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June 20, 2024

Attn: Nichole Osuch
Project Manager/Environmental Scientist
Arizona Department of Environmental Quality
1110 W Washington St
Phoenix, AZ 85007

Project name: Union Pacific Railroad 22nd Street Site (Voluntary Remediation Program Site Code 501994-00)
Project no: UPSRAZ31

Subject: First Semiannual 2024 Progress Report

Dear Ms. Osuch,

On behalf of Union Pacific Railroad (UPRR), Jacobs has prepared this progress report for the 22nd Street site in Tucson, Arizona (site) (Figure 1) for fourth quarter 2023 through first quarter 2024 (reporting period).

1. Introduction

As described in the Proposed Remedial Action Plan (PRAP)¹, semiannual reports must include data obtained during each reporting period, a summary of remediation performance metrics, and remedial progress. Periodic review reports, prepared every 3 years, will include historical data and a more detailed analysis of trends, metrics, and remedial progress.

2. Site Hydrogeology

A perched groundwater zone is encountered at approximately 104 to 127 feet below ground surface (bgs) and varies in thickness from 0 to approximately 15 feet. Below the perched groundwater zone is an aquitard composed mostly of clay. Limited information regarding the thickness of the aquitard is available. The aquitard is approximately 15 feet thick at monitoring well MW-22-14. Below the aquitard is a lower vadose zone about 100 feet thick, and below that is the regional aquifer, located at a depth of about 215 feet bgs. Light nonaqueous phase liquid (LNAPL) is generally limited to the perched groundwater zone, although some LNAPL was observed in the regional aquifer during the remedial investigation².

3. Groundwater Elevation Measurements

The groundwater monitoring network at the site consists of 45 monitoring wells (Figure 2). Jacobs completed LNAPL and water level gauging in 44 of the 45 groundwater monitoring wells during

¹ Jacobs Engineering Group, Inc. (Jacobs). 2021. *Proposed Remedial Action Plan, Union Pacific Railroad Company 22nd Street Site, Tucson, Arizona*. Revised Draft. February.

² Environmental Resources Management (ERM). 2001. *Remedial Investigation Report, 22nd Street Site, ADEQ VRP Facility #501994-00, Tucson, Arizona*. January.

the first quarter (February) 2024 groundwater monitoring event (monitoring event). Table 1 summarizes well construction information and Table 2 provides the groundwater monitoring schedule.

Remediation well IW-22-26 was inaccessible during the monitoring event due to a parked vehicle that obstructed access to the well. Groundwater sampling is not required for this well. Monitoring wells MW-22-6, MW-22-29, and MW-22-39 were dry during the monitoring event.

Table 3 presents the depth-to-water and LNAPL measurements, elevation data, and LNAPL thickness from the monitoring event. Perched aquifer elevations in monitoring wells without LNAPL ranged from 2,330.77 feet above mean sea level (amsl) (well MW-22-44) to 2,350.28 feet amsl (well MW-22-3). The elevation of the regional aquifer was 2,251.74 feet amsl (well MW-22-14). Perched aquifer elevations in monitoring wells without LNAPL increased an average of 0.53 foot between August 2023 and February 2024. The elevation of the regional aquifer increased 0.60 foot over the same period.

A perched aquifer gradient map was developed from the groundwater elevation data collected at the site during the monitoring event (Figure 2). Groundwater elevation data from wells with LNAPL and wells that have had historically anomalous data were not used in the development of this figure. The calculated groundwater flow direction at the site was to the west-northwest, with a hydraulic gradient ranging from 0.004 foot per foot (ft/ft) (western flow direction) to 0.009 ft/ft (northwest flow direction), consistent with the historically observed flow direction and gradient. A gradient map of the regional aquifer was not generated because only one site well is screened in this aquifer. Previous evaluations indicated that the groundwater gradient in the regional aquifer is to the northeast^{2,3}.

4. Sitewide LNAPL Distribution and Thickness

LNAPL was detected in 10 of the wells gauged during the monitoring event. Well locations and LNAPL thicknesses are depicted on Figure 3. LNAPL thicknesses in monitoring wells ranged from 0.13 foot (wells MW-22-35) to 4.14 feet (well MW-22-11) during the first quarter 2024 gauging event (Table 3). All wells with measurable LNAPL during the monitoring event have had measurable thicknesses in previous years, indicating that the LNAPL plume is stable.

5. Groundwater Sampling Results

Groundwater monitoring wells EW-22-19, EW-22-21, MW-22-3, MW-22-11, MW-22-14, MW-22-31, MW-22-37, MW-22-38, MW-22-40, MW-22-41, MW-22-42, MW-22-43, MW-22-44, and MW-22-45 were sampled during the monitoring event. Samples from wells with no LNAPL were collected using HydraSleeves[®], and samples from wells with LNAPL were collected using disposable bailers. For wells with no LNAPL, samples were collected at least 24 hours after the HydraSleeves[®] were deployed. Analytical reports are included in Attachment 1.

Samples from 12 wells were analyzed for VOCs by U.S. Environmental Protection Agency (EPA) Method 8260D and PAHs by EPA Method 8270 Selective Ion Monitoring (SIM). Additionally, samples from 6 wells were analyzed for monitored natural attenuation (MNA) parameters including nitrate and sulfate (by EPA Method 300.0), ferrous iron (by Method SM 3500-Fe B), total alkalinity as calcium carbonate (by Method SM 2320B), and methane (by Method RSK 175).

Table 4 summarizes validated analytical results. Several PAHs were detected exceeding the laboratory reporting limits in most samples during the monitoring event. None of the detected PAHs exceeded their respective aquifer water quality standard (AWQS). Benzene was detected at concentrations exceeding its AWQS in three wells containing LNAPL at a maximum concentration of 89.8 µg/L in well EW-22-19. Benzene concentrations decreased with distance from the historical pipeline leak, indicating that its

³ CH2M HILL Engineers, Inc. (CH2M). 2014. *Revised Remedial Investigation Report, 22nd Street Site, Tucson, Arizona, VRP Site Code 501994-00*. February.

concentration attenuates even in the presence of LNAPL. Benzene was not detected above its AWQS in downgradient well MW-22-38 and was not detected above its laboratory reporting limit in wells MW-22-41, MW-22-44, or MW-22-45 indicating that the dissolved phase plume is stable and does not extend outside the LNAPL-impacted area. No other VOCs were detected at concentrations exceeding an AWQS.

Table 5 summarizes the results of natural attenuation analyses. Wells MW-22-3 and MW-22-43 are considered background wells due to their locations upgradient or cross-gradient of the LNAPL. Wells MW-22-11 and MW-22-31 are located within the LNAPL body, and wells MW-22-38 and MW-22-44 are located downgradient of the LNAPL. The following trends provide evidence of natural attenuation:

- Methane was detected in one background well (MW-22-43) at the low concentration of 27.6 µg/L but was detected at concentrations up to 9,580 µg/L within the LNAPL body and up to 3,630 µg/L downgradient of the LNAPL. These results indicate methanogenesis is occurring within the LNAPL, causing the increased methane concentrations, and oxygenation of the methane is occurring downgradient of the LNAPL, reducing the concentrations of methane.
- Alkalinity concentrations were highest in wells where LNAPL was present and in 1 downgradient well. Increased alkalinity is an indication of microbial activity.
- Ferrous iron concentrations were lowest in the background wells and highest in downgradient wells. Increased ferrous iron is an indication of iron reduction, an anaerobic degradation process.
- Nitrate concentrations were highest in the background wells and nitrate was not detected in wells within or downgradient of the LNAPL. This indicates denitrification, an anaerobic degradation process, is occurring where LNAPL is present.
- Sulfate concentrations were highest in background wells and lower within and downgradient of the LNAPL. This indicates sulfate reduction, an anaerobic degradation process, is occurring where LNAPL is present.

6. LNAPL Recovery

The Arizona Department of Environmental Quality-approved PRAP proposed a site remedy that included recovery of LNAPL from site wells, the use of LNAPL skimmers in selected onsite wells, and a bioventing system to distribute oxygen within the subsurface and enhance biodegradation. Skimming is no longer feasible as previously discussed in Sections 6.1 and 6.2 of the First Semiannual 2023 Progress Report⁴. The following sections describe results of LNAPL recovery using bailers and sorbent tubes, and bioventing.

6.1 Bailer and Sorbent Tube Recovery

LNAPL recovery using bailers and sorbent tubes typically is performed quarterly unless a contingency measure triggers monthly recovery. Except for monitoring well MW-22-36, the sorbent tubes currently used at the site are SoakEase™ by Durham Geo Slope Indicator, with a diameter of 3.5 inches and a length of 36 inches. Each SoakEase™ has an absorption capacity of approximately 0.75 gallon of product. The sorbent tubes installed in monitoring well MW-22-36 are the narrower and shorter PIG® Monitoring Well Skimming Socks by New Pig (1.5 inches in diameter and 18 inches in length). These sorbent tubes are used at this well location due to limited wellhead access, which also prevents LNAPL recovery via bailing. Two PIG® Skimming Socks are deployed at time in well MW-22-36 for a total absorption capacity of approximately 0.3 gallons of product.

⁴ Jacobs Engineering Group, Inc. (Jacobs). 2023. *First Semiannual 2023 Progress Report, 22nd Street Site, Tucson, Arizona, VRP Facility #501994-00*. June.

Jacobs bailed approximately 18 gallons of LNAPL from 4 site wells during the reporting period, including approximately 9 gallons during the monitoring event. Sorbent tubes were retrieved and redeployed at 20 monitoring wells during the reporting period with a total volume of approximately 15 gallons of recovered LNAPL. This brings the total volume of recovered LNAPL (via bailing and sorbent tubes) during the reporting period to approximately 33 gallons.

6.2 Bioventing Blower

The bioventing system was shut down between August 14 and October 18, 2023, to perform repairs to the bioventing air blower. During that time, the air blower component was removed from the bioventing skid and shipped out of state to the manufacturer for parts replacement and rebuilding. Reinstallation of the air blower was completed on October 18, 2023, and the bioventing system was successfully tested and resumed routine operation. Periodic system checks and data collection resumed following restarting the system.

Table 6 presents the bioventing operational data for the reporting period. The oxygen concentration in the air extracted from the subsurface ranged from 18.9% to 20.9% and the carbon dioxide concentration in the extracted air ranged from 0% to 0.9%. These data indicate successful oxygenation of the subsurface by the blower.

Table 7 presents the petroleum degradation calculations. Degradation of petroleum was calculated based on the oxygen depletion and the volume of air extracted from the subsurface. Multiplying this product by the time of blower operation provided the mass of oxygen consumed between measurements. This was converted to the mass of petroleum removed using the stoichiometry for the oxidation of hexane as a representative hydrocarbon. No degradation was calculated for most of the reporting period because the air extracted from the subsurface did not show any oxygen depletion. It is likely that biodegradation was occurring during these periods but could not be measured with this technique. The volume of air injected exceeded the volume of air extracted by a factor of more than three and the extracted air likely did not represent all biodegradation occurring in the subsurface.

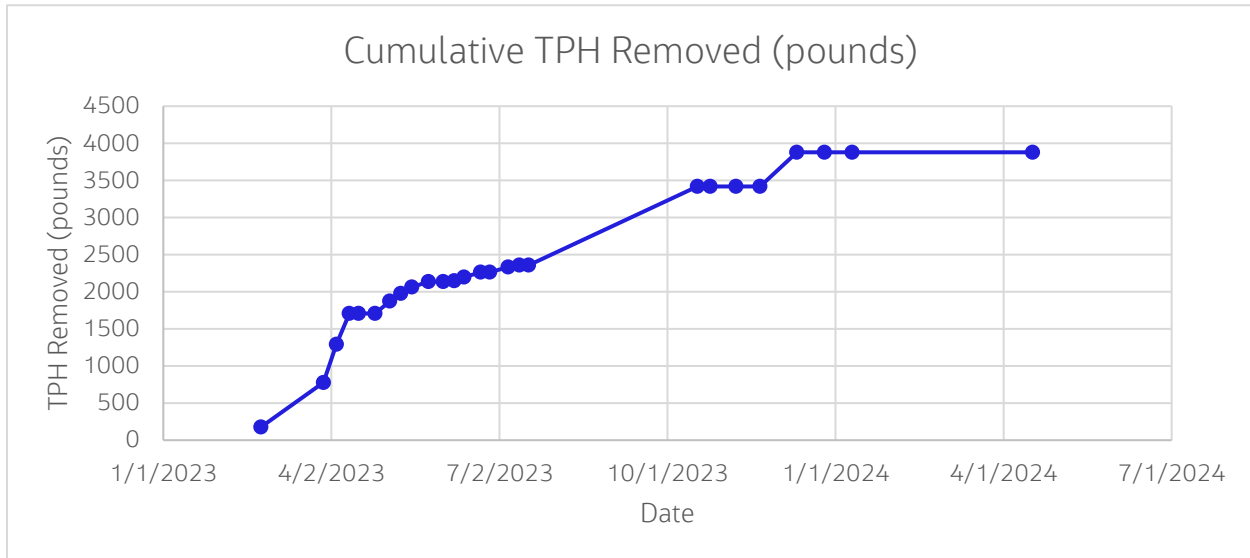
Exhibit 1 presents a graph of cumulative mass removal by the bioventing system. Approximately 3,900 pounds, or 610 gallons (assuming a density of 0.857 gram per milliliter), of petroleum were eliminated from the subsurface by the bioventing system since operation began in February 2023, including about 72 gallons during the reporting period.

Jacobs (2024) proposed turning off the blower and conducting rebound testing to optimize blower operation by using a pulsed operational strategy as follows:

- Turn off the blower.
- Operate the blower once per month for one hour. Measure the oxygen, carbon dioxide, and methane concentrations at the blower inlet.
- Operate the blower in a pulsed mode to maintain oxygen concentrations above 5% in the extracted soil vapor.

The oxygen uptake rate measured from this procedure will be used to estimate petroleum biodegradation through bioventing. This work is currently ongoing and result will be included in the next semiannual report. The report will include a summary of measurements or assumptions such as soil type, air-filled porosity, and dry bulk density used in the calculations.

Exhibit 1. Cumulative Total Petroleum Hydrocarbon (TPH) Removal Through Bioventing



7. Performance Metrics

As indicated in the PRAP, the primary performance metric is continued protection of regional aquifer drinking water wells from site-related constituents, which is verified by the groundwater monitoring program. The PRAP also outlines the following performance metrics to evaluate the effectiveness of distributed LNAPL recovery at the site:

- Volume of LNAPL removed from or degraded within the subsurface through natural source zone depletion (NSZD), bioventing, absorption into sorbent tubes, and bailing.
- Reductions in LNAPL transmissivity in onsite remediation wells.
- Bioventing effectiveness at aerating the subsurface.
- Stability of LNAPL.
- Stability of dissolved-phase constituents.

The volume of LNAPL removed from or degraded within the subsurface through NSZD, sorbent tubes, and bailing during the 6-month reporting period is summarized in Exhibit 2.

Exhibit 2. LNAPL Removal During the Reporting Period

LNAPL Recovery (gallons)				
Sorbent Tubes	Bailing	Bioventing	NSZD ^a	Total
15	18	72	12,610	12,715

^a Rate was measured in 2014 and assumed constant. The value shown is the rate measured in 2014 pro-rated for the 6-month reporting period, not including the area affected by the bioventing blower.

As previously discussed, the bioventing system is effectively aerating the subsurface to promote biodegradation of petroleum. Each 3-year remedy evaluation report will include an evaluation of LNAPL transmissivity reductions in onsite remediation wells.

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Gauging data and analytical results from the monitoring event indicate that the extent of LNAPL and dissolved phase constituents is stable.

8. Contingency Actions

No contingency actions were triggered during the reporting period.

9. Conclusions and Recommendations

Groundwater data and bioventing system operational data demonstrate the following key points:

- The LNAPL is not generating a plume of dissolved-phase compounds in the perched groundwater zone that migrates outside of the LNAPL body or into the regional aquifer.
- The only compound detected at concentrations exceeding an AWQS was benzene in three wells.
- The bioventing system does not need to operate continuously to aerate the subsurface.

Ongoing activities related to the remedy implementation include:

- Continue quarterly LNAPL monitoring and recovery through manual bailing and sorbent tubes as described in the PRAP.
- Continue semiannual groundwater monitoring of perimeter wells.
- Monitor oxygen uptake in bioventing wells and periodically operate the bioventing blower to maintain oxygen levels above 5% in the subsurface.

Thank you,

Ramzi Ramzi
Project Manager

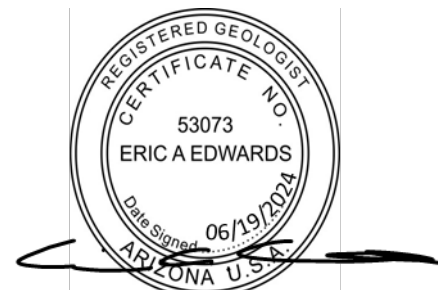
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Enclosure(s):

Tables: 1. Well Construction Summary
2. Groundwater Monitoring Schedule
3. Groundwater and LNAPL Elevation Data, First Quarter 2024
4. Groundwater Analytical Results, First Quarter 2024
5. Natural Attenuation Parameters, First Quarter 2024
6. Bioventing Operational Data During the Reporting Period
7. Bioventing Mass Removal During the Reporting Period

Figures: 1. Site Location Map
2. Estimated Groundwater Gradient Map, First Quarter 2024
3. Site Map with Monitoring Well Locations, LNAPL Thickness, and Benzene Concentrations, First Quarter 2024

Attachment: Laboratory Analytical Reports



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Copies to: Rebecca Rewey, UPRR
 Rick Edwards, Jacobs

Tables

TABLE 1. Well Construction Summary

22nd Street Site, Tucson, Arizona

Well Number	ADWR Registration Number	Measurement Point Elevation (feet amsl)	Well Casing Diameter (inches)	Top of Screen (feet bgs)	Bottom of Screen (feet bgs)
MW-22-1	55-571740	2461.03	4	111.5	131.5
MW-22-2	55-571716	2452.36	4	107.5	127.5
MW-22-3	55-571739	2464.22	4	97.5	117.5
MW-22-4	55-571715	2457.85	4	109.5	129.5
MW-22-5	55-571718	2467.33	4	116.0	141.0
MW-22-6	55-571738	2464.02	4	105.0	135.0
MW-22-7	55-571714	2449.50	4	97.0	117.0
MW-22-8	55-572872	2459.54	4	98.0	113.0
MW-22-9	55-574978	2457.67	4	110.5	130.5
MW-22-10	55-576423	2457.53	4	101.5	126.5
MW-22-11	55-578713	2454.29	4	106.5	121.5
MW-22-13	55-578715	2448.33	4	101.5	121.5
MW-22-14	55-581741	2462.45	5	226.5	266.5
EW-22-15	55-587534	2457.31	4	104.0	124.0
EW-22-16	55-599670	2460.27	4	111.0	130.8
EW-22-17	55-599671	2454.21	4	108.5	129.0
EW-22-18	55-599672	2459.25	4	108.5	129.0
EW-22-19	55-599673	2456.42	4	NA	NA
EW-22-20	55-599674	2458.71	4	108.5	128.5
EW-22-21	55-599669	2457.37	4	108.5	128.5
EW-22-22	55-599666	2455.36	4	NA	NA
EW-22-23	55-599675	2458.02	4	NA	NA
IW-22-24 ^a	55-587535	2457.71	4	25.0 95.0	85.0 125.0
IW-22-25 ^a	55-599668	2457.33	4	24.0 109.0	99.0 129.0
IW-22-26 ^a	55-599667	2457.07	4	23.5 108.5	98.5 129.0
MW-22-27	55-902344	2468.86	4	112.5	132.5
MW-22-28	55-902347	2466.33	4	107.0	127.0
MW-22-29	55-902348	2462.12	4	104.0	124.5
MW-22-30	55-904280	2457.94	4	107.0	127.0
MW-22-31	55-902349	2453.55	4	113.0	133.0
MW-22-32	55-902350	2457.84	4	112.0	137.0
MW-22-33	55-902351	2464.39	4	105.0	135.0
MW-22-34	55-902352	2451.83	4	106.0	126.0
MW-22-35	55-902353	2450.77	4	104.0	124.0
MW-22-36	55-902354	2444.97	4	102.0	127.0
MW-22-37	55-902355	2440.51	4	108.0	128.0
MW-22-38	55-902356	2446.25	4	105.0	130.0
MW-22-39	55-902357	2452.51	4	103.0	118.0
MW-22-40	55-902359	2453.51	4	112.0	137.0
MW-22-41	55-902360	2436.35	4	100.0	125.0

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Well Number	ADWR Registration Number	Measurement Point Elevation (feet amsl)	Well Casing Diameter (inches)	Top of Screen (feet bgs)	Bottom of Screen (feet bgs)
MW-22-42	55-902364	2442.23	4	104.0	125.0
MW-22-43	55-904281	2457.12	4	122.0	142.0
MW-22-44	55-911736	2435.11	2	100.0	120.0
MW-22-45	55-929021	2438.43	4	103.0	123.0
SP-MW-4	NA	2460.52	NA	NA	NA

^a Two screen intervals within the same well casing.

ADWR = Arizona Department of Water Resources

amsl = above mean sea level

bgs = below ground surface

NA = not available

TABLE 2. Groundwater Monitoring Schedule
 22nd Street Site, Tucson, Arizona

Well Name	ADWR Well Registration Number	Screen Interval (feet bgs)	Sample Collection Method and Depth ^a	Geologic Unit	Groundwater Monitoring Plan (Sampling and Monitoring Schedule)							
					Water Quality Sampling and Analysis					Water Level Measurement		
					Semiannual (Q1)			Semiannual (Q3)		Semiannual (Q1)	Semiannual (Q3)	
					VOCs	PAHs	MNA	VOCs	PAHs			
MW-22-1	55-571740	111.5 - 131.5	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-2	55-571716	107.5 - 127.5	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-3	55-571739	97.5 - 117.5	Bailing (water table)	Perched Zone	--	--	X	--	--	X	X	
MW-22-4	55-571715	109.5 - 129.5	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-5	55-571718	116 - 141	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-6	55-571738	105 - 135	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-7	55-571714	97 - 117	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-8	55-572872	98 - 113	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-9	55-574978	110.5 - 130.5	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-10	55-576423	101.5 - 126.5	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-11	55-578713	106.5 - 121.5	Bailing (water table)	Perched Zone	X	X	X	X	--	X	X	
MW-22-12 ^b	55-578714	102 - 122	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-13	55-578715	101.5 - 121.5	NS	Perched Zone	--	--	--	--	--	X	X	
MW-22-14	55-581741	226.5 - 266.5	Hydrasleeve (at 244 feet bgs)	Regional Aquifer	X	X	--	X	X	X	X	
EW-22-15	55-587534	104 - 124	NS	Perched Zone	--	--	--	--	--	X	X	
EW-22-16	55-599670	111 - 131	NS	Perched Zone	--	--	--	--	--	X	X	
EW-22-17	55-599671	108.5 - 129	NS	Perched Zone	--	--	--	--	--	X	X	
EW-22-18	55-599672	108.5 - 129	NS	Perched Zone	--	--	--	--	--	X	X	
EW-22-19	55-599673	--	Bailing (water table)	Perched Zone	X	X	--	X	--	X	X	
EW-22-20	55-599674	108.5 - 128.5	NS	Perched Zone	--	--	--	--	--	X	X	
EW-22-21	55-599669	108.5 - 128.5	Bailing (water table)	Perched Zone	X	X	--	X	--	X	X	
EW-22-22	55-599666	--	NS	Perched Zone	--	--	--	--	--	X	X	
EW-22-23	55-599675	--	NS	Perched Zone	--	--	--	--	--	X	X	
IW-22-24 ^c	55-587535	25 - 85 95 - 125	NS	Perched Zone	--	--	--	--	--	X	X	
IW-22-25 ^c	55-599668	24 - 99 109 - 129	NS	Perched Zone	--	--	--	--	--	X	X	

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Well Name	ADWR Well Registration Number	Screen Interval (feet bgs)	Sample Collection Method and Depth ^a	Geologic Unit	Groundwater Monitoring Plan (Sampling and Monitoring Schedule)						
					Water Quality Sampling and Analysis					Water Level Measurement	
					Semiannual (Q1)			Semiannual (Q3)		Semiannual (Q1)	Semiannual (Q3)
					VOCs	PAHs	MNA	VOCs	PAHs		
IW-22-26 ^c	55-599667	23.5 - 98.5 108.5 - 129	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-27	55-902344	112.5 - 132.5	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-28	55-902347	107 - 127	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-29	55-902348	104 - 124.5	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-30	55-904280	107 - 127	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-31	55-902349	113 - 133	Bailing (water table)	Perched Zone	X	X	X	X	--	X	X
MW-22-32	55-902350	112 - 137	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-33	55-902351	105 - 135	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-34	55-902352	106 - 126	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-35	55-902353	104 - 124	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-36	55-902354	102 - 127	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-37	55-902355	108 - 128	Bailing (water table)	Perched Zone	X	X	--	X	X	X	X
MW-22-38	55-902356	105 - 130	Hydrasleeve (at 123 feet bgs)	Perched Zone	X	X	X	X	X	X	X
MW-22-39	55-902357	103 - 118	NS	Perched Zone	--	--	--	--	--	X	X
MW-22-40	55-902359	112 - 137	Hydrasleeve (at 130 feet bgs)	Perched Zone	X	X	--	X	X	X	X
MW-22-41	55-902360	100 - 125	Hydrasleeve (at 116 feet bgs)	Perched Zone	X	X	--	X	X	X	X
MW-22-42	55-902364	104 - 125	Bailing (water table)	Perched Zone	X	X	--	X	--	X	X
MW-22-43	55-904281	122 - 142	Bailing (water table)	Perched Zone	--	--	X	--	--	X	X
MW-22-44	55-911736	100 - 120	Hydrasleeve (at 113 feet bgs)	Perched Zone	X	X	X	X	X	X	X
MW-22-45	55-929021	103 - 123	Hydrasleeve (at 116.5 ft bgs)	Perched Zone	X	X	--	X	X	X	X
SP-MW-4	--	--	NS	Perched Zone	--	--	--	--	--	X	X

^a Depths of samples collected via bailing are just below the water table and vary slightly from event to event.

^b Monitoring well MW-22-12 was abandoned on August 17, 2023.

^c Two screen intervals within the same well casing.

-- = not available or not applicable

ADWR = Arizona Department of Water Resources

TABLE 2. Groundwater Monitoring Schedule

22nd Street Site, Tucson, Arizona

Well Name	ADWR Well Registration Number	Screen Interval (feet bgs)	Sample Collection Method and Depth ^a	Geologic Unit	Groundwater Monitoring Plan (Sampling and Monitoring Schedule)						
					Water Quality Sampling and Analysis				Water Level Measurement		
					Semiannual (Q1)			Semiannual (Q3)		Semiannual (Q1)	Semiannual (Q3)
					VOCs	PAHs	MNA	VOCs	PAHs		

bgs = below ground surface

EPA = U.S. Environmental Protection Agency

MNA = monitored natural attenuation

NS = not sampled

PAH = polycyclic aromatic hydrocarbon by EPA Method 8270C SIM

Q1 = first quarter (January - March)

Q3 = third quarter (July - September)

VOC = volatile organic compound by EPA Method 8260D

TABLE 3. Groundwater and LNAPL Elevation Data, First Quarter 2024
22nd Street Site, Tucson, Arizona

Location	Date Measured	Measuring Point Elevation (feet amsl)	Depth to LNAPL (feet)	LNAPL Elevation (feet amsl)	Depth to Water (feet)	Measured Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation ^a (feet amsl)	Product Thickness (feet)
MW-22-1	2/19/2024	2461.03	--	--	115.72	2345.31	--	--
MW-22-2	2/21/2024	2452.36	--	--	114.45	2337.91	--	--
MW-22-3	2/21/2024	2464.22	--	--	113.94	2350.28	--	--
MW-22-4	2/19/2024	2457.85	--	--	123.79	2334.06	--	--
MW-22-5	2/19/2024	2467.33	--	--	126.10	2341.23	--	--
MW-22-6	2/19/2024	2464.02	--	--	DRY	--	--	--
MW-22-7	2/19/2024	2449.50	--	--	109.13	2340.37	--	--
MW-22-8	2/21/2024	2459.54	--	--	113.30	2346.24	--	--
MW-22-9	2/19/2024	2457.67	117.57	2340.10	117.76	2339.91	2340.07	0.19
MW-22-10	2/20/2024	2457.53	--	--	113.97	2343.56	--	--
MW-22-11	2/19/2024	2454.29	120.63	2333.66	124.77	2329.52	2333.04	4.14
MW-22-13	2/19/2024	2448.33	--	--	113.20	2335.13	--	--
MW-22-14	2/19/2024	2462.45	--	--	210.71	2251.74	--	--
EW-22-15	2/21/2024	2457.31	--	--	108.17	2349.14	--	--
EW-22-16	2/21/2024	2460.27	--	--	115.03	2345.24	--	--
EW-22-17	2/21/2024	2454.21	--	--	110.28	2343.93	--	--
EW-22-18	2/21/2024	2459.25	--	--	113.99	2345.26	--	--
EW-22-19	2/21/2024	2456.42	114.04	2342.38	116.99	2339.43	2341.94	2.95
EW-22-20	2/21/2024	2458.71	--	--	113.72	2344.99	--	--
EW-22-21	2/21/2024	2457.37	113.59	2343.78	113.91	2343.46	2343.73	0.32
EW-22-22	2/21/2024	2455.36	110.12	2345.24	110.43	2344.93	2345.19	0.31
EW-22-23	2/21/2024	2458.02	--	--	108.28	2349.74	--	--
IW-22-24	2/21/2024	2457.71	--	--	108.79	2348.92	--	--
IW-22-25	2/22/2024	2457.33	112.69	2344.64	113.13	2344.20	2344.57	0.44
IW-22-26	INACCESSIBLE	2457.07	--	--	--	--	--	--
MW-22-27	2/19/2024	2468.86	--	--	121.62	2347.24	--	--
MW-22-28	2/21/2024	2466.33	--	--	117.13	2349.20	--	--
MW-22-29	2/19/2024	2462.12	--	--	DRY	--	--	--
MW-22-30	2/21/2024	2457.94	--	--	110.89	2347.05	--	--

TABLE 3. Groundwater and LNAPL Elevation Data, First Quarter 2024
22nd Street Site, Tucson, Arizona

Location	Date Measured	Measuring Point Elevation (feet amsl)	Depth to LNAPL (feet)	LNAPL Elevation (feet amsl)	Depth to Water (feet)	Measured Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation ^a (feet amsl)	Product Thickness (feet)
MW-22-31	2/19/2024	2453.55	117.25	2336.30	119.37	2334.18	2335.98	2.12
MW-22-32	2/19/2024	2457.84	--	--	122.02	2335.82	--	--
MW-22-33	2/19/2024	2464.39	--	--	121.39	2343.00	--	--
MW-22-34	2/19/2024	2451.83	--	--	116.34	2335.49	--	--
MW-22-35	2/19/2024	2450.77	115.26	2335.51	115.39	2335.38	2335.49	0.13
MW-22-36	2/22/2024	2444.97	112.03	2332.94	113.87	2331.10	2332.66	1.84
MW-22-37	2/19/2024	2440.51	--	--	108.21	2332.30	--	--
MW-22-38	2/20/2024	2446.25	--	--	114.53	2331.72	--	--
MW-22-39	2/19/2024	2452.51	--	--	DRY	--	--	--
MW-22-40	2/20/2024	2453.51	--	--	121.53	2331.98	--	--
MW-22-41	2/22/2024	2436.35	--	--	104.78	2331.57	--	--
MW-22-42	2/19/2024	2442.23	109.68	2332.55	111.39	2330.84	2332.29	1.71
MW-22-43	2/19/2024	2457.12	--	--	119.05	2338.07	--	--
MW-22-44	2/20/2024	2435.11	--	--	104.34	2330.77	--	--
MW-22-45	2/20/2024	2438.43	--	--	105.63	2332.80	--	--
SP-MW-4	2/21/2024	2460.52	--	--	111.23	2349.29	--	--

^a Corrected water elevations for wells with measurable LNAPL calculated by multiplying the LNAPL thickness by the density of LNAPL (0.85) and adding to the difference between the measuring point elevation and the depth to water

-- = not available, not detected, or not calculated

amsl = above mean sea level

LNAPL = light nonaqueous phase liquid

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	EW-22-19	EW-22-21	MW-22-3	MW-22-11	MW-22-14
Sample ID:		WG-2510-EW-22-19-022224	WG-2510-EW-22-21-022124	WG-2510-MW-22-3-022124	WG-2510-MW-22-11-022024	WG-2510-MW-22-14-022024
Sample Date:		02/22/2024	02/21/2024	02/21/2024	02/20/2024	02/20/2024
Sample Type:		Regular	Regular	Regular	Regular	Regular
Sample Collection Method/Depth:		Disposable Bailer	Disposable Bailer	Disposable Bailer	Disposable Bailer	HydraSleeve @ 244 ft
Compound						
PAHs (µg/L)						
1-Methylnaphthalene	NE	637	930	--	1690	<0.038 J
2-Methylnaphthalene	NE	979	1800	--	2660	<0.038 J
Acenaphthene	NE	26.9 J+	55.6	--	73.0	<0.038
Acenaphthylene	NE	10.0 J+	16.6	--	24.6	<0.038
Anthracene	NE	14.0 J+	34.6	--	30.9	<0.038
Benzo(a)anthracene	NE	0.42 J+	0.81	--	<3.8	<0.038
Benzo(a)pyrene	0.2	<0.35	<0.38	--	<3.8	<0.038
Benzo(b)fluoranthene	NE	0.51 J+	<0.38	--	<3.8	<0.038
Benzo(e)pyrene	NE	<0.35	<0.38	--	<3.8	<0.038
Benzo(g,h,i)perylene	NE	<0.35	<0.38	--	<3.8	<0.038
Benzo(k)fluoranthene	NE	<0.35	<0.38	--	<3.8	<0.038
Chrysene	NE	0.82 J+	1.2	--	<3.8	<0.038
Dibenz(a,h)anthracene	NE	<0.35	<0.38	--	<3.8	<0.038
Fluoranthene	NE	2.7 J+	5.5	--	6.6	<0.038
Fluorene	NE	63.1 J+	122	--	144	<0.038
Indeno(1,2,3-cd)pyrene	NE	<0.35	<0.38	--	<3.8	<0.038
Naphthalene	NE	266	34.3	--	253	<0.038 J
Phenanthrene	NE	153	308	--	335	<0.038 J
Pyrene	NE	10.2	23.7	--	31.7	<0.038
MNA Parameters (µg/L)						
Methane	NE	--	--	<10.0	9450	--
Alkalinity, Total (as CaCO3)	NE	--	--	267000	648000	--
Nitrate (as N)	10000	--	--	18000	<100	--
Sulfate	NE	--	--	657000	96300	--
Ferrous Iron	NE	--	--	<50.0 J	<1250 J	--
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	NE	<5.0	<1.0	--	<5.0	<1.0
1,1,1-Trichloroethane	200	<5.0	<1.0	--	<5.0	<1.0
1,1,2,2-Tetrachloroethane	NE	<5.0	<1.0	--	<5.0	<1.0
1,1,2-Trichloroethane	5	<5.0	<1.0	--	<5.0	<1.0
1,1-Dichloroethane	NE	<5.0	<1.0	--	<5.0	<1.0
1,1-Dichloroethene	7	<5.0	<1.0	--	<5.0	<1.0
1,1-Dichloropropene	NE	<5.0	<1.0	--	<5.0	<1.0
1,2,3-Trichlorobenzene	NE	<5.0	<1.0	--	<5.0	<1.0
1,2,3-Trichloropropane	NE	<12.5	<2.5	--	<12.5	<2.5
1,2,4-Trichlorobenzene	70	<5.0	<1.0	--	<5.0	<1.0
1,2,4-Trimethylbenzene	NE	40.2	<1.0	--	<5.0	<1.0
1,2-Dibromo-3-chloropropane (DBCP)	NE	<12.5	<2.5	--	<12.5	<2.5
1,2-Dibromoethane (Ethylene dibromide)	NE	<5.0	<1.0	--	<5.0	<1.0

