FY 2023 DRY SEASON STORMWATER QUALITY MONITORING REPORT FOR NOVEMBER 2022 – FEBRUARY 2023

MARCH 29, 2023

Prepared for:

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Engineering Spatial Data Advanced Technologies



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FOR

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I. EXECUTIVE SUMMARY

Three (3) storm events were sampled and tested for stormwater quality during the four-month period of November 2022 – February 2023. This reporting period is within the FY 2023 dry season. For the first half of the FY 2023 dry season, stormwater samples were obtained at 3 monitoring locations. The monitoring activity conducted by AMAFCA and the analysis of the stormwater quality results received for this reporting period are summarized in this report.

II. OVERVIEW OF STORMWATER MONITORING ACTIVITY

Bohannan Huston, Inc. (BHI) and Daniel B. Stephens & Associates (DBS&A) assisted AMAFCA with the wet weather, dry season Stormwater Quality Monitoring Program tasks from November 1, 2022, through February 28, 2023. The monitoring conducted for this report provides continued internal stormwater quality results within AMAFCA's jurisdiction, allowing the ability to assess Municipal Separate Storm Sewer System (MS4) program and stormwater controls. Under the 2014 Middle Rio Grande Watershed MS4 Permit, NPDES Permit No. NMR04A000 ("MS4 Permit"), stormwater compliance monitoring reporting for the MS4 Permit is not included in this report since the compliance monitoring is being conducted separately by a cooperative monitoring group.

This is the first report for the FY 2023 dry season monitoring program. The monitoring and sample collection for this report began on November 1, 2022, and the sampling from November 1, 2022 to February 28, 2023 is provided in this report. The stormwater monitoring program includes 13 monitoring locations which are listed below and shown in Figure 1, page 3.

- 1. ML-1 North Floodway near Alameda, also referred to as the North Diversion Channel (NDC) at Alameda
- 2. ML-2 South Diversion Channel (SDC)
- 3. ML-3 San Jose Drain at Woodward Avenue
- 4. ML-4 Tijeras Arroyo near Confluence with SDC
- 5. ML-5 San Antonio Arroyo
- 6. Rio Grande Downstream of MS4 at Isleta Lakes
- 7. Bear Arroyo at Jefferson (E. coli only)



- 8. Main Hahn Arroyo (E. coli only)
- 9. Embudo Arroyo at Monte Largo (E. coli only)
- 10. Lower Bear at Wyoming
- 11. Lower Bear at Spain
- 12. Black Arroyo Channel
- 13. North Diversion Channel (NDC) at the Equipment Crossing

Samples from sites 1 through 6, and sites 10 through 13, are analyzed using the parameter list shown in Table 1 on pages 4-5. The dry season parameters (with the exclusion of E. coli and PCBs, which are to be tested every dry season) were determined based on a decision protocol evaluating prior monitoring results with water quality standard (WQS) exceedances. Sites 7 through 9 are only sampled and analyzed for E. coli, which matches historical analysis at these monitoring locations.

This monitoring followed the MS4 Permit definition of a qualifying storm event (Part III.A.1.c) as a predicted (or actual) rainfall magnitude of a storm event that is greater than 0.25 inches. AMAFCA monitored the Wunderground.com WunderMap to determine qualifying storm events for sample collection and testing decisions. The MS4 Permit antecedent moisture condition requirement was discussed with the EPA during the water quality monitoring scheme development, and it was determined that this is no longer a monitoring requirement.

For E. coli sampling, the established sampling protocol was followed - one (1) sample would be collected and tested per site at monitoring locations 1 through 5, even if the 8-hour hold time for E. coli could not be met. After that, only E. coli samples that met the 8-hour hold time would be collected and tested from these sites. For sites 6 through 13, an E. coli sample is only collected and tested if it is going to be within the 8-hour hold time.



Explanation

AMAFCA watershed

Rio Grande

USGS flow stationSonde

Water quality sample locationTypeAnalytesOAutoBacteria onlyIGrabFull analyte list

Notes: * Flow data online

AMAFCA STORMWATER

Water Quality Sampling FY2023 Dry Season



Figure 1

	Monitoring Locations	Parameter List
1	ML-1 North Floodway near Alameda	E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Dissolved Copper Chromium VI (Hexavalent) Hardness Semivolatiles Benzo(a)anthrancene Benzo(b)fluoranthene (alternate name 3, 4- Benzoflouranthene) Benzo(k)fluoranthene Chrysene Indeno(1,2,3-cd)pyrene Field Parameters
2	ML-2 South Diversion Channel	E. coli PCBs (Method 608) Mercury (Method 1631) Chromium VI (Hexavalent) Field Parameters
3	ML-3 San Jose Drain at Woodward Avenue	E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent) Field Parameters
4	ML-4 Tijeras Arroyo near Confluence with SDC	E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent) Field Parameters
5	ML-5 San Antonio Arroyo	E. coli PCBs (Method 608) Mercury (Method 1631) Chromium VI (Hexavalent) Field Parameters

Table 1: Monitoring Locations and Parameter List

	Monitoring Locations	Parameter List
6	Rio Grande Downstream of MS4 at Isleta Lakes	E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent) Field Parameters
7	Bear Arroyo at Jefferson	E. coli Field Parameters
8	Main Hahn Arroyo	E. coli Field Parameters
9	Embudo Arroyo at Monte Largo	E. coli Field Parameters
10	Lower Bear at Wyoming	E. coli PCBs (Method 608) Mercury (Method 1631) Dissolved Copper Chromium VI (Hexavalent) Hardness Semivolatiles Benzo(a)anthrancene Benzo(b)fluoranthene (alternate name 3, 4- Benzoflouranthene) Benzo(k)fluoranthene Chrysene Field Parameters
11	Lower Bear at Spain	E. coli PCBs (Method 608) Mercury (Method 1631) Dissolved Copper Chromium VI (Hexavalent) Hardness Field Parameters
12	Black Arroyo Channel	E. coli PCBs (Method 608) Mercury (Method 1631) Chromium VI (Hexavalent) Field Parameters
13	North Diversion Channel at the Equipment Crossing	E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent) Field Parameters

Table 1 (continued)

A. MONITORING ACTIVITY SUMMARY

Below is a chronological summary of the major monitoring activities completed during the first half of the FY 2023 dry season, from November 1, 2022 through February 28, 2023. AMAFCA completes the majority of the monitoring activity, with minimal support from DBS&A. AMAFCA's maintenance and monitoring log for November 1, 2022 through February 28, 2023 is provided in Appendix 1. Appendix 2 provides a copy of the "Summary of Monitoring Locations Obtained" tracking table used to facilitate the monitoring activities. Information related to the samples collected to date is summarized in Table 3, page 8.

- December 3, 2022 A composite sample was collected at ML-1 North Diversion Channel (NDC) at Alameda by AMAFCA on December 3, 2022 at 8:13 p.m. Eight (8) liters of stormwater were collected, and the sample was submitted to Hall Environmental Analysis Laboratory (HEAL) for the full suite parameter list. E. coli was not within holding time. Field parameters were obtained at the site during sample collection.
- December 4, 2022 At the South Diversion Channel (SDC) the autosampler was enabled at 1:03 a.m. and collected ten (10) liters of stormwater. The sample was composited by AMAFCA and submitted to HEAL for the full suite parameter list. E. coli was not collected within holding time. Field parameters were obtained at the site during sample collection.
- > January 17, 2023 AMAFCA visited multiple sites to collect samples.
 - At ML-1 NDC at Alameda, the autosampler was enabled at 2:55 p.m. and collected 3 liters of stormwater. The sample was composited by AMAFCA and submitted to HEAL for an E. coli sample within hold time, as a full sample had already been obtained at this location on December 3, 2022.
 - At the Main Hahn Arroyo, a grab sample was collected by AMAFCA at 1:20 p.m. 3.5 liters of stormwater were collected and submitted to HEAL for an E. coli sample within hold time. Field parameters were obtained at the site during sample collection.

No reports of theft or vandalism occurred during this monitoring period and no complaints were received, as shown in Table 2. Table 3 summarizes the sample collection completed from November 1, 2022 through February 28, 2023 at the 13 monitoring locations for this report.

Table 2: Summary of Theft or Vandalism at AMAFCA Monitoring Locations with
AMAFCA Monitoring Equipment During FY 2023 Dry Season
(November 2022 – February 2023)

Monitoring Locations with AMAFCA Monitoring Equipment	Theft or Vandalism?	If Yes, Date of Theft or Vandalism
ML-1 North Floodway near Alameda, also referred to as North Diversion Channel (NDC) at Alameda	NO	
ML-2 South Diversion Channel (SDC)	NO	
ML-3 San Jose Drain at Woodward Avenue	NO	_
ML-4 Tijeras Arroyo near Confluence with SDC	NO	—
ML-5 San Antonio Arroyo	NO	_
Main Hahn Arroyo (E. coli only)	NO	_
Embudo Arroyo at Monte Largo (E. coli only)	NO	_

Table 3: Dry Season FY 2023 Stormwater Monitoring Status and Tracking

					Wet Weather - Dry Season Monitoring - November 2022- June 2023 Summary						
		Number of Full Samples	Number of Bacteria Only Samples	Sample Type 1=Automated Sampler 2=Grab	Sample Date	Notes - see below table for note explanation	Sample Start Time / End Time	Duration of Storm Event (hours)	Rainfall Measurement or Estimate (inches)	Duration between this Event and End of Previous Measurable Event (hours)	Estimate of Total Volume of Discharge Sampled (gallons)
	Monitoring Locations	2	2								
1	ML-1 North Diversion Channel at Alameda	1	1	1,1	12/3/2022; 1/17/2023		19:22-20:13; 14:55-14:55	5.5, 2.25	0.47; 0.28	701; 372	2.1; 0.8
2	ML-2 South Diversion Channel (SDC)	1		1	12/4/2022		00:44-01:03	5.5	0.53	701	2.6
3	ML-3 San Jose Drain at Woodward Ave.										
4	ML-4 Tijeras Arroyo near Confluence w/ S. Diversion Channel										
5	ML-5 San Antonio Arroyo										
6	Rio Grande Downstream of MS4 at Isleta Lakes										
7	Bear Arroyo at Jefferson Street										
8	Main Hahn Arroyo		1	2	1/17/2023		13:20-13:20	2.25	0.28	372	0.8
9	Embudo Arroyo at Monte Largo										
10	Lower Bear at Wyoming										
11	Lower Bear at Spain										
12	Equipment Crossing										
13	Black Arroyo Channel										
	QA/QC Samples										
	Field Duplicate										
	Equipment Blank										

Wet Season = July 1 through October 31

Dry Season = November 1 through June 30

Sample Type - 1) Automated sampler, flow proportioned composite; 2) Grab sample, flow proportioned composite.

III. STORMWATER MONITORING DATA SUMMARY

This report provides AMAFCA with stormwater quality screening results within its jurisdiction to facilitate assessment of the MS4 program and stormwater controls. For this report, from November 2022 through February 2023 (first half of the FY 2023 dry season), samples were obtained at 3 of the 13 monitoring locations; refer to Table 4 below. During sampling, a more detailed tracking table, similar to Table 3, is utilized by the team; the sampling tracking table is provided in Appendix 2.

	Monitoring Locations	E. coli Within Hold Time	Full Sample
1	ML-1 North Floodway near Alameda, also referred to as North Diversion Channel (NDC) at Alameda	YES	YES
2	ML-2 South Diversion Channel (SDC)	NO	YES
3	ML-3 San Jose Drain at Woodward Avenue	NO	NO
4	ML-4 Tijeras Arroyo near Confluence with SDC	NO	NO
5	ML-5 San Antonio Arroyo	NO	NO
6	Rio Grande downstream of MS4 at Isleta Lakes	NO	NO
7	Bear Arroyo at Jefferson (E. coli only)	NO	
8	Main Hahn Arroyo (E. coli only)	YES	
9	Embudo Arroyo at Monte Largo (E. coli only)	NO	
10	Lower Bear at Wyoming	NO	NO
11	Lower Bear at Spain	NO	NO
12	Black Arroyo Channel	NO	NO
13	NDC at Equipment Crossing	NO	NO
	Field Duplicate Sample	NO	NO
	Equipment Blank	NO	NO

Table 4: Summary of Samples Obtained at Monitoring Locations(November 2022 – February 2023)

The HEAL reports for the sampling done for the FY 2023 dry season, along with the field data, are included in Appendix 3 to this report. The lab results have been added to an Excel database in accordance with the project scope for the AMAFCA water quality on-call project, which is related to this current monitoring report. All lab data entered is marked in the project excel database as "P" (Provisional). All lab data will be Verified and Validated at the end of the FY 2023 dry season.

Analysis results have been compared to applicable surface water quality standards (WQSs) found in New Mexico Administrative Code (NMAC) 20.6.4, as well as in Pueblo of Isleta and Pueblo of Sandia WQSs. An exceedance of a WQS is not a violation of the MS4 Permit, as the permit does not have numeric discharge limitations. Several parameter results were detected above the in-stream WQSs at the AMAFCA watershed monitoring locations during this monitoring period. These are summarized in Table 5 and shown in Figure 2.

