

From: [Eggleston, Marybeth](#)
To: [Jamie Belcourt \(adpce.ad\)](#); [Caipen, Beth](#)
Cc: [Foreman, Mitch](#); [Stacie Wassell \(adpce.ad\)](#); [David Ramsey \(adpce.ad\)](#); [Richard Healey \(adpce.ad\)](#); [Zachary Carroll \(adpce.ad\)](#); [Bryan Leamons \(adpce.ad\)](#)
Subject: RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626
Date: Friday, April 14, 2023 3:15:07 PM
Attachments: [image002.png](#)
[2021 Sampling Results.pdf](#)
[2022 Sampling Results.pdf](#)
[NOV 2021-2022.pdf](#)
[Corrected Maumelle 2021.pdf](#)

Ms. Belcourt,

We have not received a response from the contracted lab (ESC) verifying the 2021 second quarter Lead and Cadmium results for all for NLRW treatment plants.

I have attached the 2021 and 2022 sampling analytical data with chain of custodies for all NLRW treatment plants and Notices of Violation for all non-compliant SIUs for 2021 and 2022 you requested. I also attached a corrected Maumelle 2021 monitoring results report. We found a data entry mistake for the 2/2/2021 Antimony during our review.

Mitch Forman and I left you a voicemail this morning. We would like to talk to you regarding the Lead and Cadmium explanation and the MQLs. I will be out of the office next week, but Mitch Foreman will be available.

Thank you,

Marybeth Eggleston
Environmental Compliance & Safety Manager
North Little Rock Wastewater
7400 Baucum Pike
(PO Box 17898)
North Little Rock, AR 72117
501-945-7186



A Clean Water Agency

From: Jamie Belcourt (adpce.ad) <jamie.belcourt@adeq.state.ar.us>
Sent: Thursday, April 13, 2023 3:27 PM
To: Caipen, Beth <BCaipen@nlrwu.com>
Cc: Foreman, Mitch <MForeman@nlrwu.com>; Eggleston, Marybeth <MEggleston@nlrwu.com>; Stacie Wassell (adpce.ad) <Stacie.Wassell@adeq.state.ar.us>; David Ramsey (adpce.ad) <David.E.Ramsey@adeq.state.ar.us>; Richard Healey (adpce.ad) <Richard.Healey@adeq.state.ar.us>; Zachary Carroll (adpce.ad) <Zachary.Carroll@adeq.state.ar.us>; Bryan Leamons (adpce.ad) <Bryan.Leamons@adeq.state.ar.us>
Subject: RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Ms. Caipen,

Do you have an update from your lab?

Thank you,

Jamie Belcourt | State Pretreatment Coordinator
Division of Environmental Quality | Office of Water Quality
Policy and Administration

5301 Northshore Drive | North Little Rock, AR 72118

t: 501.682.0858 | c: 501.287.8714 | e: jamie.belcourt@adeq.state.ar.us



ARKANSAS
ENERGY & ENVIRONMENT

From: Caipen, Beth [<mailto:BCaipen@nlrwu.com>]

Sent: Friday, April 7, 2023 8:58 AM

To: Jamie Belcourt (adpce.ad)

Cc: Foreman, Mitch; Eggleston, Marybeth; Stacie Wassell (adpce.ad); David Ramsey (adpce.ad); Richard Healey (adpce.ad); Zachary Carroll (adpce.ad); Bryan Leamons (adpce.ad)

Subject: RE: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Jamie

We have contacted the lab (ESC) to verify the results for the lead and cadmium on 2/2/2021. Hopefully, they will get back with us in regard to our request. As soon as we hear from them, we will send you all the information you asked for. Thank you for your patience.