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	EW-22-19	EW-22-21	MW-22-3	MW-22-11	MW-22-14
Sample ID:		WG-2510-EW-22-19-022224	WG-2510-EW-22-21-022124	WG-2510-MW-22-3-022124	WG-2510-MW-22-11-022024	WG-2510-MW-22-14-022024
Sample Date:		02/22/2024	02/21/2024	02/21/2024	02/20/2024	02/20/2024
Sample Type:		Regular	Regular	Regular	Regular	Regular
Sample Collection Method/Depth:		Disposable Bailer	Disposable Bailer	Disposable Bailer	Disposable Bailer	HydraSleeve @ 244 ft
Compound						
1,2-Dichlorobenzene	600	<5.0	<1.0	--	<5.0	<1.0
1,2-Dichloroethane	5	<5.0	<1.0	--	<5.0	<1.0
1,2-Dichloropropane	5	<5.0	<1.0	--	<5.0	<1.0
1,3,5-Trimethylbenzene	NE	<5.0	<1.0	--	<5.0	<1.0
1,3-Dichlorobenzene	NE	<5.0	<1.0	--	<5.0	<1.0
1,3-Dichloropropane	NE	<5.0	<1.0	--	<5.0	<1.0
1,4-Dichlorobenzene	75	<5.0	<1.0	--	<5.0	<1.0
2,2-Dichloropropane	NE	<5.0	<1.0	--	<5.0	<1.0
2-Butanone (Methyl ethyl ketone) (MEK)	NE	<50.0	<10.0	--	<50.0	<10.0
2-Chlorotoluene	NE	<5.0	<1.0	--	<5.0	<1.0
2-Phenylbutane (sec-Butylbenzene)	NE	8.9	3.4	--	5.2	<1.0
4-Chlorotoluene	NE	<5.0	<1.0	--	<5.0	<1.0
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	NE	<50.0	<10.0	--	<50.0	<10.0
Acetone	NE	<50.0	<10.0	--	<50.0	<10.0
Allyl chloride	NE	<12.5	<2.5	--	<12.5	<2.5
Benzene	5	89.8	<1.0	--	39.6	<1.0
Bromobenzene	NE	<5.0	<1.0	--	<5.0	<1.0
Bromodichloromethane	100	<5.0	<1.0	--	<5.0	<1.0
Bromoform	NE	<5.0	<1.0	--	<5.0	<1.0
Bromomethane (Methyl bromide)	NE	<12.5	<2.5	--	<12.5	<2.5
Carbon disulfide	NE	<5.0	<1.0	--	<5.0	<1.0
Carbon tetrachloride	5	<5.0	<1.0	--	<5.0	<1.0
Chlorobenzene	NE	<5.0	<1.0	--	<5.0	<1.0
Chlorobromomethane	NE	<5.0	<1.0	--	<5.0	<1.0
Chloroethane	NE	<5.0	<1.0	--	<5.0	<1.0
Chloroform (Trichloromethane)	100	<5.0	<1.0	--	<5.0	<1.0
Chloromethane (Methyl chloride)	NE	<5.0	<1.0	--	<5.0	<1.0
cis-1,2-Dichloroethene	70	<5.0	<1.0	--	<5.0	<1.0
cis-1,3-Dichloropropene	NE	<5.0	<1.0	--	<5.0	<1.0
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	NE	<10.0	<2.0	--	<10.0	<2.0
Cymene (p-Isopropyltoluene)	NE	5.5	<1.0	--	<5.0	<1.0
Dibromochloromethane	100	<5.0	<1.0	--	<5.0	<1.0
Dibromomethane	NE	<5.0	<1.0	--	<5.0	<1.0
Dichlorodifluoromethane (CFC-12)	NE	<5.0	<1.0	--	<5.0	<1.0
Dichlorofluoromethane	NE	<5.0	<1.0	--	<5.0	<1.0
Ethyl ether	NE	<12.5	<2.5	--	<12.5	<2.5
Ethylbenzene	700	53.3	8.2	--	26.5	<1.0
Hexachlorobutadiene	NE	<5.0	<1.0	--	<5.0	<1.0
Isopropyl benzene	NE	17.6	6.2	--	10.2	<1.0
m&p-Xylenes	10000	11.1	<2.0	--	<10.0	<2.0

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	EW-22-19	EW-22-21	MW-22-3	MW-22-11	MW-22-14
Sample ID:		WG-2510-EW-22-19-022224	WG-2510-EW-22-21-022124	WG-2510-MW-22-3-022124	WG-2510-MW-22-11-022024	WG-2510-MW-22-14-022024
Sample Date:		02/22/2024	02/21/2024	02/21/2024	02/20/2024	02/20/2024
Sample Type:		Regular	Regular	Regular	Regular	Regular
Sample Collection Method/Depth:		Disposable Bailer	Disposable Bailer	Disposable Bailer	Disposable Bailer	HydraSleeve @ 244 ft
Compound						
Methyl tert butyl ether (MTBE)	NE	54.2	1.3	--	<5.0	<1.0
Methylene chloride	NE	<5.0	<1.0	--	<5.0	<1.0
Naphthalene	NE	233	23.4	--	67.1	<1.0
N-Butylbenzene	NE	10	3.0	--	<5.0	<1.0
N-Propylbenzene	NE	25.2	8.7	--	13.6	<1.0
o-Xylene	10000	<5.0	<1.0	--	<5.0	<1.0
Styrene	100	<5.0	<1.0	--	<5.0	<1.0
tert-Butylbenzene	NE	<5.0	<1.0	--	<5.0	<1.0
Tetrachloroethene	5	<5.0	<1.0	--	<5.0	<1.0
Tetrahydrofuran	NE	<50.0	<10.0	--	<50.0	<10.0
Toluene	1000	<5.0	<1.0	--	<5.0	<1.0
trans-1,2-Dichloroethene	100	<5.0	<1.0	--	<5.0	<1.0
trans-1,3-Dichloropropene	NE	<5.0	<1.0	--	<5.0	<1.0
Trichloroethene	5	<5.0	<1.0	--	<5.0	<1.0
Trichlorofluoromethane (CFC-11)	NE	<5.0	<1.0	--	<5.0	<1.0
Trifluorotrchloroethane (CFC-113)	NE	<5.0	<1.0	--	<5.0	<1.0
Vinyl chloride	2	<5.0	<1.0	--	<5.0	<1.0
Xylenes (total)	10000	<15.0	<3.0	--	<15.0	<3.0

Bold results exceed the Arizona Aquifer Water Quality Standard.

CaCO3 = calcium carbonate

EPA = U.S. Environmental Protection Agency

ft = foot (feet)

J = estimated concentration

J+ = estimated concentration; implied high bias

J- = estimated concentration; implied low bias

<() J = not detected; associated concentration is estimated

< = compound not detected, value given is the reporting limit

µg/L = microgram(s) per liter

NE = not established

PAH = polycyclic aromatic hydrocarbon using EPA Method 8270D SIM

VOC = volatile organic compound using EPA Method 8260D

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-14	MW-22-31	MW-22-31	MW-22-37	MW-22-38
Sample ID:		WG-2510-FD-01-022024	WG-2510-MW-22-31-022024	WG-2510-FD-02-022024	WG-2510-MW-22-37-022024	WG-2510-MW-22-38-022024
Sample Date:		02/20/2024	02/20/2024	02/20/2024	02/20/2024	02/20/2024
Sample Type:		Field Duplicate	Regular	Field Duplicate	Regular	Regular
Sample Collection Method/Depth:		HydraSleeve @ 244 ft	Disposable Bailer	Disposable Bailer	Disposable Bailer	HydraSleeve @ 133 ft
Compound						
PAHs (µg/L)						
1-Methylnaphthalene	NE	0.19 J	7460 J	429 J	314	0.66
2-Methylnaphthalene	NE	0.29 J	12100 J	605 J	369	0.84
Acenaphthene	NE	<0.038	282 J	22.7 J	28.0	0.067
Acenaphthylene	NE	<0.038	137 J	6.0 J	5.8	<0.038
Anthracene	NE	<0.038	241 J	8.9 J	6.5	0.053
Benzo(a)anthracene	NE	<0.038	14.5 J	<3.8 J	<1.9	<0.038
Benzo(a)pyrene	0.2	<0.038	<3.8	<3.8	<1.9	<0.038
Benzo(b)fluoranthene	NE	<0.038	<3.8	<3.8	<1.9	<0.038
Benzo(e)pyrene	NE	<0.038	<3.8	<3.8	<1.9	<0.038
Benzo(g,h,i)perylene	NE	<0.038	<3.8	<3.8	<1.9	0.044
Benzo(k)fluoranthene	NE	<0.038	<3.8	<3.8	<1.9	<0.038
Chrysene	NE	<0.038	21.7 J	<3.8 J	<1.9	<0.038
Dibenz(a,h)anthracene	NE	<0.038	<3.8	<3.8	<1.9	<0.038
Fluoranthene	NE	<0.038	45.2 J	<3.8 J	<1.9	0.040
Fluorene	NE	<0.038	826 J	37.6 J	45.9	0.089
Indeno(1,2,3-cd)pyrene	NE	<0.038	<3.8	<3.8	<1.9	<0.038
Naphthalene	NE	0.087 J	2240 J	201 J	41.5	1.6
Phenanthrene	NE	0.077 J	2650 J	72.2 J	77.6	0.076
Pyrene	NE	<0.038	239 J	5.2 J	6.7	0.094
MNA Parameters (µg/L)						
Methane	NE	--	9220	9580	--	3630
Alkalinity, Total (as CaCO3)	NE	--	531000	532000	--	78100
Nitrate (as N)	10000	--	<100	<100	--	<100
Sulfate	NE	--	<1200	<1200	--	<1200
Ferrous Iron	NE	--	1780 J-	1690 J-	--	6290 J-
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<1.0	<5.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	<1.0	<5.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	<1.0	<5.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NE	<2.5	<12.5	<2.5	<2.5	<2.5
1,2,4-Trichlorobenzene	70	<1.0	<5.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NE	<1.0	<5.0	3.7	1.3	<1.0
1,2-Dibromo-3-chloropropane (DBCP)	NE	<2.5	<12.5	<2.5	<2.5	<2.5
1,2-Dibromoethane (Ethylene dibromide)	NE	<1.0	<5.0	<1.0	<1.0	<1.0

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-14	MW-22-31	MW-22-31	MW-22-37	MW-22-38
Sample ID:		WG-2510-FD-01-022024	WG-2510-MW-22-31-022024	WG-2510-FD-02-022024	WG-2510-MW-22-37-022024	WG-2510-MW-22-38-022024
Sample Date:		02/20/2024	02/20/2024	02/20/2024	02/20/2024	02/20/2024
Sample Type:		Field Duplicate	Regular	Field Duplicate	Regular	Regular
Sample Collection Method/Depth:		HydraSleeve @ 244 ft	Disposable Bailer	Disposable Bailer	Disposable Bailer	HydraSleeve @ 133 ft
Compound						
1,2-Dichlorobenzene	600	<1.0	<5.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	5	<1.0	<5.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<1.0	<5.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	75	<1.0	<5.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
2-Butanone (Methyl ethyl ketone) (MEK)	NE	<10.0	<50.0	<10.0	<10.0	<10.0
2-Chlorotoluene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
2-Phenylbutane (sec-Butylbenzene)	NE	<1.0	7.2 J	53.6 J	1.4	<1.0
4-Chlorotoluene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	NE	<10.0	<50.0	<10.0	<10.0	<10.0
Acetone	NE	<10.0	<50.0	<10.0	<10.0	<10.0
Allyl chloride	NE	<2.5	<12.5	<2.5	<2.5	<2.5
Benzene	5	<1.0	34.9	40.9	<1.0	1.5
Bromobenzene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Bromodichloromethane	100	<1.0	<5.0	<1.0	<1.0	<1.0
Bromoform	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	NE	<2.5	<12.5	<2.5	<2.5	<2.5
Carbon disulfide	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Carbon tetrachloride	5	<1.0	<5.0	<1.0	<1.0	<1.0
Chlorobenzene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Chlorobromomethane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Chloroethane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Chloroform (Trichloromethane)	100	<1.0	<5.0	<1.0	<1.0	<1.0
Chloromethane (Methyl chloride)	NE	<1.0	<5.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<1.0	10.9	10.9	<1.0	2.9
cis-1,3-Dichloropropene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	NE	<2.0	<10.0	<2.0	<2.0	<2.0
Cymene (p-Isopropyltoluene)	NE	<1.0	<5.0 J	20.4 J	<1.0	<1.0
Dibromochloromethane	100	<1.0	<5.0	<1.0	<1.0	<1.0
Dibromomethane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane (CFC-12)	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Ethyl ether	NE	<2.5	<12.5	<2.5	<2.5	<2.5
Ethylbenzene	700	<1.0	67.4 J	126 J	<1.0	2.7
Hexachlorobutadiene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Isopropyl benzene	NE	<1.0	17.1 J	49.9 J	2.4	<1.0
m&p-Xylenes	10000	<2.0	<10.0	2.1	<2.0	<2.0

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-14	MW-22-31	MW-22-31	MW-22-37	MW-22-38
Sample ID:		WG-2510-FD-01-022024	WG-2510-MW-22-31-022024	WG-2510-FD-02-022024	WG-2510-MW-22-37-022024	WG-2510-MW-22-38-022024
Sample Date:		02/20/2024	02/20/2024	02/20/2024	02/20/2024	02/20/2024
Sample Type:		Field Duplicate	Regular	Field Duplicate	Regular	Regular
Sample Collection Method/Depth:		HydraSleeve @ 244 ft	Disposable Bailer	Disposable Bailer	Disposable Bailer	HydraSleeve @ 133 ft
Compound						
Methyl tert butyl ether (MTBE)	NE	<1.0	23.8	26.0	3.6	<1.0
Methylene chloride	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Naphthalene	NE	<1.0	213	209	27.7	<1.0
N-Butylbenzene	NE	<1.0	6.8 J	61.3 J	1.3	<1.0
N-Propylbenzene	NE	<1.0	21.3 J	78.5 J	2.8	<1.0
o-Xylene	10000	<1.0	<5.0	<1.0	<1.0	<1.0
Styrene	100	<1.0	<5.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NE	<1.0	<5.0	1.4	<1.0	<1.0
Tetrachloroethene	5	<1.0	<5.0	<1.0	<1.0	<1.0
Tetrahydrofuran	NE	<10.0	<50.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<5.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<5.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<5.0	<1.0	<1.0	<1.0
Trichlorofluoromethane (CFC-11)	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Trifluorotrchloroethane (CFC-113)	NE	<1.0	<5.0	<1.0	<1.0	<1.0
Vinyl chloride	2	<1.0	<5.0	<1.0	<1.0	<1.0
Xylenes (total)	10000	<3.0	<15.0	<3.0	<3.0	<3.0

Bold results exceed the Arizona Aquifer Water Quality Standard.

CaCO3 = calcium carbonate

EPA = U.S. Environmental Protection Agency

ft = foot (feet)

J = estimated concentration

J+ = estimated concentration; implied high bias

J- = estimated concentration; implied low bias

<() J = not detected; associated concentration is estimated

< = compound not detected, value given is the reporting limit

µg/L = microgram(s) per liter

NE = not established

PAH = polycyclic aromatic hydrocarbon using EPA Method 8270D SIM

VOC = volatile organic compound using EPA Method 8260D

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-40	MW-22-41	MW-22-42	MW-22-43	MW-22-44
Sample ID:		WG-2510-MW-22-40-022024	WG-2510-MW-22-41-022224	WG-2510-MW-22-42-022024	WG-2510-MW-22-43-022224	WG-2510-MW-22-44-022024
Sample Date:		02/20/2024	02/22/2024	02/20/2024	02/22/2024	02/20/2024
Sample Type:		Regular	Regular	Regular	Regular	Regular
Sample Collection Method/Depth:		HydraSleeve @ 130 ft	HydraSleeve @ 116 ft	Disposable Bailer	Disposable Bailer	HydraSleeve @ 113 ft
Compound						
PAHs (µg/L)						
1-Methylnaphthalene	NE	0.16	<0.035	38300	--	0.42
2-Methylnaphthalene	NE	0.23	<0.035	62400	--	0.096
Acenaphthene	NE	<0.039	<0.035	94.8	--	8.2
Acenaphthylene	NE	<0.039	<0.035	28.5	--	1.3
Anthracene	NE	<0.039	<0.035	63.4	--	0.89
Benzo(a)anthracene	NE	<0.039	<0.035	2.3	--	<0.038
Benzo(a)pyrene	0.2	<0.039	<0.035	<0.38	--	<0.038
Benzo(b)fluoranthene	NE	<0.039	<0.035	<0.38	--	<0.038
Benzo(e)pyrene	NE	<0.039	<0.035	<0.38	--	<0.038
Benzo(g,h,i)perylene	NE	<0.039	<0.035	<0.38	--	<0.038
Benzo(k)fluoranthene	NE	<0.039	<0.035	<0.38	--	<0.038
Chrysene	NE	<0.039	<0.035	3.6	--	<0.038
Dibenz(a,h)anthracene	NE	<0.039	<0.035	<0.38	--	<0.038
Fluoranthene	NE	<0.039	<0.035	10.2	--	0.060
Fluorene	NE	<0.039	<0.035	267	--	4.9
Indeno(1,2,3-cd)pyrene	NE	<0.039	<0.035	<0.38	--	<0.038
Naphthalene	NE	0.089	0.044	405	--	0.73
Phenanthrene	NE	0.057	<0.035	820	--	<0.038
Pyrene	NE	<0.039	<0.035	46.8	--	0.21
MNA Parameters (µg/L)						
Methane	NE	--	--	--	27.6	2670
Alkalinity, Total (as CaCO3)	NE	--	--	--	113000	602000
Nitrate (as N)	10000	--	--	--	1300	<100
Sulfate	NE	--	--	--	223000	80200
Ferrous Iron	NE	--	--	--	<50.0 J	5030 J-
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	NE	<1.0	<1.0	<5.0	--	<1.0
1,1,1-Trichloroethane	200	<1.0	<1.0	<5.0	--	<1.0
1,1,2,2-Tetrachloroethane	NE	<1.0	<1.0	<5.0	--	<1.0
1,1,2-Trichloroethane	5	<1.0	<1.0	<5.0	--	<1.0
1,1-Dichloroethane	NE	<1.0	<1.0	<5.0	--	<1.0
1,1-Dichloroethene	7	<1.0	<1.0	<5.0	--	<1.0
1,1-Dichloropropene	NE	<1.0	<1.0	<5.0	--	<1.0
1,2,3-Trichlorobenzene	NE	<1.0	<1.0	<5.0	--	<1.0
1,2,3-Trichloropropane	NE	<2.5	<2.5	<12.5	--	<2.5
1,2,4-Trichlorobenzene	70	<1.0	<1.0	<5.0	--	<1.0
1,2,4-Trimethylbenzene	NE	<1.0	<1.0	18.0	--	<1.0
1,2-Dibromo-3-chloropropane (DBCP)	NE	<2.5	<2.5	<12.5	--	<2.5
1,2-Dibromoethane (Ethylene dibromide)	NE	<1.0	<1.0	<5.0	--	<1.0

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-40	MW-22-41	MW-22-42	MW-22-43	MW-22-44
Sample ID:		WG-2510-MW-22-40-022024	WG-2510-MW-22-41-022224	WG-2510-MW-22-42-022024	WG-2510-MW-22-43-022224	WG-2510-MW-22-44-022024
Sample Date:		02/20/2024	02/22/2024	02/20/2024	02/22/2024	02/20/2024
Sample Type:		Regular	Regular	Regular	Regular	Regular
Sample Collection Method/Depth:		HydraSleeve @ 130 ft	HydraSleeve @ 116 ft	Disposable Bailer	Disposable Bailer	HydraSleeve @ 113 ft
Compound						
1,2-Dichlorobenzene	600	<1.0	<1.0	<5.0	--	<1.0
1,2-Dichloroethane	5	<1.0	<1.0	<5.0	--	<1.0
1,2-Dichloropropane	5	<1.0	<1.0	<5.0	--	<1.0
1,3,5-Trimethylbenzene	NE	<1.0	<1.0	<5.0	--	<1.0
1,3-Dichlorobenzene	NE	<1.0	<1.0	<5.0	--	<1.0
1,3-Dichloropropane	NE	<1.0	<1.0	<5.0	--	<1.0
1,4-Dichlorobenzene	75	<1.0	<1.0	<5.0	--	<1.0
2,2-Dichloropropane	NE	<1.0	<1.0	<5.0	--	<1.0
2-Butanone (Methyl ethyl ketone) (MEK)	NE	<10.0	<10.0	<50.0	--	<10.0
2-Chlorotoluene	NE	<1.0	<1.0	<5.0	--	<1.0
2-Phenylbutane (sec-Butylbenzene)	NE	<1.0	<1.0	11.7	--	1.1
4-Chlorotoluene	NE	<1.0	<1.0	<5.0	--	<1.0
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	NE	<10.0	<10.0	<50.0	--	<10.0
Acetone	NE	<10.0	<10.0	<50.0	--	<10.0
Allyl chloride	NE	<2.5	<2.5	<12.5	--	<2.5
Benzene	5	<1.0	<1.0	<5.0	--	<1.0
Bromobenzene	NE	<1.0	<1.0	<5.0	--	<1.0
Bromodichloromethane	100	<1.0	<1.0	<5.0	--	<1.0
Bromoform	NE	<1.0	<1.0	<5.0	--	<1.0
Bromomethane (Methyl bromide)	NE	<2.5	<2.5	<12.5	--	<2.5
Carbon disulfide	NE	<1.0	<1.0	<5.0	--	<1.0
Carbon tetrachloride	5	<1.0	<1.0	<5.0	--	<1.0
Chlorobenzene	NE	<1.0	<1.0	<5.0	--	<1.0
Chlorobromomethane	NE	<1.0	<1.0	<5.0	--	<1.0
Chloroethane	NE	<1.0	<1.0	<5.0	--	<1.0
Chloroform (Trichloromethane)	100	<1.0	<1.0	<5.0	--	<1.0
Chloromethane (Methyl chloride)	NE	<1.0	<1.0	<5.0	--	<1.0
cis-1,2-Dichloroethene	70	<1.0	<1.0	<5.0	--	<1.0
cis-1,3-Dichloropropene	NE	<1.0	<1.0	<5.0	--	<1.0
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	NE	<2.0	<2.0	<10.0	--	<2.0
Cymene (p-Isopropyltoluene)	NE	<1.0	<1.0	5.6	--	<1.0
Dibromochloromethane	100	<1.0	<1.0	<5.0	--	<1.0
Dibromomethane	NE	<1.0	<1.0	<5.0	--	<1.0
Dichlorodifluoromethane (CFC-12)	NE	<1.0	<1.0	<5.0	--	<1.0
Dichlorofluoromethane	NE	<1.0	<1.0	<5.0	--	<1.0
Ethyl ether	NE	<2.5	<2.5	<12.5	--	<2.5
Ethylbenzene	700	<1.0	<1.0	16.7	--	<1.0
Hexachlorobutadiene	NE	<1.0	<1.0	<5.0	--	<1.0
Isopropyl benzene	NE	<1.0	<1.0	12.4	--	1.2
m&p-Xylenes	10000	<2.0	<2.0	<10.0	--	<2.0

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-40	MW-22-41	MW-22-42	MW-22-43	MW-22-44
Sample ID:		WG-2510-MW-22-40-022024	WG-2510-MW-22-41-022224	WG-2510-MW-22-42-022024	WG-2510-MW-22-43-022224	WG-2510-MW-22-44-022024
Sample Date:		02/20/2024	02/22/2024	02/20/2024	02/22/2024	02/20/2024
Sample Type:		Regular	Regular	Regular	Regular	Regular
Sample Collection Method/Depth:		HydraSleeve @ 130 ft	HydraSleeve @ 116 ft	Disposable Bailer	Disposable Bailer	HydraSleeve @ 113 ft
Compound						
Methyl tert butyl ether (MTBE)	NE	<1.0	<1.0	<5.0	--	12.8
Methylene chloride	NE	<1.0	<1.0	<5.0	--	<1.0
Naphthalene	NE	3.0	<1.0	211	--	<1.0
N-Butylbenzene	NE	<1.0	<1.0	12.6	--	<1.0
N-Propylbenzene	NE	<1.0	<1.0	18.9	--	<1.0
o-Xylene	10000	<1.0	<1.0	9.3	--	<1.0
Styrene	100	<1.0	<1.0	<5.0	--	<1.0
tert-Butylbenzene	NE	<1.0	<1.0	<5.0	--	<1.0
Tetrachloroethene	5	<1.0	<1.0	<5.0	--	<1.0
Tetrahydrofuran	NE	<10.0	<10.0	<50.0	--	<10.0
Toluene	1000	<1.0	<1.0	<5.0	--	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<5.0	--	<1.0
trans-1,3-Dichloropropene	NE	<1.0	<1.0	<5.0	--	<1.0
Trichloroethene	5	<1.0	<1.0	<5.0	--	<1.0
Trichlorofluoromethane (CFC-11)	NE	<1.0	<1.0	<5.0	--	<1.0
Trifluorotrchloroethane (CFC-113)	NE	<1.0	<1.0	<5.0	--	<1.0
Vinyl chloride	2	<1.0	<1.0	<5.0	--	<1.0
Xylenes (total)	10000	<3.0	<3.0	<15.0	--	<3.0

Bold results exceed the Arizona Aquifer Water Quality Standard.

CaCO3 = calcium carbonate

EPA = U.S. Environmental Protection Agency

ft = foot (feet)

J = estimated concentration

J+ = estimated concentration; implied high bias

J- = estimated concentration; implied low bias

<() J = not detected; associated concentration is estimated

< = compound not detected, value given is the reporting limit

µg/L = microgram(s) per liter

NE = not established

PAH = polycyclic aromatic hydrocarbon using EPA Method 8270D SIM

VOC = volatile organic compound using EPA Method 8260D

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-45	Trip Blank	Trip Blank	Trip Blank
Sample ID:		WG-2510-MW-22-45-022024	WG-2510-TB-01-022024	WG-2510-TB-02-022124	WG-2510-TB-03-022224
Sample Date:		02/20/2024	02/20/2024	02/21/2024	02/22/2024
Sample Type:		Regular	Trip Blank	Trip Blank	Trip Blank
Sample Collection Method/Depth:		HydraSleeve @ 116.5 ft	--	--	--
Compound					
PAHs (µg/L)					
1-Methylnaphthalene	NE	0.11	--	--	--
2-Methylnaphthalene	NE	0.15	--	--	--
Acenaphthene	NE	<0.039	--	--	--
Acenaphthylene	NE	<0.039	--	--	--
Anthracene	NE	<0.039	--	--	--
Benzo(a)anthracene	NE	<0.039	--	--	--
Benzo(a)pyrene	0.2	<0.039	--	--	--
Benzo(b)fluoranthene	NE	<0.039	--	--	--
Benzo(e)pyrene	NE	<0.039	--	--	--
Benzo(g,h,i)perylene	NE	<0.039	--	--	--
Benzo(k)fluoranthene	NE	<0.039	--	--	--
Chrysene	NE	<0.039	--	--	--
Dibenz(a,h)anthracene	NE	<0.039	--	--	--
Fluoranthene	NE	<0.039	--	--	--
Fluorene	NE	<0.039	--	--	--
Indeno(1,2,3-cd)pyrene	NE	<0.039	--	--	--
Naphthalene	NE	0.043	--	--	--
Phenanthrene	NE	0.044	--	--	--
Pyrene	NE	<0.039	--	--	--
MNA Parameters (µg/L)					
Methane	NE	--	--	--	--
Alkalinity, Total (as CaCO3)	NE	--	--	--	--
Nitrate (as N)	10000	--	--	--	--
Sulfate	NE	--	--	--	--
Ferrous Iron	NE	--	--	--	--
VOCs (µg/L)					
1,1,1,2-Tetrachloroethane	NE	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NE	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	5	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	NE	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	7	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NE	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NE	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NE	<2.5	<2.5	<2.5	<2.5
1,2,4-Trichlorobenzene	70	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NE	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane (DBCP)	NE	<2.5	<2.5	<2.5	<2.5
1,2-Dibromoethane (Ethylene dibromide)	NE	<1.0	<1.0	<1.0	<1.0

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-45	Trip Blank	Trip Blank	Trip Blank
Sample ID:		WG-2510-MW-22-45-022024	WG-2510-TB-01-022024	WG-2510-TB-02-022124	WG-2510-TB-03-022224
Sample Date:		02/20/2024	02/20/2024	02/21/2024	02/22/2024
Sample Type:		Regular	Trip Blank	Trip Blank	Trip Blank
Sample Collection Method/Depth:		HydraSleeve @ 116.5 ft	--	--	--
Compound					
1,2-Dichlorobenzene	600	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	5	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	5	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NE	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NE	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NE	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	75	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NE	<1.0	<1.0	<1.0	<1.0
2-Butanone (Methyl ethyl ketone) (MEK)	NE	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	NE	<1.0	<1.0	<1.0	<1.0
2-Phenylbutane (sec-Butylbenzene)	NE	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	NE	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	NE	<10.0	<10.0	<10.0	<10.0
Acetone	NE	<10.0	<10.0	<10.0	<10.0
Allyl chloride	NE	<2.5	<2.5	<2.5	<2.5
Benzene	5	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NE	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	100	<1.0	<1.0	<1.0	<1.0
Bromoform	NE	<1.0	<1.0	<1.0	<1.0
Bromomethane (Methyl bromide)	NE	<2.5	<2.5	<2.5	<2.5
Carbon disulfide	NE	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	NE	<1.0	<1.0	<1.0	<1.0
Chlorobromomethane	NE	<1.0	<1.0	<1.0	<1.0
Chloroethane	NE	<1.0	<1.0	<1.0	<1.0
Chloroform (Trichloromethane)	100	<1.0	<1.0	<1.0	<1.0
Chloromethane (Methyl chloride)	NE	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NE	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene/trans-1,3-Dichloropropene total	NE	<2.0	<2.0	<2.0	<2.0
Cymene (p-Isopropyltoluene)	NE	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	100	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NE	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane (CFC-12)	NE	<1.0	<1.0	<1.0	<1.0
Dichlorofluoromethane	NE	<1.0	<1.0	<1.0	<1.0
Ethyl ether	NE	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	700	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	NE	<1.0	<1.0	<1.0	<1.0
Isopropyl benzene	NE	<1.0	<1.0	<1.0	<1.0
m&p-Xylenes	10000	<2.0	<2.0	<2.0	<2.0

TABLE 4. Groundwater Analytical Results, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	Arizona Aquifer Water Quality Standard	MW-22-45	Trip Blank	Trip Blank	Trip Blank
Sample ID:		WG-2510-MW-22-45-022024	WG-2510-TB-01-022024	WG-2510-TB-02-022124	WG-2510-TB-03-022224
Sample Date:		02/20/2024	02/20/2024	02/21/2024	02/22/2024
Sample Type:		Regular	Trip Blank	Trip Blank	Trip Blank
Sample Collection Method/Depth:		HydraSleeve @ 116.5 ft	--	--	--
Compound					
Methyl tert butyl ether (MTBE)	NE	<1.0	<1.0	<1.0	<1.0
Methylene chloride	NE	<1.0	<1.0	<1.0	<1.0
Naphthalene	NE	<1.0	<1.0	<1.0	<1.0
N-Butylbenzene	NE	<1.0	<1.0	<1.0	<1.0
N-Propylbenzene	NE	<1.0	<1.0	<1.0	<1.0
o-Xylene	10000	<1.0	<1.0	<1.0	<1.0
Styrene	100	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NE	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	5	<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran	NE	<10.0	<10.0	<10.0	<10.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NE	<1.0	<1.0	<1.0	<1.0
Trichloroethene	5	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane (CFC-11)	NE	<1.0	<1.0	<1.0	<1.0
Trifluorotrchloroethane (CFC-113)	NE	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	2	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	10000	<3.0	<3.0	<3.0	<3.0

Bold results exceed the Arizona Aquifer Water Quality Standard.