	Parameters, Applica Results Exceed	ble Water Quality Sta ling or Outside of Ap	ndard (WQS), and plicable WQS
	E. coli	Mercury	Dissolved Copper
Sampling Date and Location	WQS: 88 MPN (CFU/100 mL) Pueblo of Isleta Primary Contact Ceremonial & Recreational	WQS: 0.012 ug/L Pueblo of Isleta Fresh Water Aquatic Life Chronic Toxicity WQS: 0.0011 ug/L Pueblo of Isleta Wildlife Criteria	WQS: Acute = 8 ug/L Aquatic Life Acute/Chronic Values are based on Hardness for Pueblo of Isleta, Pueblo of Sandia, and New Mexico WQSs
12/3/2022 North Diversion Channel at Alameda	*2,247 MPN (CFU/100 mL)	0.0698 ug/L	11 ug/L
12/4/2022 South Diversion Channel	*1,467 MPN (CFU/100 mL)	0.0299 ug/L	Not Tested
1/17/2023 North Diversion Channel at Alameda	2,987 MPN (CFU/100 mL)	Not Tested	Not Tested
1/17/2023 Main Hahn Arroyo	10,462 MPN (CFU/100 mL)	Not Tested	Not Tested

 Table 5: Parameters Detected Above or Outside of Applicable Water Quality

 Standards

* E. coli was not tested within the 8-hour hold time.



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Watershed

AMAFCA Monitoring Locations

- O Not Collected
- Ocollected, Lab Report Not Yet Received
- In-Stream WQS Exceeded

Sample Results Exceeding In-Stream WQS at AMAFCA Monitoring Locations FY 2023 Dry Season

(November 2022 - February 2023)

Figure 2



0	5,500	11,000	22,000
			Feet

1" = 11,000 ft.





A. E. COLI DATA FOR FY 2023 DRY SEASON

A box and whisker plot of the E. coli data received for the FY 2023 dry season (November 2022 – February 2023), compared to historical values (collected by the USGS from 2003 to 2012) and previous AMAFCA monitoring sample results, is provided in Figure 3. An interactive figure showing the results for all historical E. coli data collected for both wet and dry seasons at the AMAFCA monitoring locations is provided in Figure 4.



Figure 3: Plot of E. coli Data from Watershed Locations Compared to Historical Data



P:\20230168\WRARCGIS\Maps\AMAFA_WQS\AMAFA_WQS.aprx Author: mcrooks

Historic E. coli Results at AMAFCA Monitoring Locations FY 2014 - 2023



Dry Season: November - June

Wet Season: July - October

Interactive map: select text below to view each map FY 2014 - Dry Season FY 2015 - Wet Season FY 2015 - Dry Season FY 2016 - Wet Season FY 2016 - Dry Season FY 2017 - Wet Season FY 2017 - Dry Season FY 2018 - Wet Season FY 2018 - Dry Season FY 2019 - Wet Season FY 2019 - Dry Season FY 2020 - Wet Season FY 2020 - Dry Season FY 2021 - Wet Season FY 2021 - Dry Season FY 2022 - Wet Season FY 2022 - Dry Season FY 2023 - Wet Season FY 2023 - Dry Season



March 2023

PCB, GROSS ALPHA, ADJUSTED, AND MERCURY DATA FOR FY 2023 DRY SEASON

During the FY 2023 dry season, November 2022 – February 2023, stormwater sample results were received from 2 monitoring locations that were screened for PCBs using EPA Method 608. All PCB screening results that were obtained were reported as not detected (ND).

Gross alpha, adjusted results were tested and received from 1 monitoring location. The analysis result obtained at the NDC at Alameda requires follow up with the lab. An interactive figure showing the results for all historical Gross Alpha data collected for both wet and dry seasons at the AMAFCA monitoring locations is provided in Figure 6.

Mercury levels reported as exceeding applicable in-stream WQS values relate to 'Wildlife Usage' WQSs for the Pueblo of Isleta; this WQS value is an order of magnitude lower than other mercury WQSs. During the FY 2023 dry season, November 2022 – February 2023, stormwater samples from 2 monitoring locations were screened and had results reported for Mercury using EPA Method 1631. All Mercury screening results received for the FY 2023 dry season exceeded the Pueblo of Isleta 'Wildlife Usage' WQS, and the Pueblo of Isleta & Sandia, Fresh Water Aquatic Life Chronic Toxicity WQS. Refer to Table 6 below for a summary of the various Mercury WQSs applicable to the Middle Rio Grande. Figure 5 on page 15 shows the Mercury results for the FY 2023 dry season related to the WQSs for the State of NM 'Wildlife Habitat' criteria (0.77 ug/L), the WQSs for the Pueblo of Isleta and Pueblo of Sandia 'Fresh Water Aquatic Life Chronic Toxicity' (0.012 ug/L), the minimum quantification limit (0.005 ug/L) required by the MS4 Permit, and the WQSs for Pueblo of Isleta 'Wildlife Usage' criteria (0.0011 ug/L). An interactive figure showing the results for all historical Mercury data collected for both wet and dry seasons at the AMAFCA monitoring locations is provided in Figure 7.

Mercury	Mercury	Mercury	Mercury	Mercury
Wildlife Usage	& Sandia, Fresh Water Aquatic Life Chronic Toxicity	NMAC 20.6.4 Wildlife Habitat	NMAC 20.6.4 Drinking Water Supply	& Sandia, Fresh Water Aquatic Life Acute Toxicity
WQS: 0.0011 ug/L	WQS: 0.012 ug/L	WQS: 0.77 ug/L	WQS: 2 ug/L	WQS: 2.4 ug/L



Figure 5: Plot of Mercury Results Compared to the NMAC and Pueblo of Isleta WQSs (November 2022 – February 2023)



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Historic Gross Alpha Results at AMAFCA Monitoring Locations FY 2016 - 2023



Dry Season: November - June

Wet Season: July - October





March 2023



P:\20230168\WRARCGIS\Maps\AMAFA_WQS\AMAFA_WQS.aprx Author: mcrooks

Historic Mercury Results at AMAFCA Monitoring Locations FY 2016 - 2023

Dry Season: November - June Wet Season: July - October



IV. SUMMARY

This is the first of two reports for the FY 2023 dry season, wet weather monitoring program. During the first half of the FY 2023 dry season monitoring period (November 2022 – February 2023), stormwater samples were obtained at 3 of the 13 monitoring locations. This report summarizes the monitoring activity and stormwater sample results for the first half of the FY 2023 dry season, November 2022 through February 2023.

APPENDICES

Appendix 1 – AMAFCA Maintenance & Monitoring Log Appendix 2 – FY 2023 Dry Season Summary of Samples Obtained at Monitoring Locations, dated February 28, 2023 Appendix 3 – Hall Environmental Analysis Laboratory Reports and Field Data for November 2022 – February 2023

APPENDIX 1: AMAFCA MAINTENANCE & MONITORING LOG

AMAFCA Maintenance and Monitoring Log for FY 23 Dry Season (November 2022 - February 2023)

North Diversion Channel Inspection Work Sample Liters Collected Date Active In-active Result Order # Sample Name Collected Notes 11/15/2022 Х Pass 4863 12/5/2022 Х 8 4926 Sample collected 12/3/2022 @ 20:13. Full anaylte list submitted except E. coli within holding time. Pass Yes NDC-20221203 12/20/2022 Х 5086 Pass 1/4/2023 Sample collected 1/2/2023 @ 1:32. Saple dumped because of E. coli holding time. Х 7 Pass 5241 Yes 1/17/2023 Х 5319 NDC-20230117 3 Autosampler collected E. coli sample at 14:55. Pass Yes

South Diversion Channel

			Inspection	Work	Sample		Liters	
Date	Active	In-active	Result	Order #	Collected	Sample Name	collected	Notes
11/1/2022	Х		Pass	4756				2023 Dry Season Checklist Inspe
11/21/2022	Х		Pass	4881				
12/5/2022	Х		Pass	4930	Yes	SDC-20221204	10	Sample collected 12/4/2022 @ 01:03. Full anaylte list sub
12/19/2022	Х		Pass	5081				
1/10/2023	Х		Pass	5256				
2/28/2023	Х		Pass	5396				

Tijeras

	Liters		Sample	Work	Inspection			
Notes	collected	Sample Name	Collected	Order #	Result	In-active	Active	Date
2023 Dry Season Checklist Inspection comple				4757	Pass		Х	11/1/2022
				4880	Pass		Х	11/21/2022
				4929	Pass		Х	12/5/2022
Trickle charger insta				4954	Pass		Х	12/12/2022
				5080	Pass		Х	12/19/2022
				5255	Pass		Х	1/10/2023
				5395	Pass		Х	2/28/2023

San Jose

			Inspection	Work	Sample		Liters	
Date	Active	In-active	Result	Order #	Collected	Sample Name	Collected	Notes
11/21/2022	Х		Pass	4882				
12/5/2022	Х		Pass	4928				
12/19/2022	Х		Pass	5079				
1/10/2023	Х		Pass	5254				
2/28/2023	Х		Pass	5397				Back-up batteries replaced in

ction completed

mitted except E. coli within holding time.

eted. Replaced actuator cable.

alled.

pump alarm.

	Sai	n Antonio							
Date	Active	In-active	Inspection Result	Work Order #	Sample Collected	Sample Name	Liters Collected		Notes
11/22/2022	Х		Pass	4886					
12/5/2022	Х		Pass	4927					
12/20/2022	Х		Pass	5085					
12/28/2022	Х		Pass	5225					
1/11/2023	Х		Pass	5268					
2/7/2023	х		Pass	5369					

Hahn

			Inspection	Work	Sample		Liters	
Date	Active	In-active	Result	Order #	Collected	Sample Name	Collected	Notes
11/21/2022	Х		Pass	4883				
12/19/2022	Х		Pass	5078				
1/9/2023	Х		Pass	5250				
1/17/2023	Х		Pass	5318	Yes	Hahn-20230117	6	Grab sample collected at 13:20. E. coli wit

Embudo

			Inspection	Work	Sample		Liters	
Date	Active	In-active	Result	Order #	Collected	Sample Name	Collected	Notes
11/21/2022	Х		Pass	4884				
12/12/2022	Х		Pass	4955				
1/9/2023	Х		Pass	5251				

thin holdin time submitted.

APPENDIX 2: FY 2023 DRY SEASON SUMMARY OF SAMPLES OBTAINED AT MONITORING LOCATIONS, DATED FEBRUARY 28, 2023

AMAFCA FY 2023 Dry Season Monitoring Summary of Monitoring Location Samples Obtained (November 2022 – June 2023)

February 28, 2023

No.	Monitoring Site Locations	Autosampl er ISCO Model #	Cellular Alarm – Solar or Outlet	Parameters	Autosampler On/Off	Cellular Alarm On/Off	Cellular Alarm Phone #	E. coli NOT within Hold Time	E. coli within Hold Time	Full Sample
1	ML-1 North Floodway near Alameda, also referred to as North Diversion Channel (NDC) at Alameda	ISCO 3700R	Outlet	Field Parameters E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Dissolved Copper Chromium VI (Hexavalent) Hardness Semivolatiles: Benzo(a)anthracene Benzo(b)fluoranthene (alternate name 3, 4- Benzofluoranthene) Benzo(k)fluoranthene Chrysene Indeno(1,2,3-cd)pyrene	OFF	OFF	588-543- 3528	Yes (12/3/22)	Yes (1/17/23)	YES (12/3/22)
2	ML-2 South Diversion Channel (SDC)	ISCO 6712	Outlet; May be Tied to Solar	Field Parameters E. coli PCBs (Method 608) Mercury (Method 1631) Chromium VI (Hexavalent)	ON	ON	500-209- 2653	Yes (12/4/22)	No	YES (12/4/22)
3	ML-3 San Jose Drain at Woodward Avenue	ISCO 6712	Outlet	Field Parameters E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent)	ON	ON	588-522- 5512	No	No	No
4	ML-4 Tijeras Arroyo near Confluence with SDC	ISCO 6712	Outlet; May be Tied to Solar	Field Parameters E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent)	ON	ON	588-663- 9088	No	No	No
5	ML-5 San Antonio Arroyo	ISCO 6712	Solar	Field Parameters E. coli PCBs (Method 608) Mercury (Method 1631) Chromium VI (Hexavalent)	ON	ON	500-208- 8375	No	No	No
6	Rio Grande downstream of MS4 at Isleta Lakes	N/A	N/A	Field Parameters E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent)	N/A	N/A	N/A	N/A – only sample within hold time	No	No
7	Bear Arroyo at Jefferson (E. coli only)	N/A	N/A	Field Parameters E. coli	N/A	N/A	N/A	N/A – only sample within hold time	No	
8	Main Hahn Arroyo (E. coli only)	ISCO 6712	Solar	Field Parameters E. coli	OFF	OFF	588-557- 0201	N/A – only sample within hold time	Yes (1/17/23)	
9	Embudo Arroyo at Monte Largo (E. coli only)	ISCO 6712	Solar	Field Parameters E. coli	ON	ON	500-212- 2193	N/A – only sample within hold time	No	
10	Lower Bear at Wyoming (Car 1)	N/A	N/A	Field Parameters PCBs (Method 608) Mercury (Method 1631) Dissolved Copper Chromium VI (Hexavalent) Hardness Semivolatiles: Benzo(a)anthracene Benzo(b)fluoranthene (alternate name 3, 4 Benzofluoranthene) Benzo(k)fluoranthene Chrysene	N/A	N/A	N/A	N/A – only sample within hold time	No	No