Beth

Beth Caipen
Pretreatment Clerk
North Little Rock Wastewater
7400 Baucum Pike
(PO Box 17898)
North Little Rock, AR 72117
501-945-7186



A Clean Water Agency

From: Jamie Belcourt (adpce.ad) <jamie.belcourt@adeq.state.ar.us>
Sent: Monday, April 3, 2023 9:18 AM
To: Caipen, Beth <BCaipen@nlrwu.com>
Cc: Foreman, Mitch <MForeman@nlrwu.com>; Eggleston, Marybeth <MEggleston@nlrwu.com>; Stacie Wassell (adpce.ad) <Stacie.Wassell@adeq.state.ar.us>; David Ramsey (adpce.ad) <David.E.Ramsey@adeq.state.ar.us>; Richard Healey (adpce.ad) <Richard.Healey@adeq.state.ar.us>; Zachary Carroll (adpce.ad) <Zachary.Carroll@adeq.state.ar.us>; Bryan Leamons (adpce.ad) <Bryan.Leamons@adeq.state.ar.us>
Subject: NLR Wastewater Utilities - 2021/2022 Pretreatment Program Annual Reports - NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626

Hello,

North Little Rock Wastewater Utilities' (NLRWU) January 1, 2022 – December 31, 2022 Pretreatment Program Annual Report (NPDES Permits AR0020303, AR0020320, AR0038288 & AR0033626) was received and reviewed. In addition, the Pretreatment Program Annual Report for the January 1, 2021 - December 31, 2021 reporting year was reviewed.

Please provide Notices of Violation for all noncompliant SIUs for the 2021 and 2022 reporting years, an explanation for >1,000 µg/l Lead and Cadmium results at several of NLRWU plants on February 2, 2021, and meeting the required MQLs in the effluent samples at all plants.

Further, please submit for review the complete influent and effluent sampling analytical data, along with chain of custody, for the samples taken on the dates below at all treatment plants.

- February 2, 2021
- May 5, 2021
- August 10, 2021
- October 27, 2021
- January 5, 2022
- May 10, 2022
- August 16, 2022
- October 26, 2022

Thank you,

Jamie Belcourt | State Pretreatment Coordinator
**Division of Environmental Quality | Office of Water Quality
Policy and Administration**
5301 Northshore Drive | North Little Rock, AR 72118
t: 501.682.0858 | c: 501.287.8714 | e: jamie.belcourt@adeq.state.ar.us



ARKANSAS
ENERGY & ENVIRONMENT

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2102010046
 Customer Name : NORTH LITTLE ROCK-FAULKNER INF
 Customer/Permit No. : 2456 / AR00020303
 Report Date : 02/19/21

Composite Date: 02/01/21 -02/02/21
 Sample Time : 0800-0800/0800(02/02
 Sample Type : COMP/GRAB WWATER
 Sample From : FLI-WTR-MCR-Q1-21

Collected By: JASON BARRETT
 Delivery By : WGW
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis		Parameter	Result	Notes	Quantity	Method	Quality Assurance	
Date	Time By						% RPD	% Recovery
02/10	1308 KNM	Beryllium	< 0.0040 mg/L			EPA 200.8	2.29	112.3 *
02/10	0350 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 1999 4500-CN E	2.99	106.7 *
02/11	0330 NTR	Phenolics	0.09 mg/L			EPA 420.1	3.39	94.8 *
02/10	1308 KNM	Chromium	< 0.0060 mg/L			EPA 200.8	1.55	111.2 *
02/08	1128 KNM	Nickel	< 0.0064 mg/L			EPA 200.8	0.95	111.1 *
02/10	1308 KNM	Copper	0.0174 mg/L			EPA 200.8	0.97	108.3 *
02/10	1308 KNM	Zinc	0.1134 mg/L			EPA 200.8	9.49	112.6 *
02/10	1308 KNM	Arsenic	< 0.0070 mg/L			EPA 200.8	3.60	103.8 *
02/10	1308 KNM	Selenium	0.0163 mg/L			EPA 200.8	10.37	101.9 *
02/10	1308 KNM	Molybdenum	0.0248 mg/L			EPA 200.8	0.63	114.2 *
02/10	1308 KNM	Silver	0.0063 mg/L			EPA 200.8	6.51	83.9 *
02/10	1308 KNM	Cadmium	< 0.0064 mg/L			EPA 200.8	4.00	109.1 *
02/13	1206 KNM	Mercury	< 0.0010 mg/L			EPA 245.1	5.69	86.4 *
02/10	1308 KNM	Antimony	0.0105 mg/L			EPA 200.8	0.14	97.0 *
02/10	1308 KNM	Thallium	< 0.0040 mg/L			EPA 200.8	1.35	91.9 *
02/08	1128 KNM	Lead	1.0436 mg/L			EPA 200.8	0.01	96.9 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature *Justin Dull*
 Environmental Services Co., Inc.