CaCO3 = calcium carbonate

EPA = U.S. Environmental Protection Agency

ft = foot (feet)

J = estimated concentration

J+ = estimated concentration; implied high bias

J- = estimated concentration; implied low bias

<() J = not detected; associated concentration is estimated

< = compound not detected, value given is the reporting limit

µg/L = microgram(s) per liter

NE = not established

PAH = polycyclic aromatic hydrocarbon using EPA Method 8270D SIM

VOC = volatile organic compound using EPA Method 8260D

TABLE 5. Natural Attenuation Parameters, First Quarter 2024

22nd Street Site, Tucson, Arizona

Sample Location:	MW-22-3	MW-22-43	MW-22-11	MW-22-31	MW-22-38	MW-22-44
Relative Location:	Background	Background	In-plume	In-plume	Downgradient	Downgradient
Compound						
Methane	<10.0	27.6	9450	9580	3630	2670
Alkalinity, Total (as CaCO ₃)	267000	113000	648000	532000	78100	602000
Nitrate (as N)	18000	1300	<100	<100	<100	<100
Sulfate	657000	223000	96300	<1200	<1200	80200
Ferrous Iron	<50.0 J	<50.0 J	<1250 J	1780 J-	6290 J-	5030 J-

Results are reported in micrograms per liter (µg/L)

CaCO₃ = calcium carbonate

J- = estimated concentration; implied low bias

<() J = not detected; associated concentration is estimated

< = not detected; value given is the reporting limit

Table 6. Bioventing Operational Data During the Reporting Period

22nd Street Site, Tucson, Arizona

Date	Run Time (hours)	Elapsed Time (hours)	Ambient Pressure (in Hg)	Extraction dP (in. wcg)	Extraction Line Vacuum (psig)	Extraction Temperature (deg f)	Extraction Flow (SCFM)	Extraction O ₂ (%)	Extraction CO ₂ (%)	Extraction CH ₄ (%)	Dilution Valve (%)	Injection dP (in. wcg)	Injection Line Pressure (psig)	Injection Temperature (deg f)	Injection Flow (SCFM)	Injection O ₂ (%)	Injection CO ₂ (%)	Injection CH ₄ (%)
10/18/2023	3180.0	619.9	27.4	0.11	3.4	112.0	61	18.9	0.9	0.04	13.8	1.32	2.29	95	267	20.9	0.2	0.00
10/25/2023	3345.6	165.6	27.3	0.14	4.0	102.0	67	20.9	0.4	0.05	13.8	1.21	2.46	94	257	20.9	0.0	0.03
11/8/2023	3682.5	336.9	30.1	0.12	4.5	78.0	66	20.9	0.4	0.05	13.8	1.39	1.8	65	289	20.9	0.0	0.04
11/21/2023	4018.0	335.5	27.4	0.11	3.4	82.0	62	20.9	0.3	0.03	13.8	1.37	1.98	78	273	20.9	0.0	0.00
12/11/2023	4292.9	274.9	30.1	0.15	4.5	72.0	74	19.3	0.7	0.02	8.63	0.90	1.22	64	228	20.9	0.1	0.01
12/26/2023	4593.3	300.4	30.2	0.21	3.4	74.0	93	20.9	0.4	0.00	10.4	0.96	1.26	50	240	20.9	0.0	0.00
1/10/2024	4908.7	315.4	27.3	0.18	3.7	56.0	80	20.9	0.0	0.00	10.35	1.00	1.23	45	235	20.9	0.0	0.00
4/17/2024	6626.1	1717.4	27.3	0.12	2.8	86.0	67	20.9	0.3	0.00	13.8	1.25	1.98	80	260	20.9	0.1	0.00

CH₄ = methane
 CO₂ = carbon dioxide
 O₂ = oxygen
 % = percentage
 deg f = degrees Fahrenheit
 dP = differential pressure
 in Hg = inches of mercury
 in. wcg = inches of water column
 psig = pounds per square inch gauge pressure
 SCFM = standard cubic feet per minute

Table 7. Bioventing Mass Removal During the Reporting Period

22nd Street Site, Tucson, Arizona

Date	Run Time (hours)	Elapsed Time (hours)	Extraction Flow (SCFM)	Extraction O ₂ (%)	Injection O ₂ (%)	O ₂ Consumed (%)	Volume of O ₂ Consumed (SCFM)	Mass of O ₂ Consumed (lbs per minute)	Mass of O ₂ Consumed (lbs)	TPH Removed as Hexane (lbs)	Cumulative TPH Removed (lbs)
10/18/2023	3180.0	619.9	61	18.9	20.9	2.0	1.21	0.10	3742	1061	3419
10/25/2023	3345.6	165.6	67	20.9	20.9	0.0	0.00	0.00	0	0	3419
11/8/2023	3682.5	336.9	66	20.9	20.9	0.0	0.00	0.00	0	0	3419
11/21/2023	4018.0	335.5	62	20.9	20.9	0.0	0.00	0.00	0	0	3419
12/11/2023	4292.9	274.9	74	19.3	20.9	1.6	1.18	0.10	1623	460	3879
12/26/2023	4593.3	300.4	93	20.9	20.9	0.0	0.00	0.00	0	0	3879
1/10/2024	4908.7	315.4	80	20.9	20.9	0.0	0.00	0.00	0	0	3879
4/17/2024	6626.1	1717.4	67	20.9	20.9	0.0	0.00	0.00	0	0	3879

O₂ = oxygen

% = percentage

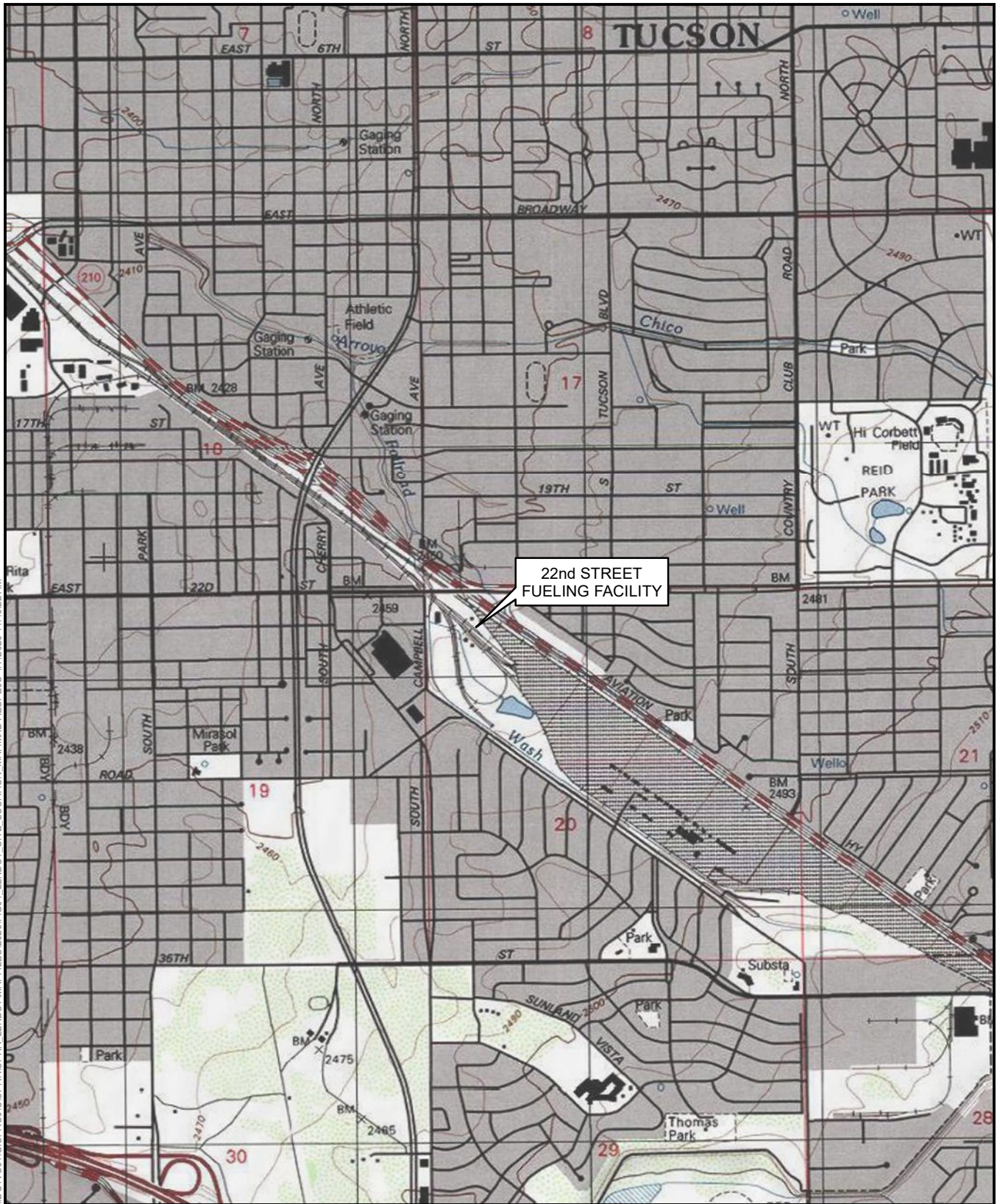
lbs = pounds

SCFM = standard cubic feet per minute

TPH = total petroleum hydrocarbons

Figures

\\D:\GIS\PROJ\UPRR\22ND\MAPFILES\2020\FIG01_22NDST_SITE_LOCATION_MAP\MXD\AESPEJO_4772020_11-49:22 AM



References:
 U.S.G.S. 7.5 Minute Series (Topographic
 Tucson Quadrangle, Arizona-Pima County)
 Dated: 1954; Photorevised 1992

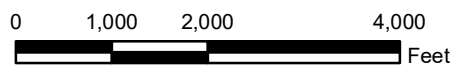
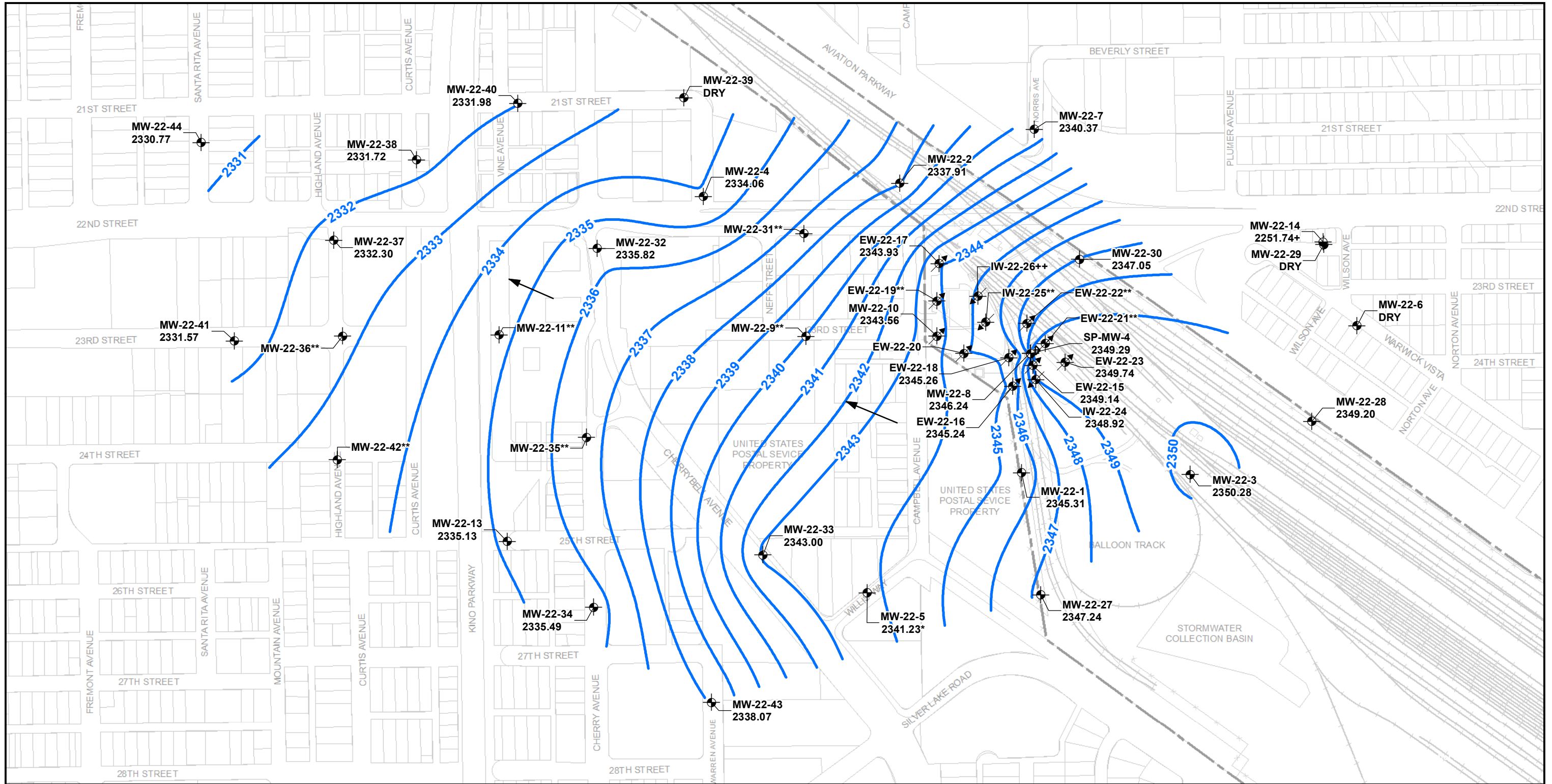


Figure 1. Site Location Map
 Union Pacific Railroad Company
 22nd Street Fueling Facility
 Tucson, Arizona



LEGEND

- Perched Groundwater Zone Monitoring Well
- Regional Aquifer Monitoring Well
- Extraction Well
- Injection Well
- 2339** Groundwater Elevation Contour (feet NAVD88); Estimated based on Gauging Data
- Approximate Groundwater Flow Direction
- Property Boundary

2333 Groundwater Elevation (feet NAVD88)

Notes:
 1. NAVD88 = North American Vertical Datum of 1988.
 2. + = Regional Well. Not used in contouring.
 3. * = WLE not used in contouring.
 4. ** = Well with LNAPL. Not Used in Contouring.
 5. ++ = Inaccessible.

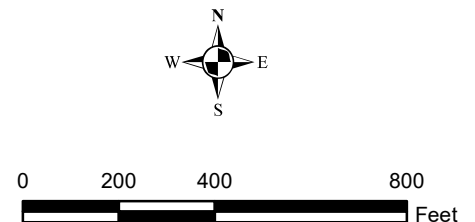
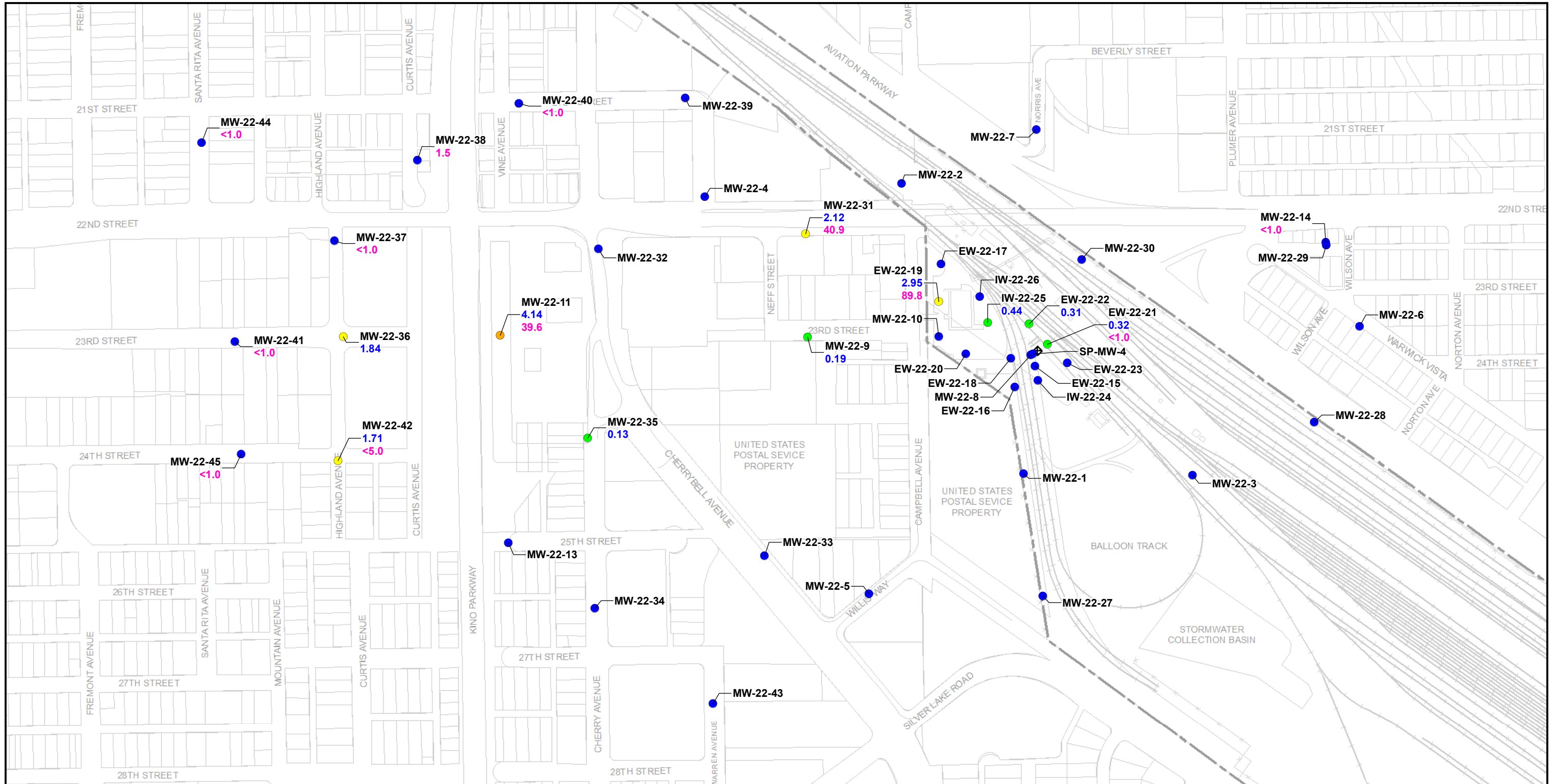


Figure 2. Estimated Groundwater Gradient Map
First Quarter 2024
 Union Pacific Railroad Company
 22nd Street Fueling Facility
 Tucson, Arizona



LEGEND

0.57 LNAPL Thickness
 <1.0 Benzene Concentration

LNAPL Thickness (feet)

- Not Detected
- ≥ 0.01 to 1
- ≥ 1 to 4
- ≥ 4

▭ Property Boundary

Notes:
 1. All results are reported in micrograms per liter.
 2. < = not detected; value given is the reporting limit
 3. LNAPL = light, nonaqueous phase liquid



Figure 3. Site Map With Monitoring Well Locations, LNAPL Thickness, and Benzene Concentrations First Quarter 2024
 Union Pacific Railroad Company
 22nd Street Fueling Facility
 Tucson, Arizona

Attachment - Laboratory Analytical Reports



March 07, 2024

Ramzi Ramzi
Jacobs
1501 W. Fountainhead Pkwy #401
Tempe, AZ 85282

RE: Project: Tucson AZ-Fueling Facility 22n
Pace Project No.: 10684450

Dear Ramzi Ramzi:

Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2024. 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 National - Mt. Juliet
- Pace Analytical Services - Minneapolis

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

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: UPRR-Sysdat@ghd.com, UPRR



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

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Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Pace Analytical Services National

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10684450001	WG-2510-TB-01-022024	Water	02/20/24 07:00	02/21/24 08:50
10684450002	WG-2510-MW-22-14-022024	Water	02/20/24 08:01	02/21/24 08:50
10684450003	WG-2510-FD-01-022024	Water	02/20/24 08:06	02/21/24 08:50
10684450004	WG-2510-MW-22-37-022024	Water	02/20/24 12:01	02/21/24 08:50
10684450005	WG-2510-MW-22-45-022024	Water	02/20/24 11:35	02/21/24 08:50
10684450006	WG-2510-MW-22-42-022024	Water	02/20/24 11:13	02/21/24 08:50
10684450007	WG-2510-MW-22-11-022024	Water	02/20/24 10:41	02/21/24 08:50
10684450008	WG-2510-MW-22-31-022024	Water	02/20/24 09:23	02/21/24 08:50
10684450009	WG-2510-FD-02-022024	Water	02/20/24 09:28	02/21/24 08:50
10684450010	WG-2510-MW-22-40-022024	Water	02/20/24 12:28	02/21/24 08:50
10684450011	WG-2510-MW-22-38-022024	Water	02/20/24 12:58	02/21/24 08:50
10684450012	WG-2510-MW-22-44-022024	Water	02/20/24 13:27	02/21/24 08:50
10684450013	WG-2510-FB-01-022024	Water	02/20/24 16:00	02/21/24 08:50

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SAMPLE ANALYTE COUNT

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10684450001	WG-2510-TB-01-022024	EPA 8260D	PAB	74	PASI-M
10684450002	WG-2510-MW-22-14-022024	EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
10684450003	WG-2510-FD-01-022024	EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
10684450004	WG-2510-MW-22-37-022024	EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
10684450005	WG-2510-MW-22-45-022024	EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
10684450006	WG-2510-MW-22-42-022024	EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
10684450007	WG-2510-MW-22-11-022024	RSK 175	ALE	1	PASI-M
		EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
		SM 3500-Fe B	SJA	1	PAN
		SM 2320B	RM3	1	PASI-M
		EPA 300.0	JFP	2	PASI-M
10684450008	WG-2510-MW-22-31-022024	RSK 175	ALE	1	PASI-M
		EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
		SM 3500-Fe B	SJA	1	PAN
		SM 2320B	RM3	1	PASI-M
		EPA 300.0	JFP	2	PASI-M
10684450009	WG-2510-FD-02-022024	RSK 175	ALE	1	PASI-M
		EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
		SM 3500-Fe B	SJA	1	PAN
		SM 2320B	RM3	1	PASI-M
		EPA 300.0	JFP	2	PASI-M
10684450010	WG-2510-MW-22-40-022024	EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
10684450011	WG-2510-MW-22-38-022024	RSK 175	ALE	1	PASI-M
		EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
		SM 3500-Fe B	SJA	1	PAN
		SM 2320B	RM3	1	PASI-M
		EPA 300.0	JFP	2	PASI-M

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10684450012	WG-2510-MW-22-44-022024	RSK 175	ALE	1	PASI-M
		EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
		SM 3500-Fe B	SJA	1	PAN
		SM 2320B	RM3	1	PASI-M
		EPA 300.0	JFP	2	PASI-M
10684450013	WG-2510-FB-01-022024	EPA 8260D	PAB	74	PASI-M

PAN = Pace National - Mt. Juliet

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Date: March 07, 2024

WG-2510-MW-22-11-022024 (Lab ID: 10684450007)

- Wet Chemistry by Method 3500Fe B-2011 - Dilution due to matrix interference

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: RSK 175

Description: RSK 175 GCV Headspace

Client: UPRR_Jacobs

Date: March 07, 2024

General Information:

5 samples were analyzed for RSK 175 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 932863

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10684450012

M3: The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.

- MS (Lab ID: 4891265)
 - Methane
- MSD (Lab ID: 4891266)
 - Methane

Additional Comments:

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: EPA 8270D PAH by SIM

Description: 8270D MSSV PAH by SIM LV

Client: UPRR_Jacobs

Date: March 07, 2024

General Information:

11 samples were analyzed for EPA 8270D PAH by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3511 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 933059

S8: The analysis of the sample required a dilution such that the surrogate recovery calculation does not provide useful information. The associated blank spike recovery was acceptable.

- WG-2510-FD-02-022024 (Lab ID: 10684450009)
 - 2-Fluorobiphenyl (S)
 - p-Terphenyl-d14 (S)
- WG-2510-MW-22-11-022024 (Lab ID: 10684450007)
 - 2-Fluorobiphenyl (S)
 - p-Terphenyl-d14 (S)
- WG-2510-MW-22-31-022024 (Lab ID: 10684450008)
 - 2-Fluorobiphenyl (S)
 - p-Terphenyl-d14 (S)
- WG-2510-MW-22-37-022024 (Lab ID: 10684450004)
 - 2-Fluorobiphenyl (S)
 - p-Terphenyl-d14 (S)
- WG-2510-MW-22-42-022024 (Lab ID: 10684450006)
 - p-Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: EPA 8270D PAH by SIM

Description: 8270D MSSV PAH by SIM LV

Client: UPRR_Jacobs

Date: March 07, 2024

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 933059

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10684450012

M1: Matrix spike recovery was high; the associated blank spike recovery was acceptable.

- MS (Lab ID: 4892086)
- Acenaphthene

Additional Comments:

Analyte Comments:

QC Batch: 933059

D2: Sample required dilution due to high concentration of target analyte.

- WG-2510-FD-02-022024 (Lab ID: 10684450009)
 - 2-Fluorobiphenyl (S)
- WG-2510-MW-22-11-022024 (Lab ID: 10684450007)
 - 2-Fluorobiphenyl (S)
- WG-2510-MW-22-31-022024 (Lab ID: 10684450008)
 - 2-Fluorobiphenyl (S)
- WG-2510-MW-22-37-022024 (Lab ID: 10684450004)
 - 2-Fluorobiphenyl (S)
- WG-2510-MW-22-42-022024 (Lab ID: 10684450006)
 - 2-Fluorobiphenyl (S)

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: EPA 8260D

Description: 8260D MSV

Client: UPRR_Jacobs

Date: March 07, 2024

General Information:

13 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 933715

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Batch Comments:

The continuing calibration verification was below the method acceptance limit for acetone. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- QC Batch: 933715
- QC Batch: 934105

Bromomethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- QC Batch: 933715

The continuing calibration verification was above the method acceptance limit for dichlorodifluoromethane. Any detection for the analyte in the associated samples may have a high bias.

- QC Batch: 934105

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: EPA 8260D

Description: 8260D MSV

Client: UPRR_Jacobs

Date: March 07, 2024

Batch Comments:

Bromomethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- QC Batch: 934105

Analyte Comments:

QC Batch: 933715

D1: Sample required dilution due to matrix.

- WG-2510-MW-22-11-022024 (Lab ID: 10684450007)
 - 1,2-Dichlorobenzene-d4 (S)
- WG-2510-MW-22-31-022024 (Lab ID: 10684450008)
 - 1,2-Dichlorobenzene-d4 (S)
- WG-2510-MW-22-42-022024 (Lab ID: 10684450006)
 - 1,2-Dichlorobenzene-d4 (S)

PN2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 4894786)
 - Total 1,3-Dichloropropene
- LCS (Lab ID: 4894787)
 - Total 1,3-Dichloropropene
- LCSD (Lab ID: 4894788)
 - Total 1,3-Dichloropropene
- WG-2510-FB-01-022024 (Lab ID: 10684450013)
 - Total 1,3-Dichloropropene
- WG-2510-FD-02-022024 (Lab ID: 10684450009)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-11-022024 (Lab ID: 10684450007)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-14-022024 (Lab ID: 10684450002)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-31-022024 (Lab ID: 10684450008)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-37-022024 (Lab ID: 10684450004)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-38-022024 (Lab ID: 10684450011)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-40-022024 (Lab ID: 10684450010)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-42-022024 (Lab ID: 10684450006)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-45-022024 (Lab ID: 10684450005)
 - Total 1,3-Dichloropropene
- WG-2510-TB-01-022024 (Lab ID: 10684450001)
 - Total 1,3-Dichloropropene

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: EPA 8260D

Description: 8260D MSV

Client: UPRR_Jacobs

Date: March 07, 2024

Analyte Comments:

QC Batch: 934105

PN2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 4896095)
 - Total 1,3-Dichloropropene
- LCS (Lab ID: 4896096)
 - Total 1,3-Dichloropropene
- MS (Lab ID: 4896097)
 - Total 1,3-Dichloropropene
- MSD (Lab ID: 4896098)
 - Total 1,3-Dichloropropene
- WG-2510-FD-01-022024 (Lab ID: 10684450003)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-44-022024 (Lab ID: 10684450012)
 - Total 1,3-Dichloropropene

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: SM 3500-Fe B

Description: Wet Chemistry 3500Fe B-2011

Client: UPRR_Jacobs

Date: March 07, 2024

General Information:

5 samples were analyzed for SM 3500-Fe B by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received and analyzed past holding time.

- WG-2510-FD-02-022024 (Lab ID: 10684450009)
- WG-2510-MW-22-11-022024 (Lab ID: 10684450007)
- WG-2510-MW-22-31-022024 (Lab ID: 10684450008)
- WG-2510-MW-22-38-022024 (Lab ID: 10684450011)
- WG-2510-MW-22-44-022024 (Lab ID: 10684450012)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: SM 2320B

Description: 2320B Alkalinity

Client: UPRR_Jacobs

Date: March 07, 2024

General Information:

5 samples were analyzed for SM 2320B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 933859

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10684450012,10685009001

M1: Matrix spike recovery was high; the associated blank spike recovery was acceptable.

- MSD (Lab ID: 4895321)
- Alkalinity, Total as CaCO₃

Additional Comments:

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Method: EPA 300.0

Description: 300.0 IC Anions

Client: UPRR_Jacobs

Date: March 07, 2024

General Information:

5 samples were analyzed for EPA 300.0 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-TB-01-022024** Lab ID: **10684450001** Collected: 02/20/24 07:00 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 19:37	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 19:37	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 19:37	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 19:37	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 19:37	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 19:37	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 19:37	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 19:37	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:37	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 19:37	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:37	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 19:37	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 19:37	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 19:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:37	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 19:37	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 19:37	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 19:37	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:37	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 19:37	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:37	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 19:37	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 19:37	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 19:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 19:37	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 19:37	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 19:37	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 19:37	107-05-1	
Benzene	ND	ug/L	1.0	1		02/27/24 19:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 19:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 19:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 19:37	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 19:37	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 19:37	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 19:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 19:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 19:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 19:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 19:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 19:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 19:37	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 19:37	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 19:37	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 19:37	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 19:37	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/27/24 19:37	100-41-4	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: WG-2510-TB-01-022024	Lab ID: 10684450001	Collected: 02/20/24 07:00	Received: 02/21/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 19:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/27/24 19:37	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/24 19:37	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 19:37	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/27/24 19:37	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 19:37	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 19:37	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 19:37	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 19:37	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 19:37		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 19:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 19:37	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 19:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 19:37	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 19:37	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 19:37	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 19:37	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/27/24 19:37	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/27/24 19:37	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 19:37	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 19:37	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		02/27/24 19:37	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 19:37	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 19:37	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 19:37	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	102	%	75-125	1		02/27/24 19:37	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125	1		02/27/24 19:37	460-00-4	
Toluene-d8 (S)	103	%	75-125	1		02/27/24 19:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: WG-2510-MW-22-14-022024 Lab ID: 10684450002 Collected: 02/20/24 08:01 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	91-57-6	
Acenaphthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	83-32-9	
Acenaphthylene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	208-96-8	
Anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	205-99-2	
Benzo(e)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	207-08-9	
Chrysene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	53-70-3	
Fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	206-44-0	
Fluorene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	193-39-5	
Naphthalene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	91-20-3	
Phenanthrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	85-01-8	
Pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 16:37	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	107	%.	44-140	1	02/22/24 12:10	02/27/24 16:37	321-60-8	
p-Terphenyl-d14 (S)	109	%.	45-133	1	02/22/24 12:10	02/27/24 16:37	1718-51-0	

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 20:58	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 20:58	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 20:58	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 20:58	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 20:58	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 20:58	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:58	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:58	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:58	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 20:58	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:58	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 20:58	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 20:58	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 20:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:58	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 20:58	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:58	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 20:58	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:58	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:58	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:58	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-14-022024** Lab ID: **10684450002** Collected: 02/20/24 08:01 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:58	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 20:58	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 20:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 20:58	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 20:58	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 20:58	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 20:58	107-05-1	
Benzene	ND	ug/L	1.0	1		02/27/24 20:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 20:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 20:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 20:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 20:58	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 20:58	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 20:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 20:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 20:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 20:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 20:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 20:58	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 20:58	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 20:58	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 20:58	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 20:58	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 20:58	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/27/24 20:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 20:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/27/24 20:58	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/24 20:58	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 20:58	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/27/24 20:58	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 20:58	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 20:58	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 20:58	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 20:58	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 20:58		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 20:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 20:58	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 20:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 20:58	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:58	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:58	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 20:58	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:58	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/27/24 20:58	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 20:58	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 20:58	99-87-6	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-14-022024** Lab ID: **10684450002** Collected: 02/20/24 08:01 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:58	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:58	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:58	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		02/27/24 20:58	2199-69-1	
4-Bromofluorobenzene (S)	102	%.	75-125	1		02/27/24 20:58	460-00-4	
Toluene-d8 (S)	104	%.	75-125	1		02/27/24 20:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-FD-01-022024** Lab ID: **10684450003** Collected: 02/20/24 08:06 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	0.19	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	90-12-0	
2-Methylnaphthalene	0.29	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	91-57-6	
Acenaphthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	83-32-9	
Acenaphthylene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	208-96-8	
Anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	205-99-2	
Benzo(e)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	207-08-9	
Chrysene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	53-70-3	
Fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	206-44-0	
Fluorene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	193-39-5	
Naphthalene	0.087	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	91-20-3	
Phenanthrene	0.077	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	85-01-8	
Pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 17:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	101	%	44-140	1	02/22/24 12:10	02/27/24 17:03	321-60-8	
p-Terphenyl-d14 (S)	112	%	45-133	1	02/22/24 12:10	02/27/24 17:03	1718-51-0	

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/29/24 16:55	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/29/24 16:55	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/29/24 16:55	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/29/24 16:55	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/29/24 16:55	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/29/24 16:55	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/29/24 16:55	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/29/24 16:55	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:55	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/29/24 16:55	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:55	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/29/24 16:55	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/29/24 16:55	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/29/24 16:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:55	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/29/24 16:55	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/29/24 16:55	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/29/24 16:55	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:55	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/29/24 16:55	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:55	106-46-7	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-FD-01-022024** Lab ID: **10684450003** Collected: 02/20/24 08:06 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	1.0	1		02/29/24 16:55	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/29/24 16:55	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/29/24 16:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/29/24 16:55	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/29/24 16:55	108-10-1	
Acetone	ND	ug/L	10.0	1		02/29/24 16:55	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/29/24 16:55	107-05-1	
Benzene	ND	ug/L	1.0	1		02/29/24 16:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/29/24 16:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/29/24 16:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/29/24 16:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/29/24 16:55	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/29/24 16:55	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/29/24 16:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/29/24 16:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/29/24 16:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/29/24 16:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/29/24 16:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/29/24 16:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/29/24 16:55	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/29/24 16:55	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/29/24 16:55	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/29/24 16:55	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/29/24 16:55	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/29/24 16:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/29/24 16:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/29/24 16:55	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/29/24 16:55	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/29/24 16:55	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/29/24 16:55	91-20-3	
Styrene	ND	ug/L	1.0	1		02/29/24 16:55	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/29/24 16:55	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/29/24 16:55	109-99-9	
Toluene	ND	ug/L	1.0	1		02/29/24 16:55	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/29/24 16:55		PN2
Trichloroethene	ND	ug/L	1.0	1		02/29/24 16:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/29/24 16:55	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/29/24 16:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/29/24 16:55	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/29/24 16:55	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/29/24 16:55	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/29/24 16:55	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/29/24 16:55	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/29/24 16:55	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/29/24 16:55	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/29/24 16:55	99-87-6	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-FD-01-022024** Lab ID: **10684450003** Collected: 02/20/24 08:06 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	ND	ug/L	1.0	1		02/29/24 16:55	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/29/24 16:55	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/29/24 16:55	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/29/24 16:55	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		02/29/24 16:55	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125	1		02/29/24 16:55	460-00-4	
Toluene-d8 (S)	101	%.	75-125	1		02/29/24 16:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-37-022024** Lab ID: **10684450004** Collected: 02/20/24 12:01 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	314	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	90-12-0	
2-Methylnaphthalene	369	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	91-57-6	
Acenaphthene	28.0	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	83-32-9	
Acenaphthylene	5.8	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	208-96-8	
Anthracene	6.5	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	205-99-2	
Benzo(e)pyrene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	207-08-9	
Chrysene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	53-70-3	
Fluoranthene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	206-44-0	
Fluorene	45.9	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	193-39-5	
Naphthalene	41.5	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	91-20-3	
Phenanthrene	77.6	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	85-01-8	
Pyrene	6.7	ug/L	1.9	50	02/22/24 12:10	02/27/24 17:29	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	0	%	44-140	50	02/22/24 12:10	02/27/24 17:29	321-60-8	D2,S8
p-Terphenyl-d14 (S)	0	%	45-133	50	02/22/24 12:10	02/27/24 17:29	1718-51-0	S8