AMAFCA

FY 2023 Dry Season Monitoring Summary of Monitoring Location Samples Obtained (November 2022 – June 2023)

February 28, 2023

No.	Monitoring Site Locations	Autosampl er ISCO Model #	Cellular Alarm – Solar or Outlet	Parameters	Autosampler On/Off	Cellular Alarm On/Off	Cellular Alarm Phone #	E. coli NOT within Hold Time	E. coli within Hold Time	Full Sample
11	Lower Bear at Spain (Car 5)	N/A	N/A	Field Parameters PCBs (Method 608) Mercury (Method 1631) Dissolved Copper Chromium VI (Hexavalent) Hardness	N/A	N/A	N/A	N/A – only sample within hold time	No	No
12	Black Arroyo Channel	N/A	N/A	Field Parameters E. coli PCBs (Method 608) Mercury (Method 1631) Chromium VI (Hexavalent)	N/A	N/A	N/A	N/A – only sample within hold time	No	No
13	NDC at Equipment Crossing	N/A	N/A	Field Parameters E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent)	N/A	N/A	N/A	N/A – only sample within hold time	No	No
14	Field Duplicate	N/A Field Duplicate at NDC at Equipment Crossing	N/A	Field Duplicate at NDC at Equipment Crossing: Field Parameters E. coli PCBs (Method 608) Gross Alpha (adjusted) Mercury (Method 1631) Chromium VI (Hexavalent)	N/A	N/A	N/A	N/A – only sample within hold time	No	No
15	Equipment Blank	Location TBD & Parameter List will be Determined by Location	N/A	Field Parameters E. coli Remaining Parameter List TBD by Location of Equipment Blank Sample	N/A	N/A	N/A	N/A – only sample within hold time	No	No

p. 2 of 2

APPENDIX 3: HALL ENVIRONMENTAL ANALYSIS LABORATORY REPORTS AND FIELD DATA FOR NOVEMBER 2022 - FEBRUARY 2023

C	· Pill
Sampler 250	ni fadilla
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AMAFCA Dry Season 2023 Sampling Data Sheet

Site Identifica	tion: ML-1 N	orth Divers	ion Channe	el								
ISCO Program	ming Dates	24 hour start:	Tim	ne restricted start	: Shu	t off:						
Full Suite Sample Date and Time: 12/3/22 20:13 Full Sample identification: NDC - 20221203 E. coli (in holding time) Sample Date and Time: E. coli (in holding time) Sample Identification: QC Samples: Duplicate/None QC Sample Time:												
Full Suite Co	llection Point:	ISCO Sampl	er Gral	b Other:								
E. coli Collec	tion Point:	ISCO Sampl	er Gral	b Other:								
Full Suite Sa	mple Volume:	8 Lit.	Collectio	n Time Start:	1:22 End:	20:13						
E. coli Samp	le Volume:		Collectio	n Time Start:	End:							
Field Parame	ters (measured	d every samplin	ng event)									
Date	Time	Temp (°C)	рН	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	Clarity, Odor, Other						
12/5/22	7:47	10.02	8.68	130	7.62							
🗌 Turbid	Water <mark>G</mark> Cold	or dark brown/	black Oil/Shee	en 🛛 Foam 🍸	Odor							
Qualifying S	iource:	0 1/0	Sta	ation Name/#:	1/07 1.011	110						
	600	KaHS	untion Data /T	NM - BR	2-907-141	sugnergne 4.0 ME						
Gauge Catc	^{h:} .47	Obser	vation Date/ I	12/4/2:	2 @ 07	1200						
Qualifying S	Source: CoCa	RaHs	St	ation Name/#: NM-BR -	138 - Albu	guergne 4.7E						
Gauge Catc	^{h:} , 54	Obser	vation Date/T	ime: 12/4/22	2 8 06	100,						
Pump alarm alert date/time: Sensor 1: Sensor 2: # #1 12/3/22 0 19:42 #2 12/3/22 0 20:33												
Notes: L3 Full suite sample, submitted with E. coli sample Apt within holding time												





Client:	hain-	of-Cu	istody Record	Turn-Around	Time:					н	ALL	E	vv	IR	0	NM	1	NT	AL	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 10, 2023

Patrick Chavez

AMAFCA 2600 Prospect Ave NE Albuquerque, NM 87107 TEL: (505) 884-2215 FAX: 12/3/2022 full suite sample from the North Diversion Channel at Alameda. E. coli not within hold time.

RE: Dry Season 2023

OrderNo.: 2212171

Dear Patrick Chavez:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/5/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Field Parameters North Diversion Channel -Temp = 10.02°C pH = 8.68Conductivity (uS/cm=umho/cm) = 130 Dissolved Oxygen (mg/L) = 7.62

Analytical Report

Lab Order 2212171

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/10/2023

CLIENT: AMAFCAProject:Dry Season 2023Lab ID:2212171-001	Client Sample ID: NDC-20221203Collection Date: 12/3/2022 8:13:00 PMMatrix: AQUEOUSReceived Date: 12/5/2022 8:42:00 AM												
Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed Batch ID						
EPA METHOD 200.7: METALS							Analyst: VP						
Calcium	23	0.11	1.0		mg/L	1	12/13/2022 9:37:26 PM 72027						
Magnesium	2.6	0.10	1.0		mg/L	1	12/13/2022 9:37:26 PM 72027						
EPA 200.8: DISSOLVED METALS							Analyst: bcv						
Copper	0.011	0.00037	0.0010		mg/L	1	12/7/2022 4:55:50 PM A93091						
SM2340B: HARDNESS							Analyst: VP						
Hardness as CaCO3	<mark>68</mark>	2.5	6.6		mg/L	1	12/13/2022 4:05:00 PM R93246						
SM 9223B FECAL INDICATOR: E. COLI	MPN Analys		Analyst: SMS										
E. Coli	<mark>2247</mark>	10.00	10.00	Н	MPN/10	0 10	12/6/2022 4:26:00 PM 71853						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

В Analyte detected in the associated Method Blank

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits Sample pH Not In Range

Р

RL Reporting Limit

Page 1 of 4

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Client:	Hall Environmental Analysis Lab	Work Order:	MCL0150
Address.	Albuquerque, NM 87109	Reported:	1/9/2023 11:28
Attn:	Andy Freeman		

Analytical Results Report

Sample Location: Lab/Sample Number: Date Received:	2212171-001E (MCL0150-01 12/06/22 13:11	NDC-2	0221203) Collect Date: Collected By:	12/03/22 2	20:13				
Matrix:	Water								
Analyte	F	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Mercury									
Mercury		0.0698	ug/L	0.00200	0.00500	12/8/22 15:05	BSM	EPA 1631 E	D1
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Analytical Results Report

(Continued)

Sample Location:	2212171-001F (NDC-	20221203)	
Lab/Sample Number:	MCL0150-02	Collect Date:	12/03/22 20:13
Date Received:	12/06/22 13:11	Collected By:	
Matrix:	Water		

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles								
4,4'-DDD	ND	ug/L	0.00100	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
4,4'-DDE	ND	ug/L	0.00400	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
4,4'-DDT	ND	ug/L	0.00400	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
Aldrin	ND	ug/L	0.00400	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
alpha-BHC	ND	ug/L	0.00200	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
Aroclor 1016 (PCB-1016)	ND	ug/L	0.0500	0.200	12/9/22 4:08	GPB	EPA 608.3	U
Aroclor 1221 (PCB-1221)	ND	ug/L	0.0500	0.200	12/9/22 4:08	GPB	EPA 608.3	U
Aroclor 1232 (PCB-1232)	ND	ug/L	0.0500	0.200	12/9/22 4:08	GPB	EPA 608.3	U
Aroclor 1242 (PCB-1242)	ND	ug/L	0.0500	0.200	12/9/22 4:08	GPB	EPA 608.3	U
Aroclor 1248 (PCB-1248)	ND	ug/L	0.0500	0.200	12/9/22 4:08	GPB	EPA 608.3	U
Aroclor 1254 (PCB-1254)	ND	ug/L	0.0500	0.200	12/9/22 4:08	GPB	EPA 608.3	U
Aroclor 1260 (PCB-1260)	ND	ug/L	0.0500	0.200	12/9/22 4:08	GPB	EPA 608.3	U
beta-BHC	ND	ug/L	0.00200	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
Chlordane	ND	ug/L	0.0500	0.100	12/9/22 4:08	GPB	EPA 608.3	U
delta-BHC	ND	ug/L	0.00200	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
Dieldrin	ND	ug/L	0.00300	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
Endosulfan I	ND	ug/L	0.00200	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
Endosulfan II	ND	ug/L	0.00300	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
Endosulfan sulfate	ND	ug/L	0.00400	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
Endrin	ND	ug/L	0.00200	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
Endrin aldehyde	ND	ug/L	0.00100	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
Endrin ketone	ND	ug/L	0.00400	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
gamma-BHC (Lindane)	ND	ug/L	0.00100	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
Heptachlor	ND	ug/L	0.00300	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
Heptachlor epoxide	ND	ug/L	0.00800	0.0100	12/9/22 4:29	GPB	EPA 608.3	U
Methoxychlor	ND	ug/L	0.00500	0.0100	12/9/22 4:08	GPB	EPA 608.3	U
Toxaphene	ND	ug/L	0.0500	0.100	12/9/22 4:08	GPB	EPA 608.3	U
Surrogate: DCB	97.7%		40-130)	12/9/22 4:29	GPB	EPA 608.3	
Benzo[a]anthracene	ND	ug/L	0.100	0.500	1/4/23 5:05	MAH	EPA 625.1	U
Benzo[b]fluoranthene	ND	ug/L	0.100	0.500	1/4/23 5:05	MAH	EPA 625.1	U
Benzo[k]fluoranthene	ND	ug/L	0.100	0.500	1/4/23 5:05	MAH	EPA 625.1	U
Chrysene	ND	ug/L	0.100	0.500	1/4/23 5:05	MAH	EPA 625.1	U
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.100	0.500	1/4/23 5:05	MAH	EPA 625.1	U

Authorized Signature,



Justin Doty For Todd Taruscio, Laboratory Manager



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- D1 Sample required dilution due to matrix
- J The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- U Compound was analyzed for but not detected
- PQL Practical Quantitation Limit
- ND Not Detected
- MDL Method Detection Limit
- Dry Sample results reported on a dry weight basis
- * Not a state-certified analyte
- RPD Relative Percent Difference
- %REC Percent Recovery
- Source Sample that was spiked or duplicated.

This report shall not be reproduced except in full, without the written approval of the laboratory The results reported related only to the samples indicated.

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Quality Control Data

Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCL0232 - Hg Trace										
Blank (BCL0232-BLK1)					Prepared 8	Analyzed: 12	/8/2022			
Mercury	ND	U	0.000500	ug/L						
LCS (BCL0232-BS1)					Prepared 8	k Analyzed: 12	/8/2022			
Mercury	0.00474		0.000500	ug/L	0.00500		94.7	77-123		
Matrix Spike (BCL0232-MS1)		Source: N	1CL0027-02		Prepared & Analyzed: 12/8/2022					
Mercury	0.00498		0.000500	ug/L	0.00500	0.000697	85.7	71-125		
Matrix Spike Dup (BCL0232-MSD1)		Source: N	1CL0027-02		Prepared 8	Analyzed: 12	/8/2022			
Mercury	0.00530		0.000500	ug/L	0.00500	0.000697	92.1	71-125	6.22	24

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCL0195 - SVOC Water										
Blank (BCL0195-BLK1)					Prepared: 12/6,	/2022 Analyz	ed: 1/4/2023			
Benzo[b]fluoranthene	ND	U	0.500	ug/L						
Benzo[k]fluoranthene	ND	U	0.500	ug/L						
Chrysene	ND	U	0.500	ug/L						
Indeno(1,2,3-cd)pyrene	ND	U	0.500	ug/L						
Benzo[a]anthracene	ND	U	0.500	ug/L						
LCS (BCL0195-BS1) Prepared: 12/6/2022 Analyzed: 1/3/20							ed: 1/3/2023			
Benzo[a]anthracene	5.20		0.500	ug/L	5.00		104	70-120		
Benzo[b]fluoranthene	5.09		0.500	ug/L	5.00		102	70-120		
Benzo[k]fluoranthene	5.52		0.500	ug/L	5.00		110	70-122		
Chrysene	4.99		0.500	ug/L	5.00		99.8	70-120		
Indeno(1,2,3-cd)pyrene	5.17		0.500	ug/L	5.00		103	67-120		
LCS Dup (BCL0195-BSD1)					Prepared: 12/6	/2022 Analyz	ed: 1/3/2023			
Chrysene	4.59		0.500	ug/L	5.00		91.8	70-120	8.35	25
Benzo[a]anthracene	4.86		0.500	ug/L	5.00		97.2	70-120	6.76	25
Benzo[k]fluoranthene	4.91		0.500	ug/L	5.00		98.2	70-122	11.7	25
Indeno(1,2,3-cd)pyrene	4.87		0.500	ug/L	5.00		97.4	67-120	5.98	25
Benzo[b]fluoranthene	4.58		0.500	ug/L	5.00		91.6	70-120	10.5	25

Batch: BCL0233 - Pesticides

Blank (BCL0233-BLK1)				
Arochlor 1016 (1)	ND	U	0.200	ug/L
Arochlor 1221 (1)	ND	U	0.200	ug/L

Prepared: 12/8/2022 Analyzed: 12/9/2022

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Quality Control Data

(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCL0233 - Pesticides (Co	ontinued)									
Blank (BCL0233-BLK1)				I	Prepared: 12/8/	2022 Analyze	ed: 12/9/2022	2		
Arochlor 1232 (1)	ND	U	0.200	ug/L						
Arochlor 1242 (1)	ND	U	0.200	ug/L						
Arochlor 1248 (1)	ND	U	0.200	ug/L						
Arochlor 1254 (1)	ND	U	0.200	ug/L						
Arochlor 1260 (1)	ND	U	0.200	ug/L						

о; 1 CHAIN OF CUSTODY RECORD 1





 H_{i}

SUB CO	ONTRATOR Anate	ek ID COMPANY	Anatek Labs, Inc.		PHONE:	(208) 883-2839	FAX:	- (208) 882-9246
ADDRE	1282 .	Alturas Dr			ACCOUNT #:		EMAIL:	
CITY, S	TATE, ZIP. Mosco	ow, ID 83843		_				
ГТЕМ	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTIC	AL COMMENTS
1	2212171-001E	NDC-20221203	250ML	Aqueous	12/3/2022 8:13:00 PM	1 1631 Hg		
2	2212171-001F	NDC-20221203	1LAMGU	Aqueous	12/3/2022 8:13:00 PM	1 608, 625- See atta	ched	

SPECIAL INSTRUCTIONS / COMMENTS:

Relinquished By a	Date: 12/5/2022	Tune 2:00 PM	Received By:	Date 10/27	17/10/22	REPORT TRANSMITTAL DESIRED,
Relinquished By	Date:	Tune	Received By	Date	Time	HARDCOPY (extra cost)
telinquished By	Date:	Time:	Received By:	Date	Time	FOR LAB USE ONLY
		100		- Foreign	1.000	Temp of samplesC Attempt to Cool ?

