David Isaacs

From: McWilliams, Clark <CMcWilliams@scsengineers.com>
Sent: Friday, May 9, 2025 10:58
To: David Isaacs
Cc: Jackson, Kyle; Guffey, Rachel; McCullough, Dan; Whitmer, Stacie; Feldman, Anna; Jessie Griffin
Subject: RE: DEQ - Drew County Surface Water Sampling Report
Attachments: REVISED Drew Class 1 Surface Water Sampling Report.pdf

Good morning David-
Please find attached a revised "Surface Water Sampling Report – Post-Closure Care evaluation", with the corrected units in Appendix D.

Regarding the possible resampling of the downstream surface water sample because the offsite phosphorous results (RatCreekDownOff = 2460 ug/L) -- further review of the surface water laboratory analysis show that two onsite samples included only low levels of phosphorous (DrewCo1 = 13.8J ug/L and DrewCo2 = 73.6BJ ug/L). Both results were flagged as estimates, but acceptable. Additionally, RatCrkUp phosphorous result is undetected but a value of <100 ug/L was reported. However, TDS was high in this sample, and there were detects in one of the method blanks, and a dilution ratio of 5 was used in order to analyze for sulfate content. This indicated that results of RatCrkUp are usable but with limitations, and that a concentration number could not be quantified. The other upstream sample (DrewCoUpstreamOffsite), which is located prior to confluence with Rat Creek exhibits phosphorous results of 22.9 ug/L with a laboratory qualifier that the result is less than 5 time the reporting limit. This result is similar to the onsite sample results of DrewCo1 and DrewCo2.

In further regards to the higher phosphorous number in RatCreekDownOff sample, we have conducted additional evaluation of the area. We have discovered an artisan farm operation about ½ mile upstream from the site. It was a vegetable growing operation in 2021 through the end of 2024. The farm advertised vegetables (including corn, tomatoes, peppers, squash, and cabbage). It appears that the farm also grew sunflowers. All of these crops require a large amount of phosphorous fertilizer. This could account for the elevated level of phosphorous in Rat Creek.

The fact that onsite phosphorous concentrations are all <73.6 ug/L and the fact that there was an artisan farm operation upstream may explain the higher levels of phosphorous in Rat Creek, and we feel that the closed Class 1 landfill does not contribute to unacceptable phosphorous levels in Rat Creek. Therefore, it does not warrant additional sampling.

Thank you and please reach if you have any further questions.

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From: David Isaacs <David.Isaacs@arkansas.gov>
Sent: Monday, April 28, 2025 1:43 PM
To: McWilliams, Clark <CMcWilliams@scsengineers.com>
Subject: DEQ - Drew County Surface Water Sampling Report

This email originated from outside of SCS Engineers. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

I have a couple questions about the Drew County Surface Water Sampling Report:

Appendix D lists certain constituents and in a few cases it looks like the units are incorrect. I have included a couple of examples below:

Constituent	Data Location	Unit	Sample	Value	Notes
Oil & Grease	App. D	mg/L	DrewCoUpstreamOffsite	1520	
	Narrative	mg/L		1.52	
	Lab Report	µg/l		1520	
TDS	App. D	mg/L	DrewCoUpstreamOffsite	126000	Possible Typo
	Narrative	mg/L		12600	
	Lab Report	µg/l		126000	
TDS	App. D	mg/L	DrewCo2	77	All other samples are 1000x highe
	Narrative	mg/L		77	is present in TSS for this sample – wrong in App. D & Narrative as th
	Lab Report	µg/l		77000	correlate to the lab report values.

There are other instances of these kinds of errors, please verify the values given throughout the report.

Given the high Phosphorous levels in RatCrkDownOff, will any resampling be done?

Thank you –

David Isaacs | Solid Waste Engineer
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ARKANSAS
ENERGY & ENVIRONMENT

SCS ENGINEERS



Surface Water Sampling Report
Post Closure Care Evaluation

Drew County Class 1 Landfill

Permit No. 0154-S; AFIN: 22-00040
Monticello, Arkansas

Presented by:

SCS ENGINEERS
9780 Maumelle Blvd.
N. Little Rock, Arkansas 72113
501-812-4551

Revised — May 2025
File No. 27223402

Offices Nationwide
www.scsengineers.com

Professional Engineer's Certification

"I certify to the best of my professional judgment that post-closure care of the Drew County Class I Landfill (0154-S) was evaluated in accordance applicable Arkansas Division of Environmental Quality regulations. This certification is contingent on all information supplied to the signatory authority, at the time of certification is unquestionably accurate and was provided in good faith.



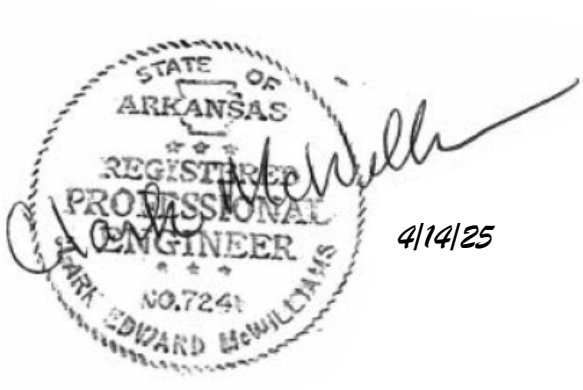


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1 INTRODUCTION

Drew County owns and maintains the closed Drew County Class 1 Landfill (Landfill) under Solid Waste Permit Number 0154-S (Permit) issued by the Arkansas Department of Energy & Environment – Division of Environmental Quality (ADE&E – DEQ). The landfill operated from about 1978 to 1994 and was closed in accordance with federal and state solid waste management regulations of that time, which offered landfill owners a time period to close older landfills rather than upgrade to the newer landfill standards. The Department issued a closure acceptance letter dated September 21, 1994, at which time the site entered into a two (2) year post-closure care period. The post-closure care period has been ongoing at the site for almost three decades. The county continues to monitor and provide some periodic maintenance (e.g., site access control), in addition to managing the harvest and reforestation of the site.

As part of the county's forest management efforts, the site closure presented in the original permit application (DIN 35947) included the planting of trees. This occurred shortly after the 1994 site closure. Subsequently, those trees were harvested around 2012 and again replanted with pine tree seedlings. Currently, the site appears to be mostly covered with ten (10) to twenty (20) foot tall pine trees. The adjacent properties are forested and also appear to be in a forest management program, as evident by periodic harvesting, thinning and reforestation efforts. The closed landfill has been inspected by ADE&E – DEQ each calendar quarter since closure. The inspection reports have indicated some issues, such as limited vegetative cover, erosion and cracking of cover soils, and possible leachate seeps.

The Drew County Class 1 landfill remains in post-closure care permit status. Numerous correspondence throughout the recent past has addressed the end of the post-closure care period. A Department letter written on December 2, 2009 (DIN 56070) requested a certification of post-closure care completion. The forestation and reforestation of the site is an issue for the post-closure care completion. Although woody vegetation was outlined in the permit application years prior, under current regulations woody vegetation is prohibited. On April 27, 2021, (DIN 79968) the Department issued a statement that the post-closure care had not been adequately completed, and requested corrective action for areas of depressions and removal of trees and overgrown vegetation on the final cover.

In an effort to address the post-closure care plan requirement as written in DIN 79968 and the post-closure care certification requirement as written in DIN 56070, SCS Engineers, in consultation with the Department, evaluated surface water conditions at the site. Comparing surface water analytical results with offsite surface water conditions provides information about potential impacts to surface water from the closed site. A part of this report, both onsite and offsite surface water samples were obtained and analyzed.

1.1 Site Location

The Landfill is located approximately five miles northeast of Monticello, Arkansas, off County Road 83 (Jose Chapel Road) in a rural part of Drew County. It is situated on an 80-acre tract of land within Sections 29 and 32, Township 11 South, Range 6 West, Drew County, Arkansas. A site location map is presented in **APPENDIX A** as **FIGURE 1**.

1.2 Site Surface Water Drainage

The southern portion of the acreage is of gentle undulating higher elevations that slopes gently to the north. The terrain in the north is much flatter with slopes ranging from 1 to 3%. Drainage is generally to the North into Rat Creek which flows northeast across the northwest corner of the property. Some flooding occurs in this vicinity. An intermittent stream flows north along the western border of the property and intersects with Rat Creek. An onsite surface drainage map is presented in **APPENDIX A** as **FIGURE 3**.

Rat Creek continues offsite to the northeast approximately 3/4 mile before intersecting with Upper Cutoff Creek. Upper Cutoff Creek flows south approximately 12 stream miles and enters the northern tip of Seven Devils Swamp. The swamp extends south for 5 miles where Cutoff Creek continues south as a drain from the swamp approximately 15 stream miles where it intersects with Bayou Bartholomew just inside Ashley County.

2 FIELD SAMPLING

The sampling event at the Landfill was conducted January 27, 2025. The sampling plan included taking surface water samples in landfill seep prone areas and surface water from upstream and downstream of the site in order to determine any impacts from the site. Standard QA/QC water sampling protocols were utilized. A summary of the field measurements for the surface water sampling event is presented in **TABLE 1**.

TABLE 1 - FIELD MEASUREMENTS

SAMPLE POINT	DATE	TIME	TEMP. (°C)	pH (SU)	SPEC. COND. (uS/cm)	DISS. OX. (mg/L)	ORP (mV)	TURBIDITY (NTU)
DrewCo1	1/27/2025	1420	9.8	6.46	216.4	12.02	155.4	5.69
DrewCo2	1/27/2025	1128	7.90	6.45	57.6	6.55	163.2	41.3
DrewCo3*	1/27/2025	1450	7.6	6.80	651	122.1	78.1	>1100
RatCrkUp	1/27/2025	1310	9.3	5.96	331.2	10.98	240.6	3.50
DrewCoUpstreamOffsite	1/27/2025	1230	8.8	5.83	0.2	9.85	212.5	3.87
RatCrkDownOff	1/27/2025	1350	8.9	6.42	224.9	12.86	163.2	3.39

**DrewCo3 sample location shown to SCS personnel by adjacent landowner after all bottle kits had been filled. Sample held overnight in plastic water bottle prior to field measurements 1/28/25.*

Sample DrewCo3 was collected along the western property boundary after being directed to the location by a local resident who arrived after the majority of the sampling event had been completed. Due to the offsite drainage potential of the area upstream along Rat Creek, it was decided that another sample was warranted in that area. Two samples had already been taken in that area, which completed the sampling with the allotted laboratory sample bottles. A spare unpreserved plastic sample bottle was utilized to store sample DrewCo3, since the laboratory sample bottles provided had already been filled. DrewCo3 was placed on ice. The decision whether to lab analyze the sample was made after the sample was returned to the office. Based on the sample location and the need to understand the potential site impacts to offsite, it was determined to proceed with laboratory analysis for this sample. However, sample volume was limited; therefore, only a few laboratory parameters could be analyzed. Prior to shipping the sample for analysis, typical field parameters were recorded. As shown above, dissolved oxygen is erroneously high for sample DrewCo3 and was not validated for use in evaluating site conditions.

The field data was recorded on field forms presented in **APPENDIX B** *Surface Water Sampling Field Records*. A trip blank (a pre-prepared container of laboratory reagent water) was shipped, unopened, to and from the field in the cooler with the other sample containers. Its purpose was to identify any contaminants that may have been introduced into samples during transit to and from the laboratory.

Analytical results and copies of the laboratory Chain-of-Custody forms are included in **APPENDIX E.**

3 SURFACE WATER SAMPLING AND RESULTS

The sampling results described in this section are for the surface water sampling event conducted at the Landfill, and are summarized in the following sections, tables, and appendices.

3.1 Surface Water Quality

This Surface Water Sampling Report presents the results of the surface water sampling event, which was conducted by representatives of SCS Engineers (SCS) on January 27, 2025. Pace Analytical in Mount Juliet, Tennessee performed the analytical testing for the surface water samples collected from onsite and offsite. The parameters chosen for analysis included select compounds from Arkansas Pollution Control and Ecology, Rule 22, Appendix 1 constituents, and select compounds from Point Source Non-Stormwater NPDES – Landfills, and from Water Quality Standards – Rule 2.501 (nutrients, minerals, toxic substances). Some of these parameters overlap with different rules and regulations, but the analysis list was intended to be reflective of possible contaminant effects upon area surface water. TABLE 2 represents the list of parameters.

TABLE 2. PARAMETERS

ACETONE	ALKALINITY
ACRYLONITRILE	CHLORIDE
BENZENE	SULFATE
BROMOCHLOROMETHANE	TDS
BROMODICHLOROMETHANE	TSS
CARBON TETRACHLORIDE	TOC
BROMOFORM	COD
BROMETHANE	PHOSPHATE
CARBON DISULFIDE	ANTIMONY
CARBON TETRACHLORIDE	ARSENIC
CHLOROBENZENE	BARIUM
CHLORODIBROMOMETHANE	BERYLLIUM
CHLOROETHANE	CADMIUM
CHLOROFORM	CHROMIUM
CHLOROMETHANE	COBALT
DIBROMOMETHANE	COPPER
1,2 DIBROMOETHANE	IRON
1,2-DIBROMO-3-CHLOROPROPANE	LEAD
1,2, DICHLOROBENZENE	MERCURY
1,4, DICHLOROBENZENE	NICKEL
TRANS- 1,4-DICHLORO-2-BUTENE	SELENIUM
1,1 DICHLOROETHANE	SILVER
1,2 DICHLOROETHANE	THALLIUM
1,1-DICHLOROETHENE	VANADIUM
CIS-1,2-DICHLOROETHENE	ZINC
TRANS-1,2-DICHLOROETHENE	*DISSOLVED OXYGEN*

1,2-DICHLOROPROPANE	*ORP*
CIS-1,3-DICHLOROPROPENE	*pH*
TRANS-1,3-DICHLOROPROPENE	*SPECIFIC CONDUCTIVITY*
ETHYLBENZENE	*TEMPERATURE*
2-HEXANONE	*TURBIDITY*
IODOMETHANE	
METHYL ETHYL KETONE	
METHYLENE CHLORIDE	
4- METHYL-2-PENTANONE	
STYRENE	
1,1,1,2-TETRACHLOROETHANE	
1,1,2,2- TETRACHLOROETHANE	
TETRACHLOROETHANE	
TOLUENE	
1,1,1-TRICHLOROETHANE	
1,1,2-TRICHLOROETHANE	
TRICHLOROETHENE	
TRICHLOROFLUOROMETHANE	
1,2,3-TRICHLOROPROPANE	
VINYL ACETATE	
VINYL CHLORIDE	
XYLENES	
OIL AND GREASE AMMONIA NITROGEN	
KJELDAHL NITROGEN	
NITRATE-NITRITE	
PHOSPHORUS	*Field parameters italicized*

3.2 Quality Assurance/ Quality Control Results

Decontamination and QA/QC for this event were conducted in accordance with the procedures outlined in the site's sampling plan. The trip blank was reported as non-detect for all VOC parameters. A planned duplicate sample was replaced by an additional surface water sample due to site conditions encountered during the event. An upstream offsite location was not easily determined due to the flat, meandering creek, so an additional offsite sample was obtained and analyzed in place of a duplicate. Although, the extra sample replaced the planned duplicate sample, the laboratory quality control and assurance report illustrates adequate information to determine that the results are reliable.

3.3 Laboratory Analytical Results

TABLE 3 presents a summary of the surface water quality for the detected constituents at their respective sampling location points. VOC's were not detected in any of the surface water samples, except in one onsite sample for one parameter. Some results in the table present "J" value concentrations for some parameters; these denote estimated concentrations between the method detection level (MDL) and the practical quantitation level (PQL).

The upstream sample locations were identified during the field event. Rat Creek, upstream from the site, is flat and meandering, and an onsite drainage pattern exits the western portion of the site before entering Rat Creek just off the property boundary. The sample location labeled "DrewCoUpstreamOffsite" is after the confluence of the site's offsite drainage entering Rat Creek and sample labeled "RatCrkUp" "is above that confluence. "RatCrkUp" is the upstream location unaffected by the site drainage. See **FIGURE 3** for the offsite western drainage pattern, Also see **APPENDIX D – Analytical Results Map** for a summary of the results illustrated on the sample location map.

TABLE 3 – SURFACE WATER QUALITY RESULTS

SAMPLE POINT	ALKALINITY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CHEMICAL OXYGEN DEMAND	CHLORIDE	CHROMIUM	COBALT
	mg/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	ug/L	ug/L
DrewCo1	4.89 J	0.318 J	69.7	0.621 J	0.132 J	<20.0	10.5	<2.0	10.1
DrewCo2	9.28 J	1.09 J	25.4	<2.0	<1.0	41.9	1.50	1.24 J	1.13 J
DrewCo3	37.0	NA	NA	NA	NA	NA	32.5	NA	NA
DrewCoUpstreamOffsite	<20	0.256 J	66.9	0.621 J	<1.0	16.4 J	7.93	<2.0	9.83
RatCrkUp	<20	0.280 J	114	2.39	0.314 J	<20.0	25.1	<2.0	30.8
RatCrkDownOff	5.0 J	0.371 J	71.6	0.715 J	0.160 J	14.4 J	10.7	<2.0	10.2

"J" values denote estimated concentrations between the method detection level (MDL) and the practical quantitation level (PQL).
"B" values denote laboratory Method Blank contamination.

SAMPLE POINT	COPPER	IRON	LEAD	NICKEL	NITRATE-NITRITE	OIL & GREASE	PHOSPHORUS	SULFATE	TOLUENE
	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	ug/L
DrewCo1	0.903 B J	233	<2.0	6.69	59.0 J	<5.05	13.8 J	77.3	<1.0
DrewCo2	2.22 B J	1,340	0.962 J	<2.0	61.0 J	<5.00	73.6 B J	2.18 J	1.24
DrewCo3	NA	NA	NA	NA	NA	NA	NA	236	NA
DrewCoUpstreamOffsite	3.12 B J	133	<2.0	6.16	<200	1.52 J	22.9 J	71.6 J	<1.0
RatCrkUp	0.943 B J	95.1 J	<2.0	18.1	<200	<5.00	<100	128	<1.0
RatCrkDownOff	0.938 B J	252	<2.0	7.16	73.0 J	<5.05	2,460	78.1	<1.0

"J" values denote estimated concentrations between the method detection level (MDL) and the practical quantitation level (PQL).
"B" values denote laboratory Method Blank contamination.

TABLE 3 – SURFACE WATER QUALITY RESULTS (con't)

SAMPLE POINT	TOTAL DISSOLVED SOLIDS	TOTAL SUSPENDED SOLIDS	TOTAL KJELDAHL NITROGEN	TOTAL ORGANIC CARBON	VANADIUM	ZINC
	mg/L	mg/L	ug/L	mg/L	ug/L	ug/L
DrewCo1	136	4.84	198 J	2.96	<5.0	34.0
DrewCo2	77.0	11.5	564	9.44	3.25 J	6.67 J
DrewCo3	NA	NA	NA	NA	NA	NA
DrewCoUpstreamOffsite	126	1.68 J	<250	2.55	<5.0	30.2
RatCrkUp	215	2.00 J	<250	3.43	<5.0	88.8
RatCrkDownOff	140	2.42 J	135 J	2.94	<5.0	37

"J" values denote estimated concentrations between the method detection level (MDL) and the practical quantitation level (PQL).
"B" values denote laboratory Method Blank contamination.

4 EVALUATION AND CONCLUSIONS

Generally, the site is well vegetated and wooded. There are a few remnants of old landfill operations (e.g., culverts and undulating mounts). However, the site topography "fits" well with the undisturbed portions of the property. The site has been and is used mainly for hunting. Numerous deer hunting stands, blinds and food plots are located throughout the site. A few creek crossings were noted during the January sampling event. One crossing includes a wooden bridge structure for 4-wheeler or side-by-side traffic.

DrewCo3 sample location was in an area frequently visited during hunting and included disturbed areas (i.e., rutting and bare ground). DrewCo3 was also the only sample location that visually looked as though it could be a seep from the old landfill operations. However, no exposed waste was observed. See **APPENDIX C - Photo Log** for photos of the site and the sample locations.