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 20:26	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 20:26	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 20:26	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 20:26	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 20:26	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 20:26	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:26	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:26	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:26	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 20:26	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:26	120-82-1	
1,2,4-Trimethylbenzene	1.3	ug/L	1.0	1		02/27/24 20:26	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 20:26	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 20:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:26	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 20:26	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:26	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 20:26	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:26	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:26	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:26	106-46-7	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-37-022024** Lab ID: **10684450004** Collected: 02/20/24 12:01 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:26	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 20:26	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 20:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 20:26	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 20:26	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 20:26	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 20:26	107-05-1	
Benzene	ND	ug/L	1.0	1		02/27/24 20:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 20:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 20:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 20:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 20:26	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 20:26	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 20:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 20:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 20:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 20:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 20:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 20:26	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 20:26	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 20:26	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 20:26	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 20:26	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 20:26	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/27/24 20:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 20:26	87-68-3	
Isopropylbenzene (Cumene)	2.4	ug/L	1.0	1		02/27/24 20:26	98-82-8	
Methyl-tert-butyl ether	3.6	ug/L	1.0	1		02/27/24 20:26	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 20:26	75-09-2	
Naphthalene	27.7	ug/L	1.0	1		02/27/24 20:26	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 20:26	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 20:26	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 20:26	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 20:26	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 20:26		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 20:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 20:26	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 20:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 20:26	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:26	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:26	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 20:26	179601-23-1	
n-Butylbenzene	1.3	ug/L	1.0	1		02/27/24 20:26	104-51-8	
n-Propylbenzene	2.8	ug/L	1.0	1		02/27/24 20:26	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 20:26	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 20:26	99-87-6	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-37-022024** Lab ID: **10684450004** Collected: 02/20/24 12:01 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	1.4	ug/L	1.0	1		02/27/24 20:26	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:26	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:26	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:26	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	102	%	75-125	1		02/27/24 20:26	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125	1		02/27/24 20:26	460-00-4	
Toluene-d8 (S)	106	%	75-125	1		02/27/24 20:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-45-022024** Lab ID: **10684450005** Collected: 02/20/24 11:35 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	0.11	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	90-12-0	
2-Methylnaphthalene	0.15	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	91-57-6	
Acenaphthene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	83-32-9	
Acenaphthylene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	208-96-8	
Anthracene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	205-99-2	
Benzo(e)pyrene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	207-08-9	
Chrysene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	53-70-3	
Fluoranthene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	206-44-0	
Fluorene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	193-39-5	
Naphthalene	0.043	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	91-20-3	
Phenanthrene	0.044	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	85-01-8	
Pyrene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 17:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	100	%	44-140	1	02/22/24 12:10	02/27/24 17:54	321-60-8	
p-Terphenyl-d14 (S)	109	%	45-133	1	02/22/24 12:10	02/27/24 17:54	1718-51-0	

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 20:42	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 20:42	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 20:42	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 20:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 20:42	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 20:42	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:42	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:42	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:42	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 20:42	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:42	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 20:42	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 20:42	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 20:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:42	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 20:42	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:42	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 20:42	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:42	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:42	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:42	106-46-7	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-45-022024** Lab ID: **10684450005** Collected: 02/20/24 11:35 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:42	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 20:42	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 20:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 20:42	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 20:42	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 20:42	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 20:42	107-05-1	
Benzene	ND	ug/L	1.0	1		02/27/24 20:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 20:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 20:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 20:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 20:42	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 20:42	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 20:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 20:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 20:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 20:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 20:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 20:42	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 20:42	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 20:42	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 20:42	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 20:42	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 20:42	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/27/24 20:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 20:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/27/24 20:42	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/24 20:42	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 20:42	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/27/24 20:42	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 20:42	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 20:42	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 20:42	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 20:42	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 20:42		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 20:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 20:42	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 20:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 20:42	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:42	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:42	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 20:42	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:42	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/27/24 20:42	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 20:42	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 20:42	99-87-6	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-45-022024** Lab ID: **10684450005** Collected: 02/20/24 11:35 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:42	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:42	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:42	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		02/27/24 20:42	2199-69-1	
4-Bromofluorobenzene (S)	102	%.	75-125	1		02/27/24 20:42	460-00-4	
Toluene-d8 (S)	104	%.	75-125	1		02/27/24 20:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-42-022024** Lab ID: **10684450006** Collected: 02/20/24 11:13 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	38300	ug/L	385	10000	02/22/24 12:10	03/07/24 15:17	90-12-0	
2-Methylnaphthalene	62400	ug/L	385	10000	02/22/24 12:10	03/07/24 15:17	91-57-6	
Acenaphthene	94.8	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	83-32-9	
Acenaphthylene	28.5	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	208-96-8	
Anthracene	63.4	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	120-12-7	
Benzo(a)anthracene	2.3	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	205-99-2	
Benzo(e)pyrene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	207-08-9	
Chrysene	3.6	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	53-70-3	
Fluoranthene	10.2	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	206-44-0	
Fluorene	267	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:04	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	193-39-5	
Naphthalene	405	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:04	91-20-3	
Phenanthrene	820	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:04	85-01-8	
Pyrene	46.8	ug/L	0.38	10	02/22/24 12:10	02/27/24 22:29	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	93	%.	44-140	10	02/22/24 12:10	02/27/24 22:29	321-60-8	D2
p-Terphenyl-d14 (S)	171	%.	45-133	10	02/22/24 12:10	02/27/24 22:29	1718-51-0	S8

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		02/27/24 22:35	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		02/27/24 22:35	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		02/27/24 22:35	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		02/27/24 22:35	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	5		02/27/24 22:35	76-13-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		02/27/24 22:35	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	5		02/27/24 22:35	75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	5		02/27/24 22:35	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:35	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	12.5	5		02/27/24 22:35	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:35	120-82-1	
1,2,4-Trimethylbenzene	18.0	ug/L	5.0	5		02/27/24 22:35	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		02/27/24 22:35	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		02/27/24 22:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:35	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	5		02/27/24 22:35	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	5		02/27/24 22:35	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		02/27/24 22:35	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:35	541-73-1	
1,3-Dichloropropane	ND	ug/L	5.0	5		02/27/24 22:35	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:35	106-46-7	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-42-022024** Lab ID: **10684450006** Collected: 02/20/24 11:13 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	5.0	5		02/27/24 22:35	594-20-7	
2-Butanone (MEK)	ND	ug/L	50.0	5		02/27/24 22:35	78-93-3	
2-Chlorotoluene	ND	ug/L	5.0	5		02/27/24 22:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		02/27/24 22:35	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		02/27/24 22:35	108-10-1	
Acetone	ND	ug/L	50.0	5		02/27/24 22:35	67-64-1	
Allyl chloride	ND	ug/L	12.5	5		02/27/24 22:35	107-05-1	
Benzene	ND	ug/L	5.0	5		02/27/24 22:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		02/27/24 22:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		02/27/24 22:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		02/27/24 22:35	75-27-4	
Bromoform	ND	ug/L	5.0	5		02/27/24 22:35	75-25-2	
Bromomethane	ND	ug/L	12.5	5		02/27/24 22:35	74-83-9	
Carbon disulfide	ND	ug/L	5.0	5		02/27/24 22:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		02/27/24 22:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		02/27/24 22:35	108-90-7	
Chloroethane	ND	ug/L	5.0	5		02/27/24 22:35	75-00-3	
Chloroform	ND	ug/L	5.0	5		02/27/24 22:35	67-66-3	
Chloromethane	ND	ug/L	5.0	5		02/27/24 22:35	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	5		02/27/24 22:35	124-48-1	
Dibromomethane	ND	ug/L	5.0	5		02/27/24 22:35	74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.0	5		02/27/24 22:35	75-71-8	
Dichlorofluoromethane	ND	ug/L	5.0	5		02/27/24 22:35	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	12.5	5		02/27/24 22:35	60-29-7	
Ethylbenzene	16.7	ug/L	5.0	5		02/27/24 22:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		02/27/24 22:35	87-68-3	
Isopropylbenzene (Cumene)	12.4	ug/L	5.0	5		02/27/24 22:35	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		02/27/24 22:35	1634-04-4	
Methylene Chloride	ND	ug/L	5.0	5		02/27/24 22:35	75-09-2	
Naphthalene	211	ug/L	5.0	5		02/27/24 22:35	91-20-3	
Styrene	ND	ug/L	5.0	5		02/27/24 22:35	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	5		02/27/24 22:35	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		02/27/24 22:35	109-99-9	
Toluene	ND	ug/L	5.0	5		02/27/24 22:35	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	10.0	5		02/27/24 22:35		PN2
Trichloroethene	ND	ug/L	5.0	5		02/27/24 22:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		02/27/24 22:35	75-69-4	
Vinyl chloride	ND	ug/L	5.0	5		02/27/24 22:35	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		02/27/24 22:35	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		02/27/24 22:35	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		02/27/24 22:35	10061-01-5	
m&p-Xylene	ND	ug/L	10.0	5		02/27/24 22:35	179601-23-1	
n-Butylbenzene	12.6	ug/L	5.0	5		02/27/24 22:35	104-51-8	
n-Propylbenzene	18.9	ug/L	5.0	5		02/27/24 22:35	103-65-1	
o-Xylene	9.3	ug/L	5.0	5		02/27/24 22:35	95-47-6	
p-Isopropyltoluene	5.6	ug/L	5.0	5		02/27/24 22:35	99-87-6	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-42-022024** Lab ID: **10684450006** Collected: 02/20/24 11:13 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	11.7	ug/L	5.0	5		02/27/24 22:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		02/27/24 22:35	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		02/27/24 22:35	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		02/27/24 22:35	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%	75-125	5		02/27/24 22:35	2199-69-1	D1
4-Bromofluorobenzene (S)	99	%	75-125	5		02/27/24 22:35	460-00-4	
Toluene-d8 (S)	106	%	75-125	5		02/27/24 22:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-11-022024** Lab ID: **10684450007** Collected: 02/20/24 10:41 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 GCV Headspace		Analytical Method: RSK 175 Pace Analytical Services - Minneapolis						
Methane	9450	ug/L	10.0	1		02/21/24 14:40	74-82-8	
8270D MSSV PAH by SIM LV		Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511 Pace Analytical Services - Minneapolis						
1-Methylnaphthalene	1690	ug/L	18.9	500	02/22/24 12:10	03/06/24 18:18	90-12-0	
2-Methylnaphthalene	2660	ug/L	18.9	500	02/22/24 12:10	03/06/24 18:18	91-57-6	
Acenaphthene	73.0	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	83-32-9	
Acenaphthylene	24.6	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	208-96-8	
Anthracene	30.9	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	120-12-7	
Benzo(a)anthracene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	56-55-3	
Benzo(a)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	205-99-2	
Benzo(e)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	207-08-9	
Chrysene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	53-70-3	
Fluoranthene	6.6	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	206-44-0	
Fluorene	144	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	193-39-5	
Naphthalene	253	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	91-20-3	
Phenanthrene	335	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	85-01-8	
Pyrene	31.7	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:20	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	0	%.	44-140	100	02/22/24 12:10	02/27/24 18:20	321-60-8	D2,S8
p-Terphenyl-d14 (S)	0	%.	45-133	100	02/22/24 12:10	02/27/24 18:20	1718-51-0	S8
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		02/27/24 22:52	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		02/27/24 22:52	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		02/27/24 22:52	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		02/27/24 22:52	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	5		02/27/24 22:52	76-13-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		02/27/24 22:52	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	5		02/27/24 22:52	75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	5		02/27/24 22:52	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:52	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	12.5	5		02/27/24 22:52	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:52	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		02/27/24 22:52	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		02/27/24 22:52	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		02/27/24 22:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:52	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	5		02/27/24 22:52	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	5		02/27/24 22:52	78-87-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-11-022024** Lab ID: **10684450007** Collected: 02/20/24 10:41 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		02/27/24 22:52	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:52	541-73-1	
1,3-Dichloropropane	ND	ug/L	5.0	5		02/27/24 22:52	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 22:52	106-46-7	
2,2-Dichloropropane	ND	ug/L	5.0	5		02/27/24 22:52	594-20-7	
2-Butanone (MEK)	ND	ug/L	50.0	5		02/27/24 22:52	78-93-3	
2-Chlorotoluene	ND	ug/L	5.0	5		02/27/24 22:52	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		02/27/24 22:52	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		02/27/24 22:52	108-10-1	
Acetone	ND	ug/L	50.0	5		02/27/24 22:52	67-64-1	
Allyl chloride	ND	ug/L	12.5	5		02/27/24 22:52	107-05-1	
Benzene	39.6	ug/L	5.0	5		02/27/24 22:52	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		02/27/24 22:52	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		02/27/24 22:52	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		02/27/24 22:52	75-27-4	
Bromoform	ND	ug/L	5.0	5		02/27/24 22:52	75-25-2	
Bromomethane	ND	ug/L	12.5	5		02/27/24 22:52	74-83-9	
Carbon disulfide	ND	ug/L	5.0	5		02/27/24 22:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		02/27/24 22:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		02/27/24 22:52	108-90-7	
Chloroethane	ND	ug/L	5.0	5		02/27/24 22:52	75-00-3	
Chloroform	ND	ug/L	5.0	5		02/27/24 22:52	67-66-3	
Chloromethane	ND	ug/L	5.0	5		02/27/24 22:52	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	5		02/27/24 22:52	124-48-1	
Dibromomethane	ND	ug/L	5.0	5		02/27/24 22:52	74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.0	5		02/27/24 22:52	75-71-8	
Dichlorofluoromethane	ND	ug/L	5.0	5		02/27/24 22:52	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	12.5	5		02/27/24 22:52	60-29-7	
Ethylbenzene	26.5	ug/L	5.0	5		02/27/24 22:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		02/27/24 22:52	87-68-3	
Isopropylbenzene (Cumene)	10.2	ug/L	5.0	5		02/27/24 22:52	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		02/27/24 22:52	1634-04-4	
Methylene Chloride	ND	ug/L	5.0	5		02/27/24 22:52	75-09-2	
Naphthalene	67.1	ug/L	5.0	5		02/27/24 22:52	91-20-3	
Styrene	ND	ug/L	5.0	5		02/27/24 22:52	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	5		02/27/24 22:52	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		02/27/24 22:52	109-99-9	
Toluene	ND	ug/L	5.0	5		02/27/24 22:52	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	10.0	5		02/27/24 22:52		PN2
Trichloroethene	ND	ug/L	5.0	5		02/27/24 22:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		02/27/24 22:52	75-69-4	
Vinyl chloride	ND	ug/L	5.0	5		02/27/24 22:52	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		02/27/24 22:52	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		02/27/24 22:52	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		02/27/24 22:52	10061-01-5	
m&p-Xylene	ND	ug/L	10.0	5		02/27/24 22:52	179601-23-1	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-11-022024** Lab ID: **10684450007** Collected: 02/20/24 10:41 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	ND	ug/L	5.0	5		02/27/24 22:52	104-51-8	
n-Propylbenzene	13.6	ug/L	5.0	5		02/27/24 22:52	103-65-1	
o-Xylene	ND	ug/L	5.0	5		02/27/24 22:52	95-47-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		02/27/24 22:52	99-87-6	
sec-Butylbenzene	5.2	ug/L	5.0	5		02/27/24 22:52	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		02/27/24 22:52	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		02/27/24 22:52	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		02/27/24 22:52	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	5		02/27/24 22:52	2199-69-1	D1
4-Bromofluorobenzene (S)	102	%.	75-125	5		02/27/24 22:52	460-00-4	
Toluene-d8 (S)	102	%.	75-125	5		02/27/24 22:52	2037-26-5	
Wet Chemistry 3500Fe B-2011		Analytical Method: SM 3500-Fe B Preparation Method: 3500Fe B-2011 Pace National - Mt. Juliet						
Iron, Ferrous	ND	mg/L	1.25	25	02/22/24 19:21	02/22/24 19:21	15438-31-0	H3
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis						
Alkalinity, Total as CaCO3	648000	ug/L	5000	1		02/28/24 14:49		
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis						
Nitrate as N	ND	ug/L	100	1		02/22/24 02:02	14797-55-8	
Sulfate	96300	ug/L	1200	1		02/22/24 02:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-31-022024** Lab ID: **10684450008** Collected: 02/20/24 09:23 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 GCV Headspace		Analytical Method: RSK 175 Pace Analytical Services - Minneapolis						
Methane	9220	ug/L	10.0	1		02/21/24 14:51	74-82-8	
8270D MSSV PAH by SIM LV		Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511 Pace Analytical Services - Minneapolis						
1-Methylnaphthalene	7460	ug/L	76.3	2000	02/22/24 12:10	03/06/24 19:12	90-12-0	
2-Methylnaphthalene	12100	ug/L	76.3	2000	02/22/24 12:10	03/06/24 19:12	91-57-6	
Acenaphthene	282	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	83-32-9	
Acenaphthylene	137	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	208-96-8	
Anthracene	241	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	120-12-7	
Benzo(a)anthracene	14.5	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	56-55-3	
Benzo(a)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	205-99-2	
Benzo(e)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	207-08-9	
Chrysene	21.7	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	53-70-3	
Fluoranthene	45.2	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	206-44-0	
Fluorene	826	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	193-39-5	
Naphthalene	2240	ug/L	76.3	2000	02/22/24 12:10	03/06/24 19:12	91-20-3	
Phenanthrene	2650	ug/L	76.3	2000	02/22/24 12:10	03/06/24 19:12	85-01-8	
Pyrene	239	ug/L	3.8	100	02/22/24 12:10	02/27/24 22:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	0	%.	44-140	100	02/22/24 12:10	02/27/24 22:54	321-60-8	D2,S8
p-Terphenyl-d14 (S)	0	%.	45-133	100	02/22/24 12:10	02/27/24 22:54	1718-51-0	S8
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		02/27/24 23:08	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		02/27/24 23:08	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		02/27/24 23:08	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		02/27/24 23:08	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	5		02/27/24 23:08	76-13-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		02/27/24 23:08	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	5		02/27/24 23:08	75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	5		02/27/24 23:08	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		02/27/24 23:08	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	12.5	5		02/27/24 23:08	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		02/27/24 23:08	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		02/27/24 23:08	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		02/27/24 23:08	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		02/27/24 23:08	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 23:08	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	5		02/27/24 23:08	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	5		02/27/24 23:08	78-87-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-31-022024** Lab ID: **10684450008** Collected: 02/20/24 09:23 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		02/27/24 23:08	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 23:08	541-73-1	
1,3-Dichloropropane	ND	ug/L	5.0	5		02/27/24 23:08	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		02/27/24 23:08	106-46-7	
2,2-Dichloropropane	ND	ug/L	5.0	5		02/27/24 23:08	594-20-7	
2-Butanone (MEK)	ND	ug/L	50.0	5		02/27/24 23:08	78-93-3	
2-Chlorotoluene	ND	ug/L	5.0	5		02/27/24 23:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		02/27/24 23:08	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		02/27/24 23:08	108-10-1	
Acetone	ND	ug/L	50.0	5		02/27/24 23:08	67-64-1	
Allyl chloride	ND	ug/L	12.5	5		02/27/24 23:08	107-05-1	
Benzene	34.9	ug/L	5.0	5		02/27/24 23:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		02/27/24 23:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		02/27/24 23:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		02/27/24 23:08	75-27-4	
Bromoform	ND	ug/L	5.0	5		02/27/24 23:08	75-25-2	
Bromomethane	ND	ug/L	12.5	5		02/27/24 23:08	74-83-9	
Carbon disulfide	ND	ug/L	5.0	5		02/27/24 23:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		02/27/24 23:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		02/27/24 23:08	108-90-7	
Chloroethane	ND	ug/L	5.0	5		02/27/24 23:08	75-00-3	
Chloroform	ND	ug/L	5.0	5		02/27/24 23:08	67-66-3	
Chloromethane	ND	ug/L	5.0	5		02/27/24 23:08	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	5		02/27/24 23:08	124-48-1	
Dibromomethane	ND	ug/L	5.0	5		02/27/24 23:08	74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.0	5		02/27/24 23:08	75-71-8	
Dichlorofluoromethane	ND	ug/L	5.0	5		02/27/24 23:08	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	12.5	5		02/27/24 23:08	60-29-7	
Ethylbenzene	67.4	ug/L	5.0	5		02/27/24 23:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		02/27/24 23:08	87-68-3	
Isopropylbenzene (Cumene)	17.1	ug/L	5.0	5		02/27/24 23:08	98-82-8	
Methyl-tert-butyl ether	23.8	ug/L	5.0	5		02/27/24 23:08	1634-04-4	
Methylene Chloride	ND	ug/L	5.0	5		02/27/24 23:08	75-09-2	
Naphthalene	213	ug/L	5.0	5		02/27/24 23:08	91-20-3	
Styrene	ND	ug/L	5.0	5		02/27/24 23:08	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	5		02/27/24 23:08	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		02/27/24 23:08	109-99-9	
Toluene	ND	ug/L	5.0	5		02/27/24 23:08	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	10.0	5		02/27/24 23:08		PN2
Trichloroethene	ND	ug/L	5.0	5		02/27/24 23:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		02/27/24 23:08	75-69-4	
Vinyl chloride	ND	ug/L	5.0	5		02/27/24 23:08	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		02/27/24 23:08	1330-20-7	
cis-1,2-Dichloroethene	10.9	ug/L	5.0	5		02/27/24 23:08	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		02/27/24 23:08	10061-01-5	
m&p-Xylene	ND	ug/L	10.0	5		02/27/24 23:08	179601-23-1	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-31-022024** Lab ID: **10684450008** Collected: 02/20/24 09:23 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	6.8	ug/L	5.0	5		02/27/24 23:08	104-51-8	
n-Propylbenzene	21.3	ug/L	5.0	5		02/27/24 23:08	103-65-1	
o-Xylene	ND	ug/L	5.0	5		02/27/24 23:08	95-47-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		02/27/24 23:08	99-87-6	
sec-Butylbenzene	7.2	ug/L	5.0	5		02/27/24 23:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		02/27/24 23:08	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		02/27/24 23:08	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		02/27/24 23:08	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	5		02/27/24 23:08	2199-69-1	D1
4-Bromofluorobenzene (S)	101	%.	75-125	5		02/27/24 23:08	460-00-4	
Toluene-d8 (S)	102	%.	75-125	5		02/27/24 23:08	2037-26-5	
Wet Chemistry 3500Fe B-2011		Analytical Method: SM 3500-Fe B Preparation Method: 3500Fe B-2011 Pace National - Mt. Juliet						
Iron, Ferrous	1.78	mg/L	1.25	25	02/22/24 19:22	02/22/24 19:22	15438-31-0	H3
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis						
Alkalinity, Total as CaCO3	531000	ug/L	5000	1		02/28/24 15:15		
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis						
Nitrate as N	ND	ug/L	100	1		02/22/24 02:30	14797-55-8	
Sulfate	ND	ug/L	1200	1		02/22/24 02:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: WG-2510-FD-02-022024	Lab ID: 10684450009	Collected: 02/20/24 09:28	Received: 02/21/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 GCV Headspace								
Analytical Method: RSK 175								
Pace Analytical Services - Minneapolis								
Methane	9580	ug/L	10.0	1		02/21/24 15:03	74-82-8	
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	429	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	90-12-0	
2-Methylnaphthalene	605	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	91-57-6	
Acenaphthene	22.7	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	83-32-9	
Acenaphthylene	6.0	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	208-96-8	
Anthracene	8.9	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	120-12-7	
Benzo(a)anthracene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	56-55-3	
Benzo(a)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	205-99-2	
Benzo(e)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	207-08-9	
Chrysene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	53-70-3	
Fluoranthene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	206-44-0	
Fluorene	37.6	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	193-39-5	
Naphthalene	201	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	91-20-3	
Phenanthrene	72.2	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	85-01-8	
Pyrene	5.2	ug/L	3.8	100	02/22/24 12:10	02/27/24 18:45	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	0	%.	44-140	100	02/22/24 12:10	02/27/24 18:45	321-60-8	D2,S8
p-Terphenyl-d14 (S)	161	%.	45-133	100	02/22/24 12:10	02/27/24 18:45	1718-51-0	S8
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 21:31	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 21:31	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 21:31	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 21:31	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 21:31	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 21:31	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 21:31	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:31	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:31	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 21:31	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:31	120-82-1	
1,2,4-Trimethylbenzene	3.7	ug/L	1.0	1		02/27/24 21:31	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 21:31	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 21:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:31	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 21:31	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:31	78-87-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-FD-02-022024** Lab ID: **10684450009** Collected: 02/20/24 09:28 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 21:31	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:31	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:31	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:31	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:31	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 21:31	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 21:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 21:31	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 21:31	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 21:31	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 21:31	107-05-1	
Benzene	40.9	ug/L	1.0	1		02/27/24 21:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 21:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 21:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 21:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 21:31	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 21:31	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 21:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 21:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 21:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 21:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 21:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 21:31	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 21:31	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 21:31	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 21:31	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 21:31	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 21:31	60-29-7	
Ethylbenzene	126	ug/L	1.0	1		02/27/24 21:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 21:31	87-68-3	
Isopropylbenzene (Cumene)	49.9	ug/L	1.0	1		02/27/24 21:31	98-82-8	
Methyl-tert-butyl ether	26.0	ug/L	1.0	1		02/27/24 21:31	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 21:31	75-09-2	
Naphthalene	209	ug/L	2.0	2		02/29/24 17:27	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 21:31	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 21:31	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 21:31	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 21:31	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 21:31		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 21:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 21:31	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 21:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 21:31	1330-20-7	
cis-1,2-Dichloroethene	10.9	ug/L	1.0	1		02/27/24 21:31	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:31	10061-01-5	
m&p-Xylene	2.1	ug/L	2.0	1		02/27/24 21:31	179601-23-1	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: WG-2510-FD-02-022024	Lab ID: 10684450009	Collected: 02/20/24 09:28	Received: 02/21/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV								
Analytical Method: EPA 8260D								
Pace Analytical Services - Minneapolis								
n-Butylbenzene	61.3	ug/L	1.0	1		02/27/24 21:31	104-51-8	
n-Propylbenzene	78.5	ug/L	1.0	1		02/27/24 21:31	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 21:31	95-47-6	
p-Isopropyltoluene	20.4	ug/L	1.0	1		02/27/24 21:31	99-87-6	
sec-Butylbenzene	53.6	ug/L	1.0	1		02/27/24 21:31	135-98-8	
tert-Butylbenzene	1.4	ug/L	1.0	1		02/27/24 21:31	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 21:31	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:31	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125	1		02/27/24 21:31	2199-69-1	
4-Bromofluorobenzene (S)	107	%.	75-125	1		02/27/24 21:31	460-00-4	
Toluene-d8 (S)	104	%.	75-125	1		02/27/24 21:31	2037-26-5	
Wet Chemistry 3500Fe B-2011								
Analytical Method: SM 3500-Fe B Preparation Method: 3500Fe B-2011								
Pace National - Mt. Juliet								
Iron, Ferrous	1.69	mg/L	1.25	25	02/22/24 19:24	02/22/24 19:24	15438-31-0	H3
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	532000	ug/L	5000	1		02/28/24 15:32		
300.0 IC Anions								
Analytical Method: EPA 300.0								
Pace Analytical Services - Minneapolis								
Nitrate as N	ND	ug/L	100	1		02/22/24 02:44	14797-55-8	
Sulfate	ND	ug/L	1200	1		02/22/24 02:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-40-022024** Lab ID: **10684450010** Collected: 02/20/24 12:28 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	0.16	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	90-12-0	
2-Methylnaphthalene	0.23	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	91-57-6	
Acenaphthene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	83-32-9	
Acenaphthylene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	208-96-8	
Anthracene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	205-99-2	
Benzo(e)pyrene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	207-08-9	
Chrysene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	53-70-3	
Fluoranthene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	206-44-0	
Fluorene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	193-39-5	
Naphthalene	0.089	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	91-20-3	
Phenanthrene	0.057	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	85-01-8	
Pyrene	ND	ug/L	0.039	1	02/22/24 12:10	02/27/24 19:10	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	102	%.	44-140	1	02/22/24 12:10	02/27/24 19:10	321-60-8	
p-Terphenyl-d14 (S)	97	%.	45-133	1	02/22/24 12:10	02/27/24 19:10	1718-51-0	