Attached Sheet – 625



Benzo(a)anthracene

Benzo(b)fluranthene

Benzo(k)fluoranthene

Chrysene

Indeno(1,2,3-cd)pyrene

A	Anatek	Lahs,	Inc.
AND			

Sample Receipt and Preservation Form



Client Name: <u>Hall</u>							
TAT: Normal RUSH: da	ays						
Samples Received From: FedEx UI	PS US	SPS	Client Co	urier	Other:		
Custody Seal on Cooler/Box: Yes I	No	Cus	stody Seals Ir	ntact:	Yes No	N/A	
Number of Coolers/Boxes:	_	Тур	e of Ice: W	let Ice	(Ice Packs	Dry Ice	None
Packing Material: Bubble Wrap Bag	gs Fo	am/Pea	inuts Pap	er	None Other:		
Cooler Temp As Read (°C): 1-9	Cooler	Temp C	corrected (°C)):	Thermom	eter Used:	TR-5
	~				Co	omments:	
Samples Received Intact?	Yes	No	N/A				the state
Chain of Custody Present/Complete?	Yes	No	N/A				
Labels and Chains Agree?	Yes	No	N/A				
Samples Received Within Hold Time?	Yes	No	N/A				
Correct Containers Received?	(Yes)	No	N/A				
Anatek Bottles Used?	Yes	(No	Unknown				
Total Number of Sample Bottles Received	d:	2				annen service an annen an anne	
			- L		Initial nH:	nH F	aper ID.
Samples Properly Preserved?	Yes	No	N/A	<2	or	1 priv	aper ID.
If No, record preservation and	pH-after	details					
VOC Vials Free of Headspace (<6mm)?	Yes	No	NA		annihita sa		
VOC Trip Blanks Present?	Yes	No	(N/A)				

Record preservatives (and lot numbers, if known) for containers below: HCI - 1631 - g250mL

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

608/625 (see attached) - g2L Date/Time: 12/16/22 (311) Received/Inspected By: _______ Form F19.01 - Eff 1 Dec 2022 Page 1 of 1



Pace Analytical® ANALYTICAL REPORT December 08, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group: Samples Received:

L1564375 12/06/2022

Report To:

Description:

Project Number:

Andy Freeman 4901 Hawkins NE Albuquerque, NM 87109

Тс Ss Cn Sr ʹQc Gl AI Sc

Entire Report Reviewed By: John V Haulins

John Hawkins 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 www.pacenational.com

ACCOUNT: Hall Environmental Analysis Laboratory

SDG: L1564375

DATE/TIME: 12/08/22 12:32 PAGE: 1 of 9

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Qc: Quality Control Summary	6
Wet Chemistry by Method 3500Cr C-2011	6
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Sc: Sample Chain of Custody	9

¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

SAMPLE SUMMARY

2212171-001H NDC-20221203 L1564375-01 GW			Collected by	Collected date/time 12/03/22 20:13	Received date/12/06/22 09:00	ime
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 3500Cr C-2011	WG1970941	1	12/08/22 05:15	12/08/22 05:15	VSS	Mt. Juliet, TN

Ср

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.

John V Howkins

John Hawkins Project Manager



SDG: L1564375

SAMPLE RESULTS - 01

Wet Chemistry by Method 3500Cr C-2011

	Result	Qualifier	RDL	Dilution	Analysis	Batch)p
Analyte	mg/l		mg/l		date / time		2	_
Hexavalent Chromium	<mark>0.0531</mark>		0.000500	1	12/08/2022 05:15	WG1970941	T	Ċ

WG1970941

Wet Chemistry by Method 3500Cr C-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3869454-1 12/08/22 04:19				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Hexavalent Chromium	U		0.000150	0.000500

L1564480-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1564480-01 12/08/	OS) L1564480-01 12/08/22 05:23 • (DUP) R3869454-3 12/08/22 05:30						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	mg/l	mg/l		%		%	
Hexavalent Chromium	ND	ND	1	0.000		20	

Laboratory Control Sample (LCS)

(LCS) R3869454-2 12/08/22 04:29						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/l	mg/l	%	%		
Hexavalent Chromium	0.00200	0.00211	106	90.0-110		

L1564581-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1564581-01 12/08/22 06:19 • (MS) R3869454-4 12/08/22 06:29 • (MSD) R3869454-5 12/08/22 06:37												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Hexavalent Chromium	0.0500	ND	0.0496	0.0499	99.1	99.7	1	90.0-110			0.630	20

DATE/TIME: 12/08/22 12:32

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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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Τс

Ss

Cn

Sr

Qc

GI

AI

Sc

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

SDG: L1564375 Τс

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	CHAIN OF CUSTODY RECOR	$\mathbf{RD} \begin{bmatrix} \mathbf{PAGE:} & \mathbf{OF:} \\ 1 & 1 \end{bmatrix}$	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975
		HIZ	FAX: 505-345-4107 website: www.hallenvironmental.com

SUB CONTRATOR: Pa	ce TN COMPANY: P	ACE TN		PHONE:	PHONE: (800) 767-5859 FAX: (615) 758-585			
ADDRESS: 12	065 Lebanon Rd			ACCOUNT #:		EMAIL:		
CITY, STATE, ZIP: M	t. Juliet, TN 37122							
ITEM SAMPL	E CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL	L/S64375 COMMENTS	
1 2212171-00	01H NDC-20221203	120mL	Aqueous	12/3/2022 8:13:00 PM	1 HEXAVALENT CHRO	MIUM	-0	

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

7706 8121 2380 MSAZ 2.1 to=2.1

Please include the LAB ID ar	d the CLIENT S	AMPLE ID on	all final reports. Please e-mail result:	s to lab@halle	nvironmental.com.	Please return all coolers and blue ice. Thank you.			
elinquished By: ZL Date: 12/5/2022		22 Time: 1:16 PM Received By Att		Date: /22	Time 900	REPORT TRANSMITTAL DESIRED:			
elinquished By:	By: Date: Time: Received By:		Received By:	Date:	Tume:	FOR LAB USE ONLY			
linquished By:	Date:	Time:	Received By:	Date:	Time:	Temp of samples C Attempt to Cool ?			
TAT: S	andard	RUSH	Next BD 2nd BD	3rd Bl		rente or samples			
						Comments:			



Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

December 29, 2022

Andy Freeman Hall Environmental 4901 Hawkins NE Albuquerque, NM 87109

RE: Project: 2212171 Pace Project No.: 30543590

Dear Andy Freeman:

Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

ille -

Carla Cmar carla.cmar@pacelabs.com (724)850-5600 Project Manager

Enclosures

cc: Ms. Jackie Ball, Hall Environmental Michelle Garcia, Hall Environmental 1845-Hall Reporting





Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

CERTIFICATIONS

 Project:
 2212171

 Pace Project No.:
 30543590

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601 ANAB DOD-ELAP Rad Accreditation #: L2417 Alabama Certification #: 41590 Arizona Certification #: AZ0734 Arkansas Certification California Certification #: 04222CA Colorado Certification #: PA01547 Connecticut Certification #: PH-0694 **Delaware Certification** EPA Region 4 DW Rad Florida/TNI Certification #: E87683 Georgia Certification #: C040 Florida: Cert E871149 SEKS WET **Guam Certification** Hawaii Certification Idaho Certification **Illinois Certification** Indiana Certification Iowa Certification #: 391 Kansas/TNI Certification #: E-10358 Kentucky Certification #: KY90133 KY WW Permit #: KY0098221 KY WW Permit #: KY0000221 Louisiana DHH/TNI Certification #: LA180012 Louisiana DEQ/TNI Certification #: 4086 Maine Certification #: 2017020 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235 Montana Certification #: Cert0082 Nebraska Certification #: NE-OS-29-14 Nevada Certification #: PA014572018-1 New Hampshire/TNI Certification #: 297617 New Jersey/TNI Certification #: PA051 New Mexico Certification #: PA01457 New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Ohio EPA Rad Approval: #41249 Oregon/TNI Certification #: PA200002-010 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457 Rhode Island Certification #: 65-00282 South Dakota Certification Tennessee Certification #: 02867 Texas/TNI Certification #: T104704188-17-3 Utah/TNI Certification #: PA014572017-9 USDA Soil Permit #: P330-17-00091 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Virginia/VELAP Certification #: 460198 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin Approve List for Rad Wyoming Certification #: 8TMS-L



SAMPLE SUMMARY

30543590001	2212171-001G_NDC-20221203	Water	12/03/22 08:13	12/06/22 10:15	
Lab ID S	Sample ID	Matrix	Date Collected	Date Received	
Pace Project No.:	30543590				
Project:	2212171				



SAMPLE ANALYTE COUNT

 Project:
 2212171

 Pace Project No.:
 30543590

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30543590001	2212171-001G_NDC-20221203	EPA 900.0	SVM	1	PASI-PA
		EPA 900.0	LAL	1	PASI-PA
		ASTM D5174-97	PS1	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



PROJECT NARRATIVE

 Project:
 2212171

 Pace Project No.:
 30543590

Method:	EPA 900.0
Description:	900.0 Gross Alpha/Beta
Client:	Hall Environmental
Date:	December 29, 2022

General Information:

1 sample was analyzed for EPA 900.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:



PROJECT NARRATIVE

 Project:
 2212171

 Pace Project No.:
 30543590

Method:	EPA 900.0
Description:	Adjusted Gross Alpha
Client:	Hall Environmental
Date:	December 29, 2022

General Information:

1 sample was analyzed for EPA 900.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:



PROJECT NARRATIVE

 Project:
 2212171

 Pace Project No.:
 30543590

Method: ASTM D5174-97

Description:D517497 Total Uranium KPAClient:Hall EnvironmentalDate:December 29, 2022

General Information:

1 sample was analyzed for ASTM D5174-97 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2212171

Pace Project No.:	30543590
-------------------	----------

Sample: 2212171-001G_NDC- 20221203	Lab ID: 3054359	0001 Collected: 12/03/22 08:13	Received:	12/06/22 10:15	Matrix: Water	
PWS:	Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				_
Gross Alpha	EPA 900.0	-90.1 ± 49.7 (111) C:NA T:NA	pCi/L	12/27/22 18:59	12587-46-1	
	Pace Analytical Ser	vices - Greensburg				
Adjusted Gross Alpha	EPA 900.0	<mark>-90.1 ± 49.7</mark> (111) C:NA T:NA	pCi/L	12/29/22 23:13		
	Pace Analytical Ser	vices - Greensburg				
Total Uranium	ASTM D5174-97	1.00 ± 0.057 (32.3) C:NA T:NA	ug/L	12/15/22 14:16	7440-61-1	



QUALITY CONTROL - RADIOCHEMISTRY

Project:	2212171						
Pace Project No.:	30543590						
QC Batch:	552016		Analysis Method:	EPA 900.0			
QC Batch Method:	EPA 900.0		Analysis Description:	900.0 Gross Alp	oha/Beta		
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab Sar	mples: 30543590	001					
METHOD BLANK:	2681193		Matrix: Water				
Associated Lab Sar	mples: 30543590	001					
Parar	neter	Act ± L	nc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Gross Alpha		-0.288 ± 0.723 (2.18) C:NA T:NA	pCi/L	12/29/22 08:49		

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



QUALITY CONTROL - RADIOCHEMISTRY

Project:	2212171						
Pace Project No.:	30543590						
QC Batch:	553231		Analysis Method:	ASTM D5174-9	7		
QC Batch Method:	ASTM D5174-97		Analysis Description:	D5174.97 Total	Uranium KPA		
			Laboratory:	Pace Analytical	Services - Greensbur	g	
Associated Lab San	nples: 30543590	001					
METHOD BLANK:	2687509		Matrix: Water				
Associated Lab San	nples: 30543590	001					
Paran	neter	Act :	± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Total Uranium		0.067 ± 0.002	(0.323) C:NA T:NA	ug/L	12/15/22 12:54		

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



QUALIFIERS

Project: 2212171 Pace Project No.: 30543590

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.