The following conclusions are based on the results of the surface water sampling event and analytical testing:

- Analytical results for VOCs were non-detect for upstream, onsite and downstream samples, except for onsite DrewCo2 where Toluene was detected at 1.24 ug/L. Toluene is not detected in the other onsite or downstream offsite samples, and the location is a well vegetated cap portion of the closed landfill. In general, impacts from VOC contaminants do not appear to be a concern.

- Onsite metals concentrations were below offsite surface water results, indicating no impact from onsite surface waters.

- TDS results for offsite surface water are much higher than onsite, This is possibly due to impacts from upstream of the site. Onsite TDS values are a factor of 5x – 10x below onsite results. Onsite TDS does not appear to be negatively affecting offsite surface water.

- TSS results indicate similar condition as the TDS, except for sample DrewCo1. DrewCo1 is in the central portion of the site and was in an area less wooded and frequented by off road vehicles when compared to the other onsite samples. This may have contributed to TSS of the sample results.

- The upstream surface water sulfate concentration was higher than onsite surface water results, except for sample DrewCo3. DrewCo3 was a very turbid sample which could result in higher sulfate concentration. Onsite phosphorous concentrations were all below offsite except DrewCo2; however laboratory quality control indicated phosphorous was detected in the method blank; therefore, the phosphorous result of DrewCo2 could be suspect.

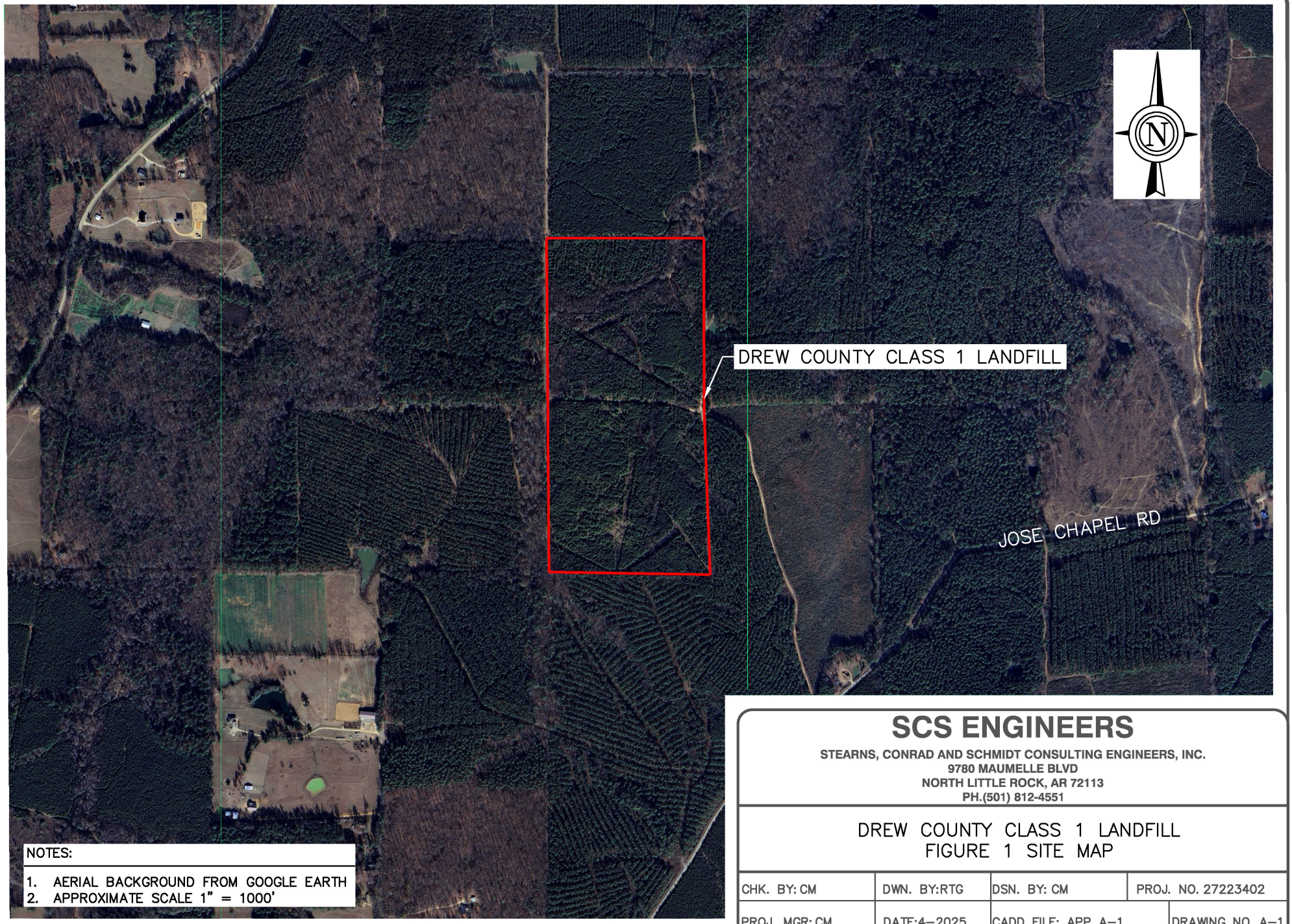
- Chemical Oxygen Demand (COD) for one onsite surface water sample (DrewCo2) was slightly elevated compared to offsite samples. However, DrewCo2 sample location was on a well vegetated area of the closed landfill, taken from a standing water source rather than a running water source. Degrading organic vegetation can result in higher COD values.

The closed Drew County Class 1 landfill located on Jose Chapel Road northeast of Monticello, Arkansas is well vegetated. There is some undulating topography around the site (results of past trench disposal operations), but those too are well vegetated and appear to blend well with the area topography. There was no exposed municipal waste observed onsite. In general, the surface water quality analytical results indicate little to no impact from the site to offsite surface water.

Long-term maintenance has included property management of silviculture practices. Exposure to waste or waste chemical constituents does not exist. The site was closed in 1994 and is environmentally stable based on the surface site conditions and surface water analysis. Therefore, it is concluded that additional human health or environmental impact analysis is not warranted.

Future long-term environmental stability is apparent based on current and past site post closure care implementation. Therefore, post-closure care could be discontinued under the guidance of Interstate Technology & Regulatory Council (ITRC), "Evaluating, Optimizing, or Ending Post-Closure Care at Municipal Solid Wate Landfills Based on Site-Specific Data Evaluations" (September 2006), and the Solid Waste Association of North America (SWANA) "T-9.3 – Termination of Municipal Solid Waste Post-Closure Care Requirements" (January 2019). The county wishes to discontinue post-closure care for the closed landfill. They have performed over 30 years of post-closure care since the landfill was closed. The surface water samples indicate stable site conditions. On behalf of Drew County, SCS requests consideration of ending post-closure care for the closed Drew County Class 1 landfill.

APPENDIX A
Figures



NOTES:

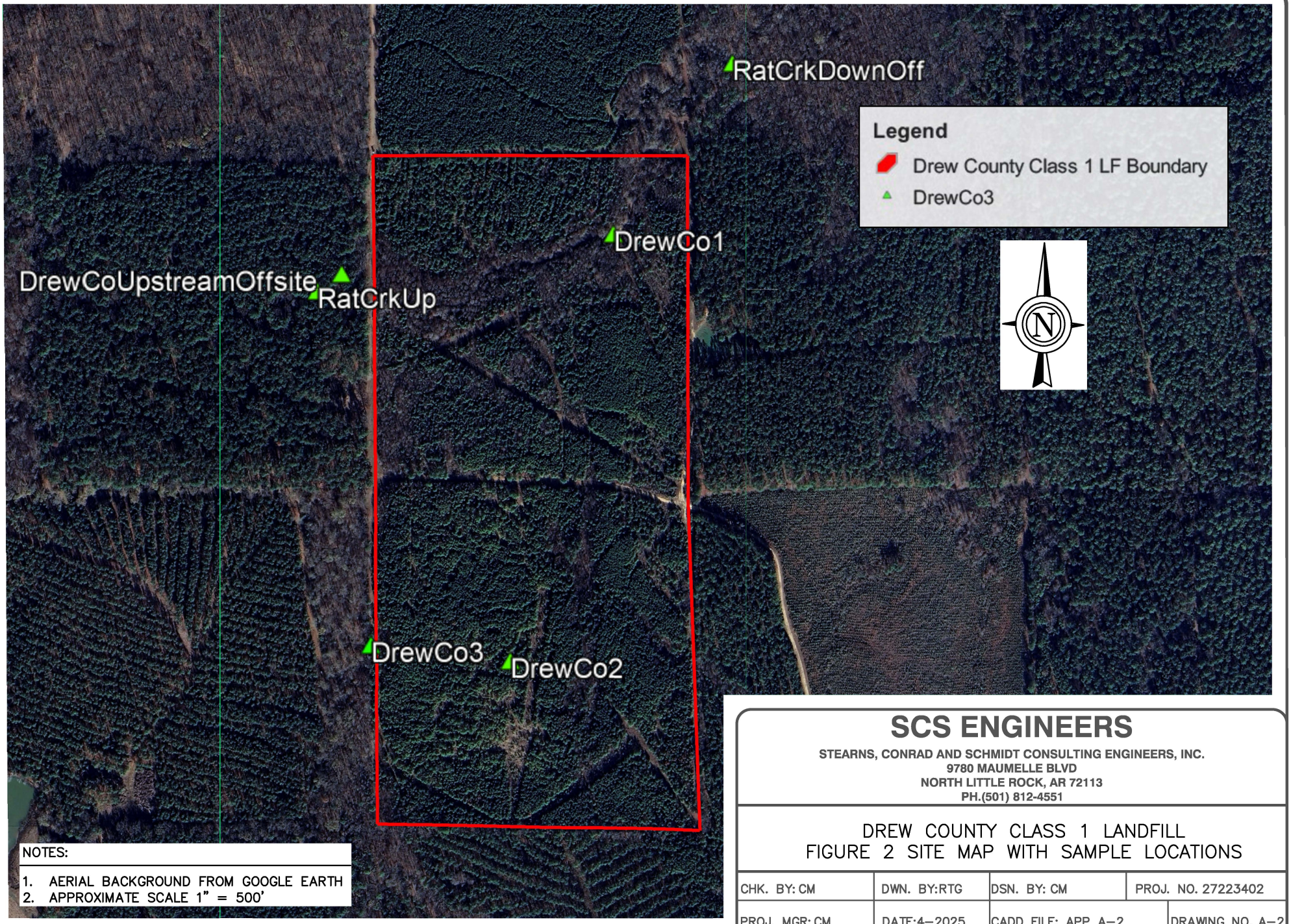
1. AERIAL BACKGROUND FROM GOOGLE EARTH
2. APPROXIMATE SCALE 1" = 1000'

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DREW COUNTY CLASS 1 LANDFILL
FIGURE 1 SITE MAP

CHK. BY: CM	DWN. BY:RTG	DSN. BY: CM	PROJ. NO. 27223402
PROJ. MGR: CM	DATE:4–2025	CADD FILE: APP A–1	DRAWING NO. A–1



NOTES:

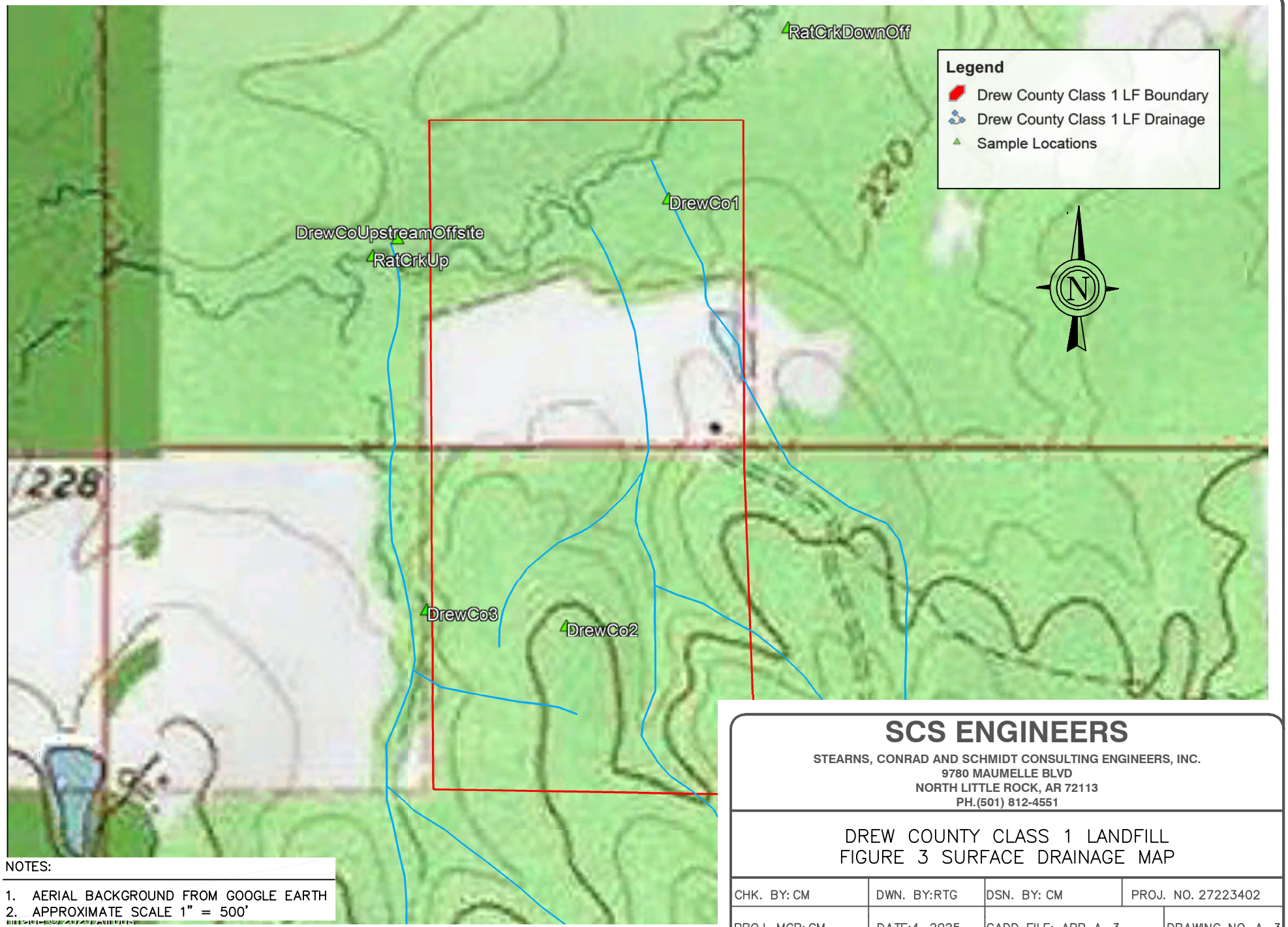
1. AERIAL BACKGROUND FROM GOOGLE EARTH
2. APPROXIMATE SCALE 1" = 500'

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DREW COUNTY CLASS 1 LANDFILL
FIGURE 2 SITE MAP WITH SAMPLE LOCATIONS

CHK. BY: CM	DWN. BY:RTG	DSN. BY: CM	PROJ. NO. 27223402
PROJ. MGR: CM	DATE:4–2025	CADD FILE: APP A–2	DRAWING NO. A–2



NOTES:

1. AERIAL BACKGROUND FROM GOOGLE EARTH
2. APPROXIMATE SCALE 1" = 500'

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DREW COUNTY CLASS 1 LANDFILL
FIGURE 3 SURFACE DRAINAGE MAP

CHK. BY: CM	DWN. BY:RTG	DSN. BY: CM	PROJ. NO. 27223402
PROJ. MGR: CM	DATE:4–2025	CADD FILE: APP A–3	DRAWING NO. A–3

APPENDIX B
Surface Water Sampling
Field Records

SCS FIELD SERVICES

Meter Calibration Log

Project Name: Drum Co Site Sampling

Date of Calibration: 11/27

Technician: _____

YSI Pro Calibration

Model# _____ Serial # _____

Temperature Reading _____

DO Membrane Changed? Y N Color of Membrane _____

	Pre Cal	After Cal	Diagnostic Value	Acceptable Constant
Conductivity	1407	1413	_____	5.0+/-0.5
ORP	215.8	220.0		
DO	_____	_____	_____	Yellow Membrane: 6.15 uA (min 4.31uA, Max 8.00 uA Blue Membrane: 3.38uA (2.37 uA, Max 4.40 uA

	Pre Cal			
pH 7	7.13	pH mV value	_____	Range 0 mV + 50 mV
pH 4	_____	pH mV value	_____	Range +165 to +180 from 7 buffer mV value
pH 10	_____	pH mV value	_____	Range -165 to -180 from 7 buffer mV value
		pH Slope	_____	between 55 and 60 mV

Calibration Buffer Solutic	Lot Number	Cal Range
pH 7	_____	_____
pH 4	_____	_____
pH 10	_____	_____
Conductivity	_____	_____
ORP	_____	_____

Turbidity Meter Calibration

Model# _____ Serial # _____

Calibration Time _____

GEL Value	Pre Cal Chec	Cal Y or N ?	After Calibration
0-10 range	_____	_____	_____
0-100 range	_____	_____	_____
0-1,000 range	_____	_____	_____

Problems or Comments: _____

_____

Technician Signature: _____ Date: _____

QC'd By: _____ Date: _____

SCS FIELD SERVICES

Field Surface Water Sampling Record

Facility Drew Co Class I **Date** 1/27 **Well No.**

Sampling Personnel

Casing Diameter **Condition of well** **Locked?**

Well Depth **DTW (from TOC)** **Volume H2O in well**

Other Information

Date	Time	Volume (gallons)	Pumping Rate (mL/min)	pH (SU)	Temp (°C)	D.O. (mg/L)	ORP (mV)	S.C (µSm)	Turbidity (NTU)	Water Level (TOC)
RATCHS DOWN OF	1350	—	—	6.42	8.9	~~12.4~~ 12.80	163.2	224.9	3.39	—
DREWCO 1	1420	—	—	6.46	9.8	12.02	155.4	216.4	5.69	
DREWCO 3 *	1450	—	—	6.80	7.6	122.1	78.1	651	>1100	

Sampling Date & Time

Notes

* DREWCO 3: Small instance of what resembles contaminated water shown by Barton Nolan. Sample held overnight in plastic, prior to field measurements. Analyzed for. Cl, SO4 and VOCs.