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 21:47	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 21:47	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 21:47	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 21:47	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 21:47	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 21:47	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 21:47	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:47	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:47	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 21:47	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:47	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 21:47	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 21:47	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 21:47	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:47	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 21:47	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:47	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 21:47	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:47	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:47	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:47	106-46-7	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-40-022024** Lab ID: **10684450010** Collected: 02/20/24 12:28 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:47	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 21:47	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 21:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 21:47	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 21:47	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 21:47	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 21:47	107-05-1	
Benzene	ND	ug/L	1.0	1		02/27/24 21:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 21:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 21:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 21:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 21:47	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 21:47	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 21:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 21:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 21:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 21:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 21:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 21:47	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 21:47	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 21:47	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 21:47	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 21:47	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 21:47	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/27/24 21:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 21:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/27/24 21:47	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/24 21:47	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 21:47	75-09-2	
Naphthalene	3.0	ug/L	1.0	1		02/27/24 21:47	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 21:47	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 21:47	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 21:47	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 21:47	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 21:47		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 21:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 21:47	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 21:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 21:47	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 21:47	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:47	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 21:47	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/27/24 21:47	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/27/24 21:47	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 21:47	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 21:47	99-87-6	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-40-022024** Lab ID: **10684450010** Collected: 02/20/24 12:28 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	ND	ug/L	1.0	1		02/27/24 21:47	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 21:47	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 21:47	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:47	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125	1		02/27/24 21:47	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125	1		02/27/24 21:47	460-00-4	
Toluene-d8 (S)	105	%.	75-125	1		02/27/24 21:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-38-022024** Lab ID: **10684450011** Collected: 02/20/24 12:58 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 GCV Headspace		Analytical Method: RSK 175 Pace Analytical Services - Minneapolis						
Methane	3630	ug/L	10.0	1		02/21/24 15:14	74-82-8	
8270D MSSV PAH by SIM LV		Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511 Pace Analytical Services - Minneapolis						
1-Methylnaphthalene	0.66	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	90-12-0	
2-Methylnaphthalene	0.84	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	91-57-6	
Acenaphthene	0.067	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	83-32-9	
Acenaphthylene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	208-96-8	
Anthracene	0.053	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	205-99-2	
Benzo(e)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	192-97-2	
Benzo(g,h,i)perylene	0.044	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	207-08-9	
Chrysene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	53-70-3	
Fluoranthene	0.040	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	206-44-0	
Fluorene	0.089	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	193-39-5	
Naphthalene	1.6	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	91-20-3	
Phenanthrene	0.076	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	85-01-8	
Pyrene	0.094	ug/L	0.038	1	02/22/24 12:10	02/27/24 19:35	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	97	%.	44-140	1	02/22/24 12:10	02/27/24 19:35	321-60-8	
p-Terphenyl-d14 (S)	106	%.	45-133	1	02/22/24 12:10	02/27/24 19:35	1718-51-0	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 22:03	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 22:03	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 22:03	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 22:03	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 22:03	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 22:03	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 22:03	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 22:03	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 22:03	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 22:03	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 22:03	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 22:03	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 22:03	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 22:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 22:03	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 22:03	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 22:03	78-87-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-38-022024** Lab ID: **10684450011** Collected: 02/20/24 12:58 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 22:03	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 22:03	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 22:03	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 22:03	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 22:03	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 22:03	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 22:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 22:03	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 22:03	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 22:03	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 22:03	107-05-1	
Benzene	1.5	ug/L	1.0	1		02/27/24 22:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 22:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 22:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 22:03	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 22:03	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 22:03	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 22:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 22:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 22:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 22:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 22:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 22:03	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 22:03	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 22:03	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 22:03	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 22:03	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 22:03	60-29-7	
Ethylbenzene	2.7	ug/L	1.0	1		02/27/24 22:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 22:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/27/24 22:03	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/24 22:03	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 22:03	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/27/24 22:03	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 22:03	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 22:03	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 22:03	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 22:03	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 22:03		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 22:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 22:03	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 22:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 22:03	1330-20-7	
cis-1,2-Dichloroethene	2.9	ug/L	1.0	1		02/27/24 22:03	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 22:03	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 22:03	179601-23-1	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-38-022024** Lab ID: **10684450011** Collected: 02/20/24 12:58 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
n-Butylbenzene	ND	ug/L	1.0	1		02/27/24 22:03	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/27/24 22:03	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 22:03	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 22:03	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		02/27/24 22:03	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 22:03	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 22:03	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 22:03	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		02/27/24 22:03	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125	1		02/27/24 22:03	460-00-4	
Toluene-d8 (S)	101	%.	75-125	1		02/27/24 22:03	2037-26-5	
Wet Chemistry 3500Fe B-2011		Analytical Method: SM 3500-Fe B Preparation Method: 3500Fe B-2011 Pace National - Mt. Juliet						
Iron, Ferrous	6.29	mg/L	1.25	25	02/22/24 19:24	02/22/24 19:24	15438-31-0	H3
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Minneapolis						
Alkalinity, Total as CaCO3	78100	ug/L	5000	1		02/28/24 15:48		
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis						
Nitrate as N	ND	ug/L	100	1		02/22/24 02:57	14797-55-8	
Sulfate	ND	ug/L	1200	1		02/22/24 02:57	14808-79-8	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-44-022024** Lab ID: **10684450012** Collected: 02/20/24 13:27 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 GCV Headspace		Analytical Method: RSK 175 Pace Analytical Services - Minneapolis						
Methane	2670	ug/L	10.0	1		02/21/24 14:06	74-82-8	M3
8270D MSSV PAH by SIM LV		Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511 Pace Analytical Services - Minneapolis						
1-Methylnaphthalene	0.42	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	90-12-0	
2-Methylnaphthalene	0.096	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	91-57-6	
Acenaphthene	8.2	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	83-32-9	M1
Acenaphthylene	1.3	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	208-96-8	
Anthracene	0.89	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	205-99-2	
Benzo(e)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	207-08-9	
Chrysene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	53-70-3	
Fluoranthene	0.060	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	206-44-0	
Fluorene	4.9	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	193-39-5	
Naphthalene	0.73	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	91-20-3	
Phenanthrene	ND	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	85-01-8	
Pyrene	0.21	ug/L	0.038	1	02/22/24 12:10	02/27/24 20:00	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	96	%.	44-140	1	02/22/24 12:10	02/27/24 20:00	321-60-8	
p-Terphenyl-d14 (S)	109	%.	45-133	1	02/22/24 12:10	02/27/24 20:00	1718-51-0	
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/29/24 17:44	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/29/24 17:44	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/29/24 17:44	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/29/24 17:44	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/29/24 17:44	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/29/24 17:44	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/29/24 17:44	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/29/24 17:44	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:44	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/29/24 17:44	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:44	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/29/24 17:44	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/29/24 17:44	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/29/24 17:44	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:44	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/29/24 17:44	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/29/24 17:44	78-87-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-MW-22-44-022024** Lab ID: **10684450012** Collected: 02/20/24 13:27 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/29/24 17:44	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:44	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/29/24 17:44	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:44	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/29/24 17:44	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/29/24 17:44	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/29/24 17:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/29/24 17:44	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/29/24 17:44	108-10-1	
Acetone	ND	ug/L	10.0	1		02/29/24 17:44	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/29/24 17:44	107-05-1	
Benzene	ND	ug/L	1.0	1		02/29/24 17:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/29/24 17:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/29/24 17:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/29/24 17:44	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/29/24 17:44	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/29/24 17:44	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/29/24 17:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/29/24 17:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/29/24 17:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/29/24 17:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/29/24 17:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/29/24 17:44	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/29/24 17:44	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/29/24 17:44	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/29/24 17:44	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/29/24 17:44	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/29/24 17:44	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/29/24 17:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/29/24 17:44	87-68-3	
Isopropylbenzene (Cumene)	1.2	ug/L	1.0	1		02/29/24 17:44	98-82-8	
Methyl-tert-butyl ether	12.8	ug/L	1.0	1		02/29/24 17:44	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/29/24 17:44	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/29/24 17:44	91-20-3	
Styrene	ND	ug/L	1.0	1		02/29/24 17:44	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/29/24 17:44	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/29/24 17:44	109-99-9	
Toluene	ND	ug/L	1.0	1		02/29/24 17:44	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/29/24 17:44		PN2
Trichloroethene	ND	ug/L	1.0	1		02/29/24 17:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/29/24 17:44	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/29/24 17:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/29/24 17:44	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/29/24 17:44	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/29/24 17:44	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/29/24 17:44	179601-23-1	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: WG-2510-MW-22-44-022024	Lab ID: 10684450012	Collected: 02/20/24 13:27	Received: 02/21/24 08:50	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
n-Butylbenzene	ND	ug/L	1.0	1		02/29/24 17:44	104-51-8		
n-Propylbenzene	ND	ug/L	1.0	1		02/29/24 17:44	103-65-1		
o-Xylene	ND	ug/L	1.0	1		02/29/24 17:44	95-47-6		
p-Isopropyltoluene	ND	ug/L	1.0	1		02/29/24 17:44	99-87-6		
sec-Butylbenzene	1.1	ug/L	1.0	1		02/29/24 17:44	135-98-8		
tert-Butylbenzene	ND	ug/L	1.0	1		02/29/24 17:44	98-06-6		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/29/24 17:44	156-60-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/29/24 17:44	10061-02-6		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125	1		02/29/24 17:44	2199-69-1		
4-Bromofluorobenzene (S)	101	%.	75-125	1		02/29/24 17:44	460-00-4		
Toluene-d8 (S)	101	%.	75-125	1		02/29/24 17:44	2037-26-5		
Wet Chemistry 3500Fe B-2011									
Analytical Method: SM 3500-Fe B Preparation Method: 3500Fe B-2011									
Pace National - Mt. Juliet									
Iron, Ferrous	5.03	mg/L	0.500	10	02/22/24 19:24	02/22/24 19:24	15438-31-0	H3	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Minneapolis									
Alkalinity, Total as CaCO3	602000	ug/L	5000	1		02/28/24 15:53		M1	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Minneapolis									
Nitrate as N	ND	ug/L	100	1	02/22/24 03:11		14797-55-8		
Sulfate	80200	ug/L	2400	2	02/22/24 04:31		14808-79-8		

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-FB-01-022024** Lab ID: **10684450013** Collected: 02/20/24 16:00 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 20:09	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 20:09	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 20:09	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 20:09	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 20:09	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 20:09	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:09	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:09	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:09	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 20:09	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:09	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 20:09	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 20:09	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 20:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:09	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 20:09	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:09	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 20:09	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:09	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:09	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 20:09	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 20:09	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 20:09	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 20:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 20:09	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 20:09	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 20:09	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 20:09	107-05-1	
Benzene	ND	ug/L	1.0	1		02/27/24 20:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 20:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 20:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 20:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 20:09	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 20:09	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 20:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 20:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 20:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 20:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 20:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 20:09	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 20:09	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 20:09	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 20:09	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 20:09	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 20:09	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/27/24 20:09	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Sample: **WG-2510-FB-01-022024** Lab ID: **10684450013** Collected: 02/20/24 16:00 Received: 02/21/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 20:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/27/24 20:09	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/24 20:09	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 20:09	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/27/24 20:09	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 20:09	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 20:09	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 20:09	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 20:09	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 20:09		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 20:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 20:09	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 20:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 20:09	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:09	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:09	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 20:09	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:09	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/27/24 20:09	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 20:09	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 20:09	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 20:09	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 20:09	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 20:09	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	101	%	75-125	1		02/27/24 20:09	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125	1		02/27/24 20:09	460-00-4	
Toluene-d8 (S)	104	%	75-125	1		02/27/24 20:09	2037-26-5	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

QC Batch:	932863	Analysis Method:	RSK 175
QC Batch Method:	RSK 175	Analysis Description:	RSK 175 GCV HEADSPACE
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684450007, 10684450008, 10684450009, 10684450011, 10684450012

METHOD BLANK: 4891262 Matrix: Water
 Associated Lab Samples: 10684450007, 10684450008, 10684450009, 10684450011, 10684450012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	02/21/24 13:55	

LABORATORY CONTROL SAMPLE & LCSD: 4891263 4891264

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	59.7	58.1	98	96	85-115	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4891265 4891266

Parameter	Units	10684450012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	2670	60.7	60.7	2280	2420	-656	-417	30-150	6	20	M3

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

QC Batch: 933715 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684450001, 10684450002, 10684450004, 10684450005, 10684450006, 10684450007, 10684450008, 10684450009, 10684450010, 10684450011, 10684450013

METHOD BLANK: 4894786 Matrix: Water

Associated Lab Samples: 10684450001, 10684450002, 10684450004, 10684450005, 10684450006, 10684450007, 10684450008, 10684450009, 10684450010, 10684450011, 10684450013

Table with 6 columns: Parameter, Units, Blank Result, Reporting Limit, Analyzed, Qualifiers. Lists various chemical compounds and their analysis results.

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

METHOD BLANK: 4894786

Matrix: Water

Associated Lab Samples: 10684450001, 10684450002, 10684450004, 10684450005, 10684450006, 10684450007, 10684450008, 10684450009, 10684450010, 10684450011, 10684450013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	1.0	02/27/24 19:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/27/24 19:21	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/27/24 19:21	
Dibromochloromethane	ug/L	ND	1.0	02/27/24 19:21	
Dibromomethane	ug/L	ND	1.0	02/27/24 19:21	
Dichlorodifluoromethane	ug/L	ND	1.0	02/27/24 19:21	
Dichlorofluoromethane	ug/L	ND	1.0	02/27/24 19:21	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	02/27/24 19:21	
Ethylbenzene	ug/L	ND	1.0	02/27/24 19:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/27/24 19:21	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/27/24 19:21	
m&p-Xylene	ug/L	ND	2.0	02/27/24 19:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/27/24 19:21	
Methylene Chloride	ug/L	ND	1.0	02/27/24 19:21	
n-Butylbenzene	ug/L	ND	1.0	02/27/24 19:21	
n-Propylbenzene	ug/L	ND	1.0	02/27/24 19:21	
Naphthalene	ug/L	ND	1.0	02/27/24 19:21	
o-Xylene	ug/L	ND	1.0	02/27/24 19:21	
p-Isopropyltoluene	ug/L	ND	1.0	02/27/24 19:21	
sec-Butylbenzene	ug/L	ND	1.0	02/27/24 19:21	
Styrene	ug/L	ND	1.0	02/27/24 19:21	
tert-Butylbenzene	ug/L	ND	1.0	02/27/24 19:21	
Tetrachloroethene	ug/L	ND	1.0	02/27/24 19:21	
Tetrahydrofuran	ug/L	ND	10.0	02/27/24 19:21	
Toluene	ug/L	ND	1.0	02/27/24 19:21	
Total 1,3-Dichloropropene	ug/L	ND	2.0	02/27/24 19:21	PN2
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/27/24 19:21	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/27/24 19:21	
Trichloroethene	ug/L	ND	1.0	02/27/24 19:21	
Trichlorofluoromethane	ug/L	ND	1.0	02/27/24 19:21	
Vinyl chloride	ug/L	ND	1.0	02/27/24 19:21	
Xylene (Total)	ug/L	ND	3.0	02/27/24 19:21	
1,2-Dichlorobenzene-d4 (S)	%	101	75-125	02/27/24 19:21	
4-Bromofluorobenzene (S)	%	102	75-125	02/27/24 19:21	
Toluene-d8 (S)	%	104	75-125	02/27/24 19:21	

LABORATORY CONTROL SAMPLE & LCSD: 4894787

4894788

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.1	17.9	90	90	75-125	1	20	
1,1,1-Trichloroethane	ug/L	20	18.7	18.5	94	93	75-125	1	20	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	17.7	88	88	75-131	0	20	
1,1,2-Trichloroethane	ug/L	20	18.6	18.4	93	92	75-125	1	20	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

LABORATORY CONTROL SAMPLE & LCSD: 4894787

4894788

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.2	20.4	101	102	75-125	1	20	
1,1-Dichloroethane	ug/L	20	19.0	18.7	95	93	75-125	2	20	
1,1-Dichloroethene	ug/L	20	20.1	19.7	100	99	75-125	2	20	
1,1-Dichloropropene	ug/L	20	21.3	20.5	107	103	75-125	4	20	
1,2,3-Trichlorobenzene	ug/L	20	18.4	17.9	92	89	68-125	3	20	
1,2,3-Trichloropropane	ug/L	20	17.8	17.5	89	87	75-125	2	20	
1,2,4-Trichlorobenzene	ug/L	20	18.1	17.6	91	88	68-125	3	20	
1,2,4-Trimethylbenzene	ug/L	20	19.9	19.3	99	96	75-125	3	20	
1,2-Dibromo-3-chloropropane	ug/L	20	16.9	16.9	85	85	70-125	0	20	
1,2-Dibromoethane (EDB)	ug/L	20	17.8	17.6	89	88	75-125	1	20	
1,2-Dichlorobenzene	ug/L	20	17.4	17.3	87	86	73-125	1	20	
1,2-Dichloroethane	ug/L	20	17.3	17.2	87	86	75-125	1	20	
1,2-Dichloropropane	ug/L	20	19.4	19.2	97	96	75-125	1	20	
1,3,5-Trimethylbenzene	ug/L	20	19.8	19.3	99	97	75-125	2	20	
1,3-Dichlorobenzene	ug/L	20	18.2	17.5	91	88	75-125	4	20	
1,3-Dichloropropane	ug/L	20	18.6	18.6	93	93	75-125	0	20	
1,4-Dichlorobenzene	ug/L	20	17.5	17.1	87	86	75-125	2	20	
2,2-Dichloropropane	ug/L	20	17.8	17.3	89	86	67-125	3	20	
2-Butanone (MEK)	ug/L	100	79.8	78.4	80	78	72-125	2	20	
2-Chlorotoluene	ug/L	20	19.1	18.6	95	93	74-125	3	20	
4-Chlorotoluene	ug/L	20	19.0	18.7	95	94	75-125	1	20	
4-Methyl-2-pentanone (MIBK)	ug/L	100	85.2	84.6	85	85	75-125	1	20	
Acetone	ug/L	100	74.9	73.5	75	73	71-125	2	20	
Allyl chloride	ug/L	20	16.9	16.8	84	84	75-125	1	20	
Benzene	ug/L	20	19.2	18.7	96	94	75-125	3	20	
Bromobenzene	ug/L	20	18.1	17.5	90	87	75-125	3	20	
Bromochloromethane	ug/L	20	16.5	16.5	83	83	75-125	0	20	
Bromodichloromethane	ug/L	20	18.8	18.3	94	91	75-125	3	20	
Bromoform	ug/L	20	18.9	19.0	95	95	72-125	0	20	
Bromomethane	ug/L	20	18.9	17.8	94	89	63-125	6	20	
Carbon disulfide	ug/L	20	19.5	19.3	98	97	74-125	1	20	
Carbon tetrachloride	ug/L	20	20.8	20.6	104	103	75-125	1	20	
Chlorobenzene	ug/L	20	18.3	18.1	91	91	75-125	1	20	
Chloroethane	ug/L	20	18.5	18.1	92	90	65-140	2	20	
Chloroform	ug/L	20	18.6	18.4	93	92	75-125	1	20	
Chloromethane	ug/L	20	17.7	16.7	89	84	72-127	6	20	
cis-1,2-Dichloroethene	ug/L	20	18.1	17.9	91	89	75-125	1	20	
cis-1,3-Dichloropropene	ug/L	20	18.3	18.0	91	90	75-125	1	20	
Dibromochloromethane	ug/L	20	17.5	17.8	88	89	75-125	2	20	
Dibromomethane	ug/L	20	16.7	16.3	84	81	75-125	3	20	
Dichlorodifluoromethane	ug/L	20	18.3	17.1	91	86	56-146	6	20	
Dichlorofluoromethane	ug/L	20	17.3	16.3	86	81	75-125	6	20	
Diethyl ether (Ethyl ether)	ug/L	20	18.9	18.8	94	94	75-126	0	20	
Ethylbenzene	ug/L	20	19.4	19.2	97	96	75-125	1	20	
Hexachloro-1,3-butadiene	ug/L	20	19.3	19.6	97	98	59-125	1	20	
Isopropylbenzene (Cumene)	ug/L	20	19.9	19.8	100	99	75-125	0	20	
m&p-Xylene	ug/L	40	39.1	38.8	98	97	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

LABORATORY CONTROL SAMPLE & LCSD: 4894787

4894788

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/L	20	18.8	18.5	94	92	75-125	1	20	
Methylene Chloride	ug/L	20	18.1	17.7	90	89	73-125	2	20	
n-Butylbenzene	ug/L	20	18.8	18.3	94	91	75-125	3	20	
n-Propylbenzene	ug/L	20	19.9	19.5	99	98	75-125	2	20	
Naphthalene	ug/L	20	18.3	18.0	91	90	65-130	2	20	
o-Xylene	ug/L	20	19.6	19.3	98	97	75-125	1	20	
p-Isopropyltoluene	ug/L	20	20.2	19.8	101	99	74-125	2	20	
sec-Butylbenzene	ug/L	20	20.0	19.4	100	97	75-125	3	20	
Styrene	ug/L	20	19.1	18.8	96	94	75-125	2	20	
tert-Butylbenzene	ug/L	20	20.0	19.4	100	97	75-125	3	20	
Tetrachloroethene	ug/L	20	19.2	19.6	96	98	75-125	2	20	
Tetrahydrofuran	ug/L	100	83.3	84.4	83	84	75-125	1	20	
Toluene	ug/L	20	18.1	17.9	91	90	75-125	1	20	
Total 1,3-Dichloropropene	ug/L	40	35.8	35.3	89	88	75-125	1	20	PN2
trans-1,2-Dichloroethene	ug/L	20	18.4	18.8	92	94	75-125	2	20	
trans-1,3-Dichloropropene	ug/L	20	17.5	17.3	88	86	75-125	1	20	
Trichloroethene	ug/L	20	18.7	19.0	94	95	75-125	2	20	
Trichlorofluoromethane	ug/L	20	17.7	16.9	89	85	75-128	5	20	
Vinyl chloride	ug/L	20	17.9	17.1	89	85	69-130	5	20	
Xylene (Total)	ug/L	60	58.7	58.1	98	97	75-125	1	20	
1,2-Dichlorobenzene-d4 (S)	%				101	100	75-125			
4-Bromofluorobenzene (S)	%				100	101	75-125			
Toluene-d8 (S)	%				98	98	75-125			

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

QC Batch: 934105

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684450003, 10684450009, 10684450012

METHOD BLANK: 4896095

Matrix: Water

Associated Lab Samples: 10684450003, 10684450009, 10684450012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1-Dichloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1-Dichloroethene	ug/L	ND	1.0	02/29/24 15:50	
1,1-Dichloropropene	ug/L	ND	1.0	02/29/24 15:50	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
1,2,3-Trichloropropane	ug/L	ND	2.5	02/29/24 15:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/29/24 15:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	02/29/24 15:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/29/24 15:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
1,2-Dichloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,2-Dichloropropane	ug/L	ND	1.0	02/29/24 15:50	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/29/24 15:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
1,3-Dichloropropane	ug/L	ND	1.0	02/29/24 15:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
2,2-Dichloropropane	ug/L	ND	1.0	02/29/24 15:50	
2-Butanone (MEK)	ug/L	ND	10.0	02/29/24 15:50	
2-Chlorotoluene	ug/L	ND	1.0	02/29/24 15:50	
4-Chlorotoluene	ug/L	ND	1.0	02/29/24 15:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/29/24 15:50	
Acetone	ug/L	ND	10.0	02/29/24 15:50	
Allyl chloride	ug/L	ND	2.5	02/29/24 15:50	
Benzene	ug/L	ND	1.0	02/29/24 15:50	
Bromobenzene	ug/L	ND	1.0	02/29/24 15:50	
Bromochloromethane	ug/L	ND	1.0	02/29/24 15:50	
Bromodichloromethane	ug/L	ND	1.0	02/29/24 15:50	
Bromoform	ug/L	ND	1.0	02/29/24 15:50	
Bromomethane	ug/L	ND	2.5	02/29/24 15:50	
Carbon disulfide	ug/L	ND	1.0	02/29/24 15:50	
Carbon tetrachloride	ug/L	ND	1.0	02/29/24 15:50	
Chlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
Chloroethane	ug/L	ND	1.0	02/29/24 15:50	
Chloroform	ug/L	ND	1.0	02/29/24 15:50	
Chloromethane	ug/L	ND	1.0	02/29/24 15:50	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

METHOD BLANK: 4896095 Matrix: Water

Associated Lab Samples: 10684450003, 10684450009, 10684450012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/29/24 15:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/29/24 15:50	
Dibromochloromethane	ug/L	ND	1.0	02/29/24 15:50	
Dibromomethane	ug/L	ND	1.0	02/29/24 15:50	
Dichlorodifluoromethane	ug/L	ND	1.0	02/29/24 15:50	
Dichlorofluoromethane	ug/L	ND	1.0	02/29/24 15:50	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	02/29/24 15:50	
Ethylbenzene	ug/L	ND	1.0	02/29/24 15:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/29/24 15:50	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/29/24 15:50	
m&p-Xylene	ug/L	ND	2.0	02/29/24 15:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/29/24 15:50	
Methylene Chloride	ug/L	ND	1.0	02/29/24 15:50	
n-Butylbenzene	ug/L	ND	1.0	02/29/24 15:50	
n-Propylbenzene	ug/L	ND	1.0	02/29/24 15:50	
Naphthalene	ug/L	ND	1.0	02/29/24 15:50	
o-Xylene	ug/L	ND	1.0	02/29/24 15:50	
p-Isopropyltoluene	ug/L	ND	1.0	02/29/24 15:50	
sec-Butylbenzene	ug/L	ND	1.0	02/29/24 15:50	
Styrene	ug/L	ND	1.0	02/29/24 15:50	
tert-Butylbenzene	ug/L	ND	1.0	02/29/24 15:50	
Tetrachloroethene	ug/L	ND	1.0	02/29/24 15:50	
Tetrahydrofuran	ug/L	ND	10.0	02/29/24 15:50	
Toluene	ug/L	ND	1.0	02/29/24 15:50	
Total 1,3-Dichloropropene	ug/L	ND	2.0	02/29/24 15:50	PN2
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/29/24 15:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/29/24 15:50	
Trichloroethene	ug/L	ND	1.0	02/29/24 15:50	
Trichlorofluoromethane	ug/L	ND	1.0	02/29/24 15:50	
Vinyl chloride	ug/L	ND	1.0	02/29/24 15:50	
Xylene (Total)	ug/L	ND	3.0	02/29/24 15:50	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	02/29/24 15:50	
4-Bromofluorobenzene (S)	%	100	75-125	02/29/24 15:50	
Toluene-d8 (S)	%	102	75-125	02/29/24 15:50	

LABORATORY CONTROL SAMPLE: 4896096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	98	75-125	
1,1,1-Trichloroethane	ug/L	20	19.4	97	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	75-131	
1,1,2-Trichloroethane	ug/L	20	20.4	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.6	103	75-125	
1,1-Dichloroethane	ug/L	20	19.9	99	75-125	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

LABORATORY CONTROL SAMPLE: 4896096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	20.7	103	75-125	
1,1-Dichloropropene	ug/L	20	22.5	113	75-125	
1,2,3-Trichlorobenzene	ug/L	20	18.9	94	68-125	
1,2,3-Trichloropropane	ug/L	20	19.8	99	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.4	92	68-125	
1,2,4-Trimethylbenzene	ug/L	20	20.2	101	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.5	97	70-125	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	75-125	
1,2-Dichlorobenzene	ug/L	20	18.0	90	73-125	
1,2-Dichloroethane	ug/L	20	18.5	92	75-125	
1,2-Dichloropropane	ug/L	20	20.4	102	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.5	103	75-125	
1,3-Dichlorobenzene	ug/L	20	18.8	94	75-125	
1,3-Dichloropropane	ug/L	20	20.3	102	75-125	
1,4-Dichlorobenzene	ug/L	20	18.0	90	75-125	
2,2-Dichloropropane	ug/L	20	20.0	100	67-125	
2-Butanone (MEK)	ug/L	100	98.3	98	72-125	
2-Chlorotoluene	ug/L	20	20.0	100	74-125	
4-Chlorotoluene	ug/L	20	20.1	101	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	75-125	
Acetone	ug/L	100	87.7	88	71-125	
Allyl chloride	ug/L	20	18.6	93	75-125	
Benzene	ug/L	20	20.5	103	75-125	
Bromobenzene	ug/L	20	19.1	96	75-125	
Bromochloromethane	ug/L	20	17.1	85	75-125	
Bromodichloromethane	ug/L	20	19.8	99	75-125	
Bromoform	ug/L	20	20.4	102	72-125	
Bromomethane	ug/L	20	16.7	84	63-125	
Carbon disulfide	ug/L	20	20.5	103	74-125	
Carbon tetrachloride	ug/L	20	22.0	110	75-125	
Chlorobenzene	ug/L	20	19.3	97	75-125	
Chloroethane	ug/L	20	21.4	107	65-140	
Chloroform	ug/L	20	19.5	98	75-125	
Chloromethane	ug/L	20	21.7	108	72-127	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	75-125	
Dibromochloromethane	ug/L	20	19.3	97	75-125	
Dibromomethane	ug/L	20	17.7	89	75-125	
Dichlorodifluoromethane	ug/L	20	26.4	132	56-146	
Dichlorofluoromethane	ug/L	20	19.5	97	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	20.1	100	75-126	
Ethylbenzene	ug/L	20	20.5	102	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.1	96	59-125	
Isopropylbenzene (Cumene)	ug/L	20	20.9	105	75-125	
m&p-Xylene	ug/L	40	41.8	104	75-125	
Methyl-tert-butyl ether	ug/L	20	20.6	103	75-125	
Methylene Chloride	ug/L	20	18.9	95	73-125	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

LABORATORY CONTROL SAMPLE: 4896096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/L	20	19.5	97	75-125	
n-Propylbenzene	ug/L	20	21.3	107	75-125	
Naphthalene	ug/L	20	20.1	101	65-130	
o-Xylene	ug/L	20	20.5	103	75-125	
p-Isopropyltoluene	ug/L	20	20.2	101	74-125	
sec-Butylbenzene	ug/L	20	20.7	104	75-125	
Styrene	ug/L	20	19.9	100	75-125	
tert-Butylbenzene	ug/L	20	20.6	103	75-125	
Tetrachloroethene	ug/L	20	20.7	103	75-125	
Tetrahydrofuran	ug/L	100	98.6	99	75-125	
Toluene	ug/L	20	19.2	96	75-125	
Total 1,3-Dichloropropene	ug/L	40	39.4	98	75-125	PN2
trans-1,2-Dichloroethene	ug/L	20	19.8	99	75-125	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	75-125	
Trichloroethene	ug/L	20	20.5	103	75-125	
Trichlorofluoromethane	ug/L	20	20.1	101	75-128	
Vinyl chloride	ug/L	20	21.9	109	69-130	
Xylene (Total)	ug/L	60	62.3	104	75-125	
1,2-Dichlorobenzene-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896097 4896098

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10684450012 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	17.0	17.1	85	85	75-125	0	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20	16.5	16.4	83	82	71-125	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	18.2	18.2	91	91	73-131	0	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	18.1	18.5	90	93	75-126	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	16.6	16.3	83	81	60-131	2	30	
Trichlorotrifluoroethane													
1,1-Dichloroethane	ug/L	ND	20	20	20	17.9	17.9	89	89	75-125	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	20	17.7	17.3	88	86	68-125	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	20	19.1	18.5	96	93	74-125	3	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	15.3	16.4	77	82	68-125	7	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20	17.3	18.3	87	91	74-125	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	15.0	16.0	75	80	68-125	6	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	17.3	17.7	87	88	71-125	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20	17.3	17.8	87	89	70-126	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	16.9	17.3	84	86	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	15.8	16.2	79	81	73-125	3	30	
1,2-Dichloroethane	ug/L	ND	20	20	20	16.7	16.7	83	84	75-125	0	30	
1,2-Dichloropropane	ug/L	ND	20	20	20	18.4	18.2	92	91	75-125	1	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	17.2	17.5	86	87	72-125	1	30	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896097 4896098												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10684450012	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,3-Dichlorobenzene	ug/L	ND	20	20	16.4	16.8	82	84	75-125	2	30	
1,3-Dichloropropane	ug/L	ND	20	20	18.0	18.3	90	92	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.8	16.3	79	81	75-125	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	15.4	15.2	77	76	65-125	1	30	
2-Butanone (MEK)	ug/L	ND	100	100	84.1	88.0	84	88	61-130	5	30	
2-Chlorotoluene	ug/L	ND	20	20	17.3	17.3	87	86	72-125	0	30	
4-Chlorotoluene	ug/L	ND	20	20	17.3	17.6	86	88	75-125	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	92.9	94.1	93	94	75-128	1	30	
Acetone	ug/L	ND	100	100	82.7	81.5	81	80	58-126	1	30	
Allyl chloride	ug/L	ND	20	20	16.5	16.3	83	81	70-125	2	30	
Benzene	ug/L	ND	20	20	18.1	18.0	90	89	73-125	1	30	
Bromobenzene	ug/L	ND	20	20	16.9	16.9	84	85	75-125	1	30	
Bromochloromethane	ug/L	ND	20	20	15.3	15.9	77	79	72-125	3	30	
Bromodichloromethane	ug/L	ND	20	20	17.5	18.0	88	90	75-125	3	30	
Bromoform	ug/L	ND	20	20	17.8	17.9	89	89	72-125	1	30	
Bromomethane	ug/L	ND	20	20	11.7	13.2	57	64	34-125	12	30	
Carbon disulfide	ug/L	ND	20	20	17.8	17.5	89	88	60-125	2	30	
Carbon tetrachloride	ug/L	ND	20	20	18.2	17.9	91	89	73-125	2	30	
Chlorobenzene	ug/L	ND	20	20	17.1	16.9	86	85	75-125	1	30	
Chloroethane	ug/L	ND	20	20	18.7	18.2	94	91	58-143	3	30	
Chloroform	ug/L	ND	20	20	17.4	17.5	87	87	75-125	0	30	
Chloromethane	ug/L	ND	20	20	19.1	18.5	95	93	60-135	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.0	17.1	83	83	75-125	0	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.3	17.6	86	88	75-125	2	30	
Dibromochloromethane	ug/L	ND	20	20	16.9	17.4	84	87	74-125	3	30	
Dibromomethane	ug/L	ND	20	20	15.8	16.2	79	81	73-125	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	19.7	19.3	98	97	37-150	2	30	
Dichlorofluoromethane	ug/L	ND	20	20	16.9	16.4	84	82	72-125	3	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.4	19.2	92	96	75-126	4	30	
Ethylbenzene	ug/L	ND	20	20	17.8	17.5	89	88	71-125	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	12.6	14.1	63	71	56-125	12	30	
Isopropylbenzene (Cumene)	ug/L	1.2	20	20	18.4	18.2	86	85	75-125	1	30	
m&p-Xylene	ug/L	ND	40	40	35.2	34.8	88	87	71-125	1	30	
Methyl-tert-butyl ether	ug/L	12.8	20	20	30.0	30.8	86	90	75-129	3	30	
Methylene Chloride	ug/L	ND	20	20	17.0	17.3	85	87	66-125	2	30	
n-Butylbenzene	ug/L	ND	20	20	16.3	16.9	81	85	71-125	4	30	
n-Propylbenzene	ug/L	ND	20	20	17.8	17.8	89	89	75-125	0	30	
Naphthalene	ug/L	ND	20	20	19.8	20.4	95	98	65-130	3	30	
o-Xylene	ug/L	ND	20	20	17.8	17.5	88	87	73-125	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	17.0	17.6	85	88	74-125	3	30	
sec-Butylbenzene	ug/L	1.1	20	20	17.7	17.9	83	84	73-125	2	30	
Styrene	ug/L	ND	20	20	17.3	17.3	86	87	75-125	0	30	
tert-Butylbenzene	ug/L	ND	20	20	17.0	17.4	84	86	75-125	2	30	
Tetrachloroethene	ug/L	ND	20	20	17.3	17.1	87	85	68-125	1	30	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Parameter	Units	4896097		4896098		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10684450012 Result	MS Spike Conc.	MSD Spike Conc.									
Tetrahydrofuran	ug/L	ND	100	100	89.5	88.5	90	89	69-127	1	30		
Toluene	ug/L	ND	20	20	17.0	17.0	84	84	71-125	0	30		
Total 1,3-Dichloropropene	ug/L	ND	40	40	33.6	34.3	84	86	72-125	2	30	PN2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.9	17.0	85	85	72-125	0	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.3	16.7	82	84	75-125	2	30		
Trichloroethene	ug/L	ND	20	20	17.8	17.3	89	87	75-125	3	30		
Trichlorofluoromethane	ug/L	ND	20	20	16.1	15.7	80	78	55-137	2	30		
Vinyl chloride	ug/L	ND	20	20	17.9	17.7	90	88	53-141	1	30		
Xylene (Total)	ug/L	ND	60	60	52.9	52.3	88	87	72-125	1	30		
1,2-Dichlorobenzene-d4 (S)	%						101	100	75-125				
4-Bromofluorobenzene (S)	%						100	100	75-125				
Toluene-d8 (S)	%						98	98	75-125				

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n
Pace Project No.: 10684450

QC Batch: 933059 Analysis Method: EPA 8270D PAH by SIM
QC Batch Method: EPA 3511 Analysis Description: 8270D PAH by SIM MSSV LV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10684450002, 10684450003, 10684450004, 10684450005, 10684450006, 10684450007, 10684450008, 10684450009, 10684450010, 10684450011, 10684450012

METHOD BLANK: 4892084 Matrix: Water
Associated Lab Samples: 10684450002, 10684450003, 10684450004, 10684450005, 10684450006, 10684450007, 10684450008, 10684450009, 10684450010, 10684450011, 10684450012

Table with 7 columns: Parameter, Units, Blank Result, Reporting Limit, Analyzed, Qualifiers. Lists various PAH compounds and their detection results.

LABORATORY CONTROL SAMPLE: 4892085

Table with 7 columns: Parameter, Units, Spike Conc., LCS Result, LCS % Rec, % Rec Limits, Qualifiers. Shows spike recovery data for various PAH compounds.