CHAIN OF CUSTODY RECORD 1 OF: 1

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

SUB CC	NTRATOR: Pace-	Greensburg COMPANY:	Pace Analytical Se	rvices, In	C. PHONE:	(724) 850-5600	FAX:	(724) 850-5601
ADDRE	ss: 1638]	Roseytown Rd Ste 2,3,4			ACCOUNT #:		EMAIL:	
CITY, S	TATE, ZIP: Green	nsburg, PA 15601						
ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	NALYTICAL	COMMENTS
1	2212171-001G	NDC-20221203		Aqueous	12/3/2022 8:13:00 PM	2 Adjusted Gross Alpha		<u>60/</u>



SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@halienvironmental.com. Please return all coolers and blue ice. Thank you. Relinquished By: Date: Time: Received By: Date: Time: REPORT TRANSMITTAL DESIRED: Sac 12/5/2022 2:04 PM HARDCOPY (extra cost) 🔲 FAX 🗀 EMAIL ONLINE Relinquished By: Date: Received By: Time: Time: Date: FOR LAB USE ONLY 1356/22 Relinquished By: Date: Time: Wo Noth Time: 10:15 Receiv Temp of samples \mathbf{c} Attempt to Cool? Standard 🗸 TAT: RUSH Next BD 📋 2nd BD 📋 3rd BD 📋 Comments:

Page 12 of 14

Image: Product State Contender <td< th=""><th>R</th><th>DC#_Title: ENV-FRM-(Pittsburgh</th><th>GBUR</th><th>8-008</th><th>8 v02</th><th>2_Sampl</th><th>le Condi</th><th>ition U_l</th><th>pon Receipt-</th><th></th></td<>	R	DC#_Title: ENV-FRM-(Pittsburgh	GBUR	8-008	8 v02	2_Sampl	le Condi	ition U _l	pon Receipt-	
Client Name: H CI PH: CRC Due Date: 12/26/22 Client Name: H CI CLIENT: HALL ENVIRON Courier: ØFed Ex UPS II USPS II Client II commercial II Pace II Other Examined By P.S. Tracking Number: 5344 4102 3050 Labeled By P.S. Custody Seal on Cooler/Box Present: Type of Ice: Wes ENo Seals Intact: Yes ENo Cooler Temperature: Observed Temp *C Correction Factor: *C Final Temp: *C Contents: Yes No NA 10D22221 D.P.D. Residual Chlorine Lot # Chain of Custody Present 2	(-Pace	Effective Date: 10/03/202	2				WU#	<u>• 35</u>	194333	
Courier: $\[Description \] DPS \] Client \] Commercial \] Pace \] Other Tracking Number: \[Description \] S344 4102 8050 \] Examined By \[Description \] S344 4102 8050 \] Custody Seal on Cooler/Box Present: Type of Ice: Wet Blue (None) Term bould be above freeding by \[Description \] Sample Above freeding to 6C \] Examined By \[Description \] Sample Above freeding to 6C \] Final Temp:$	Client Name:	Hall					PM: CMC CLIENT	: HALL	Due Date: ENVIRON	12/28/22
Tracking Number: 5344 4102 \$2050 Examined By DS Custody Seal on Cooler/Box Present: Type of Ice: Wet Blue (None) Labeled By Samined By DS Cooler Temperature: Observed Temp C Correction Factor: -c Final Temp: -c C Comments: Yes No NA 1002222.1 D.P.D. Residual Chorine Lot # Chain of Custody Present 1. - - - - - Chain of Custody Filled Out: - 1. -	Courier: Ø Fed	Ex UPS USPS Client	Com	mercia	al 🗆 P	ace 🗌 Oth	1er			
Custody Seal on Cooler/Box Present: I Yes ENo Seals Intact: I Yes ENo Labeled By Temped By Cooler Temperature: Observed Temp Type of Ice: Wet Blue (None) Emped By Temped By Cooler Temperature: Observed Temp Correction Factor:	Tracking Numb	er: <u>6344 410</u>	2 7	305	0				Examined By_	<u>ps</u>
Thermometer Used: Type of Ice: Wet Blue (None) Temped By Cooler Temperature: Observed Temp C Correction Factor: C Final Temp: C Temp should be above freeing to 6-C PH paper Lot# I.D.P.D. Residual Chlorine Lot # I.D.P.D. Residual Chlorine Lot # Chain of Custody Present I I. I.D.P.D. Residual Chlorine Lot # I.D.P.D. Residual Chlorine Lot # Chain of Custody Pilled Out: I I.D.P.D. Residual Chlorine Lot # I.D.P.D. Residual Chlorine Lot # Chain of Custody Pilled Out: I I.D. I.D. I.D. Chain of Custody Pilled Out: I.D. I.D. I.D. I.D. Sampler Name & Signature on COC: I.D. I.D. I.D. I.D. Sample Labels match COC: I.D. I.D. I.D. I.D. Matrix: WUT I.D. I.D. I.D. I.D. Samples Arrived within Hold Time: I.D. I.D. I.D. I.D. I.D. Samples Arrived within Hold Time: I.D.	Custody Seal on	Cooler/Box Present: 🗌 Ye	es ANG	2	Seals	Intact:	🛛 Yes 🗂	No	Labeled By	ps
Cooler Temperature: Observed Temp Correction Factor:	Thermometer L	Jsed: Typ	e of Ic	e: W	/et Bl	lue None	>		Temped By	
Comments: Yes No NA D.P.D. Residual Chlorine Lot # Chain of Custody Present 1 1 1 1 -Were client corrections present on COC 2 2 1 1 -Were client corrections present on COC 4 3 1<	Cooler Tempera Temp should be abo	ature: Observed Temp ove freezing to 6°C		•C	Corre	ction Facto	or:	•C	Final Temp:	°C
Comments: Yes No NA IODECCA Chain of Custody Present		- ,			<u></u>	pH pape	r Lot#	D.P	.D. Residual Chl	orine Lot #
Chain of Custody Present 1. Chain of Custody Filled Out: 2. Were client corrections present on COC 3. Sampler Name & Signature on COC: 4. Sample Labels match COC: 4. -includes date/time/ID 5. Matrix: WT Samples Arrived within Hold Time: 6. Short Hold Time Requested: 8. Surficient Volume: 9. Correct Containers Used: 10. -reace containers Used: 11. -reace containers Used: 11. -reace containers Used: 11. Orthophosphate field filtered: 11. Organic Samples checked for dechlorination 14: Filtered volume received for disolved tests: 15: All containers meet method preservation: 16. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix Intillal when Preservation All containers meet method preservation 17. Trip Blank Present: 18. Trip Blank Present: 18. Trip Blank Present: 18. Trip Blank Present: 17. Trip Blank Custod	Comments:		Yes	No	NA	1002	221			
Chain of Custody Filled Out: -Were client corrections present on COC 2. Chain of Custody Relinquished 3. Sampler Name & Signature on COC: 4. Sample Labels match COC: -Includes date/time/ID Matrix: 5. -Includes date/time/ID Matrix: WT Samples Arrived within Hold Time: 6. Short Hold Time Analysis (<72hr remaining): 7. Rush Turn Around Time Requested: 8. Sufficient Volume: 9. Correct Containers Used: -Pace Containers Checked for dechlorination -Pace Containers Checked for dechlorination -Pace Containers checked for preservation: exceptions: VOA, coliform, TOC, 0&G, Phenolics, Radon, non-aqueous matrix All containers meet method preservation: requirements: 	Chain of Custod	y Present				1.				
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-Includes date/time/ID	Sample Labels n	natch COC:				5.				
Matrix: Unit Samples Arrived within Hold Time: 6. Short Hold Time Analysis (<72hr	-Includes da	a te/ time/ID								
Samples Arrived within Hold Time: - 6. Short Hold Time Analysis (<72hr	Matrix:		ω							
Short Hold Time Analysis (<72hr	Samples Arrived	l within Hold Time:	******			6.				
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Comments:	Rad Samples Scr	eened <0.5 mrem/hr.		-		Initial when	P5 1	Date:	122 · Survey	Meter 1563
	Comments:					completed_		1010		
	comments.									

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

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1	ace Analvtical	Þ

2212171

Client

Site

Pace Greensburg Lab -Sample Container Count

Profile Number

1845

Notes

Somela																													
Line Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	врас	BP3N	BP3S	BP3U	SeDO	GCUB	NG9H	VG9T	VG9U	VOAK	NGFU	NGKU	SPLC	
1	WT											7										-							
2																													
3																													
4																											64		
5																			L.)#	:3	05	4 E	55	<u>ju</u>				
6																			PM.	CMC			Due I)ate	: 12/	/28/2	2		
7															_				CLI	ENT :	HAL	LEN	VIRO	N					
8																													
9				3			-												-10199999		verse <u>starr</u>								
10																													
11																				-				-					
12																													

BP2S

BP2U

500mL plastic H2SO4

500mL plastic unpreserved

Container Codes

	Glas	SS	
GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unprserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosul
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCI
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	L amber glass HCI	WGFU	4oz wide jar unpreserved
AG1T	L amber glass Na Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved		

	P	las	stic /	/ Misc.							
CUB	1 Gallon Cubitainer		EZI	5g Encore							
2GN	1/2 Gallon Cubitainer		VOAK	Kit for Volatile Solid	·····						
P5T	120mL Coliform Na Thiosulfate		l	Wipe/Swab							
P1N	1L plastic HNO3		ZPLC	Ziploc Bag							
P1U	1L plastic unpreserved										
P3S	250mL plastic H2SO4		WT	Water							
P3N	250mL plastic HNO3		SL	Solid							
P3U	250mL plastic unpreserved		OL	Non-aqueous liquid							
P3C	250ml plastic NAOH		WP	Wipe							

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AMAFCA

Project:	Dry Sea	son 2023									
Sample ID:	MB-72027	SampT	уре: МЕ	BLK	Tes						
Client ID:	PBW	Batch	n ID: 720	027	F	RunNo: 9 :	3245				
Prep Date:	12/12/2022	Analysis D	ate: 12	2/13/2022	SeqNo: 3360583			Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium		ND	1.0								
Magnesium		ND	1.0								
Sample ID:	LCSLL-72027	SampT	ype: LC	SLL	Tes	stCode: El	PA Method	200.7: Metals			
Client ID:	BatchQC	Batch	n ID: 720	027	F	RunNo: 9 :	3245				
Prep Date:	12/12/2022	Analysis D	ate: 12	2/13/2022	:	SeqNo: 3	360584	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium		0.53	1.0	0.5000	0	105	50	150			J
Magnesium		0.53	1.0	0.5000	0	106	50	150			J
Sample ID:	LCS-72027	SampT	ype: LC	S	Tes	PA Method					
Client ID:	LCSW	Batch	n ID: 720	027	F	RunNo: 9 :	3245				
Prep Date:	12/12/2022	Analysis D	ate: 12	2/13/2022	:	SeqNo: 3	360585	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium		50	1.0	50.00	0	99.7	85	115			
Magnesium		51	1.0	50.00	0	102	85	115			

Qualifiers:

Client:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- RL Reporting Limit

Page 2 of 4

Р Sample pH Not In Range

Client:		AMAFCA											
Project:		Dry Season	n 2023										
Sample ID:	MB		Samp	Туре: МЕ	BLK	Tes	tCode: E	PA 200.8: D	Dissolved Meta	als			
Client ID:	PBW		Bato	h ID: A9	3091	F	RunNo: 9	3091					
Prep Date:			Analysis	Date: 12	2/7/2022	ę	SeqNo: 3	352964	Units: mg/L				
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Copper			ND	0.0010									
Sample ID:	D: LCSLL SampType: LCSLL					TestCode: EPA 200.8: Dissolved Metals							
Client ID:	BatchQ	IC .	Bato	ch ID: A9	3091	RunNo: 93091							
Prep Date:			Analysis	Date: 12	2/7/2022	ę	SeqNo: 3	352965	Units: mg/L				
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Copper			0.00089	0.0010	0.001000	0	89.5	50	150			J	
Sample ID:	LCS		Samp	Туре: LC	S	Tes	tCode: E	PA 200.8: D	Dissolved Meta	als			
Client ID:	LCSW		Bato	h ID: A9	3091	F	RunNo: 9	3091					
Prep Date:			Analysis	Date: 12	2/7/2022	ę	SeqNo: 3	352966	Units: mg/L				
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Copper			0.023	0.0010	0.02500	0	91.7	85	115				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	AN	MAFCA											
Project:	Dr	y Season 2023											
Sample ID:	nple ID: MB-71853 SampType: MBLK				TestCode: SM 9223B Fecal Indicator: E. coli MPN								
Client ID:	PBW Batch ID: 71853			RunNo: 93086									
Prep Date: 12/5/2022		Analysis	Analysis Date: 12/6/2022			SeqNo: 3	352628	Units: MPN	100mL				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
E. Coli		<1	1.000										

