**	EPA 8260	390195		
40229709004	**MW 3**	EPA 8260	390195		
40229709005	**MW 2**	EPA 8260	390195		
40229709006	**MW 1**	EPA 8260	390195		

40229709

(Please Print Clearly)	
Company Name:	SCS Engineers
Branch/Location:	Madison, WI
Project Contact:	Betty Socha
Phone:	(608) 216-7331
Project Number:	25221172
Project Name:	Bob's Citgo
Project State:	WI
Sampled By (Print):	Paul A. Grover
Sampled By (Sign):	Paul A. Grover
PO #:	Regulatory Program:

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water
B = Biota, DW = Drinking Water
C = Charcoal, GW = Ground Water
O = Oil, SW = Surface Water
S = Soil, WW = Waste Water
SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter	PVOC + Nap			
001	Trip Blank	7/8/21	9:10	DW	No	B	X	Dasani		
002	MW 6		12:30	GW						
003	MW 5		13:20							
004	MW 3		15:20							
005	MW 2		15:30							
006	MW 1		16:00							

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Paul A. Grover	7-9-21 15:30		
CS Logistics	7-10-21 855	[illegible] / pace	7-10-21 855

PACE Project No.
40229709

Receipt Temp = 3 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / (Not Present)
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: SCS engineers Project # U0229709

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A

Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																	N															2.5 / 5 / 10
002																	N															2.5 / 5 / 10
003																	N															2.5 / 5 / 10
004																	N															2.5 / 5 / 10
005																	N															2.5 / 5 / 10
006																	N															2.5 / 5 / 10
007																																2.5 / 5 / 10
008																																2.5 / 5 / 10
009																																2.5 / 5 / 10
010																																2.5 / 5 / 10
011																																2.5 / 5 / 10
012																																2.5 / 5 / 10
013																																2.5 / 5 / 10
014																																2.5 / 5 / 10
015																									7/10/21							2.5 / 5 / 10
016																									MP							2.5 / 5 / 10
017																																2.5 / 5 / 10
018																																2.5 / 5 / 10
019																																2.5 / 5 / 10
020																																2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : ☐Yes ☒No ☐N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40229709

40229709

Client Name: SCS engineers

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

Tracking #: —

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

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used SR - 103 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.5 /Corr: 3

Person examining contents:
Date: 7/10/21 /Initials: MP

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Labeled By Initials: EL

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. Invoice Info 7/10/21 MP
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☒No ☐N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☒No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒Yes ☐No ☐N/A	12.
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 1496		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2