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

LABORATORY CONTROL SAMPLE: 4892085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibenz(a,h)anthracene	ug/L	2	1.8	92	42-125	
Fluoranthene	ug/L	2	1.8	91	56-125	
Fluorene	ug/L	2	1.9	97	51-136	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.8	92	41-125	
Naphthalene	ug/L	2	1.6	82	58-125	
Phenanthrene	ug/L	2	1.8	92	63-131	
Pyrene	ug/L	2	1.7	87	62-125	
2-Fluorobiphenyl (S)	%			81	44-140	
p-Terphenyl-d14 (S)	%			91	45-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4892086 4892087

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10684450012 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/L	0.42	1.9	1.9	2.0	2.0	83	84	41-135	0	30	
2-Methylnaphthalene	ug/L	0.096	1.9	1.9	1.8	1.7	88	86	42-135	2	30	
Acenaphthene	ug/L	8.2	1.9	1.9	8.6	9.2	22	50	30-150	6	30	M1
Acenaphthylene	ug/L	1.3	1.9	1.9	2.8	2.9	80	85	41-132	3	30	
Anthracene	ug/L	0.89	1.9	1.9	2.5	2.7	86	93	44-144	5	30	
Benzo(a)anthracene	ug/L	ND	1.9	1.9	1.8	1.7	91	90	50-126	2	30	
Benzo(a)pyrene	ug/L	ND	1.9	1.9	1.7	1.7	89	90	44-125	1	30	
Benzo(b)fluoranthene	ug/L	ND	1.9	1.9	1.6	1.6	85	86	48-125	0	30	
Benzo(e)pyrene	ug/L	ND	1.9	1.9	1.6	1.6	85	86	50-126	1	30	
Benzo(g,h,i)perylene	ug/L	ND	1.9	1.9	1.5	1.5	78	79	44-125	1	30	
Benzo(k)fluoranthene	ug/L	ND	1.9	1.9	1.6	1.6	84	85	46-129	2	30	
Chrysene	ug/L	ND	1.9	1.9	1.7	1.7	89	89	49-128	0	30	
Dibenz(a,h)anthracene	ug/L	ND	1.9	1.9	1.6	1.7	84	87	41-125	4	30	
Fluoranthene	ug/L	0.060	1.9	1.9	1.8	1.8	92	92	49-127	0	30	
Fluorene	ug/L	4.9	1.9	1.9	6.0	6.2	57	67	33-144	3	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.9	1.9	1.5	1.6	79	82	41-125	4	30	
Naphthalene	ug/L	0.73	1.9	1.9	2.2	2.2	79	76	39-131	3	30	
Phenanthrene	ug/L	ND	1.9	1.9	1.7	1.7	91	91	48-137	0	30	
Pyrene	ug/L	0.21	1.9	1.9	1.9	2.0	90	95	47-130	4	30	
2-Fluorobiphenyl (S)	%						81	78	44-140			
p-Terphenyl-d14 (S)	%						91	91	45-133			

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

QC Batch:	2232145	Analysis Method:	SM 3500-Fe B
QC Batch Method:	3500Fe B-2011	Analysis Description:	Wet Chemistry 3500Fe B-2011
		Laboratory:	Pace National - Mt. Juliet
Associated Lab Samples:	10684450007, 10684450008, 10684450009, 10684450011, 10684450012		

METHOD BLANK: R4037307-1 Matrix: Water
 Associated Lab Samples: 10684450007, 10684450008, 10684450009, 10684450011, 10684450012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.0500	02/22/24 19:19	

LABORATORY CONTROL SAMPLE: R4037307-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.00	0.952	95.2	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4037307-4 R4037307-5

Parameter	Units	10684450012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Ferrous	mg/L	5.03	10.0	10.0	14.9	14.8	98.7	97.8	80.0-120	0.592	20	

SAMPLE DUPLICATE: R4037307-3

Parameter	Units	10684450008 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	1.78	1.95	9.13	20	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

QC Batch: 933859 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10684450007, 10684450008, 10684450009, 10684450011, 10684450012

METHOD BLANK: 4895315 Matrix: Water
 Associated Lab Samples: 10684450007, 10684450008, 10684450009, 10684450011, 10684450012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	02/28/24 12:03	

LABORATORY CONTROL SAMPLE & LCSD: 4895316 4895317

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	40000	40200	40500	100	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895318 4895319

Parameter	Units	10685009001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	ug/L	25.4 mg/L	40000	40000	66200	66600	102	103	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895320 4895321

Parameter	Units	10684450012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	ug/L	602000	40000	40000	649000	651000	116	121	80-120	0	20	M1

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

QC Batch: 932918

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684450007, 10684450008, 10684450009, 10684450011, 10684450012

METHOD BLANK: 4891504

Matrix: Water

Associated Lab Samples: 10684450007, 10684450008, 10684450009, 10684450011, 10684450012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	ug/L	ND	100	02/22/24 01:35	
Sulfate	ug/L	ND	1200	02/22/24 01:35	

LABORATORY CONTROL SAMPLE: 4891505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	ug/L	4000	4020	101	90-110	
Sulfate	ug/L	50000	50400	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4891506 4891507

Parameter	Units	10684450012		4891507		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrate as N	ug/L	ND	4000	3860	3780	95	92	80-120	2	20	
Sulfate	ug/L	80200	100000	173000	172000	92	92	80-120	0	20	

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QUALIFIERS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

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 adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10684450007

[1] Wet Chemistry by Method 3500Fe B-2011 - Dilution due to matrix interference

BATCH QUALIFIERS

Batch: 933715

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] The continuing calibration verification was below the method acceptance limit for acetone. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

[2] Bromomethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Batch: 934105

[1] The continuing calibration verification was below the method acceptance limit for acetone. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

[2] The continuing calibration verification was above the method acceptance limit for dichlorodifluoromethane. Any detection for the analyte in the associated samples may have a high bias.

[3] Bromomethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

ANALYTE QUALIFIERS

D1 Sample required dilution due to matrix.

D2 Sample required dilution due to high concentration of target analyte.

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QUALIFIERS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

ANALYTE QUALIFIERS

- H3 Sample was received and analyzed past holding time.
- M1 Matrix spike recovery was high; the associated blank spike recovery was acceptable.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
- PN2 The lab does not hold TNI accreditation for this parameter.
- S8 The analysis of the sample required a dilution such that the surrogate recovery calculation does not provide useful information. The associated blank spike recovery was acceptable.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684450

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10684450007	WG-2510-MW-22-11-022024	RSK 175	932863		
10684450008	WG-2510-MW-22-31-022024	RSK 175	932863		
10684450009	WG-2510-FD-02-022024	RSK 175	932863		
10684450011	WG-2510-MW-22-38-022024	RSK 175	932863		
10684450012	WG-2510-MW-22-44-022024	RSK 175	932863		
10684450002	WG-2510-MW-22-14-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450003	WG-2510-FD-01-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450004	WG-2510-MW-22-37-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450005	WG-2510-MW-22-45-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450006	WG-2510-MW-22-42-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450007	WG-2510-MW-22-11-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450008	WG-2510-MW-22-31-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450009	WG-2510-FD-02-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450010	WG-2510-MW-22-40-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450011	WG-2510-MW-22-38-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450012	WG-2510-MW-22-44-022024	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684450001	WG-2510-TB-01-022024	EPA 8260D	933715		
10684450002	WG-2510-MW-22-14-022024	EPA 8260D	933715		
10684450003	WG-2510-FD-01-022024	EPA 8260D	934105		
10684450004	WG-2510-MW-22-37-022024	EPA 8260D	933715		
10684450005	WG-2510-MW-22-45-022024	EPA 8260D	933715		
10684450006	WG-2510-MW-22-42-022024	EPA 8260D	933715		
10684450007	WG-2510-MW-22-11-022024	EPA 8260D	933715		
10684450008	WG-2510-MW-22-31-022024	EPA 8260D	933715		
10684450009	WG-2510-FD-02-022024	EPA 8260D	933715		
10684450009	WG-2510-FD-02-022024	EPA 8260D	934105		
10684450010	WG-2510-MW-22-40-022024	EPA 8260D	933715		
10684450011	WG-2510-MW-22-38-022024	EPA 8260D	933715		
10684450012	WG-2510-MW-22-44-022024	EPA 8260D	934105		
10684450013	WG-2510-FB-01-022024	EPA 8260D	933715		
10684450007	WG-2510-MW-22-11-022024	3500Fe B-2011	2232145	SM 3500-Fe B	2232145
10684450008	WG-2510-MW-22-31-022024	3500Fe B-2011	2232145	SM 3500-Fe B	2232145
10684450009	WG-2510-FD-02-022024	3500Fe B-2011	2232145	SM 3500-Fe B	2232145
10684450011	WG-2510-MW-22-38-022024	3500Fe B-2011	2232145	SM 3500-Fe B	2232145
10684450012	WG-2510-MW-22-44-022024	3500Fe B-2011	2232145	SM 3500-Fe B	2232145
10684450007	WG-2510-MW-22-11-022024	SM 2320B	933859		
10684450008	WG-2510-MW-22-31-022024	SM 2320B	933859		
10684450009	WG-2510-FD-02-022024	SM 2320B	933859		
10684450011	WG-2510-MW-22-38-022024	SM 2320B	933859		
10684450012	WG-2510-MW-22-44-022024	SM 2320B	933859		
10684450007	WG-2510-MW-22-11-022024	EPA 300.0	932918		
10684450008	WG-2510-MW-22-31-022024	EPA 300.0	932918		
10684450009	WG-2510-FD-02-022024	EPA 300.0	932918		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tucson AZ-Fueling Facility 22n
Pace Project No.: 10684450

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10684450011	WG-2510-MW-22-38-022024	EPA 300.0	932918		
10684450012	WG-2510-MW-22-44-022024	EPA 300.0	932918		

REPORT OF LABORATORY ANALYSIS

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Pace® Location Requested (City/State):
Pace Analytical Minnesota
1700 Elm Street, Suite 200
Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: UPRR_Jacobs
Street Address: 1501 W. Fountainhead Pkwy #401, Tempe, AZ 85282
Customer Project #: Tucson AZ-Fueling Facility 22nd Street
Project Name: Tucson AZ-Fueling Facility 22nd Street
Site Collection Info/Facility ID (as applicable):
Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
[] Level II [] Level III [] Level IV
[] EQUS
[] Other

Contact/Report To: Ramzi Ramzi
Phone #: (480)295-3916
E-Mail: ramzi.ramzi@jacobs.com
Cc E-Mail:
Invoice To: Becky Rewey
Invoice E-Mail: rrewey@up.com
Purchase Order # (if applicable): 2510-10-1Q24-Rev1
Quote #:
County / State origin of sample(s): Arizona

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) HAcOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
Field Filtered (if applicable): [] Yes [] No
Analysis:
* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OI), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **
Identify Container Preservative Type ***
Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine Results	Units
			Date	Time	Date	Time			
WG-2510-TB-01-022024	WT	G			2/20/24	0700	2		
WG-2510-MW-22-14-022024	WT	G			0801	0806	6		
WG-2510-FD-01-022024	WT	G			1201	1135	6		
WG-2510-MW-22-37-022024	WT	G			1113	1041	12		
WG-2510-MW-22-45-022024	WT	G			0923	0928	12		
WG-2510-MW-22-42-022024	WT	G			1218		6		
WG-2510-MW-22-11-022024	WT	G							
WG-2510-MW-22-31-022024	WT	G							
WG-2510-FD-01-022024	WT	G							
WG-2510-MW-22-40-022024	WT	G							

Lab Use Only	Proj. Mgr:	AcctNum / Client ID:	Table #:	Profile / Template:	Prelog / Bottle Ord. ID:	Preservation non-conformance identified for sample
	Jennifer Gross			37095	EZ 3066188	
8260D VOC						001
8270D PAH by SIM LV						002
RSK 175 GCV Headspace						003
SM3500 Fe B Ferrous Iron						004
						005
						006
						007
						008
						009
						010

Additional Instructions from Pace®:
Collected By: Brian Mendoza
Signature: *Brian Mendoza*
Date/Time: 2/20/24-1630
Received by/Company: *Carmel Pole*
Signature: *Carmel Pole*
Date/Time: 2/21/24 8:50
Received by/Company: *[Signature]*
Signature: *[Signature]*
Date/Time: *[Signature]*
Signature: *[Signature]*
Date/Time: *[Signature]*

Customer Remarks / Special Conditions / Possible Hazards:
Coolers: 1 Thermometer ID: -0.1 Correction Factor [°C]: -0.1 Obs. Temp. [°C]: 48 Corrected Temp. [°C]: 4.7 On Ice: Y
Tracking Number:
Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other
Page: 1 of 2

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: UPRR_Jacobs
 Street Address: 1501 W. Fountainhead Pkwy #401, Tempe, AZ 85282

Contact/Report To: Ramzi Ramzi
 Phone #: (480)295-3916
 E-Mail: ramzi.ramzi@jacobs.com
 Cc E-Mail:

Project Name: Tucson AZ-Fueling Facility 22nd Street

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET []

Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other

Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Field Filtered (if applicable): [] Yes [] No

Country / State origin of sample(s): Arizona

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine	Units
			Date	Time	Date	Time			
WG-2510-MW-22-38-022024	WT	G	2/20/24	1258	2/20/24	1258	12		
WG-2510-MW-22-44-022024	WT	G	2/20/24	1327	2/20/24	1327	36		
WG-2510-FB-01-022024	WT	G	2/20/24	1600	2/20/24	1600	2		

Additional Instructions from Pace:

Collected By: **Brian Mendoza**
 Signature: *Brian Mendoza*

Relinquished by/Company: *Bla / BTS* Date/Time: 2/20/24 - 1630
 Relinquished by/Company: *Cara Pace* Date/Time: 2/21/24 8:50
 Relinquished by/Company: _____ Date/Time: _____
 Relinquished by/Company: _____ Date/Time: _____

Customer Remarks / Special Conditions / Possible Hazards:


Coolers: 1 Thermostat ID: 13 Correction Factor (°C): -0.1 Obs. Temp. (°C): 4.8 Corrected Temp. (°C): 4.7 On Ice: Y

Tracking Number: 8:50

Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other

Page: 2 of 2

LAB USE ONLY - Affix Workorder/Login Label Here



Scan QR Code for instructions

Specify Container Size **

Identify Container Preservative Type ***

Analysis Requested

Proj. Mgr: Jennifer Gross
 AcctNum / Client ID:
 Table #:
 Profile / Template: 37095
 Prelog / Bottle Ord. ID: EZ 3066188

Sample Comment: MS/MSD 012
 013

Lab Use Only	2320B Alkalinity: 300.0 Sulfate/Nitrate	8260D VOC	8270D PAH by SIM LV	RSK 175 GCV Headspace	SM3500 Fe B Ferrus Iron
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) Encore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) H2SO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Preservation non-conformance identified for

ENV-FRM-MIN4-0150 v15_Sample Condition Upon Receipt

CLIENT NAME: UPRR Jacobs

PROJECT #:

WO#: 10684450

PM: JMG Due Date: 03/06/24

CLIENT: UPRR_Jacobs

COURIER: Client Commercial FedEx Pace
 Speedee UPS USPS

TRACKING NUMBER: 70481455 8414 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A
Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235) Melted None
 T7 (0042) T8 (0775) T9 (0727) 01339252 (1710)

Did Samples Originate in West Virginia: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Were All Container Temps taken: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Correction Factor: <u>0.1</u> Cooler Temp Read w/Temp Blank: _____ °C	Average Corrected Temp (no Temp Blank Only): <u>4.7</u> °C
Cooler Temp Corrected w/Temp Blank: _____ °C	<input checked="" type="checkbox"/> See Exceptions Form ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: <input checked="" type="checkbox"/> N/A - Water Sample/Other (describe): _____ Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: <input type="checkbox"/> YES <input type="checkbox"/> NO	Initials & Date of Person Examining Contents: <u>CRL 2/21/24</u> Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): <input type="checkbox"/> YES <input type="checkbox"/> NO
--	---

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA	YES	NO	N/A	COMMENT(S)												
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1.												
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		2.												
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.												
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No												
Short Hold Time Analysis (<72 hr)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input checked="" type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____												
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		6.												
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		7.												
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.												
- Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>														
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		9.												
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO												
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>		11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142												
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: <u>VOA</u> Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS <u>AG-2H HCL</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO												
NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.				<table border="1" style="width: 100%; border-collapse: collapse; margin: 5px 0;"> <thead> <tr> <th colspan="4" style="text-align: center;">pH Paper Lot #</th> </tr> <tr> <th style="width: 25%;">Residual Chlorine</th> <th style="width: 25%;">0-6 Roll</th> <th style="width: 25%;">0-6 Strip</th> <th style="width: 25%;">0-14 Strip</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	pH Paper Lot #				Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
pH Paper Lot #																
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip													
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.												
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14.												
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142												
Trip Blanks Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15. <u>2 Hcl</u>												
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pace Trip Blank Lot # (if purchased): <u>454187</u>												

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: YES NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Janni Gross Date: 2/21/24

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

Labeled By: _____ Line: _____

ENV-FRM-MIN4-0142 v03_Sample Condition Upon Receipt - Exceptions

Workorder #: 10684450 (JMG 2/21/24)

No Temp Blank		
Read Temp	Corrected Temp	Average temp
5.4	5.3	4.7
5.0	4.9	
5.5	5.4	
3.2	3.1	

PM Notified of Out of Temp Cooler? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, indicate who was contacted, date and time. If no, indicate reason why.
Multiple Cooler Project? <input type="checkbox"/> YES <input type="checkbox"/> NO

If anything is OVER 6.0°C, you **MUST** document containers in this section **HERE**



Tracking Number	Temperature



Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								YES	NO	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

Internal Transfer Chain of Custody

B034



Rush Multiplier X
 Samples Pre-Logged into eCOC
 Workorder Name: Tucson AZ-Fueling Facility 22n

State Of Origin: AZ
 Cert. Needed: Yes No

Owner Received Date: 2/21/2024 Results Requested By: 3/6/2024

Report To: Subcontract To: Requested Analysis: MS/MSD

Jennifer Gross
 Pace Analytical Minnesota
 1700 Elm Street
 Minneapolis, MN 55414
 Phone (612)607-1700

Pace National
 12065 Lebanon Rd
 Mt. Juliet, TN 37122
 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					Comments	
						1	2	3	4	5		
1	WG-2510-MW-22-11-022024	PS	2/20/2024 10:41	10684450007	Water	X						
2	WG-2510-MW-22-31-022024	PS	2/20/2024 09:23	10684450008	Water	X						
3	WG-2510-FD-02-022024	PS	2/20/2024 09:28	10684450009	Water	X						
4	WG-2510-MW-22-38-022024	PS	2/20/2024 12:58	10684450011	Water	X						
5	WG-2510-MW-22-44-022024	RQS	2/20/2024 13:27	10684450012	Water	X						

4708276
 LAB USE ONLY
 -01
 -02
 -03
 -04
 -05

Transfers	Released By	Date/Time	Received By	Date/Time
1	Bri-Ceen/PACE	2/21/24 16:00	CROSBY	02-22-24 0840
2				
3				

Cooler Temperature on Receipt °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the ow

PH-10BD-H6021-TRC-2352367
 CR6-20221V
 Sample Receipt Checklist
 COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero-HeadSpace: Y N
 Bottles airtight/Intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RA Screen <0.5 mR/hr: Y N

0476 50423110

L-1102-1.1 TLA9



April 30, 2024

Ramzi Ramzi
Jacobs
1501 W. Fountainhead Pkwy #401
Tempe, AZ 85282

RE: Project: Tucson AZ-Fueling Facility 22n-Revised Report
Pace Project No.: 10684573

Dear Ramzi Ramzi:

Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2024. 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 National - Mt. Juliet
- Pace Analytical Services - Minneapolis

This report was revised on April 30, 2024, to remove an erroneous result reported by method 300.0 on Pace sample 10684573-003.

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

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: UPRR-Sysdat@ghd.com, UPRR



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Pace Analytical Services National

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Tucson AZ-Fueling Facility 22n-Revised Report
Pace Project No.: 10684573

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10684573001	WG-2510-TB-02-022124	Water	02/21/24 07:30	02/22/24 08:50
10684573002	WG-2510-EW-22-21-022124	Water	02/21/24 09:18	02/22/24 08:50
10684573003	WG-2510-MW-22-3-022124	Water	02/21/24 09:59	02/22/24 08:50

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SAMPLE ANALYTE COUNT

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10684573001	WG-2510-TB-02-022124	EPA 8260D	PAB	74	PASI-M
10684573002	WG-2510-EW-22-21-022124	EPA 8270D PAH by SIM	JNG	21	PASI-M
		EPA 8260D	PAB	74	PASI-M
10684573003	WG-2510-MW-22-3-022124	RSK 175	ALE	1	PASI-M
		SM 3500-Fe B	ARV	1	PAN
		SM 2320B	RM3	1	PASI-M
		EPA 300.0	JFP	2	PASI-M

PAN = Pace National - Mt. Juliet

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Method: RSK 175

Description: RSK 175 GCV Headspace

Client: UPRR_Jacobs

Date: April 30, 2024

General Information:

1 sample was analyzed for RSK 175 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 933476

E2: Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.

- DUP (Lab ID: 4894030)
- Methane

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Method: EPA 8270D PAH by SIM

Description: 8270D MSSV PAH by SIM LV

Client: UPRR_Jacobs

Date: April 30, 2024

General Information:

1 sample was analyzed for EPA 8270D PAH by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3511 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 933059

S8: The analysis of the sample required a dilution such that the surrogate recovery calculation does not provide useful information. The associated blank spike recovery was acceptable.

- WG-2510-EW-22-21-022124 (Lab ID: 10684573002)
 - 2-Fluorobiphenyl (S)
 - p-Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 933059

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10684450012

M1: Matrix spike recovery was high; the associated blank spike recovery was acceptable.

- MS (Lab ID: 4892086)
 - Acenaphthene

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Method: EPA 8270D PAH by SIM

Description: 8270D MSSV PAH by SIM LV

Client: UPRR_Jacobs

Date: April 30, 2024

Additional Comments:

Analyte Comments:

QC Batch: 933059

D2: Sample required dilution due to high concentration of target analyte.

- WG-2510-EW-22-21-022124 (Lab ID: 10684573002)
- 2-Fluorobiphenyl (S)

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Method: EPA 8260D

Description: 8260D MSV

Client: UPRR_Jacobs

Date: April 30, 2024

General Information:

2 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 933715

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Batch Comments:

The continuing calibration verification was below the method acceptance limit for acetone. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- QC Batch: 933715

Bromomethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- QC Batch: 933715

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Method: EPA 8260D

Description: 8260D MSV

Client: UPRR_Jacobs

Date: April 30, 2024

Analyte Comments:

QC Batch: 933715

PN2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 4894786)
 - Total 1,3-Dichloropropene
- LCS (Lab ID: 4894787)
 - Total 1,3-Dichloropropene
- LCSD (Lab ID: 4894788)
 - Total 1,3-Dichloropropene
- WG-2510-EW-22-21-022124 (Lab ID: 10684573002)
 - Total 1,3-Dichloropropene
- WG-2510-TB-02-022124 (Lab ID: 10684573001)
 - Total 1,3-Dichloropropene

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Method: SM 3500-Fe B

Description: Wet Chemistry 3500Fe B-2011

Client: UPRR_Jacobs

Date: April 30, 2024

General Information:

1 sample was analyzed for SM 3500-Fe B by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received and analyzed past holding time.

- WG-2510-MW-22-3-022124 (Lab ID: 10684573003)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Method: SM 2320B

Description: 2320B Alkalinity

Client: UPRR_Jacobs

Date: April 30, 2024

General Information:

1 sample was analyzed for SM 2320B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Method: EPA 300.0

Description: 300.0 IC Anions

Client: UPRR_Jacobs

Date: April 30, 2024

General Information:

1 sample was analyzed for EPA 300.0 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Sample: **WG-2510-TB-02-022124** Lab ID: **10684573001** Collected: 02/21/24 07:30 Received: 02/22/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 19:53	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 19:53	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 19:53	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 19:53	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 19:53	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 19:53	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 19:53	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 19:53	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:53	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 19:53	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:53	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 19:53	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 19:53	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 19:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:53	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 19:53	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 19:53	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 19:53	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:53	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 19:53	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 19:53	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 19:53	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 19:53	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 19:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 19:53	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 19:53	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 19:53	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 19:53	107-05-1	
Benzene	ND	ug/L	1.0	1		02/27/24 19:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 19:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 19:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 19:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 19:53	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 19:53	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 19:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 19:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 19:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 19:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 19:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 19:53	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 19:53	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 19:53	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 19:53	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 19:53	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 19:53	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/27/24 19:53	100-41-4	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Sample: WG-2510-TB-02-022124	Lab ID: 10684573001	Collected: 02/21/24 07:30	Received: 02/22/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 19:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/27/24 19:53	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/27/24 19:53	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 19:53	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/27/24 19:53	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 19:53	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 19:53	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 19:53	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 19:53	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 19:53		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 19:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 19:53	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 19:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 19:53	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 19:53	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 19:53	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 19:53	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/27/24 19:53	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/27/24 19:53	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 19:53	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 19:53	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		02/27/24 19:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 19:53	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 19:53	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 19:53	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%	75-125	1		02/27/24 19:53	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125	1		02/27/24 19:53	460-00-4	
Toluene-d8 (S)	105	%	75-125	1		02/27/24 19:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Sample: WG-2510-EW-22-21-022124 Lab ID: 10684573002 Collected: 02/21/24 09:18 Received: 02/22/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	930	ug/L	3.8	100	02/22/24 12:10	02/27/24 21:39	90-12-0	
2-Methylnaphthalene	1800	ug/L	18.9	500	02/22/24 12:10	03/06/24 18:45	91-57-6	
Acenaphthene	55.6	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	83-32-9	
Acenaphthylene	16.6	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	208-96-8	
Anthracene	34.6	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	120-12-7	
Benzo(a)anthracene	0.81	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	205-99-2	
Benzo(e)pyrene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	207-08-9	
Chrysene	1.2	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	53-70-3	
Fluoranthene	5.5	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	206-44-0	
Fluorene	122	ug/L	3.8	100	02/22/24 12:10	02/27/24 21:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	193-39-5	
Naphthalene	34.3	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	91-20-3	
Phenanthrene	308	ug/L	3.8	100	02/22/24 12:10	02/27/24 21:39	85-01-8	
Pyrene	23.7	ug/L	0.38	10	02/22/24 12:10	02/27/24 21:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	141	%	44-140	10	02/22/24 12:10	02/27/24 21:15	321-60-8	D2,S8
p-Terphenyl-d14 (S)	168	%	45-133	10	02/22/24 12:10	02/27/24 21:15	1718-51-0	S8

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 21:14	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/27/24 21:14	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/27/24 21:14	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/27/24 21:14	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/27/24 21:14	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/27/24 21:14	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/27/24 21:14	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:14	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:14	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/27/24 21:14	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:14	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 21:14	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/27/24 21:14	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/27/24 21:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:14	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/27/24 21:14	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:14	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/27/24 21:14	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:14	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:14	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/27/24 21:14	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Sample: **WG-2510-EW-22-21-022124** Lab ID: **10684573002** Collected: 02/21/24 09:18 Received: 02/22/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	1.0	1		02/27/24 21:14	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/27/24 21:14	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 21:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/27/24 21:14	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/27/24 21:14	108-10-1	
Acetone	ND	ug/L	10.0	1		02/27/24 21:14	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/27/24 21:14	107-05-1	
Benzene	ND	ug/L	1.0	1		02/27/24 21:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/27/24 21:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/27/24 21:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/27/24 21:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/27/24 21:14	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/27/24 21:14	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/27/24 21:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/27/24 21:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/27/24 21:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/27/24 21:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/27/24 21:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/27/24 21:14	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/27/24 21:14	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/27/24 21:14	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/27/24 21:14	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 21:14	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/27/24 21:14	60-29-7	
Ethylbenzene	8.2	ug/L	1.0	1		02/27/24 21:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/27/24 21:14	87-68-3	
Isopropylbenzene (Cumene)	6.2	ug/L	1.0	1		02/27/24 21:14	98-82-8	
Methyl-tert-butyl ether	1.3	ug/L	1.0	1		02/27/24 21:14	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/27/24 21:14	75-09-2	
Naphthalene	23.4	ug/L	1.0	1		02/27/24 21:14	91-20-3	
Styrene	ND	ug/L	1.0	1		02/27/24 21:14	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/27/24 21:14	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/27/24 21:14	109-99-9	
Toluene	ND	ug/L	1.0	1		02/27/24 21:14	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/27/24 21:14		PN2
Trichloroethene	ND	ug/L	1.0	1		02/27/24 21:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/27/24 21:14	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/27/24 21:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/27/24 21:14	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 21:14	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:14	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/27/24 21:14	179601-23-1	
n-Butylbenzene	3.0	ug/L	1.0	1		02/27/24 21:14	104-51-8	
n-Propylbenzene	8.7	ug/L	1.0	1		02/27/24 21:14	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/27/24 21:14	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/27/24 21:14	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Sample: **WG-2510-EW-22-21-022124** Lab ID: **10684573002** Collected: 02/21/24 09:18 Received: 02/22/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	3.4	ug/L	1.0	1		02/27/24 21:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/27/24 21:14	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/27/24 21:14	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/27/24 21:14	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%	75-125	1		02/27/24 21:14	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125	1		02/27/24 21:14	460-00-4	
Toluene-d8 (S)	107	%	75-125	1		02/27/24 21:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: WG-2510-MW-22-3-022124 Lab ID: 10684573003 Collected: 02/21/24 09:59 Received: 02/22/24 08:50 Matrix: Water								
RSK 175 GCV Headspace								
Analytical Method: RSK 175 Pace Analytical Services - Minneapolis								
Methane	ND	ug/L	10.0	1		02/26/24 17:41	74-82-8	
Wet Chemistry 3500Fe B-2011								
Analytical Method: SM 3500-Fe B Preparation Method: 3500Fe B-2011 Pace National - Mt. Juliet								
Iron, Ferrous	ND	mg/L	0.0500	1	02/24/24 10:30	02/24/24 10:30	15438-31-0	H3
2320B Alkalinity								
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	267000	ug/L	5000	1		02/29/24 13:31		
300.0 IC Anions								
Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis								
Nitrate as N	18000	ug/L	500	5		02/22/24 17:44	14797-55-8	
Sulfate	657000	ug/L	24000	20		02/22/24 18:43	14808-79-8	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

QC Batch: 933476	Analysis Method: RSK 175
QC Batch Method: RSK 175	Analysis Description: RSK 175 GCV HEADSPACE
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684573003

METHOD BLANK: 4894026 Matrix: Water

Associated Lab Samples: 10684573003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	02/26/24 15:59	

LABORATORY CONTROL SAMPLE & LCSD: 4894027 4894028

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	57.8	56.6	95	93	85-115	2	20	

SAMPLE DUPLICATE: 4894029

Parameter	Units	10684760001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	<2.8	ND		20	

SAMPLE DUPLICATE: 4894030

Parameter	Units	10684760008 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	20400	21700	6	20	E2

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

QC Batch: 933715

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684573001, 10684573002

METHOD BLANK: 4894786

Matrix: Water

Associated Lab Samples: 10684573001, 10684573002

Table with 6 columns: Parameter, Units, Blank Result, Reporting Limit, Analyzed, Qualifiers. Lists various chemical compounds and their analysis results.

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.