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environme TEL: 505-345-3 Website: www	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- v. hallenvironmental	atory 18 NE 7109 Sam 4107 Leom	Sample Log-In Check List								
Client Name: AMAFCA	Work Order Num	ber: 2212171		RcptNo: 1								
Received By: Juan Rojas Completed By: Sean Livingston Reviewed By: JN 12/5/22	12/5/2022 8:42:00 12/5/2022 11:13:42 0/3:20	ам 2 ам	Gliandag S-C	z ak								
<u>Chain of Custody</u> 1. Is Chain of Custody complete? 2. How was the sample delivered?		Yes ∕⊻ <u>Client</u>	No 🗌	Not Present								
Log In 3. Was an attempt made to cool the samples?	•	Yes 🗹	No 🗌									
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌									
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌									
6. Sufficient sample volume for indicated test(s	5)?	Yes 🗹	No 🗌									
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes ⊻	No 🗔	··· [7]								
o. was preservative added to bottles?		Yes 🗔	NO 🖳									
9. Received at least 1 vial with headspace <1/4	1" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹								
10. Were any sample containers received broke	en?	Yes		# of preserved bottles checked for pH:								
(Note discrepancies on chain of custody)		ies 🖭		(<2)or >1	2 unless noted)							
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	10							
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌 📗		100-07							
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No L_	Checked by: KIL	1 2.05.00							
Special Handling (if applicable)												
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🔽								
Person Notified:	Date:	[
By Whom:	Via:	eMail P	hone 📋 Fax	In Person								
Regarding:												
Client Instructions:				and a second								
16. Additional remarks:												
17. <u>Cooler Information</u> Cooler No Temp °C Condition S 1 5.7 Good	eal Intact Seal No	Seal Date	Signed By									

Chain-of-Custody Record				Turn-Around	Turn-Around Time:					н	ALL	E	NV	IR	20	NP	1EI	NT	AL	
Client:	A	MAF	<i>CA</i>	Project Name	□ Rush e:)	ANALYSIS LABORATORY													
Mailing	Address	260	n Prochast Due	Dry S	eason	23	4901 Hawkins NE - Albuguergue, NM 87109													
	ß	Lhinav	prane NM. 8710	Project #:			Tel. 505-345-3975 Fax 505-345-4107													
Phone #	#: <u>5</u>	05/2	18-2798				Analysis Request													
email or	r Fax#:	pch	avez @ amatca. brg	Project Mana	iger:		21)	Ô				SO4			ent)	1	T	0	20	
QA/QC F	Package:	épo	dilla l'amorea.or) p	Chave.	3	(80	W.	ы СВ СВ			04			/Abs		20	5-	36	5
V Stan	dard		Level 4 (Full Validation)	10	Comi A	21:110	AB's	R R	82 P	()		2, P			sent		N	ad .	AN C	4
	tation:		mpliance	Sampler: C	Fres		F.	1/0	\$/80	5		ĬŽ		(¥	Pre:		AR	VV.	E C	3 7
	(Type)	exce	Spread sheet	# of Coolers:	1		BE	(GR	cide	od 5	o i u	lő		i-V	Lu (E	ya	512	5 20
				Cooler Temp	O(including CF): 5	5.676.1=5.7 (°C)	Ξ	015D	esti	Meth	N N N	Ъ.	VOA	Sem	Solific	0	N.	¢	sh'	20
				Container	Preservative	HEAL No.	ЦX	H:80	81 P	8	RA ST	<u>і</u> п.	60 (20 (tal C		Å	rbs	5/6	PSO
Date	Time	Matrix	Sample Name	Type and #	Туре	2212171	BT	Ē	80 80			<u>5</u>	82	82	<u>۴</u>	3	a.	98	튁드	1
12/5/22	20:13		NOC-20221203			100										7	1:	力:	77	47
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Date:		Relinquis		Received by	Pan	12/07- 911			3.61	ncom	Um	TT	CTI	exa	VAL	end.	{		0	
Date:	Time:	Relinguis	hed by:	Received by/	Via:	Date Time	4		Se	mive	Tati	es	Be	nzb	la)	ant	nr	ace	re,	
Duto.		C		C			(Benzolo) Fluranthene, Benzo (K) Fluorenthene													
			Ibmitted to Hall Environmental may be s	ubcontracted to other	accredited laborato	ries. This serves as notice of th	his pos	sibility	Any s	ub-contr	acted d	ata will	be clea	arly not	tated o	on the a	analytic	al repo	<u>- en</u>	×
	ii necessai	y, oumpies st							_									-	-	~

- 10 C

Attached Sheet – 625

Benzo(a)anthracene

Benzo(b)fluranthene

Benzo(k)fluoranthene

Chrysene

Indeno(1,2,3-cd)pyrene
6.	Dill
Sampler <u>Squi</u>	Madilla
//	V

AMAFCA Dry Season 2023 Sampling Data Sheet

Site Identific	ation: ML-2 S	outh Divers	sion Channe	el			
ISCO Prograi	mming Dates	24 hour start:	: Tin	ne restricted star	t: Sh	ut off:	
Full Suite Sa	ample Date and	d Time:	12/4/27	Q OI	1:03		
Full Sample	e identification:	SDL-	- 202212	204	Ŭ		
E. coli (in h	olding time) Sa	mple Date and	Time:				
E. coli (in h	olding time) Sa	mple Identifica	ation:				
QC Samples	s: Duplicat	te/None	QC San	nple ID:			
QC Sample	Time:						
		1					
Full Suite C	ollection Point:	ISCO Samp	ler Gra	b Other:			
E. coli Colle	ction Point:	ISCO Samp	ler Gra	b Other:			
Full Suite Sa	ample Volume:	10 Lit.	Collectio	n Time Start:	0:44 End:	01:03	
E. coli Sam	ole Volume:		Collectio	n Time Start:	End:		
Field Parame	eters (measure	d every sampli	ng event)				
Date	Time	Temp (°C)	рН	Specific	Dissolved	Clarity,	
				Conductance (uS/cm)	Oxygen (mg/L)	Odor, Other	
			10	(po) c)			
12/5/22	10:55	8.8	8.02	120	8.86		
	Water +Cold	rhann			Odor		
		DIOUT					
Qualifying	Source:	Rats	Sta	tion Name/#:	Albugal	rane 5.5	S
Gauge Catc	h: 57	Obser	vation Date/T	ime:		0	
Qualifying	. 52		C+-	12/4/22 6	07:06		
Quantying	ource: (olo	RaHS)	JM-BR-36	o! Albugne	rane 3.45	SE
Gauge Catc	h: .54	Obser	vation Date/T	ime: 12/4/22 @	07:00	0	
Pump alarn	n alert date/tin	ne:		Sen	sor 1: 🛛 Sen	sor 2: 🛛	
Notes:	all suit	e sample	submit	ted with	E. coli	sample	
AGT 1	within	holding +	lime				
- 50 S		0					





Client:	hain A	of-Cu	Istody Record	Turn-Around	Time:					H			Eľ YS	V	IR L	AB		1E RA	NT	AL	Y
Mailing	Address	:21000	Prosped five	Project Name	Sersa	128		490	D1 H	awki	www ins N	v.hall NE -	lenvi Alb	ronn uque	nenta erque	al.co ə, NN	om VI 87	109			
Phone	<u>н</u> . С	HONGI AC- HI	PROMP AN ETIOT					Τe	el. 50)5-34	15-39	975 A	⊦ naly	ax i sis l	505- Reqi	345- uest	410				
email o QA/QC	r Fax#: Package: idard	Pport	Da (2 and fra. cra Da (2 and fra. cong □ Level 4 (Full Validation)	Project Mana	nger: (^) (`)	ave S	3's (8021)	RO / MRO)	PCB's		SMIS0.		, PO4, SO4			ent/Absent)	-	1668/1	14 112 1 (33)	Ka volent	
	itation: AC (Type)	□ Az Co □ Othe		Sampler: Z On Ice: # of Coolers:	Yes	⊡ No	-BE / TME	(GRO / DF	cides/8082	od 504.1)	310 or 827	etals	NO ₃ , NO ₂	0	i-VOA)	orm (Prese	1,	in total	4/11/2	a M M	
Date	Time	Matrix	Sample Name	Cooler Temp Container Type and #	O(including CF):	HEAL No.	BTEX / MI	TPH:8015D	8081 Pesti	EDB (Meth	PAHs by 8	RCRA 8 M	CI, F, Br,	8260 (VOA	8270 (Sem	Total Colifo	E. cu.	PLESI	Merar	ACTION	
	0) uS		SPI-20221204														X				
																					_
Date: 2 <u>/</u> 5/7 Date:	Time: 7 2:/0 Time:	Relinquis	hed by:	Received by:	l Via: ທິ∛ Via:	Date Time 17 S 32 12 10 Date Time	Rei	 mark	(S:			1			1	1	1				



December 21, 2022

Patrick Chavez

AMAFCA 2600 Prospect Ave NE Albuquerque, NM 87107 TEL: (505) 884-2215 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

12/4/2022 full suite sample from the South Diversion Channel. E. coli not within hold time.

RE: Dry Season 23

OrderNo.: 2212179

Dear Patrick Chavez:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/5/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Field Parameters South Diversion Channel -Temp = 8.8°C pH = 8.02 Conductivity (uS/cm=umho/cm) = 120 Dissolved Oxygen (mg/L) = 8.86

Analytical Report Lab Order 2212179

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/21/2022

CI IENT				Client	Sampl	o ID. CI	\mathbf{r}	001004	
	AWAFCA			Chem	Sampi	e ID: <mark>SL</mark>	JC-202	221204	
Project:	Dry Season 23			Colle	ection I	Date: 12	/4/202	2 1:03:00 AM	
Lab ID:	2212179-001	Matrix: AC	QUEOUS	Rec	eived I	Date: 12	/5/202	2 12:10:00 PM	
Analyses		Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
SM 9223E	B FECAL INDICATOR: E. C	OLI MPN						Analyst: SI	NS
E. Coli		1467	10.00	10.00	н	MPN/10	00 10	12/6/2022 4:26:00 P	M 71853

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

[%] Recovery outside of standard limits. If undiluted results may be estimated. S

Anatek Labs, Inc. 1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com 504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client:	Hall Environmental Analysis Lab	Work Order:	MCL0148
Address:	4901 Hawkins NE Suite D	Project:	2212179
	Albuquerque, NM 87109	Reported:	12/20/2022 13:03
Attn:	Andy Freeman		

Analytical Results Report

Sample Location: Lab/Sample Number: Date Received: Matrix:	2212179-001B (SDC- MCL0148-01 12/06/22 13:11 Water	-20221204) Collect Date: Collected By:	12/04/22 (01:03				
				201				0.110
Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Semivolatiles								
Aroclor 1016 (PCB-1016)	ND	ug/L	0.200	0.800	12/9/22 3:25	GPB	EPA 608.3	U
Aroclor 1221 (PCB-1221)	ND	ug/L	0.200	0.800	12/9/22 3:25	GPB	EPA 608.3	U
Aroclor 1232 (PCB-1232)	ND	ug/L	0.200	0.800	12/9/22 3:25	GPB	EPA 608.3	U
Aroclor 1242 (PCB-1242)	ND	ug/L	0.200	0.800	12/9/22 3:25	GPB	EPA 608.3	U
Aroclor 1248 (PCB-1248)	ND	ug/L	0.200	0.800	12/9/22 3:25	GPB	EPA 608.3	U
Aroclor 1254 (PCB-1254)	ND	ug/L	0.200	0.800	12/9/22 3:25	GPB	EPA 608.3	U
Aroclor 1260 (PCB-1260)	ND	ug/L	0.200	0.800	12/9/22 3:25	GPB	EPA 608.3	U
Surrogate: DCB			40-130	 9	12/9/22 3:47	GPB	EPA 608.3	

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				Analy	t ical Resu (Continue	lts Report				
Sample Loca Lab/Sample Date Receiv Matrix:	ation: Number: ed:	2212179-001C MCL0148-02 12/06/22 13:11 Water	(SDC-2022 Col Col	21204) lect Date: lected By:	12/04/22 (01:03				
Analyte			Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Mercury Mercury			0.0299	ug/L	0.00200	0.00500	12/8/22 14:58	BSM	EPA 1631 E	D1
Authoriz	ed Signatu	re,	Justir	Doty For To	bodd Taruscio	, Laboratory	Manager			
D1	Sample r	equired dilution d	ue to matri	x						
J	The repo	rted value is betw	een the lat	ooratory met	hod detectio	n limit and th	ne laboratory pract	ical quanti	itation limit.	
U PQL ND MDL Dry *	Compour Practical Not Dete Method I Sample r Not a sta	nd was analyzed Quantitation Lim cted Detection Limit esults reported o te-certified analy	for but not o it n a dry wei te	detected ght basis						
RPD %REC	Relative Percent I	Percent Differend Recovery	e							

Sample that was spiked or duplicated. Source

This report shall not be reproduced except in full, without the written approval of the laboratory The results reported related only to the samples indicated.