SCS FIELD SERVICES

Field Surface Water Sampling Record

Facility _____ **Date** _____ **Well No.** DREWCO UPSTREAM OFFSITE

Sampling Personnel _____

Casing Diameter _____ **Condition of well** _____ **Locked?** _____

Well Depth _____ **DTW (from TOC)** _____ **Volume H2O in well** _____

Other Information

Date	Time	Volume (gallons)	Pumping Rate (mL/min)	pH (SU)	Temp (°C)	D.O. (mg/L)	ORP (mV)	S.C (µSm)	Turbidity (NTU)	Water Level (TOC)
	1230	—	—	5.83	18.8	9.85	212.5	0.2	3.87	—
RAT CRK UP	1310			5.96	9.3	10.98	240.6	331.2	3.50	

Sampling Date & Time _____

Notes

Sampled 2 bail, ambiguity

SCS FIELD SERVICES

Field Surface Water Sampling Record

Facility _____ **Date** 1/27/25 **Well No.** SW - Drain to Class I

Sampling Personnel _____

Casing Diameter _____ **Condition of well** _____ **Locked?** _____

Well Depth _____ **DTW (from TOC)** _____ **Volume H2O in well** _____

Other Information

33.717426o, -91.7949227

DREWC02 - 115 ft from marked pin

No evidence of leachate or any SW loc's in the area (pictures taken)

Sampled @ 1128

Date	Time	Volume (gallons)	Pumping Rate (mL/min)	pH (SU)	Temp (°C)	D.O. (mg/L)	ORP (mV)	S.C (µSm)	Turbidity (NTU)	Water Level (TOC)
1/27	1128	—	—	N/A 6.45	7.90	6.55	163.2	57.6	41.3	—

Sampling Date & Time _____

Notes _____

Revised 5/2020

Company Name/Address:
SCS Engineers - Little Rock, AR

9780 Maumelle Blvd.
North Little Rock, AR 72113

Billing Information:
Accounts Payable
9780 Maumelle Blvd.
N. Little Rock, AR 72113

Pres Chk

Report to: **Stacie Whitmer**

Email To: **SWhitmer@scsengineers.com**

Project Description: **Drew Co Landfill**

City/State Collected: Monticello AR

Please Circle: PT MT CT ET

Phone: **501-812-4551**

Client Project #

Lab Project #: **CHIROCKAR-DREW**

Collected by (print): Anna Feldman

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK,CHLORIDE,SULFATE 125mlHDPE-NoPres	COD,PT 250mlHDPE-H2SO4	M6020AP1+FEG 250mlHDPE-HNO3	NH3,NO2NO3, TKN 250mlHDPE-H2SO4	OGHEX 1L-Clr-WT-HCl	PORTHO 100ml Amb NoPres	TDS,TSS 1L-HDPE NoPres	TOC 250mlAmb-HCl	V8260AP1 40mlAmb-HCl		
DREWCO2	G	GW		1/27/25	1128		✓	✓	✓	✓	✓	✓	✓	✓	✓		
DREWCOUPSTREAMOFFSITE		GW			1230												
RATCRKUP		GW			1310												
RATCRK DOWNOFF		GW			1350												
DREWCO1		GW			1420												
Trip Blank	Lab														✓		

CL, SO4, COD
TDS, TSS
Turbidity
8260 ✓

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG #

Table #

Acctnum: **CHIROCKAR**
Template: **T264541**
Prelogin: **P1116210**
PM: **134 - Mark W. Beasley**
PB: 11/21/24 BK

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	1/27/25	2000			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK

APPENDIX C
Photo Log



Drew County Photo Locations

Legend

- DrewCoSamplePoints
- DrewCoPhotosTrimmed

-91.742403 33.719075 Site Entrance 1



-91.744753 33.717428 DrewCo2 Sample Location 2



-91.746589	33.719989	DrewCoUpstreamOffsite - flowing S	3



-91.746886 33.721361 RatCrkUp - flowing E 4



-91.741853 33.723956 RatCrkDownOff 5



-91.743331 33.722028 DrewCo1 6



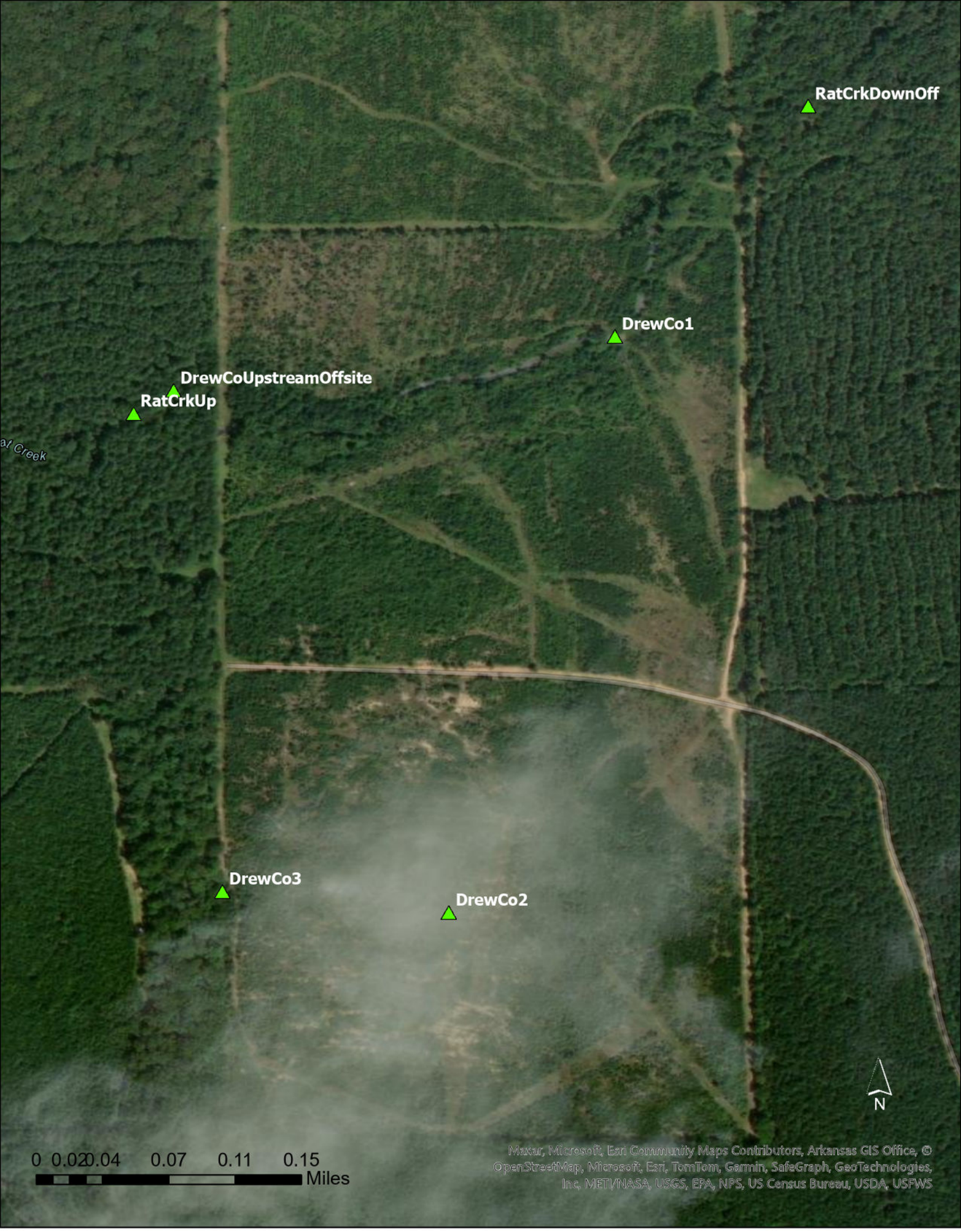
-91.746553 33.717578 DrewCo3 7



-91.746553 33.717578 DrewCo3 channel 8

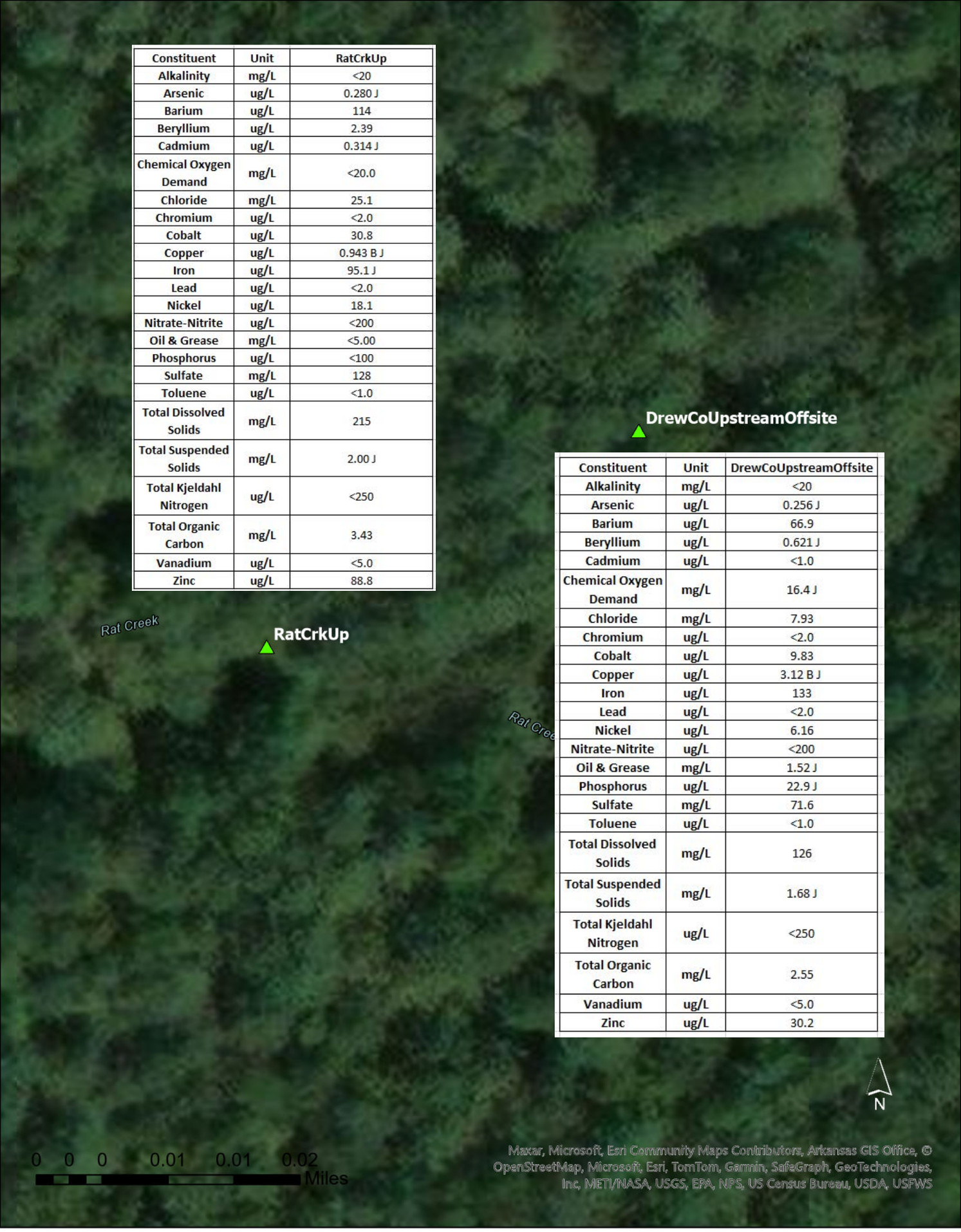


APPENDIX D
Analytical Results Map



Drew County Sampling Locations 1/27/2025

SampleID	X	Y
RatCrkUp	-91.747296	33.721447
DrewCoUpstreamOffsite	-91.746973	33.721634
DrewCo1	-91.74341	33.72207
DrewCo3	-91.746579	33.717591
DrewCo2	-91.744752	33.717421
RatCrkDownOff	-91.74185	33.723929

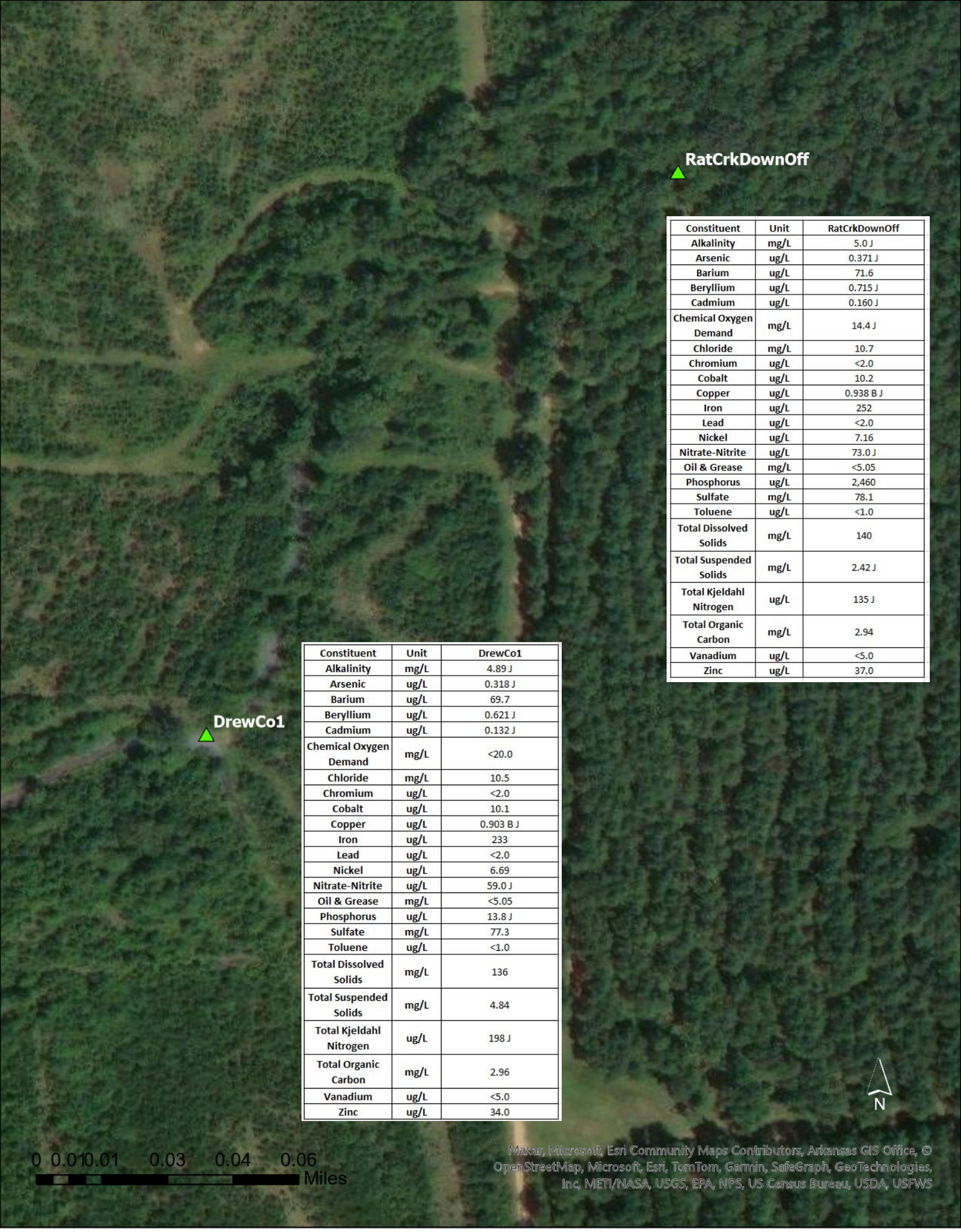


Constituent	Unit	RatCrkUp
Alkalinity	mg/L	<20
Arsenic	ug/L	0.280 J
Barium	ug/L	114
Beryllium	ug/L	2.39
Cadmium	ug/L	0.314 J
Chemical Oxygen Demand	mg/L	<20.0
Chloride	mg/L	25.1
Chromium	ug/L	<2.0
Cobalt	ug/L	30.8
Copper	ug/L	0.943 B J
Iron	ug/L	95.1 J
Lead	ug/L	<2.0
Nickel	ug/L	18.1
Nitrate-Nitrite	ug/L	<200
Oil & Grease	mg/L	<5.00
Phosphorus	ug/L	<100
Sulfate	mg/L	128
Toluene	ug/L	<1.0
Total Dissolved Solids	mg/L	215
Total Suspended Solids	mg/L	2.00 J
Total Kjeldahl Nitrogen	ug/L	<250
Total Organic Carbon	mg/L	3.43
Vanadium	ug/L	<5.0
Zinc	ug/L	88.8

Constituent	Unit	DrewCoUpstreamOffsite
Alkalinity	mg/L	<20
Arsenic	ug/L	0.256 J
Barium	ug/L	66.9
Beryllium	ug/L	0.621 J
Cadmium	ug/L	<1.0
Chemical Oxygen Demand	mg/L	16.4 J
Chloride	mg/L	7.93
Chromium	ug/L	<2.0
Cobalt	ug/L	9.83
Copper	ug/L	3.12 B J
Iron	ug/L	133
Lead	ug/L	<2.0
Nickel	ug/L	6.16
Nitrate-Nitrite	ug/L	<200
Oil & Grease	mg/L	1.52 J
Phosphorus	ug/L	22.9 J
Sulfate	mg/L	71.6
Toluene	ug/L	<1.0
Total Dissolved Solids	mg/L	126
Total Suspended Solids	mg/L	1.68 J
Total Kjeldahl Nitrogen	ug/L	<250
Total Organic Carbon	mg/L	2.55
Vanadium	ug/L	<5.0
Zinc	ug/L	30.2

Drew County Sampling Locations 1/27/2025

SampleID	X	Y
RatCrkUp	-91.747296	33.721447
DrewCoUpstreamOffsite	-91.746973	33.721634
DrewCo1	-91.74341	33.72207
DrewCo3	-91.746579	33.717591
DrewCo2	-91.744752	33.717421
RatCrkDownOff	-91.74185	33.723929

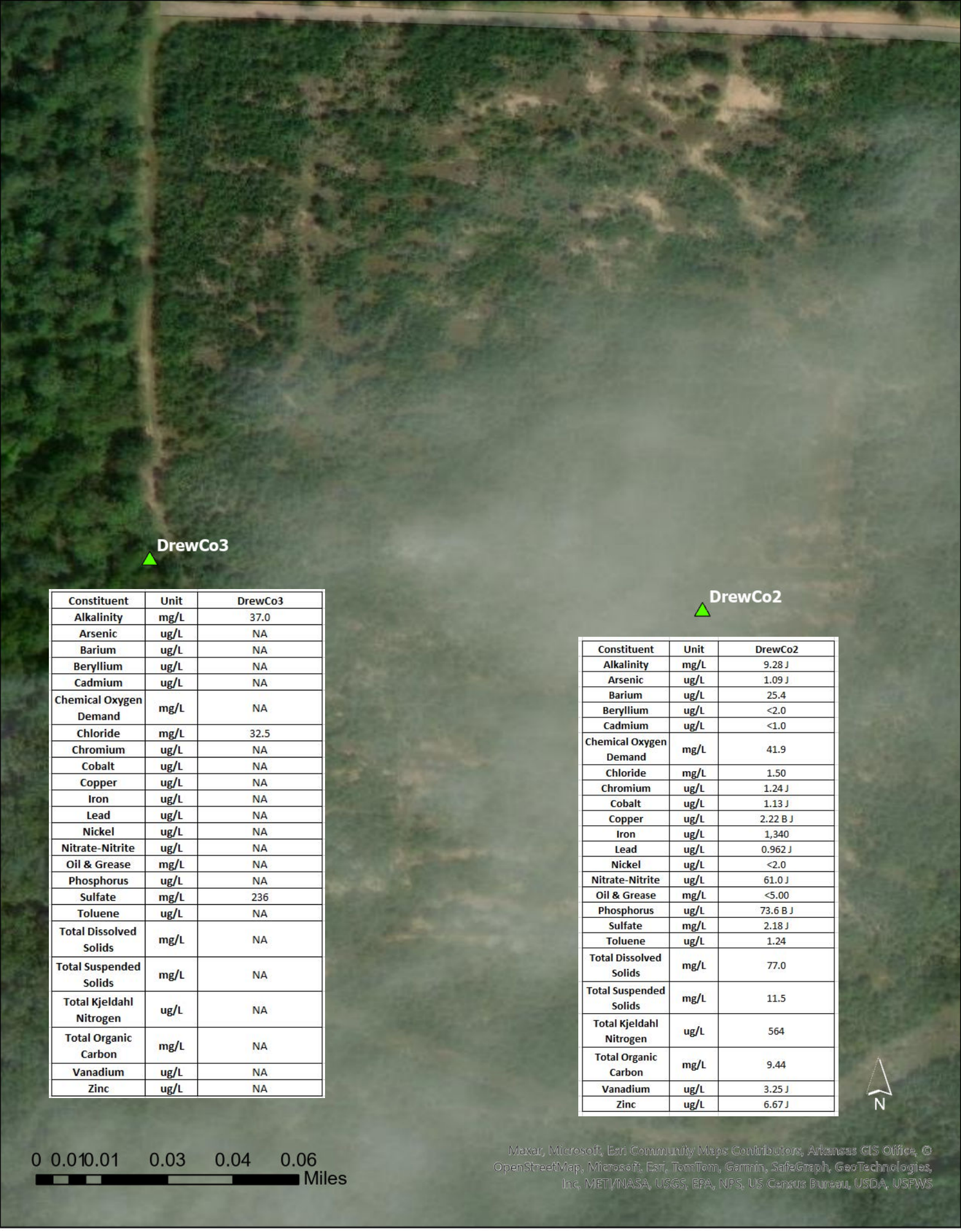


Constituent	Unit	RatCrkDownOff
Alkalinity	mg/L	5.0 J
Arsenic	ug/L	0.371 J
Barium	ug/L	71.6
Beryllium	ug/L	0.715 J
Cadmium	ug/L	0.160 J
Chemical Oxygen Demand	mg/L	14.4 J
Chloride	mg/L	10.7
Chromium	ug/L	<2.0
Cobalt	ug/L	10.2
Copper	ug/L	0.938 B J
Iron	ug/L	252
Lead	ug/L	<2.0
Nickel	ug/L	7.16
Nitrate-Nitrite	ug/L	73.0 J
Oil & Grease	mg/L	<5.05
Phosphorus	ug/L	2,460
Sulfate	mg/L	78.1
Toluene	ug/L	<1.0
Total Dissolved Solids	mg/L	140
Total Suspended Solids	mg/L	2.42 J
Total Kjeldahl Nitrogen	ug/L	135 J
Total Organic Carbon	mg/L	2.94
Vanadium	ug/L	<5.0
Zinc	ug/L	37.0