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

METHOD BLANK: 4894786

Matrix: Water

Associated Lab Samples: 10684573001, 10684573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/27/24 19:21	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/27/24 19:21	
Dibromochloromethane	ug/L	ND	1.0	02/27/24 19:21	
Dibromomethane	ug/L	ND	1.0	02/27/24 19:21	
Dichlorodifluoromethane	ug/L	ND	1.0	02/27/24 19:21	
Dichlorofluoromethane	ug/L	ND	1.0	02/27/24 19:21	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	02/27/24 19:21	
Ethylbenzene	ug/L	ND	1.0	02/27/24 19:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/27/24 19:21	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/27/24 19:21	
m&p-Xylene	ug/L	ND	2.0	02/27/24 19:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/27/24 19:21	
Methylene Chloride	ug/L	ND	1.0	02/27/24 19:21	
n-Butylbenzene	ug/L	ND	1.0	02/27/24 19:21	
n-Propylbenzene	ug/L	ND	1.0	02/27/24 19:21	
Naphthalene	ug/L	ND	1.0	02/27/24 19:21	
o-Xylene	ug/L	ND	1.0	02/27/24 19:21	
p-Isopropyltoluene	ug/L	ND	1.0	02/27/24 19:21	
sec-Butylbenzene	ug/L	ND	1.0	02/27/24 19:21	
Styrene	ug/L	ND	1.0	02/27/24 19:21	
tert-Butylbenzene	ug/L	ND	1.0	02/27/24 19:21	
Tetrachloroethene	ug/L	ND	1.0	02/27/24 19:21	
Tetrahydrofuran	ug/L	ND	10.0	02/27/24 19:21	
Toluene	ug/L	ND	1.0	02/27/24 19:21	
Total 1,3-Dichloropropene	ug/L	ND	2.0	02/27/24 19:21	PN2
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/27/24 19:21	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/27/24 19:21	
Trichloroethene	ug/L	ND	1.0	02/27/24 19:21	
Trichlorofluoromethane	ug/L	ND	1.0	02/27/24 19:21	
Vinyl chloride	ug/L	ND	1.0	02/27/24 19:21	
Xylene (Total)	ug/L	ND	3.0	02/27/24 19:21	
1,2-Dichlorobenzene-d4 (S)	%	101	75-125	02/27/24 19:21	
4-Bromofluorobenzene (S)	%	102	75-125	02/27/24 19:21	
Toluene-d8 (S)	%	104	75-125	02/27/24 19:21	

LABORATORY CONTROL SAMPLE & LCSD: 4894787

4894788

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.1	17.9	90	90	75-125	1	20	
1,1,1-Trichloroethane	ug/L	20	18.7	18.5	94	93	75-125	1	20	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	17.7	88	88	75-131	0	20	
1,1,2-Trichloroethane	ug/L	20	18.6	18.4	93	92	75-125	1	20	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.2	20.4	101	102	75-125	1	20	
1,1-Dichloroethane	ug/L	20	19.0	18.7	95	93	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

LABORATORY CONTROL SAMPLE & LCSD: 4894787		4894787		4894788							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,1-Dichloroethene	ug/L	20	20.1	19.7	100	99	75-125	2	20		
1,1-Dichloropropene	ug/L	20	21.3	20.5	107	103	75-125	4	20		
1,2,3-Trichlorobenzene	ug/L	20	18.4	17.9	92	89	68-125	3	20		
1,2,3-Trichloropropane	ug/L	20	17.8	17.5	89	87	75-125	2	20		
1,2,4-Trichlorobenzene	ug/L	20	18.1	17.6	91	88	68-125	3	20		
1,2,4-Trimethylbenzene	ug/L	20	19.9	19.3	99	96	75-125	3	20		
1,2-Dibromo-3-chloropropane	ug/L	20	16.9	16.9	85	85	70-125	0	20		
1,2-Dibromoethane (EDB)	ug/L	20	17.8	17.6	89	88	75-125	1	20		
1,2-Dichlorobenzene	ug/L	20	17.4	17.3	87	86	73-125	1	20		
1,2-Dichloroethane	ug/L	20	17.3	17.2	87	86	75-125	1	20		
1,2-Dichloropropane	ug/L	20	19.4	19.2	97	96	75-125	1	20		
1,3,5-Trimethylbenzene	ug/L	20	19.8	19.3	99	97	75-125	2	20		
1,3-Dichlorobenzene	ug/L	20	18.2	17.5	91	88	75-125	4	20		
1,3-Dichloropropane	ug/L	20	18.6	18.6	93	93	75-125	0	20		
1,4-Dichlorobenzene	ug/L	20	17.5	17.1	87	86	75-125	2	20		
2,2-Dichloropropane	ug/L	20	17.8	17.3	89	86	67-125	3	20		
2-Butanone (MEK)	ug/L	100	79.8	78.4	80	78	72-125	2	20		
2-Chlorotoluene	ug/L	20	19.1	18.6	95	93	74-125	3	20		
4-Chlorotoluene	ug/L	20	19.0	18.7	95	94	75-125	1	20		
4-Methyl-2-pentanone (MIBK)	ug/L	100	85.2	84.6	85	85	75-125	1	20		
Acetone	ug/L	100	74.9	73.5	75	73	71-125	2	20		
Allyl chloride	ug/L	20	16.9	16.8	84	84	75-125	1	20		
Benzene	ug/L	20	19.2	18.7	96	94	75-125	3	20		
Bromobenzene	ug/L	20	18.1	17.5	90	87	75-125	3	20		
Bromochloromethane	ug/L	20	16.5	16.5	83	83	75-125	0	20		
Bromodichloromethane	ug/L	20	18.8	18.3	94	91	75-125	3	20		
Bromoform	ug/L	20	18.9	19.0	95	95	72-125	0	20		
Bromomethane	ug/L	20	18.9	17.8	94	89	63-125	6	20		
Carbon disulfide	ug/L	20	19.5	19.3	98	97	74-125	1	20		
Carbon tetrachloride	ug/L	20	20.8	20.6	104	103	75-125	1	20		
Chlorobenzene	ug/L	20	18.3	18.1	91	91	75-125	1	20		
Chloroethane	ug/L	20	18.5	18.1	92	90	65-140	2	20		
Chloroform	ug/L	20	18.6	18.4	93	92	75-125	1	20		
Chloromethane	ug/L	20	17.7	16.7	89	84	72-127	6	20		
cis-1,2-Dichloroethene	ug/L	20	18.1	17.9	91	89	75-125	1	20		
cis-1,3-Dichloropropene	ug/L	20	18.3	18.0	91	90	75-125	1	20		
Dibromochloromethane	ug/L	20	17.5	17.8	88	89	75-125	2	20		
Dibromomethane	ug/L	20	16.7	16.3	84	81	75-125	3	20		
Dichlorodifluoromethane	ug/L	20	18.3	17.1	91	86	56-146	6	20		
Dichlorofluoromethane	ug/L	20	17.3	16.3	86	81	75-125	6	20		
Diethyl ether (Ethyl ether)	ug/L	20	18.9	18.8	94	94	75-126	0	20		
Ethylbenzene	ug/L	20	19.4	19.2	97	96	75-125	1	20		
Hexachloro-1,3-butadiene	ug/L	20	19.3	19.6	97	98	59-125	1	20		
Isopropylbenzene (Cumene)	ug/L	20	19.9	19.8	100	99	75-125	0	20		
m&p-Xylene	ug/L	40	39.1	38.8	98	97	75-125	1	20		
Methyl-tert-butyl ether	ug/L	20	18.8	18.5	94	92	75-125	1	20		
Methylene Chloride	ug/L	20	18.1	17.7	90	89	73-125	2	20		

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

LABORATORY CONTROL SAMPLE & LCSD: 4894787		4894788									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
n-Butylbenzene	ug/L	20	18.8	18.3	94	91	75-125	3	20		
n-Propylbenzene	ug/L	20	19.9	19.5	99	98	75-125	2	20		
Naphthalene	ug/L	20	18.3	18.0	91	90	65-130	2	20		
o-Xylene	ug/L	20	19.6	19.3	98	97	75-125	1	20		
p-Isopropyltoluene	ug/L	20	20.2	19.8	101	99	74-125	2	20		
sec-Butylbenzene	ug/L	20	20.0	19.4	100	97	75-125	3	20		
Styrene	ug/L	20	19.1	18.8	96	94	75-125	2	20		
tert-Butylbenzene	ug/L	20	20.0	19.4	100	97	75-125	3	20		
Tetrachloroethene	ug/L	20	19.2	19.6	96	98	75-125	2	20		
Tetrahydrofuran	ug/L	100	83.3	84.4	83	84	75-125	1	20		
Toluene	ug/L	20	18.1	17.9	91	90	75-125	1	20		
Total 1,3-Dichloropropene	ug/L	40	35.8	35.3	89	88	75-125	1	20	PN2	
trans-1,2-Dichloroethene	ug/L	20	18.4	18.8	92	94	75-125	2	20		
trans-1,3-Dichloropropene	ug/L	20	17.5	17.3	88	86	75-125	1	20		
Trichloroethene	ug/L	20	18.7	19.0	94	95	75-125	2	20		
Trichlorofluoromethane	ug/L	20	17.7	16.9	89	85	75-128	5	20		
Vinyl chloride	ug/L	20	17.9	17.1	89	85	69-130	5	20		
Xylene (Total)	ug/L	60	58.7	58.1	98	97	75-125	1	20		
1,2-Dichlorobenzene-d4 (S)	%				101	100	75-125				
4-Bromofluorobenzene (S)	%				100	101	75-125				
Toluene-d8 (S)	%				98	98	75-125				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

QC Batch:	933059	Analysis Method:	EPA 8270D PAH by SIM
QC Batch Method:	EPA 3511	Analysis Description:	8270D PAH by SIM MSSV LV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684573002

METHOD BLANK: 4892084 Matrix: Water
 Associated Lab Samples: 10684573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.040	02/27/24 12:17	
2-Methylnaphthalene	ug/L	ND	0.040	02/27/24 12:17	
Acenaphthene	ug/L	ND	0.040	02/27/24 12:17	
Acenaphthylene	ug/L	ND	0.040	02/27/24 12:17	
Anthracene	ug/L	ND	0.040	02/27/24 12:17	
Benzo(a)anthracene	ug/L	ND	0.040	02/27/24 12:17	
Benzo(a)pyrene	ug/L	ND	0.040	02/27/24 12:17	
Benzo(b)fluoranthene	ug/L	ND	0.040	02/27/24 12:17	
Benzo(e)pyrene	ug/L	ND	0.040	02/27/24 12:17	
Benzo(g,h,i)perylene	ug/L	ND	0.040	02/27/24 12:17	
Benzo(k)fluoranthene	ug/L	ND	0.040	02/27/24 12:17	
Chrysene	ug/L	ND	0.040	02/27/24 12:17	
Dibenz(a,h)anthracene	ug/L	ND	0.040	02/27/24 12:17	
Fluoranthene	ug/L	ND	0.040	02/27/24 12:17	
Fluorene	ug/L	ND	0.040	02/27/24 12:17	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	02/27/24 12:17	
Naphthalene	ug/L	ND	0.040	02/27/24 12:17	
Phenanthrene	ug/L	ND	0.040	02/27/24 12:17	
Pyrene	ug/L	ND	0.040	02/27/24 12:17	
2-Fluorobiphenyl (S)	%	104	44-140	02/27/24 12:17	
p-Terphenyl-d14 (S)	%	115	45-133	02/27/24 12:17	

LABORATORY CONTROL SAMPLE: 4892085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.7	86	44-135	
2-Methylnaphthalene	ug/L	2	1.8	89	42-135	
Acenaphthene	ug/L	2	1.8	92	60-129	
Acenaphthylene	ug/L	2	1.9	93	46-132	
Anthracene	ug/L	2	1.9	96	64-133	
Benzo(a)anthracene	ug/L	2	1.8	91	58-125	
Benzo(a)pyrene	ug/L	2	1.9	95	44-125	
Benzo(b)fluoranthene	ug/L	2	1.9	93	55-125	
Benzo(e)pyrene	ug/L	2	1.8	89	53-126	
Benzo(g,h,i)perylene	ug/L	2	1.8	89	46-125	
Benzo(k)fluoranthene	ug/L	2	1.8	90	63-125	
Chrysene	ug/L	2	1.8	89	60-125	
Dibenz(a,h)anthracene	ug/L	2	1.8	92	42-125	
Fluoranthene	ug/L	2	1.8	91	56-125	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

LABORATORY CONTROL SAMPLE: 4892085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	2	1.9	97	51-136	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.8	92	41-125	
Naphthalene	ug/L	2	1.6	82	58-125	
Phenanthrene	ug/L	2	1.8	92	63-131	
Pyrene	ug/L	2	1.7	87	62-125	
2-Fluorobiphenyl (S)	%			81	44-140	
p-Terphenyl-d14 (S)	%			91	45-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4892086 4892087

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10684450012 Result	Spike Conc.	Spike Conc.	Result							Result
1-Methylnaphthalene	ug/L	0.42	1.9	1.9	2.0	2.0	83	84	41-135	0	30	
2-Methylnaphthalene	ug/L	0.096	1.9	1.9	1.8	1.7	88	86	42-135	2	30	
Acenaphthene	ug/L	8.2	1.9	1.9	8.6	9.2	22	50	30-150	6	30	M1
Acenaphthylene	ug/L	1.3	1.9	1.9	2.8	2.9	80	85	41-132	3	30	
Anthracene	ug/L	0.89	1.9	1.9	2.5	2.7	86	93	44-144	5	30	
Benzo(a)anthracene	ug/L	ND	1.9	1.9	1.8	1.7	91	90	50-126	2	30	
Benzo(a)pyrene	ug/L	ND	1.9	1.9	1.7	1.7	89	90	44-125	1	30	
Benzo(b)fluoranthene	ug/L	ND	1.9	1.9	1.6	1.6	85	86	48-125	0	30	
Benzo(e)pyrene	ug/L	ND	1.9	1.9	1.6	1.6	85	86	50-126	1	30	
Benzo(g,h,i)perylene	ug/L	ND	1.9	1.9	1.5	1.5	78	79	44-125	1	30	
Benzo(k)fluoranthene	ug/L	ND	1.9	1.9	1.6	1.6	84	85	46-129	2	30	
Chrysene	ug/L	ND	1.9	1.9	1.7	1.7	89	89	49-128	0	30	
Dibenz(a,h)anthracene	ug/L	ND	1.9	1.9	1.6	1.7	84	87	41-125	4	30	
Fluoranthene	ug/L	0.060	1.9	1.9	1.8	1.8	92	92	49-127	0	30	
Fluorene	ug/L	4.9	1.9	1.9	6.0	6.2	57	67	33-144	3	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.9	1.9	1.5	1.6	79	82	41-125	4	30	
Naphthalene	ug/L	0.73	1.9	1.9	2.2	2.2	79	76	39-131	3	30	
Phenanthrene	ug/L	ND	1.9	1.9	1.7	1.7	91	91	48-137	0	30	
Pyrene	ug/L	0.21	1.9	1.9	1.9	2.0	90	95	47-130	4	30	
2-Fluorobiphenyl (S)	%						81	78	44-140			
p-Terphenyl-d14 (S)	%						91	91	45-133			

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

QC Batch: 2233277

Analysis Method: SM 3500-Fe B

QC Batch Method: 3500Fe B-2011

Analysis Description: Wet Chemistry 3500Fe B-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10684573003

METHOD BLANK: R4037828-1

Matrix: Water

Associated Lab Samples: 10684573003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.0500	02/24/24 10:27	

LABORATORY CONTROL SAMPLE: R4037828-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.00	0.923	92.3	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4037828-3 R4037828-4

Parameter	Units	R4037828-3		R4037828-4		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		L1708708-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Iron, Ferrous	mg/L	ND	1.00	1.00	0.934	0.914	93.4	91.4	80.0-120	2.16	20

SAMPLE DUPLICATE: R4037828-5

Parameter	Units	L1708708-11 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND	0.00	20	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

QC Batch: 934087

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684573003

METHOD BLANK: 4895999

Matrix: Water

Associated Lab Samples: 10684573003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	02/29/24 11:32	

LABORATORY CONTROL SAMPLE & LCSD: 4896000

4896001

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	40000	40600	40500	102	101	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896002

4896003

Parameter	Units	10685111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	ug/L	25.6 mg/L	40000	40000	66600	66900	102	103	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896004

4896005

Parameter	Units	10685111002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	ug/L	38.2 mg/L	40000	40000	77800	78100	99	100	80-120	0	20	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

QC Batch:	933120	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684573003

METHOD BLANK: 4892435 Matrix: Water

Associated Lab Samples: 10684573003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	ug/L	ND	100	02/22/24 16:27	
Sulfate	ug/L	ND	1200	02/22/24 16:27	

LABORATORY CONTROL SAMPLE: 4892436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	ug/L	4000	4210	105	90-110	
Sulfate	ug/L	50000	53900	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4892437 4892438

Parameter	Units	10684573003		4892438		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrate as N	ug/L	18000	20000	38100	37800	100	99	80-120	1	20	
Sulfate	ug/L	657000	1000000	1650000	1650000	99	99	80-120	0	20	

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QUALIFIERS

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

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 adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 933715

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

[1] The continuing calibration verification was below the method acceptance limit for acetone. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

[2] Bromomethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

ANALYTE QUALIFIERS

D2 Sample required dilution due to high concentration of target analyte.

E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.

H3 Sample was received and analyzed past holding time.

M1 Matrix spike recovery was high; the associated blank spike recovery was acceptable.

PN2 The lab does not hold TNI accreditation for this parameter.

S8 The analysis of the sample required a dilution such that the surrogate recovery calculation does not provide useful information. The associated blank spike recovery was acceptable.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tucson AZ-Fueling Facility 22n-Revised Report

Pace Project No.: 10684573

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10684573003	WG-2510-MW-22-3-022124	RSK 175	933476		
10684573002	WG-2510-EW-22-21-022124	EPA 3511	933059	EPA 8270D PAH by SIM	933243
10684573001	WG-2510-TB-02-022124	EPA 8260D	933715		
10684573002	WG-2510-EW-22-21-022124	EPA 8260D	933715		
10684573003	WG-2510-MW-22-3-022124	3500Fe B-2011	2233277	SM 3500-Fe B	2233277
10684573003	WG-2510-MW-22-3-022124	SM 2320B	934087		
10684573003	WG-2510-MW-22-3-022124	EPA 300.0	933120		

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Pace® Location Requested (City/State):
 Pace Analytical Minnesota
 1700 Elm Street, Suite 200
 Minneapolis, MN 55414

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: UPRR_Jacobs
 Street Address: 1501 W. Fountainhead Pkwy #401,
 Minneapolis, MN 55414
 Tempe, AZ 85282

Contact/Report To: Ramzi Ramzi
 Phone #: (480)295-3916
 E-Mail: ramzi.ramzi@jacobs.com
 Cc E-Mail:

Invoice To: Becky Rewey
 Invoice E-Mail: rrewey@up.com
 Purchase Order # (if applicable): 2510-10-1Q24-Rev1
 Quote #:

Customer Project #: Tucson AZ-Fueling Facility 22nd Street

County / State origin of sample(s): Arizona

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

Rush (Pre-approval required):
 Same Day 1 Day 2 Day 3 Day Other

Date Results Requested:
 Other

Field Filtered (if applicable): Yes No

Analysis:
 * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OI), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID

Matrix * Comp / Grab

Date

Time

Collected or Composite End

Date

Time

Cont.

Res. Chlorine Results

Units

WT G

WT G

WT G

WT G

WT G

WT G

WT G

WT G

WT G

WT G

Specify Container Size **

Identify Container Preservative Type ***

Analysis Requested

2320B Alkalinity; 300.0 Sulfate/Nitrate

8260D VOC

8270D PAH by SIM LV

RSK 175 GCV Headspace

SM3600 Fe B Ferrous Iron

Preservation non-conformance identified for

Proj. Mgr: Jennifer Gross

AcctNum / Client ID:

Table #:

Profile / Template: 37095

Prelog / Bottle Ord. ID: EZ 3066188

Sample Comment

001

002

003

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: 1

Thermometer ID: T1

Correction Factor (°C): -0.1

Obs. Temp. (°C): 0.9

Corrected Temp. (°C): 0.8

On Ice: Y

Collected By: Brian Mendoza

Signature: *Brian Mendoza*

Date/Time: 2/21/24 8:50

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

ENV-FRM-MIN4-0150 v15_Sample Condition Upon Receipt

CLIENT NAME: UPRR Jacobs PROJECT #: **WO# : 10684573**

COURIER: Client Commercial FedEx Pace
 Speedee UPS USPS

PM: JMG Due Date: 03/07/24
 CLIENT: UPRR_Jacobs

TRACKING NUMBER: 7048 1455 8366 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Coole/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A
 Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235) T7 (0042) T8 (0775) T9 (0727) 01339252 (1710) Melted None

Did Samples Originate in West Virginia: YES NO Were All Container Temps taken: YES NO N/A
 Correction Factor: 0.1 Cooler Temp Read w/Temp Blank: 0.9 °C Average Corrected Temp (no Temp Blank Only): _____ °C
 Cooler Temp Corrected w/Temp Blank: 0.8 °C
 NOTE: Temp should be above freezing to 6°C. See Exceptions Form ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A Water Sample/Other (describe): _____ Initials & Date of Person Examining Contents: EL 2-22-24
 Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: YES NO Did samples originate from a foreign source (International, including Hawaii and Puerto Rico): YES NO
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	YES	NO	N/A	COMMENT(S)								
<input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA												
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1.								
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		2.								
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.								
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input checked="" type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____								
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		6.								
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		7.								
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
– Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		9.								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>		11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: <u>VOA</u> Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Extra labels present on soil VOA or WIDRO containers? Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
Trip Blanks Present? Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15. <u>2 HCl TB received 454187</u> Pace Trip Blank Lot # (if purchased): _____								

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: YES NO
 Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: Jenni Gross Date: 2/22/24

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

Labeled By: EL Line: 2

Internal Transfer Chain of Custody

B069



Rush Multiplier X
 Samples Pre-Logged into eCOC
Workorder Name: Tucson AZ-Fueling Facility 22n

State Of Origin: AZ
Cert. Needed: Yes No

Owner Received Date: 2/22/2024 Results Requested By: 3/7/2024

Requested Analysis

Subcontract To

Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Jennifer Gross
Pace Analytical Minnesota
1700 Elm Street
Minneapolis, MN 55414
Phone (612)607-1700

5643634 / SM350 Ferrrous Iron <2

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	
1	WG-2510-MW-22-3-022124	PS	2/21/2024 09:59	10684573003	Water	2	AGSH
2							
3							
4							
5							

U70873Z
LAB USE ONLY
-01

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y	pr	N	Samples Intact	Y	or	N
1	Brice/PAE	2/22/24 15:10	CRANWORTH	02-23-24 09:00								
2												
3												

Cooler Temperature on Receipt °C Custody Seal Y pr N Received on Ice Y pr N Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

U474 5042 3442

Sample Receipt Checklist
COC Seal Present/Intact: Y N If Applicable
COC Signed/Accurate: Y N
Bottles arrive intact: Y N VOA Zero Headspace: Y N
Correct bottles used: Y N Pres. Correct/Check: Y N
Sufficient volume sent: Y N
RA Screen <0.5 mR/hr: Y N

51 + 0 = 5.1 DPA9

PH-1050RB021 TKC-736736Z
CR6-20221V



March 13, 2024

Ramzi Ramzi
Jacobs
1501 W. Fountainhead Pkwy #401
Tempe, AZ 85282

RE: Project: Tucson AZ-Fueling Facility 22n
Pace Project No.: 10684716

Dear Ramzi Ramzi:

Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2024. 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 National - Mt. Juliet
- Pace Analytical Services - Minneapolis

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

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: UPRR-Sysdat@ghd.com, UPRR



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Pace Analytical Services National

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: Tucson AZ-Fueling Facility 22n
Pace Project No.: 10684716

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10684716001	WG-2510-TB-03-022224	Water	02/22/24 07:30	02/23/24 08:50
10684716002	WG-2510-MW-22-43-022224	Water	02/22/24 08:12	02/23/24 08:50
10684716003	WG-2510-MW-22-41-022224	Water	02/22/24 09:57	02/23/24 08:50
10684716004	WG-2510-EW-22-19-022224	Water	02/22/24 11:31	02/23/24 08:50

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SAMPLE ANALYTE COUNT

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10684716001	WG-2510-TB-03-022224	EPA 8260D	PAB	74	PASI-M
10684716002	WG-2510-MW-22-43-022224	RSK 175	ALE	1	PASI-M
		SM 3500-Fe B	SJA	1	PAN
		SM 2320B	RM3	1	PASI-M
		EPA 300.0	JFP	2	PASI-M
		EPA 8270D PAH by SIM	JNG	21	PASI-M
10684716003	WG-2510-MW-22-41-022224	EPA 8260D	PAB	74	PASI-M
		EPA 8270D PAH by SIM	JNG	21	PASI-M
10684716004	WG-2510-EW-22-19-022224	EPA 8260D	PAB	74	PASI-M

PAN = Pace National - Mt. Juliet

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Method: RSK 175

Description: RSK 175 GCV Headspace

Client: UPRR_Jacobs

Date: March 13, 2024

General Information:

1 sample was analyzed for RSK 175 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 933476

E2: Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.

- DUP (Lab ID: 4894030)
- Methane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Method: EPA 8270D PAH by SIM

Description: 8270D MSSV PAH by SIM LV

Client: UPRR_Jacobs

Date: March 13, 2024

General Information:

2 samples were analyzed for EPA 8270D PAH by SIM by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3511 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 933289

L1: The associated blank spike recovery was above laboratory acceptance limits.

- LCS (Lab ID: 4893133)
 - Dibenz(a,h)anthracene
- LCSD (Lab ID: 4893134)
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Benzo(a)anthracene
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(k)fluoranthene
 - Chrysene
 - Dibenz(a,h)anthracene

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Method: EPA 8270D PAH by SIM

Description: 8270D MSSV PAH by SIM LV

Client: UPRR_Jacobs

Date: March 13, 2024

QC Batch: 933289

L1: The associated blank spike recovery was above laboratory acceptance limits.

- Fluoranthene
- Fluorene
- Indeno(1,2,3-cd)pyrene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 933289

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 933289

1M: Result not confirmed by reanalysis conducted outside of the method specified holding time.

- WG-2510-EW-22-19-022224 (Lab ID: 10684716004)
 - 2-Fluorobiphenyl (S)
- WG-2510-MW-22-41-022224 (Lab ID: 10684716003)
 - 2-Fluorobiphenyl (S)

D2: Sample required dilution due to high concentration of target analyte.

- WG-2510-EW-22-19-022224 (Lab ID: 10684716004)
 - 2-Fluorobiphenyl (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Method: EPA 8260D

Description: 8260D MSV

Client: UPRR_Jacobs

Date: March 13, 2024

General Information:

3 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

The continuing calibration verification was below the method acceptance limit for acetone. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- QC Batch: 934105

The continuing calibration verification was above the method acceptance limit for dichlorodifluoromethane. Any detection for the analyte in the associated samples may have a high bias.

- QC Batch: 934105

Bromomethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- QC Batch: 934105

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Method: EPA 8260D

Description: 8260D MSV

Client: UPRR_Jacobs

Date: March 13, 2024

Analyte Comments:

QC Batch: 934105

D1: Sample required dilution due to matrix.

- WG-2510-EW-22-19-022224 (Lab ID: 10684716004)
 - 1,2-Dichlorobenzene-d4 (S)

PN2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 4896095)
 - Total 1,3-Dichloropropene
- LCS (Lab ID: 4896096)
 - Total 1,3-Dichloropropene
- MS (Lab ID: 4896097)
 - Total 1,3-Dichloropropene
- MSD (Lab ID: 4896098)
 - Total 1,3-Dichloropropene
- WG-2510-EW-22-19-022224 (Lab ID: 10684716004)
 - Total 1,3-Dichloropropene
- WG-2510-MW-22-41-022224 (Lab ID: 10684716003)
 - Total 1,3-Dichloropropene
- WG-2510-TB-03-022224 (Lab ID: 10684716001)
 - Total 1,3-Dichloropropene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Method: SM 3500-Fe B

Description: Wet Chemistry 3500Fe B-2011

Client: UPRR_Jacobs

Date: March 13, 2024

General Information:

1 sample was analyzed for SM 3500-Fe B by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received and analyzed past holding time.

- WG-2510-MW-22-43-022224 (Lab ID: 10684716002)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Method: SM 2320B

Description: 2320B Alkalinity

Client: UPRR_Jacobs

Date: March 13, 2024

General Information:

1 sample was analyzed for SM 2320B by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Method: EPA 300.0

Description: 300.0 IC Anions

Client: UPRR_Jacobs

Date: March 13, 2024

General Information:

1 sample was analyzed for EPA 300.0 by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Sample: **WG-2510-TB-03-022224** Lab ID: **10684716001** Collected: 02/22/24 07:30 Received: 02/23/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/29/24 16:06	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/29/24 16:06	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/29/24 16:06	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/29/24 16:06	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/29/24 16:06	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/29/24 16:06	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/29/24 16:06	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/29/24 16:06	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:06	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/29/24 16:06	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:06	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/29/24 16:06	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/29/24 16:06	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/29/24 16:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:06	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/29/24 16:06	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/29/24 16:06	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/29/24 16:06	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:06	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/29/24 16:06	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 16:06	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.0	1		02/29/24 16:06	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/29/24 16:06	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/29/24 16:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/29/24 16:06	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/29/24 16:06	108-10-1	
Acetone	ND	ug/L	10.0	1		02/29/24 16:06	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/29/24 16:06	107-05-1	
Benzene	ND	ug/L	1.0	1		02/29/24 16:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/29/24 16:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/29/24 16:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/29/24 16:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/29/24 16:06	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/29/24 16:06	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/29/24 16:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/29/24 16:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/29/24 16:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/29/24 16:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/29/24 16:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/29/24 16:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/29/24 16:06	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/29/24 16:06	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/29/24 16:06	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/29/24 16:06	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/29/24 16:06	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/29/24 16:06	100-41-4	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Sample: **WG-2510-TB-03-022224** Lab ID: **10684716001** Collected: 02/22/24 07:30 Received: 02/23/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/29/24 16:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/29/24 16:06	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/29/24 16:06	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/29/24 16:06	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/29/24 16:06	91-20-3	
Styrene	ND	ug/L	1.0	1		02/29/24 16:06	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/29/24 16:06	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/29/24 16:06	109-99-9	
Toluene	ND	ug/L	1.0	1		02/29/24 16:06	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/29/24 16:06		PN2
Trichloroethene	ND	ug/L	1.0	1		02/29/24 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/29/24 16:06	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/29/24 16:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/29/24 16:06	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/29/24 16:06	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/29/24 16:06	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/29/24 16:06	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/29/24 16:06	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/29/24 16:06	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/29/24 16:06	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/29/24 16:06	99-87-6	
sec-Butylbenzene	ND	ug/L	1.0	1		02/29/24 16:06	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/29/24 16:06	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/29/24 16:06	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/29/24 16:06	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	100	%	75-125	1		02/29/24 16:06	2199-69-1	
4-Bromofluorobenzene (S)	102	%	75-125	1		02/29/24 16:06	460-00-4	
Toluene-d8 (S)	102	%	75-125	1		02/29/24 16:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: WG-2510-MW-22-43-022224 Lab ID: 10684716002 Collected: 02/22/24 08:12 Received: 02/23/24 08:50 Matrix: Water								
RSK 175 GCV Headspace								
Analytical Method: RSK 175 Pace Analytical Services - Minneapolis								
Methane	27.6	ug/L	10.0	1		02/26/24 18:37	74-82-8	
Wet Chemistry 3500Fe B-2011								
Analytical Method: SM 3500-Fe B Preparation Method: 3500Fe B-2011 Pace National - Mt. Juliet								
Iron, Ferrous	ND	mg/L	0.0500	1	02/26/24 16:48	02/26/24 16:48	15438-31-0	H3
2320B Alkalinity								
Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	113000	ug/L	5000	1		03/01/24 13:22		
300.0 IC Anions								
Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis								
Nitrate as N	1300	ug/L	100	1		02/23/24 12:59	14797-55-8	
Sulfate	223000	ug/L	6000	5		02/23/24 13:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Sample: **WG-2510-MW-22-41-022224** Lab ID: **10684716003** Collected: 02/22/24 09:57 Received: 02/23/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	91-57-6	
Acenaphthene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	83-32-9	L1
Acenaphthylene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	208-96-8	L1
Anthracene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	120-12-7	L1
Benzo(a)anthracene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	50-32-8	L1
Benzo(b)fluoranthene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	205-99-2	L1
Benzo(e)pyrene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	191-24-2	L1
Benzo(k)fluoranthene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	207-08-9	L1
Chrysene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	218-01-9	L1
Dibenz(a,h)anthracene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	53-70-3	L1
Fluoranthene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	206-44-0	L1
Fluorene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	86-73-7	L1
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	193-39-5	L1
Naphthalene	0.044	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	91-20-3	B1
Phenanthrene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	85-01-8	
Pyrene	ND	ug/L	0.035	1	02/23/24 11:51	02/29/24 16:45	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	126	%.	44-140	1	02/23/24 11:51	02/29/24 16:45	321-60-8	1M
p-Terphenyl-d14 (S)	109	%.	45-133	1	02/23/24 11:51	02/29/24 16:45	1718-51-0	

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/29/24 17:11	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/29/24 17:11	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/29/24 17:11	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/29/24 17:11	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/29/24 17:11	76-13-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/29/24 17:11	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/29/24 17:11	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.0	1		02/29/24 17:11	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:11	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		02/29/24 17:11	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:11	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/29/24 17:11	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		02/29/24 17:11	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		02/29/24 17:11	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:11	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/29/24 17:11	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/29/24 17:11	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/29/24 17:11	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:11	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.0	1		02/29/24 17:11	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/29/24 17:11	106-46-7	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Sample: **WG-2510-MW-22-41-022224** Lab ID: **10684716003** Collected: 02/22/24 09:57 Received: 02/23/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	1.0	1		02/29/24 17:11	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/29/24 17:11	78-93-3	
2-Chlorotoluene	ND	ug/L	1.0	1		02/29/24 17:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		02/29/24 17:11	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/29/24 17:11	108-10-1	
Acetone	ND	ug/L	10.0	1		02/29/24 17:11	67-64-1	
Allyl chloride	ND	ug/L	2.5	1		02/29/24 17:11	107-05-1	
Benzene	ND	ug/L	1.0	1		02/29/24 17:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		02/29/24 17:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		02/29/24 17:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		02/29/24 17:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/29/24 17:11	75-25-2	
Bromomethane	ND	ug/L	2.5	1		02/29/24 17:11	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		02/29/24 17:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/29/24 17:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/29/24 17:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/29/24 17:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/29/24 17:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/29/24 17:11	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/29/24 17:11	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/29/24 17:11	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		02/29/24 17:11	75-71-8	
Dichlorofluoromethane	ND	ug/L	1.0	1		02/29/24 17:11	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	2.5	1		02/29/24 17:11	60-29-7	
Ethylbenzene	ND	ug/L	1.0	1		02/29/24 17:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		02/29/24 17:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/29/24 17:11	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/29/24 17:11	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		02/29/24 17:11	75-09-2	
Naphthalene	ND	ug/L	1.0	1		02/29/24 17:11	91-20-3	
Styrene	ND	ug/L	1.0	1		02/29/24 17:11	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/29/24 17:11	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		02/29/24 17:11	109-99-9	
Toluene	ND	ug/L	1.0	1		02/29/24 17:11	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	2.0	1		02/29/24 17:11		PN2
Trichloroethene	ND	ug/L	1.0	1		02/29/24 17:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/29/24 17:11	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/29/24 17:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/29/24 17:11	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/29/24 17:11	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/29/24 17:11	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		02/29/24 17:11	179601-23-1	
n-Butylbenzene	ND	ug/L	1.0	1		02/29/24 17:11	104-51-8	
n-Propylbenzene	ND	ug/L	1.0	1		02/29/24 17:11	103-65-1	
o-Xylene	ND	ug/L	1.0	1		02/29/24 17:11	95-47-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		02/29/24 17:11	99-87-6	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Sample: **WG-2510-MW-22-41-022224** Lab ID: **10684716003** Collected: 02/22/24 09:57 Received: 02/23/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	ND	ug/L	1.0	1		02/29/24 17:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		02/29/24 17:11	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/29/24 17:11	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/29/24 17:11	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125	1		02/29/24 17:11	2199-69-1	
4-Bromofluorobenzene (S)	102	%.	75-125	1		02/29/24 17:11	460-00-4	
Toluene-d8 (S)	102	%.	75-125	1		02/29/24 17:11	2037-26-5	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Sample: WG-2510-EW-22-19-022224 Lab ID: 10684716004 Collected: 02/22/24 11:31 Received: 02/23/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV PAH by SIM LV								
Analytical Method: EPA 8270D PAH by SIM Preparation Method: EPA 3511								
Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	637	ug/L	7.0	200	02/23/24 11:51	02/29/24 17:10	90-12-0	
2-Methylnaphthalene	979	ug/L	7.0	200	02/23/24 11:51	02/29/24 17:10	91-57-6	
Acenaphthene	26.9	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	83-32-9	L1
Acenaphthylene	10.0	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	208-96-8	L1
Anthracene	14.0	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	120-12-7	L1
Benzo(a)anthracene	0.42	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	50-32-8	L1
Benzo(b)fluoranthene	0.51	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	205-99-2	L1
Benzo(e)pyrene	ND	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	192-97-2	
Benzo(g,h,i)perylene	ND	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	191-24-2	L1
Benzo(k)fluoranthene	ND	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	207-08-9	L1
Chrysene	0.82	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	218-01-9	L1
Dibenz(a,h)anthracene	ND	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	53-70-3	L1
Fluoranthene	2.7	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	206-44-0	L1
Fluorene	63.1	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	86-73-7	L1
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	193-39-5	L1
Naphthalene	266	ug/L	7.0	200	02/23/24 11:51	02/29/24 17:10	91-20-3	
Phenanthrene	153	ug/L	7.0	200	02/23/24 11:51	02/29/24 17:10	85-01-8	
Pyrene	10.2	ug/L	0.35	10	02/23/24 11:51	02/29/24 17:35	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%	44-140	10	02/23/24 11:51	02/29/24 17:35	321-60-8	1M,D2
p-Terphenyl-d14 (S)	75	%	45-133	10	02/23/24 11:51	02/29/24 17:35	1718-51-0	