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Quality Control Data

Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCL0232 - Hg Trace										
Blank (BCL0232-BLK1)					Prepared &	Analyzed: 12	/8/2022			
Mercury	ND	U	0.000500	ug/L						
LCS (BCL0232-BS1)					Prepared &	Analyzed: 12	/8/2022			
Mercury	0.00474		0.000500	ug/L	0.00500		94.7	77-123		
Matrix Spike (BCL0232-MS1)		Source: MC	L0027-02		Prepared &	Analyzed: 12	/8/2022			
Mercury	0.00498		0.000500	ug/L	0.00500	0.000697	85.7	71-125		
Matrix Spike Dup (BCL0232-MSD1)		Source: MC	L0027-02		Prepared &	Analyzed: 12	/8/2022			
Mercury	0.00530		0.000500	ug/L	0.00500	0.000697	92.1	71-125	6.22	24

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCL0233 - Pesticides										
Blank (BCL0233-BLK1)				F	Prepared: 12/8/	2022 Analyze	d: 12/9/2022	1		
Arochlor 1016 (1)	ND	U	0.200	ug/L						
Arochlor 1221 (1)	ND	U	0.200	ug/L						
Arochlor 1232 (1)	ND	U	0.200	ug/L						
Arochlor 1242 (1)	ND	U	0.200	ug/L						
Arochlor 1248 (1)	ND	U	0.200	ug/L						
Arochlor 1254 (1)	ND	U	0.200	ug/L						
Arochlor 1260 (1)	ND	U	0.200	ug/L						
Surrogate: DCB			1.28	ug/L	1.25		103	40-130		

	HALL ENVIRON ANALYSIS LABORAT	CI MENTAL S TORY	HAIN OF CUS	TODY	RECORD PAG	E: OF: 1	Hall Environmental Analysis Laboratory MCL0148 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
SUB CC	ONTRATOR Anate	ek ID COMPANY:	Anatek Labs, Inc.		PHONE:	(208) 883-2839 FAX	(#99) 00
ADDRE	ISS 1282	Alturas Dr			ACCOUNT #:	EMAIL.	
CITY, S	TATE, ZIP: Mosco	ow, ID 83843		1			
ГТЕМ	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS ANALYTI	CAL COMMENTS
1	2212179-001B	SDC-20221204	1LAMGU	Aqueous	12/4/2022 1:03:00 AM	1 PCBs by 608	
2	2212179-001C	SDC-20221204	250ML	Aqueous	12/4/2022 1:03:00 AM	1 1631 Hg	

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By	Date: 12/5/2022	Time 1:24 PM	Received By	Date 122	Time.	REPORT TRANSMITTAL DESIRED.
Relinquished By	Date	Time:	Received By:	Date:	Time	HARDCOPY (extra cost)
Relinquished By	Date	Tune	Received By	Date:	Time	FOR LAB USE ONLY
TAT: Stan	iard V	RUSH	Next BD D 2nd BD D	3rd B		Temp of samples C Attempt to Cool ?
		near		514 (5	чц	Comments
				_		Page 4

Anatek Labs. Inc.	Sample	Recei	nt and Pres	onunti	on Form		ue. 12/20/22
	Jampi		pranu r les	or valu	ULL COM		
Client Name:							
TAT: Normal RUSH: da	ys						
Samples Received From: FedEx UF	s U	SPS	Client Co	ourier	Other:		-
Custody Seal on Cooler/Box: Yes N	No	Cus	tody Seals	Intact:	Yes N	o N/A	
Number of Coolers/Boxes:		Тур	e of Ice: \	Wet Ice	(Tce Pac	ks Dry Ic	e None
Packing Material: Bubble Wran Bar	E Eo		. 5				
	10 10	am/Pea	nuts (Pa	per	None Ot	her:	
Cooler Temp As Read (°C): 1.9	Cooler	Temp C	nuts (Pa)	per	None Ot	her:	1: IR-5
Cooler Temp As Read (°C): 1.9	Cooler	am/Pea Temp C	orrected (°C	per	None Ot	her: cometer Used Comments	1: <u>IR-5</u>
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact?	Cooler	Temp C No	nuts (Pa orrected (°C N/A	per):	None Ot	her:	1: <u>772-5</u>
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete?	Cooler Yes	am/Pea Temp C No No	nuts (Pa orrected (°C N/A N/A):	None Ot	her:	1: <u>I</u> R-5
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree?	Cooler Yes Yes	Temp C No No No	nuts (Pa orrected (°C N/A N/A N/A	per):	None Ot	her: cometer Used Comments	1: <u>IR-5</u>
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree? Samples Received Within Hold Time?	Cooler Yes Yes Yes	Temp C No No No No No	nuts (Pa orrected (°C N/A N/A N/A N/A	>):	None Ot	her: cometer Used Comments	1: <u>712-5</u>
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree? Samples Received Within Hold Time? Correct Containers Received?	Cooler Yes Yes Yes	Temp C No No No No No No	nuts (Pa orrected (°C N/A N/A N/A N/A N/A	>):	None Ot	her:	1: <u>I</u> R-5
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree? Samples Received Within Hold Time? Correct Containers Received? Anatek Bottles Used?	Cooler Yes Yes Yes Yes Yes	Temp C No No No No No No	nuts (Pa orrected (°C N/A N/A N/A N/A N/A Unknown	>):	None Ot	her:	1: <u>IV2-5</u>
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree? Samples Received Within Hold Time? Correct Containers Received? Anatek Bottles Used? Total Number of Sample Bottles Received	Cooler Yes Yes Yes Yes Yes	Temp C No No No No No No Z	nuts (Pa orrected (°C N/A N/A N/A N/A N/A Unknown		None Ot	her:	1: <u>IN-5</u>
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree? Samples Received Within Hold Time? Correct Containers Received? Anatek Bottles Used? Total Number of Sample Bottles Received	Cooler Yes Yes Yes Yes Yes	Temp C No No No No No No 2	nuts (Pa orrected (°C N/A N/A N/A N/A N/A Unknown		None Oti	her:	H Paper ID:
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree? Samples Received Within Hold Time? Correct Containers Received? Anatek Bottles Used? Total Number of Sample Bottles Received Samples Properly Preserved?	Cooler Yes Yes Yes Yes	Temp C No No No No No No No No	nuts (Pa orrected (°C N/A N/A N/A N/A Unknown	<pre>per >): </pre>	None Ot	her:	e: <u>TR-5</u>
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree? Samples Received Within Hold Time? Correct Containers Received? Anatek Bottles Used? Total Number of Sample Bottles Received Samples Properly Preserved? <i>If No, record preservation and</i>	Cooler Yes Yes Yes Yes Yes Yes Yes Yes	Temp C No No No No No No Z No details	nuts (Pa orrected (°C N/A N/A N/A N/A Unknown – N/A	per >):	None Ot	her:	bH Paper ID:
Cooler Temp As Read (°C): <u>1.9</u> Samples Received Intact? Chain of Custody Present/Complete? Labels and Chains Agree? Samples Received Within Hold Time? Correct Containers Received? Anatek Bottles Used? Total Number of Sample Bottles Received Samples Properly Preserved? <i>If No, record preservation and</i> VOC Vials Free of Headspace (<6mm)?	Cooler Yes Yes Yes Yes Yes Yes Yes Yes	Temp C No No No No No No Z No details No	nuts Pa orrected (°C N/A N/A N/A N/A Unknown N/A		None Ot	her:	bH Paper ID:

Record preservatives (and lot numbers, if known) for containers below: HCI - 1631 - g250mL

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

PCBS by 608-gIL Date/Time: 12/12/22 13:11 Received/Inspected By: TV Form F19.01 - Eff 1 Dec 2022 Page 1 of 1



Pace Analytical® ANALYTICAL REPORT December 08, 2022

Hall Environmental Analysis Laboratory

Sample Delivery Group:

Samples Received:

Project Number:

L1564374 12/06/2022

Description:

Report To:

Andy Freeman 4901 Hawkins NE Albuquerque, NM 87109

Тс Ss Cn Sr ʹQc Gl AI Sc

Entire Report Reviewed By: John V Haulins

John Hawkins 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 www.pacenational.com

ACCOUNT: Hall Environmental Analysis Laboratory

SDG: L1564374

DATE/TIME: 12/08/22 12:32 PAGE: 1 of 9

HALL ENVIRONMENTAL ANALYSIS LABORATORY	CHAIN OF CU	USTODY REC	CORD PAGE: 1	oF: 1	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975
				H125	FAX: 505-345-4107 Website: www.hallenvironmental.com
SUB CONTRATOR: Pace TN COMPAN	Y: PACE TN		PHONE: (800)) 767-5859 FAX:	(615) 758-5859
ADDRESS: 12065 Lebanon Rd			ACCOUNT #:	EMAIL:	
CITY, STATE, ZIP: Mt. Juliet, TN 37122					
ITEM SAMPLE CLIENT SAMPLE ID	ВОТТІ ТҮРЕ	E C MATRIX	OLLECTION DATE	ANALYTI	LISGY374 CAL COMMENTS
1 2212179-001D SDC-20221204	120mL	Aqueous 12/4/2	022 1:03:00 AM 1 HEXA	VALENT CHROMIUM	-0

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

7706 8121 2380 MSAZ 2.1 to=2.1

SPECIAL INSTRUCTIONS / COMMENTS:

Relinquished By:	Date: 12/5/2022	Time: 1:32 PM	Received By:	Date: 12/6/22	Time: 900	REPORT TRANSMITTAL DESIRED:
Relinquished By:	Date:	Time:	Received By:	Date;	Time:	HARDCOPY (extra cost) FAX EMAIL ONLI
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY Temp of samplesC Attempt to Cool?

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc	•

Client:	A	MAFCA									
Project:	Di	ry Season 23									
Sample ID:	MB-71853	Samp	Гуре: МЕ	BLK	Tes	tCode: SI	M 9223B Fe	ecal Indicator	: E. coli N	IPN	
Client ID:	PBW	Batc	h ID: 71	853	R	RunNo: 9	3086				
Prep Date:	12/5/2022	2 Analysis [Date: 12	2/6/2022	S	SeqNo: 3	352628	Units: MPN/	/100mL		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
E. Coli		<1	1.000								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 F Website: www.hall	nalysis Laboratory 4901 Hawkins NE werque, NM 87109 FAX: 505-345-4107 environmental.com	Sam	ple Log-In Ch	eck List
Client Name: AMAFCA	Work Order Number:	2212179		RcptNo: 1	
Received By: Joseph Alderette Completed By: Sean Livingston Reviewed By: JM12/J/22	12/5/2022 12:10:00 PM 12/5/2022 12:21:41 PM		j ^t SL.	zot	
<u>Chain of Custody</u>1. Is Chain of Custody complete?2. How was the sample delivered?		Yes ⊠ <u>Client</u>	No 🗌	Not Present	
Log In 3. Was an attempt made to cool the samples?	,	Yes 🔽	No 🗌	NA 🗌	
4. Were all samples received at a temperature o	f >0° C to 6.0°C	Yes 🔽	No 🗔	NA 🗌	
5. Sample(s) in proper container(s)?	`	Yes 🗹	No 🗌		
 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) property. 	nresenved?	res 🗹	No 🗌		
8. Was preservative added to bottles?	Y	res 🗌	No 🗹	NA 🗆	
9. Received at least 1 vial with headspace <1/4"10. Were any sample containers received broken	for AQ VOA? Y	∕es □ _{Yes} □	No □ No ☑	NA 🗹	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Y	res 🗹	No 🗆	for pH:	2 unless noted)
12. Are matrices correctly identified on Chain of C	ustody? Y	′es 🗹		Adjusted?	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Ŷ	es ♥ ∕es ♥		Checked by: KfC	12.05.22
Special Handling (if applicable)					
15. Was client notified of all discrepancies with th	is order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date: Via: []	eMail 🗌 Phone	e 🗌 Fax	In Person	
16. Additional remarks:					
17. <u>Cooler Information</u>					

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.8	Good				

С	hain	of-Cu	istody Record	Turn-Around	Time:						ы				VTI	20			NT	-	
Client:	A	MAF	CA	Standard	□ Rush						A			(SI	SI	A	30	RA	ATC	OR	Y
······				Project Name	Э:								helle	nuiro		tolo					
Mailing	Address	: Olant	Proceed Are	Dru	Sanco	2	2		400)1 ⊔ r	v	vww.	nalle		uera	nai.u	от M 87	7100			
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Phone #	#: <u> </u>	5-21	8-2790	Decised Marro										4				-	2	2	
email or	r Fax#:	penan	By a amotea.org	Project Mana	iger:	~		21)	RO	s		0		20		Sent		00	163	ale	
QA/QC I	Package:	epaol	la la amitea.og		P) (Naver		8)	Σ	Ш		<u>ايّ</u>		5		Abs		00	0	N	
D Stan	dard		Level 4 (Full Validation)		10 0			B's	8 S	2 P		202		- - -		ent		de	-M	ex.	
Accredi	tation:	🗆 Az Co	mpliance	Sampler: Z	sgui Pa	dilla		Σ	2	808	4.1)	8		2		Les		thou	N.C	Y	
	AC	□ Other		On Ice:	P Yes	□ No		Ш	S S	es/	20	٦ ا	2	ŝ	ĮÕ		-	10	1	Z	
PEDD	(Type)	exiel	spreadSheet	# of Coolers:	1		(***)	E E	0	licid	pod	331	Aeta	ž a		lon I	1	M	2	Z	
				Cooler Temp	(including CF): 5	1+6.1 = 5.8	(0)	2	015	est	Met	à	8	ਸ਼ੂ ਤੋ	Ser S	l 👸	Ce	5	C	N.C	
				Container	Preservative	HEAL	No.	Ш	H:8	2		위	Υ.	Ľ ģ			1.	2	S	10	
Date	Time	Matrix	Sample Name	Type and #	Туре	221217	9	BT	Ę	80		PA	202	ว์ จึ	82.8	Lo L	N	Q	N	5	
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Date:	Time:	Relinquish	I ned by:	Received by:	Via:	Date	Time	Rer	nark	s:	L							1	<u> </u>	l	
2 km	17:10	6	EX for	Je .	CDO	17.5.22	01:51														
Date:	Time	Relinquish	ned by:	Received by:	Via:	Date	Time	1													
		L																			