Constituent	Unit	DrewCo1
Alkalinity	mg/L	4.89 J
Arsenic	ug/L	0.318 J
Barium	ug/L	69.7
Beryllium	ug/L	0.621 J
Cadmium	ug/L	0.132 J
Chemical Oxygen Demand	mg/L	<20.0
Chloride	mg/L	10.5
Chromium	ug/L	<2.0
Cobalt	ug/L	10.1
Copper	ug/L	0.903 B J
Iron	ug/L	233
Lead	ug/L	<2.0
Nickel	ug/L	6.69
Nitrate-Nitrite	ug/L	59.0 J
Oil & Grease	mg/L	<5.05
Phosphorus	ug/L	13.8 J
Sulfate	mg/L	77.3
Toluene	ug/L	<1.0
Total Dissolved Solids	mg/L	136
Total Suspended Solids	mg/L	4.84
Total Kjeldahl Nitrogen	ug/L	198 J
Total Organic Carbon	mg/L	2.96
Vanadium	ug/L	<5.0
Zinc	ug/L	34.0

Drew County Sampling Locations 1/27/2025

SampleID	X	Y
RatCrkUp	-91.747296	33.721447
DrewCoUpstreamOffsite	-91.746973	33.721634
DrewCo1	-91.74341	33.72207
DrewCo3	-91.746579	33.717591
DrewCo2	-91.744752	33.717421
RatCrkDownOff	-91.74185	33.723929



Constituent	Unit	DrewCo3
Alkalinity	mg/L	37.0
Arsenic	ug/L	NA
Barium	ug/L	NA
Beryllium	ug/L	NA
Cadmium	ug/L	NA
Chemical Oxygen Demand	mg/L	NA
Chloride	mg/L	32.5
Chromium	ug/L	NA
Cobalt	ug/L	NA
Copper	ug/L	NA
Iron	ug/L	NA
Lead	ug/L	NA
Nickel	ug/L	NA
Nitrate-Nitrite	ug/L	NA
Oil & Grease	mg/L	NA
Phosphorus	ug/L	NA
Sulfate	mg/L	236
Toluene	ug/L	NA
Total Dissolved Solids	mg/L	NA
Total Suspended Solids	mg/L	NA
Total Kjeldahl Nitrogen	ug/L	NA
Total Organic Carbon	mg/L	NA
Vanadium	ug/L	NA
Zinc	ug/L	NA

Constituent	Unit	DrewCo2
Alkalinity	mg/L	9.28 J
Arsenic	ug/L	1.09 J
Barium	ug/L	25.4
Beryllium	ug/L	<2.0
Cadmium	ug/L	<1.0
Chemical Oxygen Demand	mg/L	41.9
Chloride	mg/L	1.50
Chromium	ug/L	1.24 J
Cobalt	ug/L	1.13 J
Copper	ug/L	2.22 B J
Iron	ug/L	1,340
Lead	ug/L	0.962 J
Nickel	ug/L	<2.0
Nitrate-Nitrite	ug/L	61.0 J
Oil & Grease	mg/L	<5.00
Phosphorus	ug/L	73.6 B J
Sulfate	mg/L	2.18 J
Toluene	ug/L	1.24
Total Dissolved Solids	mg/L	77.0
Total Suspended Solids	mg/L	11.5
Total Kjeldahl Nitrogen	ug/L	564
Total Organic Carbon	mg/L	9.44
Vanadium	ug/L	3.25 J
Zinc	ug/L	6.67 J

Drew County Sampling Locations 1/27/2025

SampleID	X	Y
RatCrkUp	-91.747296	33.721447
DrewCoUpstreamOffsite	-91.746973	33.721634
DrewCo1	-91.74341	33.72207
DrewCo3	-91.746579	33.717591
DrewCo2	-91.744752	33.717421
RatCrkDownOff	-91.74185	33.723929

APPENDIX E
Laboratory Analytical Results

ANALYTICAL REPORT

February 04, 2025

SCS Engineers - Little Rock, AR

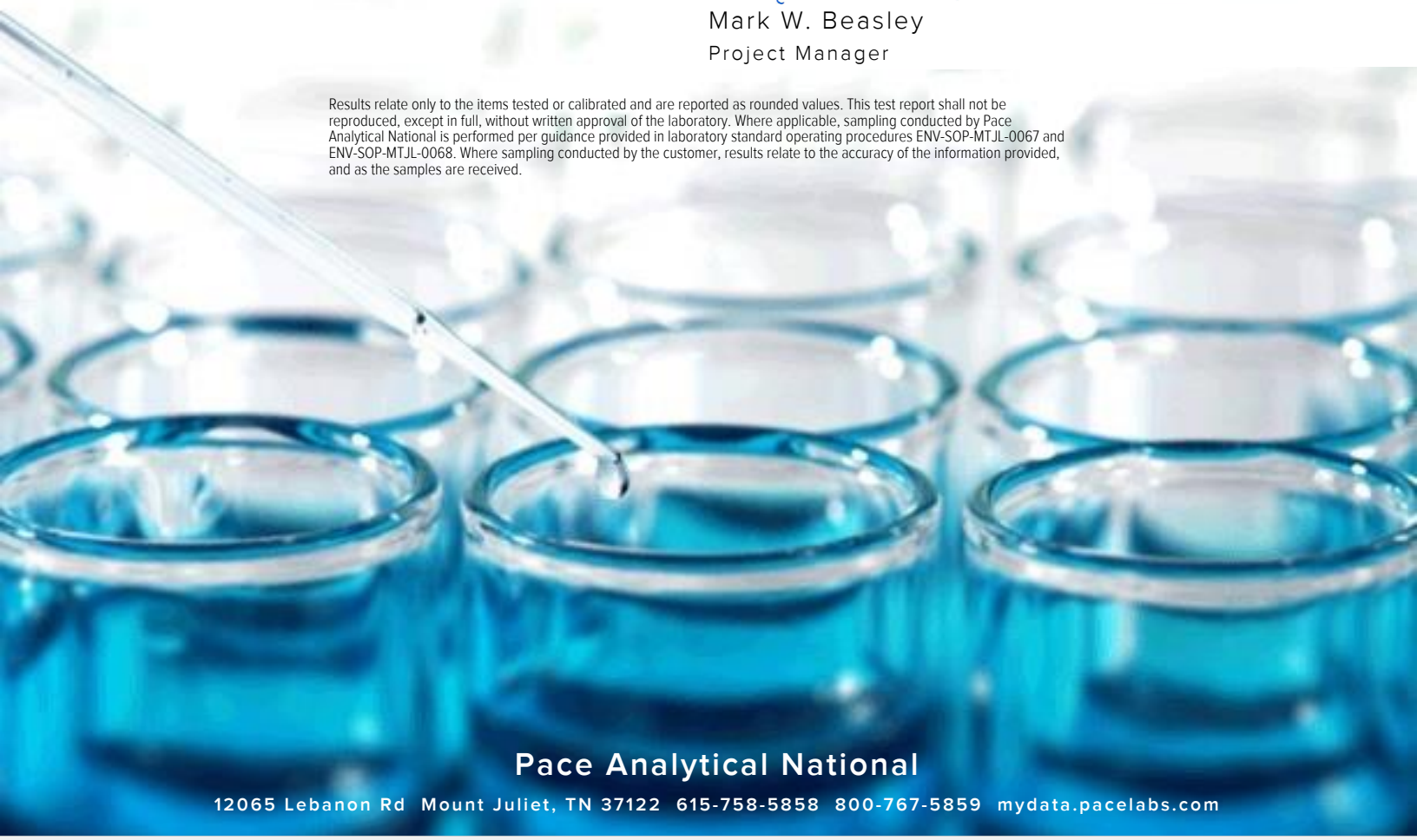
Sample Delivery Group:	L1821374
Samples Received:	01/30/2025
Project Number:	
Description:	Drew Co Landfill

Report To: Stacie Whitmer
9780 Maumelle Blvd.
North Little Rock, AR 72113

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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DRWECO2 L1821374-01 GW

Collected by: Anna Feldman | Collected date/time: 01/27/25 11:28 | Received date/time: 01/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2442941	1	01/30/25 14:57	01/31/25 12:03	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2442855	1	01/31/25 09:56	02/01/25 21:39	AMG	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2444191	1	02/02/25 07:06	02/02/25 12:26	TJL	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2442706	1	01/30/25 14:32	01/30/25 14:32	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2443021	1	02/03/25 19:46	02/03/25 19:46	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2443246	1	01/31/25 07:27	02/02/25 15:19	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2444612	1	02/03/25 13:47	02/03/25 13:47	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2445180	1	02/03/25 20:46	02/03/25 22:32	AEC	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2442475	1	01/30/25 15:00	01/30/25 18:46	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500P E-2011	WG2442603	1	01/30/25 12:51	01/30/25 12:51	JAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2442617	1	02/01/25 01:32	02/01/25 01:32	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2442750	1	01/30/25 23:33	01/30/25 23:33	TMH	Mt. Juliet, TN
Mercury by Method 7470A	WG2442940	1	02/02/25 17:58	02/03/25 18:20	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2442894	1	01/30/25 21:13	01/31/25 00:28	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2443911	1	01/31/25 23:20	01/31/25 23:20	ADM	Mt. Juliet, TN

DREWCOUPSTREAMOFFSITE L1821374-02 GW

Collected by: Anna Feldman | Collected date/time: 01/27/25 12:30 | Received date/time: 01/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2442941	1	01/30/25 14:57	01/31/25 12:03	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2442855	1	01/31/25 09:56	02/01/25 21:39	AMG	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2444191	1	02/02/25 07:06	02/02/25 12:26	TJL	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2442706	1	01/30/25 14:34	01/30/25 14:34	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2443021	1	02/03/25 19:47	02/03/25 19:47	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2443246	1	01/31/25 07:27	02/02/25 15:21	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2444612	1	02/03/25 13:48	02/03/25 13:48	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2444593	1	01/31/25 07:27	02/02/25 23:38	AEC	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2442475	1	01/30/25 15:00	01/30/25 18:47	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500P E-2011	WG2442603	1	01/30/25 12:51	01/30/25 12:51	JAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2442617	1	02/01/25 02:44	02/01/25 02:44	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2442750	1	01/30/25 23:52	01/30/25 23:52	TMH	Mt. Juliet, TN
Mercury by Method 7470A	WG2442940	1	02/02/25 17:58	02/03/25 18:22	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2442894	1	01/30/25 21:13	01/31/25 00:31	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2443911	1	01/31/25 23:40	01/31/25 23:40	ADM	Mt. Juliet, TN

RATCRKUP L1821374-03 GW

Collected by: Anna Feldman | Collected date/time: 01/27/25 13:10 | Received date/time: 01/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2442941	1	01/30/25 14:57	01/31/25 12:03	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2442855	1	01/31/25 09:56	02/01/25 21:39	AMG	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2444191	1	02/02/25 07:06	02/02/25 12:26	TJL	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2442706	1	01/30/25 14:37	01/30/25 14:37	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2443021	1	02/03/25 19:49	02/03/25 19:49	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2443246	1	01/31/25 07:27	02/02/25 15:24	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2444612	1	02/03/25 13:50	02/03/25 13:50	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2445180	1	02/03/25 20:46	02/03/25 22:34	AEC	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2442475	1	01/30/25 15:00	01/30/25 18:47	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500P E-2011	WG2442603	1	01/30/25 12:51	01/30/25 12:51	JAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2442617	1	02/01/25 03:37	02/01/25 03:37	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2442617	5	02/01/25 03:55	02/01/25 03:55	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2442750	1	01/31/25 00:15	01/31/25 00:15	TMH	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

RATCRKUP L1821374-03 GW

Collected by: Anna Feldman | Collected date/time: 01/27/25 13:10 | Received date/time: 01/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG2442940	1	02/02/25 17:58	02/03/25 18:24	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2442894	1	01/30/25 21:13	01/31/25 00:40	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2442894	1	01/30/25 21:13	01/31/25 21:09	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2443911	1	02/01/25 00:00	02/01/25 00:00	ADM	Mt. Juliet, TN

RATCRKDOWNOFF L1821374-04 GW

Collected by: Anna Feldman | Collected date/time: 01/27/25 13:50 | Received date/time: 01/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2442941	1	01/30/25 14:57	01/31/25 12:03	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2442855	1	01/31/25 09:56	02/01/25 21:39	AMG	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2444191	1	02/02/25 07:06	02/02/25 12:26	TJL	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2442706	1	01/30/25 14:39	01/30/25 14:39	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2443021	1	02/03/25 19:50	02/03/25 19:50	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2443246	1	01/31/25 07:27	02/02/25 15:30	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2444612	1	02/03/25 13:52	02/03/25 13:52	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2444593	1	01/31/25 07:27	02/02/25 23:47	AEC	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2442475	1	01/30/25 15:00	01/30/25 18:47	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500P E-2011	WG2442603	1	01/30/25 12:52	01/30/25 12:52	JAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2442617	1	02/01/25 04:13	02/01/25 04:13	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2442750	1	01/31/25 00:38	01/31/25 00:38	TMH	Mt. Juliet, TN
Mercury by Method 7470A	WG2442940	1	02/02/25 17:58	02/03/25 18:27	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2442894	1	01/30/25 21:13	01/31/25 00:43	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2442894	1	01/30/25 21:13	01/31/25 21:12	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2443911	1	02/01/25 00:20	02/01/25 00:20	ADM	Mt. Juliet, TN

DRWECO1 L1821374-05 GW

Collected by: Anna Feldman | Collected date/time: 01/27/25 14:20 | Received date/time: 01/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2442941	1	01/30/25 14:57	01/31/25 12:03	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2020	WG2442855	1	01/31/25 09:56	02/01/25 21:39	AMG	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2444191	1	02/02/25 07:06	02/02/25 12:26	TJL	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2442706	1	01/30/25 14:42	01/30/25 14:42	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2443021	1	02/03/25 19:52	02/03/25 19:52	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2443246	1	01/31/25 07:27	02/02/25 15:32	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2444612	1	02/03/25 13:55	02/03/25 13:55	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2444593	1	01/31/25 07:27	02/02/25 23:48	AEC	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2442475	1	01/30/25 15:00	01/30/25 18:48	JEG	Mt. Juliet, TN
Wet Chemistry by Method 4500P E-2011	WG2442603	1	01/30/25 12:52	01/30/25 12:52	JAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2442617	1	02/01/25 04:49	02/01/25 04:49	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2442750	1	01/31/25 01:00	01/31/25 01:00	TMH	Mt. Juliet, TN
Mercury by Method 7470A	WG2442940	1	02/02/25 17:58	02/03/25 18:33	NDL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2442894	1	01/30/25 21:13	01/31/25 00:47	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2442894	1	01/30/25 21:13	01/31/25 21:16	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2443911	1	02/01/25 00:39	02/01/25 00:39	ADM	Mt. Juliet, TN

TRIP BLANK L1821374-06 GW

Collected by: Anna Feldman
Collected date/time: 01/27/25 00:00
Received date/time: 01/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2443911	1	01/31/25 21:00	01/31/25 21:00	ADM	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Sample Delivery Group (SDG) Narrative

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

Lab Sample ID	Project Sample ID	Method
L1821374-02	DREWCOUPSTREAMOFFSITE	2540 D-2020
L1821374-03	RATCRKUP	2540 D-2020
L1821374-04	RATCRKDOWNOFF	2540 D-2020

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	77000		10000	1	01/31/2025 12:03	WG2442941

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Suspended Solids	11500		376	3330	1	02/01/2025 21:39	WG2442855

Wet Chemistry by Method 1664B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	U		1400	5000	1	02/02/2025 12:26	WG2444191

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	9280	J	4750	20000	1	01/30/2025 14:32	WG2442706

Sample Narrative:

L1821374-01 WG2442706: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	U		53.9	100	1	02/03/2025 19:46	WG2443021

Wet Chemistry by Method 351.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	564		131	250	1	02/02/2025 15:19	WG2443246

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	61.0	J	43.5	200	1	02/03/2025 13:47	WG2444612

Wet Chemistry by Method 365.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	73.6	B J	3.73	100	1	02/03/2025 22:32	WG2445180

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	41900		14100	20000	1	01/30/2025 18:46	WG2442475

Wet Chemistry by Method 4500P E-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphate,Ortho	U	T8	19.6	30.0	1	01/30/2025 12:51	WG2442603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1500		547	1000	1	02/01/2025 01:32	WG2442617
Sulfate	2180	J	637	5000	1	02/01/2025 01:32	WG2442617

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	9440		495	1000	1	01/30/2025 23:33	WG2442750

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0700	0.200	1	02/03/2025 18:20	WG2442940

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony	U		0.310	4.00	1	01/31/2025 00:28	WG2442894
Arsenic	1.09	J	0.120	2.00	1	01/31/2025 00:28	WG2442894
Barium	25.4		0.500	2.00	1	01/31/2025 00:28	WG2442894
Beryllium	U		0.200	2.00	1	01/31/2025 00:28	WG2442894
Cadmium	U		0.120	1.00	1	01/31/2025 00:28	WG2442894
Chromium	1.24	J	0.900	2.00	1	01/31/2025 00:28	WG2442894
Copper	2.22	B J	0.700	5.00	1	01/31/2025 00:28	WG2442894
Cobalt	1.13	J	0.100	2.00	1	01/31/2025 00:28	WG2442894
Iron	1340		22.6	100	1	01/31/2025 00:28	WG2442894
Lead	0.962	J	0.500	2.00	1	01/31/2025 00:28	WG2442894
Nickel	U		0.500	2.00	1	01/31/2025 00:28	WG2442894
Selenium	U		0.250	2.00	1	01/31/2025 00:28	WG2442894
Silver	U		0.110	2.00	1	01/31/2025 00:28	WG2442894
Thallium	U		0.130	2.00	1	01/31/2025 00:28	WG2442894
Vanadium	3.25	J	0.520	5.00	1	01/31/2025 00:28	WG2442894
Zinc	6.67	J	4.00	25.0	1	01/31/2025 00:28	WG2442894

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	01/31/2025 23:20	WG2443911
Acrylonitrile	U		0.671	10.0	1	01/31/2025 23:20	WG2443911
Benzene	U		0.0941	1.00	1	01/31/2025 23:20	WG2443911
Bromochloromethane	U		0.128	1.00	1	01/31/2025 23:20	WG2443911
Bromodichloromethane	U		0.136	1.00	1	01/31/2025 23:20	WG2443911
Bromoform	U		0.129	1.00	1	01/31/2025 23:20	WG2443911
Bromomethane	U	J4	0.605	5.00	1	01/31/2025 23:20	WG2443911
Carbon disulfide	U		0.0962	1.00	1	01/31/2025 23:20	WG2443911
Carbon tetrachloride	U		0.128	1.00	1	01/31/2025 23:20	WG2443911
Chlorobenzene	U		0.116	1.00	1	01/31/2025 23:20	WG2443911
Chlorodibromomethane	U	J3	0.140	1.00	1	01/31/2025 23:20	WG2443911
Chloroethane	U	C3	0.192	5.00	1	01/31/2025 23:20	WG2443911
Chloroform	U		0.111	5.00	1	01/31/2025 23:20	WG2443911
Chloromethane	U		0.960	2.50	1	01/31/2025 23:20	WG2443911
Dibromomethane	U		0.122	1.00	1	01/31/2025 23:20	WG2443911
1,2-Dibromoethane	U		0.126	1.00	1	01/31/2025 23:20	WG2443911
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	01/31/2025 23:20	WG2443911
1,2-Dichlorobenzene	U		0.107	1.00	1	01/31/2025 23:20	WG2443911