8260D MSV

Analytical Method: EPA 8260D

Pace Analytical Services - Minneapolis

1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		02/29/24 18:00	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		02/29/24 18:00	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		02/29/24 18:00	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		02/29/24 18:00	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	5		02/29/24 18:00	76-13-1	
1,1-Dichloroethane	ND	ug/L	5.0	5		02/29/24 18:00	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	5		02/29/24 18:00	75-35-4	
1,1-Dichloropropene	ND	ug/L	5.0	5		02/29/24 18:00	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		02/29/24 18:00	87-61-6	
1,2,3-Trichloropropane	ND	ug/L	12.5	5		02/29/24 18:00	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		02/29/24 18:00	120-82-1	
1,2,4-Trimethylbenzene	40.2	ug/L	5.0	5		02/29/24 18:00	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	5		02/29/24 18:00	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		02/29/24 18:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		02/29/24 18:00	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	5		02/29/24 18:00	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	5		02/29/24 18:00	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		02/29/24 18:00	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		02/29/24 18:00	541-73-1	
1,3-Dichloropropane	ND	ug/L	5.0	5		02/29/24 18:00	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		02/29/24 18:00	106-46-7	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Sample: **WG-2510-EW-22-19-022224** Lab ID: **10684716004** Collected: 02/22/24 11:31 Received: 02/23/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
2,2-Dichloropropane	ND	ug/L	5.0	5		02/29/24 18:00	594-20-7	
2-Butanone (MEK)	ND	ug/L	50.0	5		02/29/24 18:00	78-93-3	
2-Chlorotoluene	ND	ug/L	5.0	5		02/29/24 18:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		02/29/24 18:00	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		02/29/24 18:00	108-10-1	
Acetone	ND	ug/L	50.0	5		02/29/24 18:00	67-64-1	
Allyl chloride	ND	ug/L	12.5	5		02/29/24 18:00	107-05-1	
Benzene	89.8	ug/L	5.0	5		02/29/24 18:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		02/29/24 18:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		02/29/24 18:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		02/29/24 18:00	75-27-4	
Bromoform	ND	ug/L	5.0	5		02/29/24 18:00	75-25-2	
Bromomethane	ND	ug/L	12.5	5		02/29/24 18:00	74-83-9	
Carbon disulfide	ND	ug/L	5.0	5		02/29/24 18:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	5		02/29/24 18:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		02/29/24 18:00	108-90-7	
Chloroethane	ND	ug/L	5.0	5		02/29/24 18:00	75-00-3	
Chloroform	ND	ug/L	5.0	5		02/29/24 18:00	67-66-3	
Chloromethane	ND	ug/L	5.0	5		02/29/24 18:00	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	5		02/29/24 18:00	124-48-1	
Dibromomethane	ND	ug/L	5.0	5		02/29/24 18:00	74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.0	5		02/29/24 18:00	75-71-8	
Dichlorofluoromethane	ND	ug/L	5.0	5		02/29/24 18:00	75-43-4	
Diethyl ether (Ethyl ether)	ND	ug/L	12.5	5		02/29/24 18:00	60-29-7	
Ethylbenzene	53.3	ug/L	5.0	5		02/29/24 18:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		02/29/24 18:00	87-68-3	
Isopropylbenzene (Cumene)	17.6	ug/L	5.0	5		02/29/24 18:00	98-82-8	
Methyl-tert-butyl ether	54.2	ug/L	5.0	5		02/29/24 18:00	1634-04-4	
Methylene Chloride	ND	ug/L	5.0	5		02/29/24 18:00	75-09-2	
Naphthalene	233	ug/L	5.0	5		02/29/24 18:00	91-20-3	
Styrene	ND	ug/L	5.0	5		02/29/24 18:00	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	5		02/29/24 18:00	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	5		02/29/24 18:00	109-99-9	
Toluene	ND	ug/L	5.0	5		02/29/24 18:00	108-88-3	
Total 1,3-Dichloropropene	ND	ug/L	10.0	5		02/29/24 18:00		PN2
Trichloroethene	ND	ug/L	5.0	5		02/29/24 18:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		02/29/24 18:00	75-69-4	
Vinyl chloride	ND	ug/L	5.0	5		02/29/24 18:00	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		02/29/24 18:00	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		02/29/24 18:00	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		02/29/24 18:00	10061-01-5	
m&p-Xylene	11.1	ug/L	10.0	5		02/29/24 18:00	179601-23-1	
n-Butylbenzene	10	ug/L	5.0	5		02/29/24 18:00	104-51-8	
n-Propylbenzene	25.2	ug/L	5.0	5		02/29/24 18:00	103-65-1	
o-Xylene	ND	ug/L	5.0	5		02/29/24 18:00	95-47-6	
p-Isopropyltoluene	5.5	ug/L	5.0	5		02/29/24 18:00	99-87-6	

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ANALYTICAL RESULTS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Sample: **WG-2510-EW-22-19-022224** Lab ID: **10684716004** Collected: 02/22/24 11:31 Received: 02/23/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis						
sec-Butylbenzene	8.9	ug/L	5.0	5		02/29/24 18:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	5		02/29/24 18:00	98-06-6	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		02/29/24 18:00	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		02/29/24 18:00	10061-02-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	101	%	75-125	5		02/29/24 18:00	2199-69-1	D1
4-Bromofluorobenzene (S)	101	%	75-125	5		02/29/24 18:00	460-00-4	
Toluene-d8 (S)	102	%	75-125	5		02/29/24 18:00	2037-26-5	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

QC Batch: 933476

Analysis Method: RSK 175

QC Batch Method: RSK 175

Analysis Description: RSK 175 GCV HEADSPACE

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684716002

METHOD BLANK: 4894026

Matrix: Water

Associated Lab Samples: 10684716002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	02/26/24 15:59	

LABORATORY CONTROL SAMPLE & LCSD: 4894027

4894028

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	57.8	56.6	95	93	85-115	2	20	

SAMPLE DUPLICATE: 4894029

Parameter	Units	10684760001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	<2.8	ND		20	

SAMPLE DUPLICATE: 4894030

Parameter	Units	10684760008 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	20400	21700	6	20	E2

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

QC Batch: 934105

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory:

Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684716001, 10684716003, 10684716004

METHOD BLANK: 4896095

Matrix: Water

Associated Lab Samples: 10684716001, 10684716003, 10684716004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1-Dichloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,1-Dichloroethene	ug/L	ND	1.0	02/29/24 15:50	
1,1-Dichloropropene	ug/L	ND	1.0	02/29/24 15:50	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
1,2,3-Trichloropropane	ug/L	ND	2.5	02/29/24 15:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/29/24 15:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	02/29/24 15:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/29/24 15:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
1,2-Dichloroethane	ug/L	ND	1.0	02/29/24 15:50	
1,2-Dichloropropane	ug/L	ND	1.0	02/29/24 15:50	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/29/24 15:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
1,3-Dichloropropane	ug/L	ND	1.0	02/29/24 15:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
2,2-Dichloropropane	ug/L	ND	1.0	02/29/24 15:50	
2-Butanone (MEK)	ug/L	ND	10.0	02/29/24 15:50	
2-Chlorotoluene	ug/L	ND	1.0	02/29/24 15:50	
4-Chlorotoluene	ug/L	ND	1.0	02/29/24 15:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/29/24 15:50	
Acetone	ug/L	ND	10.0	02/29/24 15:50	
Allyl chloride	ug/L	ND	2.5	02/29/24 15:50	
Benzene	ug/L	ND	1.0	02/29/24 15:50	
Bromobenzene	ug/L	ND	1.0	02/29/24 15:50	
Bromochloromethane	ug/L	ND	1.0	02/29/24 15:50	
Bromodichloromethane	ug/L	ND	1.0	02/29/24 15:50	
Bromoform	ug/L	ND	1.0	02/29/24 15:50	
Bromomethane	ug/L	ND	2.5	02/29/24 15:50	
Carbon disulfide	ug/L	ND	1.0	02/29/24 15:50	
Carbon tetrachloride	ug/L	ND	1.0	02/29/24 15:50	
Chlorobenzene	ug/L	ND	1.0	02/29/24 15:50	
Chloroethane	ug/L	ND	1.0	02/29/24 15:50	
Chloroform	ug/L	ND	1.0	02/29/24 15:50	
Chloromethane	ug/L	ND	1.0	02/29/24 15:50	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

METHOD BLANK: 4896095

Matrix: Water

Associated Lab Samples: 10684716001, 10684716003, 10684716004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/29/24 15:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/29/24 15:50	
Dibromochloromethane	ug/L	ND	1.0	02/29/24 15:50	
Dibromomethane	ug/L	ND	1.0	02/29/24 15:50	
Dichlorodifluoromethane	ug/L	ND	1.0	02/29/24 15:50	
Dichlorofluoromethane	ug/L	ND	1.0	02/29/24 15:50	
Diethyl ether (Ethyl ether)	ug/L	ND	2.5	02/29/24 15:50	
Ethylbenzene	ug/L	ND	1.0	02/29/24 15:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	02/29/24 15:50	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/29/24 15:50	
m&p-Xylene	ug/L	ND	2.0	02/29/24 15:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/29/24 15:50	
Methylene Chloride	ug/L	ND	1.0	02/29/24 15:50	
n-Butylbenzene	ug/L	ND	1.0	02/29/24 15:50	
n-Propylbenzene	ug/L	ND	1.0	02/29/24 15:50	
Naphthalene	ug/L	ND	1.0	02/29/24 15:50	
o-Xylene	ug/L	ND	1.0	02/29/24 15:50	
p-Isopropyltoluene	ug/L	ND	1.0	02/29/24 15:50	
sec-Butylbenzene	ug/L	ND	1.0	02/29/24 15:50	
Styrene	ug/L	ND	1.0	02/29/24 15:50	
tert-Butylbenzene	ug/L	ND	1.0	02/29/24 15:50	
Tetrachloroethene	ug/L	ND	1.0	02/29/24 15:50	
Tetrahydrofuran	ug/L	ND	10.0	02/29/24 15:50	
Toluene	ug/L	ND	1.0	02/29/24 15:50	
Total 1,3-Dichloropropene	ug/L	ND	2.0	02/29/24 15:50	PN2
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/29/24 15:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/29/24 15:50	
Trichloroethene	ug/L	ND	1.0	02/29/24 15:50	
Trichlorofluoromethane	ug/L	ND	1.0	02/29/24 15:50	
Vinyl chloride	ug/L	ND	1.0	02/29/24 15:50	
Xylene (Total)	ug/L	ND	3.0	02/29/24 15:50	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	02/29/24 15:50	
4-Bromofluorobenzene (S)	%	100	75-125	02/29/24 15:50	
Toluene-d8 (S)	%	102	75-125	02/29/24 15:50	

LABORATORY CONTROL SAMPLE: 4896096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	98	75-125	
1,1,1-Trichloroethane	ug/L	20	19.4	97	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	75-131	
1,1,2-Trichloroethane	ug/L	20	20.4	102	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.6	103	75-125	
1,1-Dichloroethane	ug/L	20	19.9	99	75-125	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

LABORATORY CONTROL SAMPLE: 4896096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	20.7	103	75-125	
1,1-Dichloropropene	ug/L	20	22.5	113	75-125	
1,2,3-Trichlorobenzene	ug/L	20	18.9	94	68-125	
1,2,3-Trichloropropane	ug/L	20	19.8	99	75-125	
1,2,4-Trichlorobenzene	ug/L	20	18.4	92	68-125	
1,2,4-Trimethylbenzene	ug/L	20	20.2	101	75-125	
1,2-Dibromo-3-chloropropane	ug/L	20	19.5	97	70-125	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	75-125	
1,2-Dichlorobenzene	ug/L	20	18.0	90	73-125	
1,2-Dichloroethane	ug/L	20	18.5	92	75-125	
1,2-Dichloropropane	ug/L	20	20.4	102	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.5	103	75-125	
1,3-Dichlorobenzene	ug/L	20	18.8	94	75-125	
1,3-Dichloropropane	ug/L	20	20.3	102	75-125	
1,4-Dichlorobenzene	ug/L	20	18.0	90	75-125	
2,2-Dichloropropane	ug/L	20	20.0	100	67-125	
2-Butanone (MEK)	ug/L	100	98.3	98	72-125	
2-Chlorotoluene	ug/L	20	20.0	100	74-125	
4-Chlorotoluene	ug/L	20	20.1	101	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	75-125	
Acetone	ug/L	100	87.7	88	71-125	
Allyl chloride	ug/L	20	18.6	93	75-125	
Benzene	ug/L	20	20.5	103	75-125	
Bromobenzene	ug/L	20	19.1	96	75-125	
Bromochloromethane	ug/L	20	17.1	85	75-125	
Bromodichloromethane	ug/L	20	19.8	99	75-125	
Bromoform	ug/L	20	20.4	102	72-125	
Bromomethane	ug/L	20	16.7	84	63-125	
Carbon disulfide	ug/L	20	20.5	103	74-125	
Carbon tetrachloride	ug/L	20	22.0	110	75-125	
Chlorobenzene	ug/L	20	19.3	97	75-125	
Chloroethane	ug/L	20	21.4	107	65-140	
Chloroform	ug/L	20	19.5	98	75-125	
Chloromethane	ug/L	20	21.7	108	72-127	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	75-125	
Dibromochloromethane	ug/L	20	19.3	97	75-125	
Dibromomethane	ug/L	20	17.7	89	75-125	
Dichlorodifluoromethane	ug/L	20	26.4	132	56-146	
Dichlorofluoromethane	ug/L	20	19.5	97	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	20.1	100	75-126	
Ethylbenzene	ug/L	20	20.5	102	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.1	96	59-125	
Isopropylbenzene (Cumene)	ug/L	20	20.9	105	75-125	
m&p-Xylene	ug/L	40	41.8	104	75-125	
Methyl-tert-butyl ether	ug/L	20	20.6	103	75-125	
Methylene Chloride	ug/L	20	18.9	95	73-125	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

LABORATORY CONTROL SAMPLE: 4896096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/L	20	19.5	97	75-125	
n-Propylbenzene	ug/L	20	21.3	107	75-125	
Naphthalene	ug/L	20	20.1	101	65-130	
o-Xylene	ug/L	20	20.5	103	75-125	
p-Isopropyltoluene	ug/L	20	20.2	101	74-125	
sec-Butylbenzene	ug/L	20	20.7	104	75-125	
Styrene	ug/L	20	19.9	100	75-125	
tert-Butylbenzene	ug/L	20	20.6	103	75-125	
Tetrachloroethene	ug/L	20	20.7	103	75-125	
Tetrahydrofuran	ug/L	100	98.6	99	75-125	
Toluene	ug/L	20	19.2	96	75-125	
Total 1,3-Dichloropropene	ug/L	40	39.4	98	75-125	PN2
trans-1,2-Dichloroethene	ug/L	20	19.8	99	75-125	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	75-125	
Trichloroethene	ug/L	20	20.5	103	75-125	
Trichlorofluoromethane	ug/L	20	20.1	101	75-128	
Vinyl chloride	ug/L	20	21.9	109	69-130	
Xylene (Total)	ug/L	60	62.3	104	75-125	
1,2-Dichlorobenzene-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896097 4896098

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10684450012 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	17.0	17.1	85	85	75-125	0	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20	16.5	16.4	83	82	71-125	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	18.2	18.2	91	91	73-131	0	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	18.1	18.5	90	93	75-126	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	16.6	16.3	83	81	60-131	2	30	
Trichlorotrifluoroethane													
1,1-Dichloroethane	ug/L	ND	20	20	20	17.9	17.9	89	89	75-125	0	30	
1,1-Dichloroethene	ug/L	ND	20	20	20	17.7	17.3	88	86	68-125	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	20	19.1	18.5	96	93	74-125	3	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	15.3	16.4	77	82	68-125	7	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20	17.3	18.3	87	91	74-125	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	15.0	16.0	75	80	68-125	6	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	17.3	17.7	87	88	71-125	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20	17.3	17.8	87	89	70-126	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	16.9	17.3	84	86	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	15.8	16.2	79	81	73-125	3	30	
1,2-Dichloroethane	ug/L	ND	20	20	20	16.7	16.7	83	84	75-125	0	30	
1,2-Dichloropropane	ug/L	ND	20	20	20	18.4	18.2	92	91	75-125	1	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	17.2	17.5	86	87	72-125	1	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896097 4896098												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10684450012	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,3-Dichlorobenzene	ug/L	ND	20	20	16.4	16.8	82	84	75-125	2	30	
1,3-Dichloropropane	ug/L	ND	20	20	18.0	18.3	90	92	75-125	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.8	16.3	79	81	75-125	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	15.4	15.2	77	76	65-125	1	30	
2-Butanone (MEK)	ug/L	ND	100	100	84.1	88.0	84	88	61-130	5	30	
2-Chlorotoluene	ug/L	ND	20	20	17.3	17.3	87	86	72-125	0	30	
4-Chlorotoluene	ug/L	ND	20	20	17.3	17.6	86	88	75-125	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	92.9	94.1	93	94	75-128	1	30	
Acetone	ug/L	ND	100	100	82.7	81.5	81	80	58-126	1	30	
Allyl chloride	ug/L	ND	20	20	16.5	16.3	83	81	70-125	2	30	
Benzene	ug/L	ND	20	20	18.1	18.0	90	89	73-125	1	30	
Bromobenzene	ug/L	ND	20	20	16.9	16.9	84	85	75-125	1	30	
Bromochloromethane	ug/L	ND	20	20	15.3	15.9	77	79	72-125	3	30	
Bromodichloromethane	ug/L	ND	20	20	17.5	18.0	88	90	75-125	3	30	
Bromoform	ug/L	ND	20	20	17.8	17.9	89	89	72-125	1	30	
Bromomethane	ug/L	ND	20	20	11.7	13.2	57	64	34-125	12	30	
Carbon disulfide	ug/L	ND	20	20	17.8	17.5	89	88	60-125	2	30	
Carbon tetrachloride	ug/L	ND	20	20	18.2	17.9	91	89	73-125	2	30	
Chlorobenzene	ug/L	ND	20	20	17.1	16.9	86	85	75-125	1	30	
Chloroethane	ug/L	ND	20	20	18.7	18.2	94	91	58-143	3	30	
Chloroform	ug/L	ND	20	20	17.4	17.5	87	87	75-125	0	30	
Chloromethane	ug/L	ND	20	20	19.1	18.5	95	93	60-135	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.0	17.1	83	83	75-125	0	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.3	17.6	86	88	75-125	2	30	
Dibromochloromethane	ug/L	ND	20	20	16.9	17.4	84	87	74-125	3	30	
Dibromomethane	ug/L	ND	20	20	15.8	16.2	79	81	73-125	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	19.7	19.3	98	97	37-150	2	30	
Dichlorofluoromethane	ug/L	ND	20	20	16.9	16.4	84	82	72-125	3	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	18.4	19.2	92	96	75-126	4	30	
Ethylbenzene	ug/L	ND	20	20	17.8	17.5	89	88	71-125	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	12.6	14.1	63	71	56-125	12	30	
Isopropylbenzene (Cumene)	ug/L	1.2	20	20	18.4	18.2	86	85	75-125	1	30	
m&p-Xylene	ug/L	ND	40	40	35.2	34.8	88	87	71-125	1	30	
Methyl-tert-butyl ether	ug/L	12.8	20	20	30.0	30.8	86	90	75-129	3	30	
Methylene Chloride	ug/L	ND	20	20	17.0	17.3	85	87	66-125	2	30	
n-Butylbenzene	ug/L	ND	20	20	16.3	16.9	81	85	71-125	4	30	
n-Propylbenzene	ug/L	ND	20	20	17.8	17.8	89	89	75-125	0	30	
Naphthalene	ug/L	ND	20	20	19.8	20.4	95	98	65-130	3	30	
o-Xylene	ug/L	ND	20	20	17.8	17.5	88	87	73-125	1	30	
p-Isopropyltoluene	ug/L	ND	20	20	17.0	17.6	85	88	74-125	3	30	
sec-Butylbenzene	ug/L	1.1	20	20	17.7	17.9	83	84	73-125	2	30	
Styrene	ug/L	ND	20	20	17.3	17.3	86	87	75-125	0	30	
tert-Butylbenzene	ug/L	ND	20	20	17.0	17.4	84	86	75-125	2	30	
Tetrachloroethene	ug/L	ND	20	20	17.3	17.1	87	85	68-125	1	30	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896097 4896098												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10684450012 Result	Spike Conc.	Spike Conc.	MS Result							
Tetrahydrofuran	ug/L	ND	100	100	89.5	88.5	90	89	69-127	1	30	
Toluene	ug/L	ND	20	20	17.0	17.0	84	84	71-125	0	30	
Total 1,3-Dichloropropene	ug/L	ND	40	40	33.6	34.3	84	86	72-125	2	30	PN2
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.9	17.0	85	85	72-125	0	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.3	16.7	82	84	75-125	2	30	
Trichloroethene	ug/L	ND	20	20	17.8	17.3	89	87	75-125	3	30	
Trichlorofluoromethane	ug/L	ND	20	20	16.1	15.7	80	78	55-137	2	30	
Vinyl chloride	ug/L	ND	20	20	17.9	17.7	90	88	53-141	1	30	
Xylene (Total)	ug/L	ND	60	60	52.9	52.3	88	87	72-125	1	30	
1,2-Dichlorobenzene-d4 (S)	%						101	100	75-125			
4-Bromofluorobenzene (S)	%						100	100	75-125			
Toluene-d8 (S)	%						98	98	75-125			

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

QC Batch: 933289

Analysis Method: EPA 8270D PAH by SIM

QC Batch Method: EPA 3511

Analysis Description: 8270D PAH by SIM MSSV LV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684716003, 10684716004

METHOD BLANK: 4893132

Matrix: Water

Associated Lab Samples: 10684716003, 10684716004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.040	02/29/24 15:05	
2-Methylnaphthalene	ug/L	ND	0.040	02/29/24 15:05	
Acenaphthene	ug/L	ND	0.040	02/29/24 15:05	
Acenaphthylene	ug/L	ND	0.040	02/29/24 15:05	
Anthracene	ug/L	ND	0.040	02/29/24 15:05	
Benzo(a)anthracene	ug/L	ND	0.040	02/29/24 15:05	
Benzo(a)pyrene	ug/L	ND	0.040	02/29/24 15:05	
Benzo(b)fluoranthene	ug/L	ND	0.040	02/29/24 15:05	
Benzo(e)pyrene	ug/L	ND	0.040	02/29/24 15:05	
Benzo(g,h,i)perylene	ug/L	ND	0.040	02/29/24 15:05	
Benzo(k)fluoranthene	ug/L	ND	0.040	02/29/24 15:05	
Chrysene	ug/L	ND	0.040	02/29/24 15:05	
Dibenz(a,h)anthracene	ug/L	ND	0.040	02/29/24 15:05	
Fluoranthene	ug/L	ND	0.040	02/29/24 15:05	
Fluorene	ug/L	ND	0.040	02/29/24 15:05	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.040	02/29/24 15:05	
Naphthalene	ug/L	ND	0.040	02/29/24 15:05	
Phenanthrene	ug/L	ND	0.040	02/29/24 15:05	
Pyrene	ug/L	ND	0.040	02/29/24 15:05	
2-Fluorobiphenyl (S)	%	115	44-140	02/29/24 15:05	
p-Terphenyl-d14 (S)	%	125	45-133	02/29/24 15:05	

LABORATORY CONTROL SAMPLE & LCSD: 4893133

4893134

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	2.2	2.5	110	126	44-135	14	20	
2-Methylnaphthalene	ug/L	2	2.3	2.5	115	126	42-135	9	20	
Acenaphthene	ug/L	2	2.4	2.7	121	133	60-129	10	20	L1
Acenaphthylene	ug/L	2	2.4	2.7	122	136	46-132	11	20	L1
Anthracene	ug/L	2	2.5	2.8	125	139	64-133	10	20	L1
Benzo(a)anthracene	ug/L	2	2.4	2.6	118	128	58-125	8	20	L1
Benzo(a)pyrene	ug/L	2	2.4	2.7	121	133	44-125	10	20	L1
Benzo(b)fluoranthene	ug/L	2	2.4	2.5	118	126	55-125	6	20	L1
Benzo(e)pyrene	ug/L	2	2.3	2.5	116	125	53-126	8	20	
Benzo(g,h,i)perylene	ug/L	2	2.5	2.7	124	134	46-125	8	20	L1
Benzo(k)fluoranthene	ug/L	2	2.3	2.6	115	130	63-125	12	20	L1
Chrysene	ug/L	2	2.4	2.6	119	129	60-125	8	20	L1
Dibenz(a,h)anthracene	ug/L	2	2.6	2.8	128	139	42-125	8	20	L1
Fluoranthene	ug/L	2	2.4	2.6	120	132	56-125	10	20	L1

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

LABORATORY CONTROL SAMPLE & LCSD: 4893133		4893134								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Fluorene	ug/L	2	2.6	2.8	128	141	51-136	9	20	L1
Indeno(1,2,3-cd)pyrene	ug/L	2	2.5	2.7	123	134	41-125	8	20	L1
Naphthalene	ug/L	2	2.2	2.4	110	120	58-125	8	20	
Phenanthrene	ug/L	2	2.4	2.6	120	131	63-131	9	20	
Pyrene	ug/L	2	2.1	2.3	104	113	62-125	8	20	
2-Fluorobiphenyl (S)	%				106	116	44-140			
p-Terphenyl-d14 (S)	%				108	115	45-133			

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n
 Pace Project No.: 10684716

QC Batch: 2234224	Analysis Method: SM 3500-Fe B
QC Batch Method: 3500Fe B-2011	Analysis Description: Wet Chemistry 3500Fe B-2011
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10684716002

METHOD BLANK: R4038409-1 Matrix: Water

Associated Lab Samples: 10684716002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.0500	02/26/24 16:45	

LABORATORY CONTROL SAMPLE: R4038409-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.00	0.970	97.0	85.0-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4038409-4 R4038409-5

Parameter	Units	R4038409-4		R4038409-5		% Rec Limits	RPD	Max RPD	Qual		
		10684716002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					MSD Result	
Iron, Ferrous	mg/L	ND	1.00	1.00	0.939	0.943	93.9	94.3	80.0-120	0.425	20

SAMPLE DUPLICATE: R4038409-3

Parameter	Units	10684716002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND	0.00	20	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n
 Pace Project No.: 10684716

QC Batch: 934243	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684716002

METHOD BLANK: 4896948 Matrix: Water
 Associated Lab Samples: 10684716002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	03/01/24 11:57	

LABORATORY CONTROL SAMPLE & LCSD: 4896949 4896950

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	40000	41400	41700	104	104	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896951 4896952

Parameter	Units	10685251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	ug/L	26.0 mg/L	40000	40000	66900	67100	102	103	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896953 4896954

Parameter	Units	10684918006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	ug/L	104 mg/L	40000	40000	145000	146000	101	104	80-120	1	20	

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QUALITY CONTROL DATA

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

QC Batch: 933120

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10684716002

METHOD BLANK: 4892435

Matrix: Water

Associated Lab Samples: 10684716002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	ug/L	ND	100	02/22/24 16:27	
Sulfate	ug/L	ND	1200	02/22/24 16:27	

LABORATORY CONTROL SAMPLE: 4892436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	ug/L	4000	4210	105	90-110	
Sulfate	ug/L	50000	53900	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4892437 4892438

Parameter	Units	10684573003		4892437		4892438		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Nitrate as N	ug/L	18000	20000	20000	38100	37800	100	99	80-120	1	20
Sulfate	ug/L	657000	1000000	1000000	1650000	1650000	99	99	80-120	0	20

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QUALIFIERS

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

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 adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 933432

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 934105

[1] The continuing calibration verification was below the method acceptance limit for acetone. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

[2] The continuing calibration verification was above the method acceptance limit for dichlorodifluoromethane. Any detection for the analyte in the associated samples may have a high bias.

[3] Bromomethane did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

ANALYTE QUALIFIERS

1M Result not confirmed by reanalysis conducted outside of the method specified holding time.

B1 Target analyte detected in method blank at or above the method reporting limit.

D1 Sample required dilution due to matrix.

D2 Sample required dilution due to high concentration of target analyte.

E2 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.

H3 Sample was received and analyzed past holding time.

L1 The associated blank spike recovery was above laboratory acceptance limits.

PN2 The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Tucson AZ-Fueling Facility 22n

Pace Project No.: 10684716

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10684716002	WG-2510-MW-22-43-022224	RSK 175	933476		
10684716003	WG-2510-MW-22-41-022224	EPA 3511	933289	EPA 8270D PAH by SIM	933432
10684716004	WG-2510-EW-22-19-022224	EPA 3511	933289	EPA 8270D PAH by SIM	933432
10684716001	WG-2510-TB-03-022224	EPA 8260D	934105		
10684716003	WG-2510-MW-22-41-022224	EPA 8260D	934105		
10684716004	WG-2510-EW-22-19-022224	EPA 8260D	934105		
10684716002	WG-2510-MW-22-43-022224	3500Fe B-2011	2234224	SM 3500-Fe B	2234224
10684716002	WG-2510-MW-22-43-022224	SM 2320B	934243		
10684716002	WG-2510-MW-22-43-022224	EPA 300.0	933120		

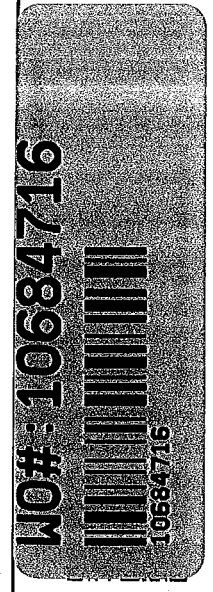
REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields



Pace® Location Requested (City/State):
 Pace Analytical Minnesota
 1700 Elm Street, Suite 200
 Minneapolis, MN 55414

Company Name: UPRR_Jacobs
Street Address: 1501 W. Fountainhead Pkwy #401, Tempe, AZ 85282

Contact/Report To: Ramzi Ramzi
Phone #: (480)295-3916
E-Mail: ramzi.ramzi@jacobs.com
Cc E-Mail:

Invoice To: Becky Rewey
Invoice E-Mail: brewey@up.com
Purchase Order # (if applicable): 2510-10-1Q24-Rev1

Quote #:

County / State origin of sample(s): Arizona

Time Zone Collected: [] AK [] MT [] CT [] ET
Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

Site Collection Info/Facility ID (as applicable):

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Date Results Requested:
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
 Field Filtered (if applicable): [] Yes [] No

Customer Sample ID	Matrix *	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine Results	Units
		Date	Time	Date	Time			
WG-2510-TB-03-022224	WT			2/22/24	0730	2		
WG-2510-MW-22-43-022224	WT			2/22/24	0812	6		
WG-2510-MW-22-41-022224	WT							
WG-2510-MW-22-41-022224	WT			2/22/24	0957	6		
WG-2510-EW-22-19-022224	WT			2/22/24	1131	6		

Specify Container Size **

Identify Container Preservative Type ***

Analysis Requested

8260D VOC

8270D PAH by SIM LV

RSK 175 GCV Headspace

SM3500 Fe B Ferrous Iron

2320B Alkalinity: 300.0 Sulfate/Nitrate

Container Size: (1) 1L (2) 500mL (3) 250mL (4) 125mL (5) 100mL (6) 40mL vial (7) EnCore (8) TerraCore (9) 90mL (10) Other

Preservative Types: (1) None, (2) HNO3, (3) NaHSO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) MeOH, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) Other, (11) Other

Proj. Mgr: Jennifer Gross
AcctNum / Client ID:
Table #:
Profile / Template: 37095
Prelog / Bottle Ord. ID: EZ 3066188

Sample Comment:
 001
 002
 003
 004

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:

Colgys: 1

Thermometer ID: T9

Correction Factor (°C): -0.2

Obs. Temp. (°C): 1.7

Corrected Temp. (°C): 1.5

On Ice: Y

Trading Number: 2/27/24 0850

Date/Time: 2/27/24 0850

Date/Time:

Date/Time:

Date/Time:

Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other

Page: 1 of 1

Additional Instructions from Pace®:

Collected By: Brian Mendoza
Signature: *Brian Mendoza*

Date/Time: 2/22/24 - 1500
Received by/Company (Signature): *Mica U Pace*
Received by/Company (Signature):

Date/Time:
Received by/Company (Signature):

Date/Time:
Received by/Company (Signature):

Date/Time:
Received by/Company (Signature):

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORQ-0019_v02_110123 ©

ENV-FRM-MIN4-0150 v15_Sample Condition Upon Receipt

CLIENT NAME: UPRR Jacobs PROJECT #: **WO#: 10684716**

COURIER: Client Commercial FedEx Pace
 SpeedDee UPS USPS

WO#: 10684716
 PM: JMG Due Date: 03/08/24
 CLIENT: UPRR_Jacobs

TRACKING NUMBER: 7046 1455 4377 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Coole/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A
 Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235) Melted None
 T7 (0042) T8 (0775) T9 (0727) 01339252 (1710)

Did Samples Originate in West Virginia: YES NO IMG 2/23/24
 Correction Factor: 0.2 Cooler Temp Read w/Temp Blank: 1.7 °C Were All Container Temps taken: YES NO N/A
 Cooler Temp Corrected w/Temp Blank: 1.5 °C Average Corrected Temp (no Temp Blank Only): _____ °C
 NOTE: Temp should be above freezing to 6°C See Exceptions Form ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A - Water Sample/Other (describe): _____ Initials & Date of Person Examining Contents: MEVM 2/23/24
 Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: YES NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): YES NO
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	DULUTH	MINNEAPOLIS	VIRGINIA	YES	NO	N/A	COMMENT(S)												
Chain of Custody Present and Filled Out?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.												
Chain of Custody Relinquished?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.												
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.												
Samples Arrived within Hold Time?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No												
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input checked="" type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____												
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.												
Sufficient Sample Volume?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.												
Correct Containers Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.												
- Pace Containers Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.												
Containers Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO												
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142												
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO												
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: <u>VOA</u> , Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <thead> <tr> <th colspan="4">pH Paper Lot #</th> </tr> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	pH Paper Lot #				Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
pH Paper Lot #																			
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip																
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.												
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.												
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142												
Trip Blanks Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15. <u>T82</u> Pace Trip Blank Lot # (if purchased): <u>454617</u>												

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: YES NO
 Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: Janni Gross Date: 2/23/24
 NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).
 Labeled By: OLZ/MEVM Line: 4

Internal Transfer Chain of Custody

C196



Rush Multiplier X
 Samples Pre-Logged into eCOC
 Workorder Name: Tucson AZ-Fueling Facility 22h

State Of Origin: AZ
 Cert. Needed: Yes No

Owner Received Date: 2/23/2024 Results Requested By: 3/8/2024

Report To		Subcontract To		Requested Analysis		
Jennifer Gross Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone (612)607-1700		Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858		5643634 / SM3500 Ferrrous Iron		
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers
1	WG-2510-MW-22-43-022224	PS	2/22/2024 08:12	10684716002	Water	2 AG3H
2						
3						
4						
5						

1760095
 LAB USE ONLY
 -01

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	Beleen/PACE	2/23/24 13:45	CRONERD	02-24-24 09:00
2				
3				

Cooler Temperature on Receipt _____ °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owne

447456423690
 09+0=0.9TLA9

Sample Receipt Checklist
 COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero Headpace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 PA screen <0.5 mR/hr: Y N