ML

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 website: www.esclabs.com

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/Faulkner Lake Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2456 Influent Quarterly				Permit/Project #: <u>210229</u> Purchase Order #: <u>210229</u> Work Order # Sampler Name(s): <u>Jason Barnett</u> and Signature(s): <u>Jason Barnett</u>				Metals (See Comments) Phenols (24) Cyanide (9)			
Sample Identification				Sample Collection				Sample Containers			
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	Type	Volume	Preservative	#
FLI-WTR-MCL-Q1-21	2102010046	2/2/21	0800	Grab	Wwater	8 oz	NaOH+Asc Acid	Plastic	8 oz	NaOH+Asc Acid	1
FLI-WTR-MCL-Q1-21		2/2/21	0800	Grab	Wwater	1 Liter	CuSO4+H2SO4	Glass	1 Liter	CuSO4+H2SO4	1
FLI-WTR-MCL-Q1-21		2/2/21	0800	Composite	Wwater	8 oz	HNO3	Plastic	8 oz	HNO3	1
Relinquished By: (Signature and Printed Name) <u>Jason Barnett</u> Date: <u>2/2/21</u> Time: <u>1400</u> Received By: (Signature and Printed Name) <u>William Williams</u> Date: <u>2/2/21</u> Time: <u>1400</u> Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/> Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/> Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Result: <u>10000</u> Units: <u>10000</u>											
Relinquished By: (Signature and Printed Name) <u>William Williams</u> Date: <u>2/2/21</u> Time: <u>1020</u> Received By: (Signature and Printed Name) <u>Emily</u> Date: <u>2/2/21</u> Time: <u>1020</u> Flow Data: Field Test: <u>10000</u> Analyst: <u>10000</u> Analyst: <u>10000</u> Time: <u>10000</u> Reading: <u>10000</u> Units: <u>10000</u> Chlorinated? Y N Fecal Start:											
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), 11(51.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD Cool all samples to 26 degrees C with ice.											

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2102010044
 Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No.: 2455 / AR00020303
 Report Date: 03/08/21
 Composite Date: 02/01/21 -02/02/21
 Sample Time: 0735-0735/0735(02/02
 Sample Type: COMP/GRAB WWATER
 Sample From: FLE-WTR-MCR Q1-21
 Collected By: JASON BARRETT
 Delivery By: WGW
 Work Order:
 Purchase Order:

Laboratory Analysis

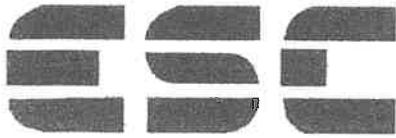
Analysis		Notes		Quantity		Method		Quality Assurance	
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery	
02/10	1303 KNM	Beryllium	< 3.6960 ug/L			EPA 200.8	2.29	112.3	*
02/10	0350 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 1999 4500-CN E	2.99	106.7	*
02/16	1303 AZ	Mercury, Low level	1.610 ng/L			EPA 1631E	1.48	93.0	*
03/02	1015 AKA	Total Kjeldahl Nitrogen	10.3 mg/L			02/2014 HACH 10242	1.70	108.0	
02/11	0330 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	10.53	91.0	
02/10	1303 KNM	Chromium	< 5.97 ug/L			EPA 200.8	1.55	111.2	*
02/08	1030 KNM	Phosphorus, Total (as P)	1.910 mg/L			HACH 10209	1.93	102.0	*
02/05	1551 KNM	Solids, Total Dissolved	208.0 mg/L			SM1997 2540 C	7.07	N/A	*
02/08	1122 KNM	Nickel	< 6.37 ug/L			EPA 200.8	0.95	111.1	*
02/10	1303 KNM	Copper	< 6.96 ug/L			EPA 200.8	0.97	108.3	*
02/10	1303 KNM	Zinc	38.65 ug/L			EPA 200.8	9.49	112.6	*
02/10	1303 KNM	Arsenic	< 7.03 ug/L			EPA 200.8	3.60	103.8	*
02/10	1303 KNM	Selenium	16.40 ug/L			EPA 200.8	10.37	101.9	*
02/10	1303 KNM	Molybdenum	19.95 ug/L			EPA 200.8	0.63	114.2	*
02/10	1303 KNM	Silver	6.2 ug/L			EPA 200.8	6.45	83.9	*
02/08	1122 KNM	Cadmium	1312.8100 ug/L			EPA 200.8	0.08	94.1	*
02/10	1303 KNM	Antimony	9.85 ug/L			EPA 200.8	0.14	97.0	*
02/10	1303 KNM	Thallium	< 4.000 ug/L			EPA 200.8	1.07	91.9	*
02/08	1122 KNM	Lead	1043.7400 ug/L			EPA 200.8	0.01	96.9	*
02/09	0920 KNM	Nitrate + Nitrite	4.87 mg/L			HACH 10206	8.16	100.0	*