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	01/31/2025 23:20	WG2443911
trans-1,4-Dichloro-2-butene	U		0.467	2.50	1	01/31/2025 23:20	WG2443911
1,1-Dichloroethane	U		0.100	1.00	1	01/31/2025 23:20	WG2443911
1,2-Dichloroethane	U		0.0819	1.00	1	01/31/2025 23:20	WG2443911
1,1-Dichloroethene	U		0.188	1.00	1	01/31/2025 23:20	WG2443911
cis-1,2-Dichloroethene	U		0.126	1.00	1	01/31/2025 23:20	WG2443911
trans-1,2-Dichloroethene	U		0.149	1.00	1	01/31/2025 23:20	WG2443911
1,2-Dichloropropane	U		0.149	1.00	1	01/31/2025 23:20	WG2443911
cis-1,3-Dichloropropene	U		0.111	1.00	1	01/31/2025 23:20	WG2443911
trans-1,3-Dichloropropene	U		0.118	1.00	1	01/31/2025 23:20	WG2443911
Ethylbenzene	U		0.137	1.00	1	01/31/2025 23:20	WG2443911
2-Hexanone	U		0.787	10.0	1	01/31/2025 23:20	WG2443911
Iodomethane	U	C3	6.00	10.0	1	01/31/2025 23:20	WG2443911
2-Butanone (MEK)	U	C3	1.19	10.0	1	01/31/2025 23:20	WG2443911
Methylene Chloride	U		0.430	5.00	1	01/31/2025 23:20	WG2443911
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	01/31/2025 23:20	WG2443911
Styrene	U		0.118	1.00	1	01/31/2025 23:20	WG2443911
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	01/31/2025 23:20	WG2443911
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	01/31/2025 23:20	WG2443911
Tetrachloroethene	U		0.300	1.00	1	01/31/2025 23:20	WG2443911
Toluene	1.24		0.278	1.00	1	01/31/2025 23:20	WG2443911
1,1,1-Trichloroethane	U		0.149	1.00	1	01/31/2025 23:20	WG2443911
1,1,2-Trichloroethane	U		0.158	1.00	1	01/31/2025 23:20	WG2443911
Trichloroethene	U		0.190	1.00	1	01/31/2025 23:20	WG2443911
Trichlorofluoromethane	U		0.160	5.00	1	01/31/2025 23:20	WG2443911
1,2,3-Trichloropropane	U		0.237	2.50	1	01/31/2025 23:20	WG2443911
Vinyl acetate	U		0.692	10.0	1	01/31/2025 23:20	WG2443911
Vinyl chloride	U		0.234	1.00	1	01/31/2025 23:20	WG2443911
Xylenes, Total	U		0.174	3.00	1	01/31/2025 23:20	WG2443911
(S) Toluene-d8	*100*			*80.0-120*		*01/31/2025 23:20*	WG2443911
(S) 4-Bromofluorobenzene	*95.4*			*77.0-126*		*01/31/2025 23:20*	WG2443911
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*01/31/2025 23:20*	WG2443911

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	126000		10000	1	01/31/2025 12:03	WG2442941

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Suspended Solids	1680	J	297	2630	1	02/01/2025 21:39	WG2442855

Wet Chemistry by Method 1664B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	1520	J	1410	5050	1	02/02/2025 12:26	WG2444191

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	U		4750	20000	1	01/30/2025 14:34	WG2442706

Sample Narrative:

L1821374-02 WG2442706: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	U		53.9	100	1	02/03/2025 19:47	WG2443021

Wet Chemistry by Method 351.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	U		131	250	1	02/02/2025 15:21	WG2443246

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	02/03/2025 13:48	WG2444612

Wet Chemistry by Method 365.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	22.9	J P1	3.73	100	1	02/02/2025 23:38	WG2444593

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	16400	J	14100	20000	1	01/30/2025 18:47	WG2442475

Wet Chemistry by Method 4500P E-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphate,Ortho	U	T8	19.6	30.0	1	01/30/2025 12:51	WG2442603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	7930		547	1000	1	02/01/2025 02:44	WG2442617
Sulfate	71600	J6	637	5000	1	02/01/2025 02:44	WG2442617

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2550		495	1000	1	01/30/2025 23:52	WG2442750

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0700	0.200	1	02/03/2025 18:22	WG2442940

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony	U		0.310	4.00	1	01/31/2025 00:31	WG2442894
Arsenic	0.256	J	0.120	2.00	1	01/31/2025 00:31	WG2442894
Barium	66.9		0.500	2.00	1	01/31/2025 00:31	WG2442894
Beryllium	0.621	J	0.200	2.00	1	01/31/2025 00:31	WG2442894
Cadmium	U		0.120	1.00	1	01/31/2025 00:31	WG2442894
Chromium	U		0.900	2.00	1	01/31/2025 00:31	WG2442894
Copper	3.12	B J	0.700	5.00	1	01/31/2025 00:31	WG2442894
Cobalt	9.83		0.100	2.00	1	01/31/2025 00:31	WG2442894
Iron	133		22.6	100	1	01/31/2025 00:31	WG2442894
Lead	U		0.500	2.00	1	01/31/2025 00:31	WG2442894
Nickel	6.16		0.500	2.00	1	01/31/2025 00:31	WG2442894
Selenium	U		0.250	2.00	1	01/31/2025 00:31	WG2442894
Silver	U		0.110	2.00	1	01/31/2025 00:31	WG2442894
Thallium	U		0.130	2.00	1	01/31/2025 00:31	WG2442894
Vanadium	U		0.520	5.00	1	01/31/2025 00:31	WG2442894
Zinc	30.2		4.00	25.0	1	01/31/2025 00:31	WG2442894

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	01/31/2025 23:40	WG2443911
Acrylonitrile	U		0.671	10.0	1	01/31/2025 23:40	WG2443911
Benzene	U		0.0941	1.00	1	01/31/2025 23:40	WG2443911
Bromochloromethane	U		0.128	1.00	1	01/31/2025 23:40	WG2443911
Bromodichloromethane	U		0.136	1.00	1	01/31/2025 23:40	WG2443911
Bromoform	U		0.129	1.00	1	01/31/2025 23:40	WG2443911
Bromomethane	U	J4	0.605	5.00	1	01/31/2025 23:40	WG2443911
Carbon disulfide	U		0.0962	1.00	1	01/31/2025 23:40	WG2443911
Carbon tetrachloride	U		0.128	1.00	1	01/31/2025 23:40	WG2443911
Chlorobenzene	U		0.116	1.00	1	01/31/2025 23:40	WG2443911
Chlorodibromomethane	U	J3	0.140	1.00	1	01/31/2025 23:40	WG2443911
Chloroethane	U	C3	0.192	5.00	1	01/31/2025 23:40	WG2443911
Chloroform	U		0.111	5.00	1	01/31/2025 23:40	WG2443911
Chloromethane	U		0.960	2.50	1	01/31/2025 23:40	WG2443911
Dibromomethane	U		0.122	1.00	1	01/31/2025 23:40	WG2443911
1,2-Dibromoethane	U		0.126	1.00	1	01/31/2025 23:40	WG2443911
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	01/31/2025 23:40	WG2443911
1,2-Dichlorobenzene	U		0.107	1.00	1	01/31/2025 23:40	WG2443911

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	01/31/2025 23:40	WG2443911
trans-1,4-Dichloro-2-butene	U		0.467	2.50	1	01/31/2025 23:40	WG2443911
1,1-Dichloroethane	U		0.100	1.00	1	01/31/2025 23:40	WG2443911
1,2-Dichloroethane	U		0.0819	1.00	1	01/31/2025 23:40	WG2443911
1,1-Dichloroethene	U		0.188	1.00	1	01/31/2025 23:40	WG2443911
cis-1,2-Dichloroethene	U		0.126	1.00	1	01/31/2025 23:40	WG2443911
trans-1,2-Dichloroethene	U		0.149	1.00	1	01/31/2025 23:40	WG2443911
1,2-Dichloropropane	U		0.149	1.00	1	01/31/2025 23:40	WG2443911
cis-1,3-Dichloropropene	U		0.111	1.00	1	01/31/2025 23:40	WG2443911
trans-1,3-Dichloropropene	U		0.118	1.00	1	01/31/2025 23:40	WG2443911
Ethylbenzene	U		0.137	1.00	1	01/31/2025 23:40	WG2443911
2-Hexanone	U		0.787	10.0	1	01/31/2025 23:40	WG2443911
Iodomethane	U	C3	6.00	10.0	1	01/31/2025 23:40	WG2443911
2-Butanone (MEK)	U	C3	1.19	10.0	1	01/31/2025 23:40	WG2443911
Methylene Chloride	U		0.430	5.00	1	01/31/2025 23:40	WG2443911
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	01/31/2025 23:40	WG2443911
Styrene	U		0.118	1.00	1	01/31/2025 23:40	WG2443911
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	01/31/2025 23:40	WG2443911
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	01/31/2025 23:40	WG2443911
Tetrachloroethene	U		0.300	1.00	1	01/31/2025 23:40	WG2443911
Toluene	U		0.278	1.00	1	01/31/2025 23:40	WG2443911
1,1,1-Trichloroethane	U		0.149	1.00	1	01/31/2025 23:40	WG2443911
1,1,2-Trichloroethane	U		0.158	1.00	1	01/31/2025 23:40	WG2443911
Trichloroethene	U		0.190	1.00	1	01/31/2025 23:40	WG2443911
Trichlorofluoromethane	U		0.160	5.00	1	01/31/2025 23:40	WG2443911
1,2,3-Trichloropropane	U		0.237	2.50	1	01/31/2025 23:40	WG2443911
Vinyl acetate	U		0.692	10.0	1	01/31/2025 23:40	WG2443911
Vinyl chloride	U		0.234	1.00	1	01/31/2025 23:40	WG2443911
Xylenes, Total	U		0.174	3.00	1	01/31/2025 23:40	WG2443911
(S) Toluene-d8	*101*			*80.0-120*		*01/31/2025 23:40*	WG2443911
(S) 4-Bromofluorobenzene	*96.4*			*77.0-126*		*01/31/2025 23:40*	WG2443911
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*01/31/2025 23:40*	WG2443911

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	215000		10000	1	01/31/2025 12:03	WG2442941

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Suspended Solids	2000	J	297	2630	1	02/01/2025 21:39	WG2442855

Wet Chemistry by Method 1664B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	U		1400	5000	1	02/02/2025 12:26	WG2444191

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	U		4750	20000	1	01/30/2025 14:37	WG2442706

Sample Narrative:

L1821374-03 WG2442706: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	U		53.9	100	1	02/03/2025 19:49	WG2443021

Wet Chemistry by Method 351.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	U	J5	131	250	1	02/02/2025 15:24	WG2443246

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	02/03/2025 13:50	WG2444612

Wet Chemistry by Method 365.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	U		3.73	100	1	02/03/2025 22:34	WG2445180

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		14100	20000	1	01/30/2025 18:47	WG2442475

Wet Chemistry by Method 4500P E-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphate,Ortho	U	T8	19.6	30.0	1	01/30/2025 12:51	WG2442603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	25100		547	1000	1	02/01/2025 03:37	WG2442617
Sulfate	128000		3180	25000	5	02/01/2025 03:55	WG2442617

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3430		495	1000	1	01/31/2025 00:15	WG2442750

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0700	0.200	1	02/03/2025 18:24	WG2442940

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony	U		0.310	4.00	1	01/31/2025 00:40	WG2442894
Arsenic	0.280	J	0.120	2.00	1	01/31/2025 00:40	WG2442894
Barium	114		0.500	2.00	1	01/31/2025 00:40	WG2442894
Beryllium	2.39		0.200	2.00	1	01/31/2025 21:09	WG2442894
Cadmium	0.314	J	0.120	1.00	1	01/31/2025 00:40	WG2442894
Chromium	U		0.900	2.00	1	01/31/2025 00:40	WG2442894
Copper	0.943	B J	0.700	5.00	1	01/31/2025 00:40	WG2442894
Cobalt	30.8		0.100	2.00	1	01/31/2025 00:40	WG2442894
Iron	95.1	J	22.6	100	1	01/31/2025 00:40	WG2442894
Lead	U		0.500	2.00	1	01/31/2025 00:40	WG2442894
Nickel	18.1		0.500	2.00	1	01/31/2025 00:40	WG2442894
Selenium	U		0.250	2.00	1	01/31/2025 00:40	WG2442894
Silver	U		0.110	2.00	1	01/31/2025 00:40	WG2442894
Thallium	U		0.130	2.00	1	01/31/2025 00:40	WG2442894
Vanadium	U		0.520	5.00	1	01/31/2025 00:40	WG2442894
Zinc	88.8		4.00	25.0	1	01/31/2025 00:40	WG2442894

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	02/01/2025 00:00	WG2443911
Acrylonitrile	U		0.671	10.0	1	02/01/2025 00:00	WG2443911
Benzene	U		0.0941	1.00	1	02/01/2025 00:00	WG2443911
Bromochloromethane	U		0.128	1.00	1	02/01/2025 00:00	WG2443911
Bromodichloromethane	U		0.136	1.00	1	02/01/2025 00:00	WG2443911
Bromoform	U		0.129	1.00	1	02/01/2025 00:00	WG2443911
Bromomethane	U	J4	0.605	5.00	1	02/01/2025 00:00	WG2443911
Carbon disulfide	U		0.0962	1.00	1	02/01/2025 00:00	WG2443911
Carbon tetrachloride	U		0.128	1.00	1	02/01/2025 00:00	WG2443911
Chlorobenzene	U		0.116	1.00	1	02/01/2025 00:00	WG2443911
Chlorodibromomethane	U	J3	0.140	1.00	1	02/01/2025 00:00	WG2443911
Chloroethane	U	C3	0.192	5.00	1	02/01/2025 00:00	WG2443911
Chloroform	U		0.111	5.00	1	02/01/2025 00:00	WG2443911
Chloromethane	U		0.960	2.50	1	02/01/2025 00:00	WG2443911
Dibromomethane	U		0.122	1.00	1	02/01/2025 00:00	WG2443911
1,2-Dibromoethane	U		0.126	1.00	1	02/01/2025 00:00	WG2443911
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/01/2025 00:00	WG2443911
1,2-Dichlorobenzene	U		0.107	1.00	1	02/01/2025 00:00	WG2443911

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	02/01/2025 00:00	WG2443911
trans-1,4-Dichloro-2-butene	U		0.467	2.50	1	02/01/2025 00:00	WG2443911
1,1-Dichloroethane	U		0.100	1.00	1	02/01/2025 00:00	WG2443911
1,2-Dichloroethane	U		0.0819	1.00	1	02/01/2025 00:00	WG2443911
1,1-Dichloroethene	U		0.188	1.00	1	02/01/2025 00:00	WG2443911
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/01/2025 00:00	WG2443911
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/01/2025 00:00	WG2443911
1,2-Dichloropropane	U		0.149	1.00	1	02/01/2025 00:00	WG2443911
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/01/2025 00:00	WG2443911
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/01/2025 00:00	WG2443911
Ethylbenzene	U		0.137	1.00	1	02/01/2025 00:00	WG2443911
2-Hexanone	U		0.787	10.0	1	02/01/2025 00:00	WG2443911
Iodomethane	U	C3	6.00	10.0	1	02/01/2025 00:00	WG2443911
2-Butanone (MEK)	U	C3	1.19	10.0	1	02/01/2025 00:00	WG2443911
Methylene Chloride	U		0.430	5.00	1	02/01/2025 00:00	WG2443911
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/01/2025 00:00	WG2443911
Styrene	U		0.118	1.00	1	02/01/2025 00:00	WG2443911
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/01/2025 00:00	WG2443911
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/01/2025 00:00	WG2443911
Tetrachloroethene	U		0.300	1.00	1	02/01/2025 00:00	WG2443911
Toluene	U		0.278	1.00	1	02/01/2025 00:00	WG2443911
1,1,1-Trichloroethane	U		0.149	1.00	1	02/01/2025 00:00	WG2443911
1,1,2-Trichloroethane	U		0.158	1.00	1	02/01/2025 00:00	WG2443911
Trichloroethene	U		0.190	1.00	1	02/01/2025 00:00	WG2443911
Trichlorofluoromethane	U		0.160	5.00	1	02/01/2025 00:00	WG2443911
1,2,3-Trichloropropane	U		0.237	2.50	1	02/01/2025 00:00	WG2443911
Vinyl acetate	U		0.692	10.0	1	02/01/2025 00:00	WG2443911
Vinyl chloride	U		0.234	1.00	1	02/01/2025 00:00	WG2443911
Xylenes, Total	U		0.174	3.00	1	02/01/2025 00:00	WG2443911
(S) Toluene-d8	*105*			*80.0-120*		*02/01/2025 00:00*	WG2443911
(S) 4-Bromofluorobenzene	*97.5*			*77.0-126*		*02/01/2025 00:00*	WG2443911
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*02/01/2025 00:00*	WG2443911

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	140000		10000	1	01/31/2025 12:03	WG2442941

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Suspended Solids	2420	J	297	2630	1	02/01/2025 21:39	WG2442855

Wet Chemistry by Method 1664B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	U		1410	5050	1	02/02/2025 12:26	WG2444191

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	5000	J	4750	20000	1	01/30/2025 14:39	WG2442706

Sample Narrative:

L1821374-04 WG2442706: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	U		53.9	100	1	02/03/2025 19:50	WG2443021

Wet Chemistry by Method 351.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	135	J	131	250	1	02/02/2025 15:30	WG2443246

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	73.0	J	43.5	200	1	02/03/2025 13:52	WG2444612

Wet Chemistry by Method 365.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	2460		3.73	100	1	02/02/2025 23:47	WG2444593

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	14400	J	14100	20000	1	01/30/2025 18:47	WG2442475

Wet Chemistry by Method 4500P E-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphate,Ortho	U	T8	19.6	30.0	1	01/30/2025 12:52	WG2442603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	10700		547	1000	1	02/01/2025 04:13	WG2442617
Sulfate	78100		637	5000	1	02/01/2025 04:13	WG2442617

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2940		495	1000	1	01/31/2025 00:38	WG2442750

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0700	0.200	1	02/03/2025 18:27	WG2442940

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony	U		0.310	4.00	1	01/31/2025 00:43	WG2442894
Arsenic	0.371	J	0.120	2.00	1	01/31/2025 00:43	WG2442894
Barium	71.6		0.500	2.00	1	01/31/2025 00:43	WG2442894
Beryllium	0.715	J	0.200	2.00	1	01/31/2025 21:12	WG2442894
Cadmium	0.160	J	0.120	1.00	1	01/31/2025 00:43	WG2442894
Chromium	U		0.900	2.00	1	01/31/2025 00:43	WG2442894
Copper	0.938	B J	0.700	5.00	1	01/31/2025 00:43	WG2442894
Cobalt	10.2		0.100	2.00	1	01/31/2025 00:43	WG2442894
Iron	252		22.6	100	1	01/31/2025 00:43	WG2442894
Lead	U		0.500	2.00	1	01/31/2025 00:43	WG2442894
Nickel	7.16		0.500	2.00	1	01/31/2025 00:43	WG2442894
Selenium	U		0.250	2.00	1	01/31/2025 00:43	WG2442894
Silver	U		0.110	2.00	1	01/31/2025 00:43	WG2442894
Thallium	U		0.130	2.00	1	01/31/2025 00:43	WG2442894
Vanadium	U		0.520	5.00	1	01/31/2025 00:43	WG2442894
Zinc	37.0		4.00	25.0	1	01/31/2025 00:43	WG2442894