Sampler Isqui Pasilla

AMAFCA Dry Season 2023 Sampling Data Sheet

Site Identification: 8 – Hahn Arroyo

ISCO Programming Dates 24 hour start:

Full Suite Sample Date and Time:

Full Sample identification:

E. coli (in holding time) Sample Date and Time:

E. coli (in holding time) Sample Identification:

QC Samples: Duplicate/None

QC Sample Time:

Time restricted start:

Shut off:

1/17/23 @ 13:20 Hahn-20230117

QC Sample ID:

Other: **Full Suite Collection Point: ISCO Sampler** Grab Other: Grab E. coli Collection Point: **ISCO Sampler Collection Time Start:** End: Full Suite Sample Volume: End: 13:20 Collection Time Start: 13 / 20 E. coli Sample Volume: Lit. Field Parameters (measured every sampling event)

Date	Time	Temp (°C)	рН	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	Clarity, Odor, Other
1/17/23	13:30	8.9	8.94	88	8.72	

□ Turbid Water XColor date brown □Oil/Sheen □Foam □ Odor <u>none</u>

Qualifying Source:	Ratu Station Name/#: NM-BR-107 ! Sandia Heights 3.7W
Gauge Catch:	Observation Date/Time:
Qualifying Source:	Station Name/#: NM -BR-400: Albuquergue 8.7NL
Gauge Catch: ,25	Observation Date/Time: 1/18/13 @ 07:00
Pump alarm alert date/time	e: Sensor 1: 🗆 Sensor 2: 🗆

Notes:





Chain-of-Custody Record	Turn-Around	Time:					н	AL	LE	NV	IR	O	NM	EN	TA	L
Client: AMAGCA	Standard	□ Rush_		-			A	NA	LY	SIS	L	AB	OF	TAS	OR	Y
	Project Name	:					W	ww.	hallen	vironr	nent	al.co	m			
Mailing Address: A honor Versaed Ave	1 110	C D	127		490	1 Ha	awkin	ns NE	E - A	buqu	erqu	e, NM	M 871	09		
LITTLE MAN ALL STILL	Project #: 🤳				Те	l. 50	5-345	5-397	75	Fax	505-	345-	4107			-
Phone #: 505 218 2798	· · · · · ·								Ana	ysis	Req	uest				
email or Fax#: vclove? Poundles	Project Mana	ger:		<u> </u>	Ô				SO,			ent)				
QA/QC Package: padille P an ale a		A Chave	- ζ	(802	/ MF	CB's		INS	0			Abs				
Standard Level 4 (Full Validation)			Settle	В's	R S	2 P(70S		ì		ent				
Accreditation: Accreditation: Accompliance	Sampler: 2	ampler: 2560, foront c				808	1.1	r 82			F	res				
□ NELAC □ Other	On Ice:	n Ice: M Yes L No			L L L L L L L L L L L L L L L L L L L	des/	d 50	00	o lals	5	Š	E E	3			
EDD (Type) 2 x / eL Sprendsheet	# of Coolers.	(Including CE): 5	7 01 5 8 (°C)	MTE	5D((stici	etho	83.	Mei	(A)	emi-	olifor	2			
D. J. Time Matrix Sample Name	Container	Preservative	HEAL No.	BTEX /	TPH:801	8081 Pe	EDB (Me	PAHs by	RCRA 8	8260 (V	8270 (S	Total Co	N			
Date Time Mainx Sample Name	Type and n	Type											X			
1117 1 70 K TIOWA - 2002011													X			
171123 19 57 ALL NV(-206-5011)	-			-	-			-	-	-						
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			Date Time								-		1	_	_	
Date: Time: Relinquished by:	Received by:			R	mari	.5.										
Date: Time: Relinquished by:	Received by:	Via:	Date Time													

Sampler Esqui Padilla AMAFCA Dry Season 2023 Sampling Data Sheet

Site Identification: ML-1 North Diversion Channel

ISCO Programming Dates	24 hour start:
------------------------	----------------

Time restricted start:

Shut off:

Full Suite Sample Date and Time:

Full Sample identification:

E. coli (in holding time) Sample Date and Time:

E. coli (in holding time) Sample Identification:

Duplicate/None QC Samples:

QC Sample Time:

1/17/23 @ 14:55 NOC - 2022 0117 QC Sample ID:

Other: Grab Full Suite Collection Point: **ISCO Sampler ISCO Sampler** Other: E. coli Collection Point: Grab **Collection Time Start:** End: **Full Suite Sample Volume:** End: 14:55 Lit. **Collection Time Start:** E. coli Sample Volume: 14155 2 Field Parameters (measured every sampling event)

			(μS/cm)	(mg/L)	Odor, Other
1/17/23 15	10Z 8-6	2 8.68	r 124	8.77	

□ Turbid Water Color duk brown □Oil/Sheen □Foam □ Odor _

Qualifying Source:	Co Co fa Hs	Station	Name/#: NM-BR -しつ:S	andia Heights 3.7w
Gauge Catch:	.28 Obs	servation Date/Time:	1/15/23	0 07:00
Qualifying Source:	Co Co Rats	Station	Name/#: IM - BR -400 : H	Hbugneryne 8.7ME
Gauge Catch:	,25 Obs	servation Date/Time	1/18/23 @	62:00
Pump alarm alert o	late/time: 1/1/23	@ 14:56	Sensor 1: 📈	Sensor 2: 🗆
Notes:				





Client:	Chain-of-Custody Record			Turn-Around Time: - - Standard						H			EN	IV IS						L XY
		1 101111	<u>C</u> (1	Project Name):		www.hallenvironmental.com													
Mailing /	Address	: O lat	in the and A.D	The course 23				4901 Hawkins NE - Albuquerque, NM 87109												
10	libur	2000	MIN STIDII	Project #: J				Tel. 505-345-3975 Fax 505-345-4107												
Phone #	t. V	VEP ande	C 218 2798						Analysis Request											-
email or Fax#: ptope 2 P of the factor QA/QC Package: ptoptof 11 o Ø Standard D Level 4 (Full Validation)			Project Manager: DSCV2VC3 Sampler: SAL YOOTIS On Ice: MYes DNo				Ô					20			ent)					
							RO / MR	PCB's		'0SIMS		, PO4,			ent/Abse					
Accreditation: Az Compliance NELAC Other		Ö					3082	4.1)	827		ĝ			rese						
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E EDD	(Type)	2816	a spraud heed	# of Coolers:	Viaciudina CE)* 5	7-01-6. 8 (°C)	MTB	5D(0	sticic	sthoo	831	Met	ž	(A)	-ime	lifor	20			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / N	TPH:801	8081 Pe:	EDB (Me	PAHs by	RCRA 8	CI, F, Br	8260 (VC	8270 (S∈	Total Co	2			
1/17/22	12:70) Ad	Halen 20220117														X			
1/11:5	14 5	AG	NUC-20230117				1 -										X	_	-	
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Date:	Fime:	Relingúis	sned by:	Received by.	via.	Dale mile														



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 07, 2023

Patrick Chavez

AMAFCA 2600 Prospect Ave NE Albuquerque, NM 87107 TEL: (505) 884-2215 FAX 1/17/2023 samplse from the North Diversion Channel at Alameda and Main Hahn Arroyo for E. coli within hold time.

RE: Dry Season 23

OrderNo.: 2301620

Dear Patrick Chavez:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/17/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Field Parameters North Diversion Channel -Temp = 8.6°C pH = 8.68 Conductivity (uS/cm=umho/cm) = 124 Dissolved Oxygen (mg/L) = 8.77

Hahn -Temp = 8.9°C pH = 8.94 Conductivity (uS/cm=umho/cm) = 88 Dissolved Oxygen (mg/L) = 8.72

Analytical Report

Lab Order: 2301620

Hall Enviror	imental Analysis La	inc.	Date Reported: 2/7/2023								
CLIENT: Project:	AMAFCA Dry Season 23			Lab Order:	2301620						
Lab ID: Client Sample ID:	2301620-001 Hahn-20230117		Collection D Mat	ate: 1/17/2023 1:20 arix: AQUEOUS	0:00 PM						
Analyses		Result	RL Qual Unit	ts DF Date Anal	yzed Batch ID						
SM 9223B FECA	L INDICATOR: E. COLI MPI	N 10462	10.00 MPN	V/100 10 1/18/2023 !	Analyst: dms 5:22:00 PM 72672						
Lab ID:	2301620-002		Collection D	ate: 1/17/2023 2:5	5:00 PM						
Client Sample ID:	: NDC-20230117		Mat	rix: AQUEOUS							
Analyses		Result	RL Qual Unit	ts DF Date Anal	yzed Batch ID						
SM 9223B FECA	L INDICATOR: E. COLI MPI	N			Analyst: dms						
E. Coli		2987	10.00 MPN	v/100 10 1/18/2023 !	5:22:00 PM 72672						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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. . .

- -

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc	•

Client:	AM	AFCA											
Project:	Dry	Season 23											
Sample ID:	MB-72672	SampT	ype: MI	BLK	Tes	tCode: SI	M 9223B Fe	ecal Indicator	: E. coli N	IPN			
Client ID: PBW Batch ID: 72672				RunNo: 94045									
Prep Date:	1/17/2023	Analysis D	Date: 1/	18/2023	5	SeqNo: 3	395250	Units: MPN	/100mL				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
E. Coli		<1	1.000										

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu Albu TEL: 505-345-3975 Website: www.hau	Analysis Laboratory 4901 Hawkins NE querque, NM 87109 FAX: 505-345-4107 llenvironmental.com	Sam	iple Log-In C	heck List
Client Name: AMAFCA	Work Order Number:	2301620		RcptNo:	1
Received By: Kasandra Jimena Garcia Completed By: Sean Livingston Reviewed By: JA 417-12-3	1/17/2023 3:16:00 PM 1/17/2023 3:23:54 PM	,	HA S-Li	John	
<u>Chain of Custody</u>1. Is Chain of Custody complete?2. How was the sample delivered?		Yes ⊻ <u>Client</u>	No 🗌	Not Present	
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌		
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?7. Are samples (except VOA and ONG) properly	preserved?	Yes ☑ Yes ☑	No 🗌 No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
 9. Received at least 1 vial with headspace <1/4" f 10. Were any sample containers received broken? 	for AQ VOA?	Yes 🗌 Yes 🗍	No □ No ☑	NA 🗹	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:	×12 unless noted)
12. Are matrices correctly identified on Chain of Cu	ustody?	Yes 🗹		Adjusted?	
13. Is it clear what analyses were requested?14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹		Checked by:	<u> []4 1-17</u> -23
Special Handling (if applicable)				U	
15. Was client notified of all discrepancies with thi	s order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date: Via:]eMail 🗌 Phon	e 🗌 Fax	In Person	
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C Condition Sea 1 5.8 Good Not F	l Intact Seal No S Present Morty	eal Date Sig	ned By		

C	Chain-of-Custody Record		Turn-Around Time:																		
Client:	K	IMAF	EA	Standard	🗆 Rush					A		LL Al	YS	SIS	5 L	AE	111 30	R/		OR	Y
				Project Nam	е:		www.hallenvironmental.com														
Mailing	Address	: 200	D Proceed Arp	Project #: Project #:				4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107													
1	Albur		NIN 871211																		
Phone	#:	50	5-218.2798					Analysis Request													
email or Fax#: pchave 3 @ amafca.org QA/QC Package: epudilla @ amafca.org		Project Manager:				(ô					SO4		-	ent)							
) Chav	es	802	ž	E.		NS NS		04,		615	Abs(*			
<u>Å</u> Stan	dard		Level 4 (Full Validation)		<u> </u>)	m.	02	PO		0SI		ď,			nt//					
Accreditation: Az Compliance		Sampler: Esqui Padills				۵,	3082	Ē	827		202	"hinti		ese							
	AC	Other		On Ice: M Yes □ No				8	es/8	504	o.	S	3,		OA	(Pr	1				
JA~EDD	(Type)_ I	exce	<u>k</u> spreudsheet	# of Coolers:		Tolorty		9	icid	Por	310	leta	2	2	>-i∟	orm	1				
				Cooler Temp	(including CF): 🧐	1+0.1=5.0(0)	≥	015	est	Met	Å	8	Ъ.	0	Sen	Colif	U U				
				Container	Preservative	HEAL No.	μ)8:H	31 F	B	Hs	RA	шĨ	30 (02	al	1.1				
Date	Time	Matrix	Sample Name	Type and #	Туре	2301620	ШШ	Ę	80		PA	8	ວ໌	82(82	Ъ	Ž				25
1/17/23	13:20	AQ	Hahn-20230117		Station of	001											X				
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.