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	02/01/2025 00:20	WG2443911
Acrylonitrile	U		0.671	10.0	1	02/01/2025 00:20	WG2443911
Benzene	U		0.0941	1.00	1	02/01/2025 00:20	WG2443911
Bromochloromethane	U		0.128	1.00	1	02/01/2025 00:20	WG2443911
Bromodichloromethane	U		0.136	1.00	1	02/01/2025 00:20	WG2443911
Bromoform	U		0.129	1.00	1	02/01/2025 00:20	WG2443911
Bromomethane	U	J4	0.605	5.00	1	02/01/2025 00:20	WG2443911
Carbon disulfide	U		0.0962	1.00	1	02/01/2025 00:20	WG2443911
Carbon tetrachloride	U		0.128	1.00	1	02/01/2025 00:20	WG2443911
Chlorobenzene	U		0.116	1.00	1	02/01/2025 00:20	WG2443911
Chlorodibromomethane	U	J3	0.140	1.00	1	02/01/2025 00:20	WG2443911
Chloroethane	U	C3	0.192	5.00	1	02/01/2025 00:20	WG2443911
Chloroform	U		0.111	5.00	1	02/01/2025 00:20	WG2443911
Chloromethane	U		0.960	2.50	1	02/01/2025 00:20	WG2443911
Dibromomethane	U		0.122	1.00	1	02/01/2025 00:20	WG2443911
1,2-Dibromoethane	U		0.126	1.00	1	02/01/2025 00:20	WG2443911
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/01/2025 00:20	WG2443911
1,2-Dichlorobenzene	U		0.107	1.00	1	02/01/2025 00:20	WG2443911

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	02/01/2025 00:20	WG2443911
trans-1,4-Dichloro-2-butene	U		0.467	2.50	1	02/01/2025 00:20	WG2443911
1,1-Dichloroethane	U		0.100	1.00	1	02/01/2025 00:20	WG2443911
1,2-Dichloroethane	U		0.0819	1.00	1	02/01/2025 00:20	WG2443911
1,1-Dichloroethene	U		0.188	1.00	1	02/01/2025 00:20	WG2443911
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/01/2025 00:20	WG2443911
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/01/2025 00:20	WG2443911
1,2-Dichloropropane	U		0.149	1.00	1	02/01/2025 00:20	WG2443911
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/01/2025 00:20	WG2443911
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/01/2025 00:20	WG2443911
Ethylbenzene	U		0.137	1.00	1	02/01/2025 00:20	WG2443911
2-Hexanone	U		0.787	10.0	1	02/01/2025 00:20	WG2443911
Iodomethane	U	C3	6.00	10.0	1	02/01/2025 00:20	WG2443911
2-Butanone (MEK)	U	C3	1.19	10.0	1	02/01/2025 00:20	WG2443911
Methylene Chloride	U		0.430	5.00	1	02/01/2025 00:20	WG2443911
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/01/2025 00:20	WG2443911
Styrene	U		0.118	1.00	1	02/01/2025 00:20	WG2443911
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/01/2025 00:20	WG2443911
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/01/2025 00:20	WG2443911
Tetrachloroethene	U		0.300	1.00	1	02/01/2025 00:20	WG2443911
Toluene	U		0.278	1.00	1	02/01/2025 00:20	WG2443911
1,1,1-Trichloroethane	U		0.149	1.00	1	02/01/2025 00:20	WG2443911
1,1,2-Trichloroethane	U		0.158	1.00	1	02/01/2025 00:20	WG2443911
Trichloroethene	U		0.190	1.00	1	02/01/2025 00:20	WG2443911
Trichlorofluoromethane	U		0.160	5.00	1	02/01/2025 00:20	WG2443911
1,2,3-Trichloropropane	U		0.237	2.50	1	02/01/2025 00:20	WG2443911
Vinyl acetate	U		0.692	10.0	1	02/01/2025 00:20	WG2443911
Vinyl chloride	U		0.234	1.00	1	02/01/2025 00:20	WG2443911
Xylenes, Total	U		0.174	3.00	1	02/01/2025 00:20	WG2443911
(S) Toluene-d8	*106*			*80.0-120*		*02/01/2025 00:20*	WG2443911
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*		*02/01/2025 00:20*	WG2443911
(S) 1,2-Dichloroethane-d4	*94.0*			*70.0-130*		*02/01/2025 00:20*	WG2443911

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	136000		10000	1	01/31/2025 12:03	WG2442941

Gravimetric Analysis by Method 2540 D-2020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Suspended Solids	4840		297	2630	1	02/01/2025 21:39	WG2442855

Wet Chemistry by Method 1664B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	U		1410	5050	1	02/02/2025 12:26	WG2444191

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	4890	J	4750	20000	1	01/30/2025 14:42	WG2442706

Sample Narrative:

L1821374-05 WG2442706: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	U		53.9	100	1	02/03/2025 19:52	WG2443021

Wet Chemistry by Method 351.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	198	J	131	250	1	02/02/2025 15:32	WG2443246

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	59.0	J	43.5	200	1	02/03/2025 13:55	WG2444612

Wet Chemistry by Method 365.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	13.8	J	3.73	100	1	02/02/2025 23:48	WG2444593

Wet Chemistry by Method 410.4

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
COD	U		14100	20000	1	01/30/2025 18:48	WG2442475

Wet Chemistry by Method 4500P E-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phosphate,Ortho	U	T8	19.6	30.0	1	01/30/2025 12:52	WG2442603

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	10500		547	1000	1	02/01/2025 04:49	WG2442617
Sulfate	77300		637	5000	1	02/01/2025 04:49	WG2442617

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	2960		495	1000	1	01/31/2025 01:00	WG2442750

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0700	0.200	1	02/03/2025 18:33	WG2442940

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Antimony	U		0.310	4.00	1	01/31/2025 00:47	WG2442894
Arsenic	0.318	J	0.120	2.00	1	01/31/2025 00:47	WG2442894
Barium	69.7		0.500	2.00	1	01/31/2025 00:47	WG2442894
Beryllium	0.621	J	0.200	2.00	1	01/31/2025 21:16	WG2442894
Cadmium	0.132	J	0.120	1.00	1	01/31/2025 00:47	WG2442894
Chromium	U		0.900	2.00	1	01/31/2025 00:47	WG2442894
Copper	0.903	B J	0.700	5.00	1	01/31/2025 00:47	WG2442894
Cobalt	10.1		0.100	2.00	1	01/31/2025 00:47	WG2442894
Iron	233		22.6	100	1	01/31/2025 00:47	WG2442894
Lead	U		0.500	2.00	1	01/31/2025 00:47	WG2442894
Nickel	6.69		0.500	2.00	1	01/31/2025 00:47	WG2442894
Selenium	U		0.250	2.00	1	01/31/2025 00:47	WG2442894
Silver	U		0.110	2.00	1	01/31/2025 00:47	WG2442894
Thallium	U		0.130	2.00	1	01/31/2025 00:47	WG2442894
Vanadium	U		0.520	5.00	1	01/31/2025 00:47	WG2442894
Zinc	34.0		4.00	25.0	1	01/31/2025 00:47	WG2442894

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	02/01/2025 00:39	WG2443911
Acrylonitrile	U		0.671	10.0	1	02/01/2025 00:39	WG2443911
Benzene	U		0.0941	1.00	1	02/01/2025 00:39	WG2443911
Bromochloromethane	U		0.128	1.00	1	02/01/2025 00:39	WG2443911
Bromodichloromethane	U		0.136	1.00	1	02/01/2025 00:39	WG2443911
Bromoform	U		0.129	1.00	1	02/01/2025 00:39	WG2443911
Bromomethane	U	J4	0.605	5.00	1	02/01/2025 00:39	WG2443911
Carbon disulfide	U		0.0962	1.00	1	02/01/2025 00:39	WG2443911
Carbon tetrachloride	U		0.128	1.00	1	02/01/2025 00:39	WG2443911
Chlorobenzene	U		0.116	1.00	1	02/01/2025 00:39	WG2443911
Chlorodibromomethane	U	J3	0.140	1.00	1	02/01/2025 00:39	WG2443911
Chloroethane	U	C3	0.192	5.00	1	02/01/2025 00:39	WG2443911
Chloroform	U		0.111	5.00	1	02/01/2025 00:39	WG2443911
Chloromethane	U		0.960	2.50	1	02/01/2025 00:39	WG2443911
Dibromomethane	U		0.122	1.00	1	02/01/2025 00:39	WG2443911
1,2-Dibromoethane	U		0.126	1.00	1	02/01/2025 00:39	WG2443911
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/01/2025 00:39	WG2443911
1,2-Dichlorobenzene	U		0.107	1.00	1	02/01/2025 00:39	WG2443911

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,4-Dichlorobenzene	U		0.120	1.00	1	02/01/2025 00:39	WG2443911
trans-1,4-Dichloro-2-butene	U		0.467	2.50	1	02/01/2025 00:39	WG2443911
1,1-Dichloroethane	U		0.100	1.00	1	02/01/2025 00:39	WG2443911
1,2-Dichloroethane	U		0.0819	1.00	1	02/01/2025 00:39	WG2443911
1,1-Dichloroethene	U		0.188	1.00	1	02/01/2025 00:39	WG2443911
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/01/2025 00:39	WG2443911
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/01/2025 00:39	WG2443911
1,2-Dichloropropane	U		0.149	1.00	1	02/01/2025 00:39	WG2443911
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/01/2025 00:39	WG2443911
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/01/2025 00:39	WG2443911
Ethylbenzene	U		0.137	1.00	1	02/01/2025 00:39	WG2443911
2-Hexanone	U		0.787	10.0	1	02/01/2025 00:39	WG2443911
Iodomethane	U	C3	6.00	10.0	1	02/01/2025 00:39	WG2443911
2-Butanone (MEK)	U	C3	1.19	10.0	1	02/01/2025 00:39	WG2443911
Methylene Chloride	U		0.430	5.00	1	02/01/2025 00:39	WG2443911
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/01/2025 00:39	WG2443911
Styrene	U		0.118	1.00	1	02/01/2025 00:39	WG2443911
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/01/2025 00:39	WG2443911
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/01/2025 00:39	WG2443911
Tetrachloroethene	U		0.300	1.00	1	02/01/2025 00:39	WG2443911
Toluene	U		0.278	1.00	1	02/01/2025 00:39	WG2443911
1,1,1-Trichloroethane	U		0.149	1.00	1	02/01/2025 00:39	WG2443911
1,1,2-Trichloroethane	U		0.158	1.00	1	02/01/2025 00:39	WG2443911
Trichloroethene	U		0.190	1.00	1	02/01/2025 00:39	WG2443911
Trichlorofluoromethane	U		0.160	5.00	1	02/01/2025 00:39	WG2443911
1,2,3-Trichloropropane	U		0.237	2.50	1	02/01/2025 00:39	WG2443911
Vinyl acetate	U		0.692	10.0	1	02/01/2025 00:39	WG2443911
Vinyl chloride	U		0.234	1.00	1	02/01/2025 00:39	WG2443911
Xylenes, Total	U		0.174	3.00	1	02/01/2025 00:39	WG2443911
(S) Toluene-d8	*105*			*80.0-120*		*02/01/2025 00:39*	WG2443911
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*		*02/01/2025 00:39*	WG2443911
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*		*02/01/2025 00:39*	WG2443911

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	50.0	1	01/31/2025 21:00	WG2443911
Acrylonitrile	U		0.671	10.0	1	01/31/2025 21:00	WG2443911
Benzene	U		0.0941	1.00	1	01/31/2025 21:00	WG2443911
Bromochloromethane	U		0.128	1.00	1	01/31/2025 21:00	WG2443911
Bromodichloromethane	U		0.136	1.00	1	01/31/2025 21:00	WG2443911
Bromoform	U		0.129	1.00	1	01/31/2025 21:00	WG2443911
Bromomethane	U	J4	0.605	5.00	1	01/31/2025 21:00	WG2443911
Carbon disulfide	U		0.0962	1.00	1	01/31/2025 21:00	WG2443911
Carbon tetrachloride	U		0.128	1.00	1	01/31/2025 21:00	WG2443911
Chlorobenzene	U		0.116	1.00	1	01/31/2025 21:00	WG2443911
Chlorodibromomethane	U	J3	0.140	1.00	1	01/31/2025 21:00	WG2443911
Chloroethane	U	C3	0.192	5.00	1	01/31/2025 21:00	WG2443911
Chloroform	U		0.111	5.00	1	01/31/2025 21:00	WG2443911
Chloromethane	U		0.960	2.50	1	01/31/2025 21:00	WG2443911
Dibromomethane	U		0.122	1.00	1	01/31/2025 21:00	WG2443911
1,2-Dibromoethane	U		0.126	1.00	1	01/31/2025 21:00	WG2443911
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	01/31/2025 21:00	WG2443911
1,2-Dichlorobenzene	U		0.107	1.00	1	01/31/2025 21:00	WG2443911
1,4-Dichlorobenzene	U		0.120	1.00	1	01/31/2025 21:00	WG2443911
trans-1,4-Dichloro-2-butene	U		0.467	2.50	1	01/31/2025 21:00	WG2443911
1,1-Dichloroethane	U		0.100	1.00	1	01/31/2025 21:00	WG2443911
1,2-Dichloroethane	U		0.0819	1.00	1	01/31/2025 21:00	WG2443911
1,1-Dichloroethene	U		0.188	1.00	1	01/31/2025 21:00	WG2443911
cis-1,2-Dichloroethene	U		0.126	1.00	1	01/31/2025 21:00	WG2443911
trans-1,2-Dichloroethene	U		0.149	1.00	1	01/31/2025 21:00	WG2443911
1,2-Dichloropropane	U		0.149	1.00	1	01/31/2025 21:00	WG2443911
cis-1,3-Dichloropropene	U		0.111	1.00	1	01/31/2025 21:00	WG2443911
trans-1,3-Dichloropropene	U		0.118	1.00	1	01/31/2025 21:00	WG2443911
Ethylbenzene	U		0.137	1.00	1	01/31/2025 21:00	WG2443911
2-Hexanone	U		0.787	10.0	1	01/31/2025 21:00	WG2443911
Iodomethane	U	C3	6.00	10.0	1	01/31/2025 21:00	WG2443911
2-Butanone (MEK)	U	C3	1.19	10.0	1	01/31/2025 21:00	WG2443911
Methylene Chloride	U		0.430	5.00	1	01/31/2025 21:00	WG2443911
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	01/31/2025 21:00	WG2443911
Styrene	U		0.118	1.00	1	01/31/2025 21:00	WG2443911
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	01/31/2025 21:00	WG2443911
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	01/31/2025 21:00	WG2443911
Tetrachloroethene	U		0.300	1.00	1	01/31/2025 21:00	WG2443911
Toluene	U		0.278	1.00	1	01/31/2025 21:00	WG2443911
1,1,1-Trichloroethane	U		0.149	1.00	1	01/31/2025 21:00	WG2443911
1,1,2-Trichloroethane	U		0.158	1.00	1	01/31/2025 21:00	WG2443911
Trichloroethene	U		0.190	1.00	1	01/31/2025 21:00	WG2443911
Trichlorofluoromethane	U		0.160	5.00	1	01/31/2025 21:00	WG2443911
1,2,3-Trichloropropane	U		0.237	2.50	1	01/31/2025 21:00	WG2443911
Vinyl acetate	U		0.692	10.0	1	01/31/2025 21:00	WG2443911
Vinyl chloride	U		0.234	1.00	1	01/31/2025 21:00	WG2443911
Xylenes, Total	U		0.174	3.00	1	01/31/2025 21:00	WG2443911
(S) Toluene-d8	*102*			*80.0-120*		*01/31/2025 21:00*	WG2443911
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*01/31/2025 21:00*	WG2443911
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*01/31/2025 21:00*	WG2443911

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4172551-1 01/31/25 12:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Dissolved Solids	U		10000	10000

L1821349-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821349-01 01/31/25 12:03 • (DUP) R4172551-3 01/31/25 12:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	545000	548000	1	0.549		10

L1821417-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821417-01 01/31/25 12:03 • (DUP) R4172551-4 01/31/25 12:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Dissolved Solids	8080000	8040000	1	0.496		10

Laboratory Control Sample (LCS)

(LCS) R4172551-2 01/31/25 12:03

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Dissolved Solids	8800000	8780000	99.8	85.0-115	

Method Blank (MB)

(MB) R4172552-1 02/01/25 21:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Suspended Solids	U		283	2500

L1820854-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1820854-02 02/01/25 21:39 • (DUP) R4172552-3 02/01/25 21:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	96000	97000	1	1.04		10

L1821449-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821449-01 02/01/25 21:39 • (DUP) R4172552-4 02/01/25 21:39

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	218000	217000	1	0.460		10

Laboratory Control Sample (LCS)

(LCS) R4172552-2 02/01/25 21:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773000	718000	92.9	85.0-115	

Method Blank (MB)

(MB) R4172557-1 02/02/25 12:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Oil & Grease (Hexane Extr)	U		1400	5000

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4172557-2 02/02/25 12:26 • (LCSD) R4172557-3 02/02/25 12:26

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40000	35200	40200	88.0	101	78.0-114			13.3	20

L1821041-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1821041-01 02/02/25 12:26 • (MS) R4172557-4 02/02/25 12:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40000	U	27100	67.8	1	78.0-114	J6

Method Blank (MB)

(MB) R4171953-2 01/30/25 14:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		4750	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1821413-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1821413-02 01/30/25 14:18 • (DUP) R4171953-3 01/30/25 14:21

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	126000	114000	1	10.3		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1821413-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1821413-07 01/30/25 16:02 • (DUP) R4171953-4 01/30/25 16:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	30100	30400	1	1.32		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4171953-1 01/30/25 14:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	93800	93.8	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4173004-1 02/03/25 19:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ammonia Nitrogen	U		53.9	100

L1821243-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821243-01 02/03/25 19:26 • (DUP) R4173004-3 02/03/25 19:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Ammonia Nitrogen	U	U	1	0.000		10

L1821285-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821285-01 02/03/25 19:32 • (DUP) R4173004-6 02/03/25 19:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Ammonia Nitrogen	181	189	1	4.32		10

Laboratory Control Sample (LCS)

(LCS) R4173004-2 02/03/25 19:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Ammonia Nitrogen	7500	8110	108	90.0-110	

L1821243-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821243-01 02/03/25 19:26 • (MS) R4173004-4 02/03/25 19:29 • (MSD) R4173004-5 02/03/25 19:31

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Ammonia Nitrogen	5000	U	5020	5030	100	101	1	90.0-110			0.0796	10

L1821285-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1821285-01 02/03/25 19:32 • (MS) R4173004-7 02/03/25 19:35

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	ug/l	ug/l	ug/l	%		%	
Ammonia Nitrogen	5000	181	5430	105	1	90.0-110	

Method Blank (MB)

(MB) R4172575-1 02/02/25 15:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Kjeldahl Nitrogen, TKN	U		131	250

L1821374-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821374-01 02/02/25 15:19 • (DUP) R4172575-3 02/02/25 15:20

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	564	572	1	1.41		20

L1821374-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1821374-02 02/02/25 15:21 • (DUP) R4172575-4 02/02/25 15:23

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4172575-2 02/02/25 15:15

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	9650	10100	105	90.0-110	

L1821374-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821374-03 02/02/25 15:24 • (MS) R4172575-5 02/02/25 15:25 • (MSD) R4172575-6 02/02/25 15:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5000	U	6230	6300	125	126	1	90.0-110	J5	J5	1.12	20

L1821398-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1821398-01 02/02/25 15:33 • (MS) R4172575-7 02/02/25 15:34

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Kjeldahl Nitrogen, TKN	5000	6880	11900	100	1	90.0-110	

Method Blank (MB)

(MB) R4172870-1 02/03/25 12:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Nitrate-Nitrite	U		43.5	200

Laboratory Control Sample (LCS)

(LCS) R4172870-2 02/03/25 12:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2500	2550	102	90.0-110	

L1820450-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1820450-03 02/03/25 12:35 • (MS) R4172870-3 02/03/25 12:37 • (MSD) R4172870-4 02/03/25 12:39

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2500	U	2430	2430	97.2	97.2	1	90.0-110			0.000	20

L1821322-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821322-12 02/03/25 12:58 • (MS) R4172870-5 02/03/25 13:00 • (MSD) R4172870-6 02/03/25 13:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2500	7110	9700	9670	103	102	3	90.0-110			0.258	20

Method Blank (MB)

(MB) R4172643-1 02/02/25 23:28

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Phosphorus,Total	U		3.73	100

L1821374-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1821374-02 02/02/25 23:38 • (DUP) R4172643-4 02/02/25 23:40

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	22.9	17.0	1	29.6	J P1	20

Laboratory Control Sample (LCS)

(LCS) R4172643-2 02/02/25 23:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	4300	4710	110	85.0-115	

Method Blank (MB)

(MB) R4173011-1 02/03/25 22:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Phosphorus,Total	24.4	J	3.73	100

Method Blank (MB)

(MB) R4173011-2 02/03/25 22:22

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Phosphorus,Total	U		3.73	100

L1821279-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821279-01 02/03/25 22:27 • (DUP) R4173011-4 02/03/25 22:29

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	62.8	34.3	1	58.7	J P1	20

L1821871-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821871-01 02/03/25 22:41 • (DUP) R4173011-5 02/03/25 22:43

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphorus,Total	160	147	1	8.47		20

Laboratory Control Sample (LCS)

(LCS) R4173011-3 02/03/25 22:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	4300	4120	95.8	85.0-115	

L1821871-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821871-01 02/03/25 22:41 • (MS) R4173011-6 02/03/25 22:44 • (MSD) R4173011-7 02/03/25 22:45

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	2500	160	2670	2610	100	98.0	1	90.0-110			2.27	20

Method Blank (MB)

(MB) R4171995-1 01/30/25 18:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
COD	U		14100	20000

L1821345-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821345-01 01/30/25 18:44 • (DUP) R4171995-5 01/30/25 18:45

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
COD	1520000	1630000	5	6.91		20

L1821370-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821370-01 01/30/25 18:45 • (DUP) R4171995-6 01/30/25 18:46

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
COD	1530000	1650000	5	7.52		20

Laboratory Control Sample (LCS)

(LCS) R4171995-2 01/30/25 18:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500000	497000	99.4	90.0-110	

L1821118-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821118-01 01/30/25 18:40 • (MS) R4171995-3 01/30/25 18:40 • (MSD) R4171995-4 01/30/25 18:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
COD	500000	88400	589000	570000	100	96.3	1	90.0-110			3.18	20

Method Blank (MB)

(MB) R4171795-1 01/30/25 12:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Phosphate,Ortho	U		19.6	30.0

L1821358-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821358-01 01/30/25 12:49 • (DUP) R4171795-5 01/30/25 12:49

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphate,Ortho	U	U	1	0.000		20

L1821409-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821409-01 01/30/25 12:52 • (DUP) R4171795-6 01/30/25 12:52

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Phosphate,Ortho	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4171795-2 01/30/25 12:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphate,Ortho	245	231	94.5	85.0-115	

L1821301-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821301-01 01/30/25 12:48 • (MS) R4171795-3 01/30/25 12:49 • (MSD) R4171795-4 01/30/25 12:49

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphate,Ortho	500	U	475	472	95.0	94.4	1	80.0-120			0.634	20

Method Blank (MB)

(MB) R4172915-1 02/01/25 00:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Sulfate	U		637	5000

L1821374-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821374-01 02/01/25 01:32 • (DUP) R4172915-3 02/01/25 01:50

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1500	1380	1	8.70		15
Sulfate	2180	2170	1	0.731	J	15

L1821374-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1821374-02 02/01/25 02:44 • (DUP) R4172915-6 02/01/25 03:02

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7930	7930	1	0.0214		15
Sulfate	71600	71700	1	0.242		15

Laboratory Control Sample (LCS)

(LCS) R4172915-2 02/01/25 00:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	38500	96.3	80.0-120	
Sulfate	40000	39000	97.6	80.0-120	

L1821374-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821374-01 02/01/25 01:32 • (MS) R4172915-4 02/01/25 02:08 • (MSD) R4172915-5 02/01/25 02:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	1500	39900	40400	96.1	97.2	1	80.0-120			1.09	15
Sulfate	40000	2180	41300	41800	97.8	99.0	1	80.0-120			1.16	15

L1821374-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1821374-02 02/01/25 02:44 • (MS) R4172915-7 02/01/25 03:20

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	7930	45700	94.5	1	80.0-120	
Sulfate	40000	71600	94500	57.4	1	80.0-120	J6

Method Blank (MB)

(MB) R4172135-2 01/30/25 14:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	U		495	1000

L1821275-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1821275-12 01/30/25 16:39 • (DUP) R4172135-5 01/30/25 17:05

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	14000	14000	1	0.143		20

L1821358-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1821358-03 01/30/25 22:48 • (DUP) R4172135-8 01/30/25 23:10

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	46700	46900	1	0.256		20

Laboratory Control Sample (LCS)

(LCS) R4172135-1 01/30/25 14:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	25100	100	85.0-115	

L1821275-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821275-11 01/30/25 15:20 • (MS) R4172135-3 01/30/25 15:47 • (MSD) R4172135-4 01/30/25 16:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	25100	51200	50900	104	103	1	85.0-115	E	E	0.647	20

L1821358-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821358-02 01/30/25 21:30 • (MS) R4172135-6 01/30/25 21:58 • (MSD) R4172135-7 01/30/25 22:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TOC (Total Organic Carbon)	25000	46300	70500	69800	96.8	94.1	1	85.0-115	E	E	0.941	20

Method Blank (MB)

(MB) R4172967-1 02/03/25 17:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Mercury	U		0.0700	0.200

Laboratory Control Sample (LCS)

(LCS) R4172967-2 02/03/25 17:46

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Mercury	3.00	3.19	106	80.0-120	

L1821241-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821241-11 02/03/25 17:48 • (MS) R4172967-4 02/03/25 17:54 • (MSD) R4172967-5 02/03/25 17:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	0.262	1.79	1.79	51.1	51.1	1	75.0-125	J6	J6	0.0553	20

Method Blank (MB)

(MB) R4172333-1 01/30/25 23:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Antimony	U		0.310	4.00
Arsenic	U		0.120	2.00
Barium	U		0.500	2.00
Beryllium	U		0.200	2.00
Cadmium	U		0.120	1.00
Chromium	U		0.900	2.00
Copper	0.784	J	0.700	5.00
Cobalt	U		0.100	2.00
Iron	U		22.6	100
Lead	U		0.500	2.00
Nickel	U		0.500	2.00
Selenium	U		0.250	2.00
Silver	U		0.110	2.00
Thallium	U		0.130	2.00
Vanadium	U		0.520	5.00
Zinc	U		4.00	25.0

Laboratory Control Sample (LCS)

(LCS) R4172333-2 01/30/25 23:27

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	50.0	47.5	95.0	80.0-120	
Arsenic	50.0	46.3	92.7	80.0-120	
Barium	50.0	45.5	91.1	80.0-120	
Beryllium	50.0	49.3	98.7	80.0-120	
Cadmium	50.0	47.4	94.8	80.0-120	
Chromium	50.0	46.7	93.4	80.0-120	
Copper	50.0	48.8	97.7	80.0-120	
Cobalt	50.0	47.7	95.5	80.0-120	
Iron	1000	910	91.0	80.0-120	
Lead	50.0	45.6	91.2	80.0-120	
Nickel	50.0	47.0	94.0	80.0-120	
Selenium	50.0	46.3	92.6	80.0-120	
Silver	50.0	46.6	93.2	80.0-120	
Thallium	50.0	45.6	91.2	80.0-120	
Vanadium	50.0	46.8	93.5	80.0-120	
Zinc	50.0	46.5	93.1	80.0-120	

L1821241-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821241-11 01/30/25 23:35 • (MS) R4172333-4 01/30/25 23:38 • (MSD) R4172333-5 01/30/25 23:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	50.0	U	50.9	51.5	102	103	1	75.0-125			1.14	20
Arsenic	50.0	6.95	55.5	55.8	97.0	97.7	1	75.0-125			0.602	20
Barium	50.0	1080	1130	1130	104	101	1	75.0-125			0.114	20
Beryllium	50.0	U	49.5	49.3	98.9	98.5	1	75.0-125			0.392	20
Cadmium	50.0	U	45.1	44.1	90.2	88.3	1	75.0-125			2.16	20
Chromium	50.0	1.64	48.0	47.9	92.7	92.6	1	75.0-125			0.141	20
Copper	50.0	3.20	50.8	50.1	95.3	93.8	1	75.0-125			1.48	20
Cobalt	50.0	7.70	54.3	54.6	93.2	93.9	1	75.0-125			0.618	20
Iron	1000	32500	32600	33200	11.9	75.4	1	75.0-125	V		1.93	20
Lead	50.0	U	45.5	45.0	91.1	90.1	1	75.0-125			1.07	20
Nickel	50.0	1.19	47.3	48.2	92.3	93.9	1	75.0-125			1.73	20
Selenium	50.0	0.973	51.5	51.3	101	101	1	75.0-125			0.475	20
Silver	50.0	U	46.2	45.9	92.3	91.7	1	75.0-125			0.655	20
Thallium	50.0	U	45.8	46.0	91.5	92.1	1	75.0-125			0.576	20
Vanadium	50.0	2.46	49.0	49.2	93.2	93.4	1	75.0-125			0.251	20
Zinc	50.0	U	46.9	46.5	93.9	92.9	1	75.0-125			0.979	20

Method Blank (MB)

(MB) R4172389-4 01/31/25 19:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromochloromethane	U		0.128	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Dibromomethane	U		0.122	1.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dichlorobenzene	U		0.107	1.00
1,4-Dichlorobenzene	U		0.120	1.00
trans-1,4-Dichloro-2-butene	U		0.467	2.50
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Iodomethane	U		6.00	10.0
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,1-Trichloroethane	U		0.149	1.00

Method Blank (MB)

(MB) R4172389-4 01/31/25 19:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
Vinyl acetate	U		0.692	10.0
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.3*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4172389-1 01/31/25 18:21 • (LCSD) R4172389-2 01/31/25 18:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	24.5	26.0	98.0	104	19.0-160	J	J	5.94	27
Acrylonitrile	25.0	22.7	25.0	90.8	100	55.0-149			9.64	20
Benzene	5.00	4.34	4.87	86.8	97.4	70.0-123			11.5	20
Bromochloromethane	5.00	4.79	5.45	95.8	109	76.0-122			12.9	20
Bromodichloromethane	5.00	4.46	5.01	89.2	100	75.0-120			11.6	20
Bromoform	5.00	4.39	5.07	87.8	101	68.0-132			14.4	20
Bromomethane	5.00	8.23	8.13	165	163	10.0-160	J4	J4	1.22	25
Carbon disulfide	5.00	4.40	4.92	88.0	98.4	61.0-128			11.2	20
Carbon tetrachloride	5.00	4.24	4.86	84.8	97.2	68.0-126			13.6	20
Chlorobenzene	5.00	4.55	5.40	91.0	108	80.0-121			17.1	20
Chlorodibromomethane	5.00	4.53	5.59	90.6	112	77.0-125		J3	20.9	20
Chloroethane	5.00	3.77	4.38	75.4	87.6	47.0-150	J	J	15.0	20
Chloroform	5.00	4.42	5.10	88.4	102	73.0-120	J		14.3	20
Chloromethane	5.00	4.44	4.86	88.8	97.2	41.0-142			9.03	20
Dibromomethane	5.00	4.30	4.91	86.0	98.2	80.0-120			13.2	20
1,2-Dibromoethane	5.00	4.52	5.36	90.4	107	80.0-122			17.0	20
1,2-Dibromo-3-Chloropropane	5.00	4.37	4.73	87.4	94.6	58.0-134	J	J	7.91	20
1,2-Dichlorobenzene	5.00	4.75	5.37	95.0	107	79.0-121			12.3	20
1,4-Dichlorobenzene	5.00	4.94	5.59	98.8	112	79.0-120			12.3	20
trans-1,4-Dichloro-2-butene	5.00	4.35	5.08	87.0	102	33.0-144			15.5	20
1,1-Dichloroethane	5.00	4.43	4.99	88.6	99.8	70.0-126			11.9	20
1,2-Dichloroethane	5.00	4.55	5.21	91.0	104	70.0-128			13.5	20
1,1-Dichloroethene	5.00	4.27	4.79	85.4	95.8	71.0-124			11.5	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4172389-1 01/31/25 18:21 • (LCSD) R4172389-2 01/31/25 18:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	5.00	4.42	5.28	88.4	106	73.0-120			17.7	20
trans-1,2-Dichloroethene	5.00	4.69	5.18	93.8	104	73.0-120			9.93	20
1,2-Dichloropropane	5.00	4.41	4.86	88.2	97.2	77.0-125			9.71	20
cis-1,3-Dichloropropene	5.00	4.39	5.05	87.8	101	80.0-123			14.0	20
trans-1,3-Dichloropropene	5.00	4.55	5.37	91.0	107	78.0-124			16.5	20
Ethylbenzene	5.00	4.64	5.33	92.8	107	79.0-123			13.8	20
2-Hexanone	25.0	22.8	26.1	91.2	104	67.0-149			13.5	20
Iodomethane	25.0	17.3	21.8	69.2	87.2	33.0-147			23.0	26
2-Butanone (MEK)	25.0	19.1	20.6	76.4	82.4	44.0-160			7.56	20
Methylene Chloride	5.00	4.44	4.96	88.8	99.2	67.0-120	J	J	11.1	20
4-Methyl-2-pentanone (MIBK)	25.0	23.6	26.1	94.4	104	68.0-142			10.1	20
Styrene	5.00	4.51	5.33	90.2	107	73.0-130			16.7	20
1,1,1,2-Tetrachloroethane	5.00	4.70	5.45	94.0	109	75.0-125			14.8	20
1,1,2,2-Tetrachloroethane	5.00	4.76	5.44	95.2	109	65.0-130			13.3	20
Tetrachloroethene	5.00	4.46	5.27	89.2	105	72.0-132			16.6	20
Toluene	5.00	4.49	5.47	89.8	109	79.0-120			19.7	20
1,1,1-Trichloroethane	5.00	4.37	4.71	87.4	94.2	73.0-124			7.49	20
1,1,2-Trichloroethane	5.00	4.87	5.34	97.4	107	80.0-120			9.21	20
Trichloroethene	5.00	4.54	4.81	90.8	96.2	78.0-124			5.78	20
Trichlorofluoromethane	5.00	4.03	4.66	80.6	93.2	59.0-147	J	J	14.5	20
1,2,3-Trichloropropane	5.00	4.49	5.34	89.8	107	73.0-130			17.3	20
Vinyl acetate	25.0	20.5	24.2	82.0	96.8	11.0-160			16.6	20
Vinyl chloride	5.00	4.22	4.72	84.4	94.4	67.0-131			11.2	20
Xylenes, Total	15.0	13.3	15.9	88.7	106	79.0-123			17.8	20
(S) Toluene-d8				*103*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*95.9*	*99.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*94.9*	*92.4*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
SCS Engineers - Little Rock, AR

9780 Maumelle Blvd.
North Little Rock, AR 72113

Billing Information:
Accounts Payable
9780 Maumelle Blvd.
N. Little Rock, AR 72113

Report to: **Stacie Whitmer**

Email To: **SWhitmer@scsengineers.com**

Project Description: **Drew Co Landfill**

City/State Collected: Monticello AR

Please Circle: PT MT CT ET

Phone: **501-812-4551**

Client Project #

Lab Project # **CHIROCKAR-DREW**

Collected by (print): Anna Feldman

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately ✓
Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK,CHLORIDE,SULFATE 125mlHDPE-NoPres	COD,PT 250mlHDPE-H2SO4	M6020AP1+FEG 250mlHDPE-HNO3	NH3,NO2NO3, TKN 250mlHDPE-H2SO4	OGHEX 1L-Cl-WT-HCl	PORTHO 100ml Amb NoPres	TDS,TSS 1L-HDPE NoPres	TOC 250mlAmb-HCl	V8260AP1 40mlAmb-HCl			
								12	12	12								
DREWCO2	G	GW		1/27/25	1128	12	✓	✓	✓	✓	✓	✓	✓	✓	✓			-01
DREWCOUPSTREAMOFFSITE		GW			1230	12												-02
RATCRK UP		GW			1310	12												-03
RATCRK DOWN OFF		GW			1350	12												-04
DREWCO1		GW			1420	12												-05
Trip Blank	Lab					2									✓			-06

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1823424

D100

Acctnum: **CHIROCKAR**
Template: **T264541**
Prelogin: **P1116210**
PM: **134 - Mark W. Beasley**
PB: 11/21/24 BK

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4208 1329 7470

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	1/27/25	2000	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: (Yes) / No
2 HCL / MeoH TBR

Temp: 2.0+0.4=2.4 °C Bottles Received: 60

Date: 01/30/25 Time: 0900

PH - 10BDH0941
TRC - 3227A333

Hold: | Condition: NCF / OK

L#_____

Fed Ex tracking #	Gun ID	Temperature
4208 1329 7470	TH#9	2.0 to .4 = 2.4
4208 1329 7460	↓	6.7 to .4 = 6.1
4208 1329 7459		2.6 to .4 = 3.0

Troy L.
Name

07/30/25
Date

ANALYTICAL REPORT

February 03, 2025

SCS Engineers - Little Rock, AR

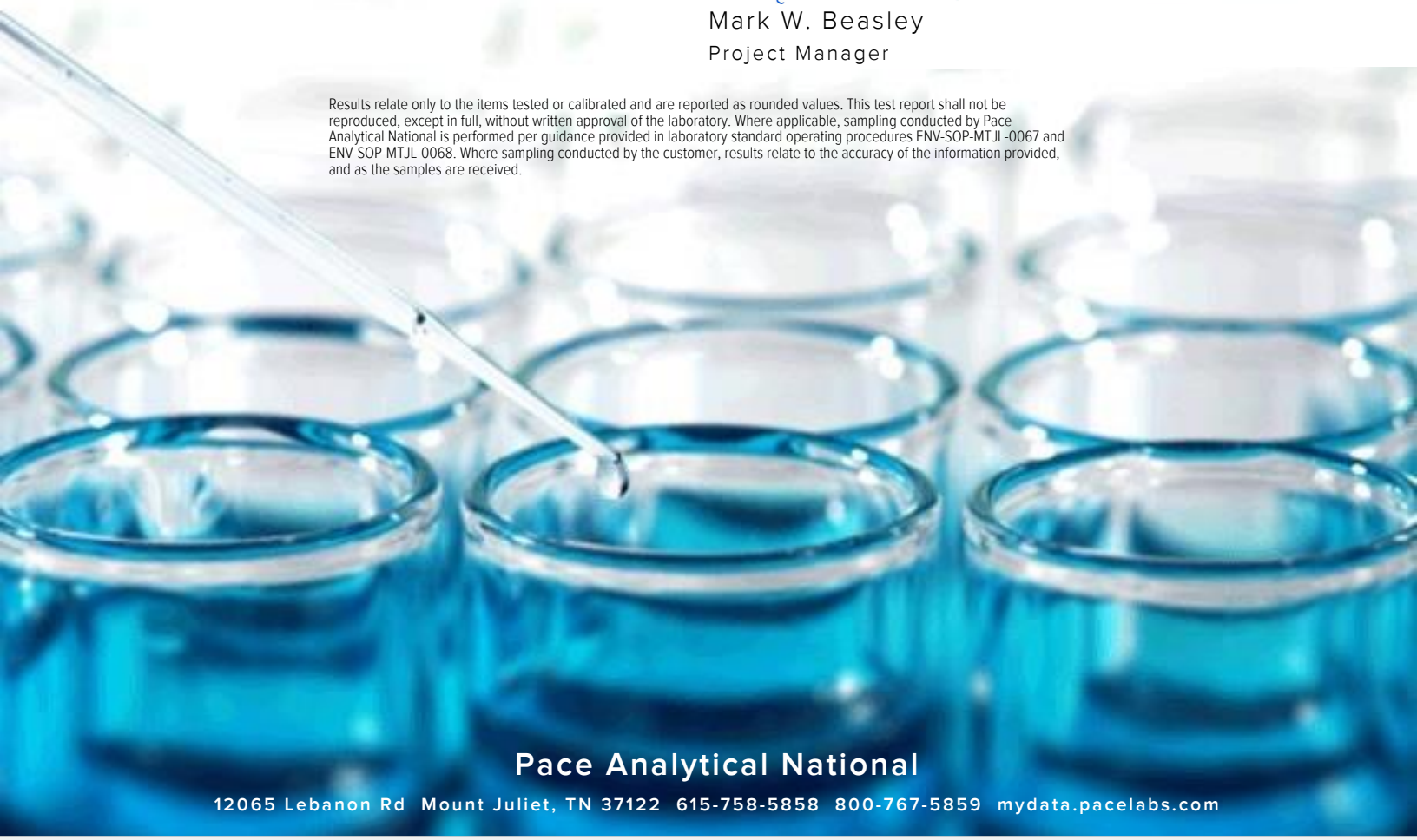
Sample Delivery Group:	L1821192
Samples Received:	01/29/2025
Project Number:	
Description:	Drew Co Landfill

Report To: Stacie Whitmer
9780 Maumelle Blvd.
North Little Rock, AR 72113

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

DREWCO3 L1821192-01 GW

Collected by	Collected date/time	Received date/time
Anna Feldman	01/27/25 14:50	01/29/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 2320 B-2011	WG2442590	1	01/30/25 11:04	01/30/25 11:04	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2442314	1	01/31/25 17:17	01/31/25 17:17	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2442314	10	01/31/25 17:32	01/31/25 17:32	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2443159	1	01/31/25 01:05	01/31/25 01:05	DYW	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley
Project Manager

Wet Chemistry by Method 2320 B-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Alkalinity	37000		4750	20000	1	01/30/2025 11:04	WG2442590

Sample Narrative:

L1821192-01 WG2442590: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	32500		547	1000	1	01/31/2025 17:17	WG2442314
Sulfate	236000		6370	50000	10	01/31/2025 17:32	WG2442314

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	01/31/2025 01:05	WG2443159
Acrylonitrile	U		0.671	10.0	1	01/31/2025 01:05	WG2443159
Benzene	U		0.0941	1.00	1	01/31/2025 01:05	WG2443159
Bromochloromethane	U		0.128	1.00	1	01/31/2025 01:05	WG2443159
Bromodichloromethane	U		0.136	1.00	1	01/31/2025 01:05	WG2443159
Bromoform	U		0.129	1.00	1	01/31/2025 01:05	WG2443159
Bromomethane	U	C3	0.605	5.00	1	01/31/2025 01:05	WG2443159
Carbon disulfide	U		0.0962	1.00	1	01/31/2025 01:05	WG2443159
Carbon tetrachloride	U		0.128	1.00	1	01/31/2025 01:05	WG2443159
Chlorobenzene	U		0.116	1.00	1	01/31/2025 01:05	WG2443159
Chlorodibromomethane	U		0.140	1.00	1	01/31/2025 01:05	WG2443159
Chloroethane	U		0.192	5.00	1	01/31/2025 01:05	WG2443159
Chloroform	U		0.111	5.00	1	01/31/2025 01:05	WG2443159
Chloromethane	U		0.960	2.50	1	01/31/2025 01:05	WG2443159
Dibromomethane	U		0.122	1.00	1	01/31/2025 01:05	WG2443159
1,2-Dibromoethane	U		0.126	1.00	1	01/31/2025 01:05	WG2443159
1,2-Dibromo-3-Chloropropane	U	C3	0.276	5.00	1	01/31/2025 01:05	WG2443159
1,2-Dichlorobenzene	U	C3	0.107	1.00	1	01/31/2025 01:05	WG2443159
1,4-Dichlorobenzene	U	C3 J4	0.120	1.00	1	01/31/2025 01:05	WG2443159
trans-1,4-Dichloro-2-butene	U	C3	0.467	2.50	1	01/31/2025 01:05	WG2443159
1,1-Dichloroethane	U		0.100	1.00	1	01/31/2025 01:05	WG2443159
1,2-Dichloroethane	U		0.0819	1.00	1	01/31/2025 01:05	WG2443159
1,1-Dichloroethene	U		0.188	1.00	1	01/31/2025 01:05	WG2443159
cis-1,2-Dichloroethene	U		0.126	1.00	1	01/31/2025 01:05	WG2443159
trans-1,2-Dichloroethene	U		0.149	1.00	1	01/31/2025 01:05	WG2443159
1,2-Dichloropropane	U		0.149	1.00	1	01/31/2025 01:05	WG2443159
cis-1,3-Dichloropropene	U		0.111	1.00	1	01/31/2025 01:05	WG2443159
trans-1,3-Dichloropropene	U		0.118	1.00	1	01/31/2025 01:05	WG2443159
Ethylbenzene	U		0.137	1.00	1	01/31/2025 01:05	WG2443159
2-Hexanone	U		0.787	10.0	1	01/31/2025 01:05	WG2443159
Iodomethane	U	C3	6.00	10.0	1	01/31/2025 01:05	WG2443159
2-Butanone (MEK)	U		1.19	10.0	1	01/31/2025 01:05	WG2443159
Methylene Chloride	U		0.430	5.00	1	01/31/2025 01:05	WG2443159
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	01/31/2025 01:05	WG2443159
Styrene	U	C3	0.118	1.00	1	01/31/2025 01:05	WG2443159
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	01/31/2025 01:05	WG2443159
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	01/31/2025 01:05	WG2443159
Tetrachloroethene	U		0.300	1.00	1	01/31/2025 01:05	WG2443159
Toluene	U		0.278	1.00	1	01/31/2025 01:05	WG2443159
1,1,1-Trichloroethane	U		0.149	1.00	1	01/31/2025 01:05	WG2443159
1,1,2-Trichloroethane	U		0.158	1.00	1	01/31/2025 01:05	WG2443159

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Trichloroethene	U		0.190	1.00	1	01/31/2025 01:05	WG2443159
Trichlorofluoromethane	U		0.160	5.00	1	01/31/2025 01:05	WG2443159
1,2,3-Trichloropropane	U		0.237	2.50	1	01/31/2025 01:05	WG2443159
Vinyl acetate	U		0.692	10.0	1	01/31/2025 01:05	WG2443159
Vinyl chloride	U		0.234	1.00	1	01/31/2025 01:05	WG2443159
Xylenes, Total	U		0.174	3.00	1	01/31/2025 01:05	WG2443159
(S) Toluene-d8	*94.4*			*80.0-120*		*01/31/2025 01:05*	WG2443159
(S) 4-Bromofluorobenzene	*98.7*			*77.0-126*		*01/31/2025 01:05*	WG2443159
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*01/31/2025 01:05*	WG2443159

Method Blank (MB)

(MB) R4171952-2 01/30/25 10:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Alkalinity	U		4750	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1821226-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821226-01 01/30/25 10:51 • (DUP) R4171952-3 01/30/25 10:58

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	293000	296000	1	0.964		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1821243-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1821243-01 01/30/25 13:01 • (DUP) R4171952-4 01/30/25 13:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	129000	115000	1	11.2		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4171952-1 01/30/25 10:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100000	94700	94.7	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4172615-1 01/31/25 16:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	U		547	1000
Sulfate	U		637	5000

L1821226-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1821226-02 01/31/25 21:08 • (DUP) R4172615-3 01/31/25 21:22

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	71300	69800	1	2.20		15
Sulfate	9830	9500	1	3.44		15

L1821226-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1821226-05 01/31/25 23:03 • (DUP) R4172615-6 01/31/25 23:18

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	32800	32400	1	1.16		15
Sulfate	22600	22600	1	0.204		15

Laboratory Control Sample (LCS)

(LCS) R4172615-2 01/31/25 17:03

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	39300	98.1	80.0-120	
Sulfate	40000	38400	96.1	80.0-120	

L1821226-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821226-02 01/31/25 21:08 • (MS) R4172615-4 01/31/25 21:37 • (MSD) R4172615-5 01/31/25 21:51

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	71300	92700	93100	53.5	54.5	1	80.0-120	J6	J6	0.439	15
Sulfate	40000	9830	43900	44600	85.2	86.9	1	80.0-120			1.54	15

L1821226-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1821226-05 01/31/25 23:03 • (MS) R4172615-7 01/31/25 23:32

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	32800	63100	75.8	1	80.0-120	J6
Sulfate	40000	22600	55500	82.4	1	80.0-120	

Method Blank (MB)

(MB) R4172501-2 01/30/25 22:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromochloromethane	U		0.128	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
Dibromomethane	U		0.122	1.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dichlorobenzene	U		0.107	1.00
1,4-Dichlorobenzene	U		0.120	1.00
trans-1,4-Dichloro-2-butene	U		0.467	2.50
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Iodomethane	U		6.00	10.0
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,1-Trichloroethane	U		0.149	1.00

Method Blank (MB)

(MB) R4172501-2 01/30/25 22:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
Vinyl acetate	U		0.692	10.0
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*94.1*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4172501-1 01/30/25 21:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	28.3	113	19.0-160	J
Acrylonitrile	25.0	28.0	112	55.0-149	
Benzene	5.00	5.37	107	70.0-123	
Bromochloromethane	5.00	5.47	109	76.0-122	
Bromodichloromethane	5.00	5.45	109	75.0-120	
Bromoform	5.00	4.19	83.8	68.0-132	
Bromomethane	5.00	1.93	38.6	10.0-160	J
Carbon disulfide	5.00	4.98	99.6	61.0-128	
Carbon tetrachloride	5.00	4.83	96.6	68.0-126	
Chlorobenzene	5.00	4.17	83.4	80.0-121	
Chlorodibromomethane	5.00	4.10	82.0	77.0-125	
Chloroethane	5.00	5.15	103	47.0-150	
Chloroform	5.00	5.30	106	73.0-120	
Chloromethane	5.00	4.52	90.4	41.0-142	
Dibromomethane	5.00	4.91	98.2	80.0-120	
1,2-Dibromoethane	5.00	4.35	87.0	80.0-122	
1,2-Dibromo-3-Chloropropane	5.00	3.45	69.0	58.0-134	J
1,2-Dichlorobenzene	5.00	3.96	79.2	79.0-121	
1,4-Dichlorobenzene	5.00	3.85	77.0	79.0-120	J4
trans-1,4-Dichloro-2-butene	5.00	3.84	76.8	33.0-144	
1,1-Dichloroethane	5.00	5.33	107	70.0-126	
1,2-Dichloroethane	5.00	5.22	104	70.0-128	
1,1-Dichloroethene	5.00	5.03	101	71.0-124	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Laboratory Control Sample (LCS)

(LCS) R4172501-1 01/30/25 21:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	5.00	4.93	98.6	73.0-120	
trans-1,2-Dichloroethene	5.00	5.00	100	73.0-120	
1,2-Dichloropropane	5.00	5.52	110	77.0-125	
cis-1,3-Dichloropropene	5.00	5.17	103	80.0-123	
trans-1,3-Dichloropropene	5.00	4.35	87.0	78.0-124	
Ethylbenzene	5.00	4.11	82.2	79.0-123	
2-Hexanone	25.0	22.5	90.0	67.0-149	
Iodomethane	25.0	17.2	68.8	33.0-147	
2-Butanone (MEK)	25.0	28.4	114	44.0-160	
Methylene Chloride	5.00	5.74	115	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	23.9	95.6	68.0-142	
Styrene	5.00	3.89	77.8	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.28	85.6	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.75	95.0	65.0-130	
Tetrachloroethene	5.00	4.36	87.2	72.0-132	
Toluene	5.00	4.44	88.8	79.0-120	
1,1,1-Trichloroethane	5.00	5.12	102	73.0-124	
1,1,2-Trichloroethane	5.00	4.67	93.4	80.0-120	
Trichloroethene	5.00	4.65	93.0	78.0-124	
Trichlorofluoromethane	5.00	5.86	117	59.0-147	
1,2,3-Trichloropropane	5.00	4.59	91.8	73.0-130	
Vinyl acetate	25.0	29.1	116	11.0-160	
Vinyl chloride	5.00	5.70	114	67.0-131	
Xylenes, Total	15.0	12.7	84.7	79.0-123	
(S) Toluene-d8			*96.3*	*80.0-120*	
(S) 4-Bromofluorobenzene			*102*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*100*	*70.0-130*	

L1821241-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821241-11 01/31/25 06:15 • (MS) R4172501-3 01/31/25 07:50 • (MSD) R4172501-4 01/31/25 08:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	U	32.1	30.8	128	123	1	10.0-160			4.13	35
Acrylonitrile	25.0	U	32.5	29.7	130	119	1	21.0-160			9.00	32
Benzene	5.00	2.95	9.48	8.94	131	120	1	17.0-158			5.86	27
Bromochloromethane	5.00	U	7.07	6.28	141	126	1	38.0-142			11.8	26
Bromodichloromethane	5.00	U	7.08	6.60	142	132	1	31.0-150			7.02	27
Bromoform	5.00	U	5.18	4.87	104	97.4	1	29.0-150			6.17	29

L1821241-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821241-11 01/31/25 06:15 • (MS) R4172501-3 01/31/25 07:50 • (MSD) R4172501-4 01/31/25 08:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromomethane	5.00	U	3.43	2.85	68.6	57.0	1	10.0-160			18.5	38
Carbon disulfide	5.00	U	5.30	4.63	106	92.6	1	10.0-156			13.5	28
Carbon tetrachloride	5.00	U	6.48	5.89	130	118	1	23.0-159			9.54	28
Chlorobenzene	5.00	U	5.20	4.88	104	97.6	1	33.0-152			6.35	27
Chlorodibromomethane	5.00	U	5.23	4.90	105	98.0	1	37.0-149			6.52	27
Chloroethane	5.00	U	7.29	6.62	146	132	1	10.0-160			9.63	30
Chloroform	5.00	U	6.65	6.24	133	125	1	29.0-154			6.36	28
Chloromethane	5.00	U	5.42	4.80	108	96.0	1	10.0-160			12.1	29
Dibromomethane	5.00	U	6.04	5.78	121	116	1	30.0-151			4.40	27
1,2-Dibromoethane	5.00	U	5.34	4.95	107	99.0	1	34.0-147			7.58	27
1,2-Dibromo-3-Chloropropane	5.00	U	4.26	4.18	85.2	83.6	1	22.0-151	J	J	1.90	34
1,2-Dichlorobenzene	5.00	U	4.91	4.49	98.2	89.8	1	34.0-149			8.94	28
1,4-Dichlorobenzene	5.00	0.171	4.91	4.73	94.8	91.2	1	35.0-142			3.73	27
trans-1,4-Dichloro-2-butene	5.00	U	4.88	4.50	97.6	90.0	1	10.0-157			8.10	37
1,1-Dichloroethane	5.00	U	6.68	6.06	134	121	1	25.0-158			9.73	27
1,2-Dichloroethane	5.00	U	6.88	6.28	138	126	1	29.0-151			9.12	27
1,1-Dichloroethene	5.00	U	6.46	5.79	129	116	1	11.0-160			10.9	29
cis-1,2-Dichloroethene	5.00	U	6.30	5.77	126	115	1	10.0-160			8.78	27
trans-1,2-Dichloroethene	5.00	U	5.94	5.34	119	107	1	17.0-153			10.6	27
1,2-Dichloropropane	5.00	U	6.60	6.35	132	127	1	30.0-156			3.86	27
cis-1,3-Dichloropropene	5.00	U	6.30	5.86	126	117	1	34.0-149			7.24	28
trans-1,3-Dichloropropene	5.00	U	5.43	5.03	109	101	1	32.0-149			7.65	28
Ethylbenzene	5.00	U	4.98	4.66	99.6	93.2	1	30.0-155			6.64	27
2-Hexanone	25.0	U	25.9	25.1	104	100	1	21.0-160			3.14	29
Iodomethane	25.0	U	13.1	14.3	52.4	57.2	1	10.0-160			8.76	40
2-Butanone (MEK)	25.0	U	29.5	27.4	118	110	1	10.0-160			7.38	32
Methylene Chloride	5.00	U	6.39	5.93	128	119	1	23.0-144			7.47	28
4-Methyl-2-pentanone (MIBK)	25.0	U	28.2	26.9	113	108	1	29.0-160			4.72	29
Styrene	5.00	U	4.82	4.63	96.4	92.6	1	33.0-155			4.02	28
1,1,1,2-Tetrachloroethane	5.00	U	5.47	5.32	109	106	1	36.0-151			2.78	29
1,1,2,2-Tetrachloroethane	5.00	U	5.65	5.27	113	105	1	33.0-150			6.96	28
Tetrachloroethene	5.00	U	5.38	5.03	108	101	1	10.0-160			6.72	27
Toluene	5.00	U	5.27	5.01	105	100	1	26.0-154			5.06	28
1,1,1-Trichloroethane	5.00	U	6.92	6.36	138	127	1	23.0-160			8.43	28
1,1,2-Trichloroethane	5.00	U	5.80	5.57	116	111	1	35.0-147			4.05	27
Trichloroethene	5.00	U	5.58	5.39	112	108	1	10.0-160			3.46	25
Trichlorofluoromethane	5.00	U	7.93	6.89	159	138	1	17.0-160			14.0	31
1,2,3-Trichloropropane	5.00	U	5.12	5.20	102	104	1	34.0-151			1.55	29
Vinyl acetate	25.0	U	36.2	33.5	145	134	1	12.0-160			7.75	31
Vinyl chloride	5.00	U	7.13	6.34	143	127	1	10.0-160			11.7	27

L1821241-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1821241-11 01/31/25 06:15 • (MS) R4172501-3 01/31/25 07:50 • (MSD) R4172501-4 01/31/25 08:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	15.0	0.194	15.5	14.9	102	98.0	1	29.0-154			3.95	28
(S) Toluene-d8					*93.1*	*91.2*		*80.0-120*				
(S) 4-Bromofluorobenzene					*104*	*104*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*106*	*105*		*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace® Location Requested (City/State): **Mt Juliet, TN**

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

L1821192

Company Name: SCS Engineers - Little Rock, AR	Contact/Report To: Stacie Whitmer
Street Address: 9780 Maumelle Blvd. North Little Rock, AR 72113	Phone #:
	E-Mail: SWhitmer@scsengineers.com
	Cc E-Mail: AFeldman@scsengineers.com
Customer Project #: CHIROCKAR-DREW	Invoice to:
Project Name: Drew Co Landfill	Invoice E-mail:
Site Collection Info/Facility ID (as applicable):	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET	County / State origin of sample(s): Drew County, Arkansas
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other_____	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:
	DW PWSID # or WW Permit # as applicable:
	Field Filtered (if applicable): [ ] Yes [ ] No
	Analysis:

Specify Container Size **: 4 6

Identify Container Preservative Type***: 1 4

Analysis Requested

**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) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: / AcctNum / Client ID: / Table #: / Profile / Template: / Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (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 Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	ALK,CHLORIDE,SULFATE	V8260AP1	Sample Comment
DREWCO3	SW	G			1/27/25	1450	3			X	X	-01

J147

Sample Receipt Checklist

		If Applicable	
COC Seal Present/Intact:	Y N		
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres. Correct/Check:	Y N
Correct bottles used:	Y N	TLA9 0.5+0.4=1.2	
Sufficient volume sent:	Y N		
RA Screen <0.5 mR/hr:	Y N	Bottle Count: 3	

Additional Instructions from Pace®:

Collected By: Printed Name: Anna Feldman Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):	[ ] On Ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	1/28/25 1800		1/29/25 0900
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number: 4041 0471 7742

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

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.