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
 Environmental Services Co., Inc.

Handwritten initials



Environmental Services Company, Inc.

Corporate Office

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501-221-1341 (f)

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575-887-7-ESC (372)
Springdale, Arkansas
479-750-1170
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LABORATORY REPORT

Client:	North Little Rock WWU/Faulkner Lake	Sample Date:	02/02/21
Control Number:	2102010044/2102020156	Receipt Date:	02/02/21
Sample Type:	Grab - W. Water	Report Date:	03/01/21
Sample Identification	FLE-WTR-MCR-Q1-21		

CHLORINATED PESTICIDES (µg/L or ppb)

Analyte	Result	Detection Limit
Chlorpyrifos	ND	0.04

QUALITY ASSURANCE DATA

Method:	EPA 8081A	
<u>System Monitoring Compounds</u>	<u>% Recovery</u>	<u>% Recovery Limits</u>
2,4,5,6-Tetrachloro-m-xylene	104%	35-138
Decachlorobiphenyl	75.0%	43-128

Analysis Date:	2/17/2021
Analysis Time:	21:43
Analyst:	TWM

Laboratory control samples were monitored for all analytes of interest.

Digitally signed by Tyler Meek
 DN: cn=Tyler Meek, o=Environmental Services
 Company, ou, email=tylerm@esclabs.com, c=US
 Date: 2021.03.01 13:00:09 -06'00'

Data Release authorized by:

Tyler W. Meek - Lab Manager

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2102010045
 Customer Name : NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No. : 2455 / AR00020303
 Report Date : 02/19/21

Sample Date : 02/02/21
 Sample Time : 0735
 Sample Type : GRAB WWATER
 Sample From : EQUIPMENT BLANK

Collected By: JASON BARRETT
 Delivery By : WGW
 Work Order :
 Purchase Order :

Laboratory Analysis			
Analysis Date	Time	By	Method
02/16	1317	AZ	EPA 1631E
Parameter		Result	Quantity
Mercury, low level		0.430 ng/L	
Notes			
Quality Assurance			
Precision		% RPD	Accuracy
		1.48	% Recovery
			93.0 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature: *Kristen Muller*
 Environmental Services Co., Inc.

PNV

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 Little Rock, AR 72211 Little Rock, AR 72215
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 Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information			Project Information			Requested Parameters					
Client: North Little Rock WWU/Faulkner Lake			Permit/Project #: 210229			Chlorophylls (99.PC) 1st quarter only					
Address: P.O. Box 17898			Purchase Order #: 210229			Metals (See Comments)					
Phone: North Little Rock, AR 72117			Work Order #			Phenols (24.2)					
Fax: 501-945-7186			Sampler Name(s): Jason Barnett			Cyanide (9)					
Contact: Ms. Marybeth Eggleston			and Signature(s): <i>Jason Barnett</i>			TKN (16.C), NO2+NO3(91), Total P(25)					
ESC Client Number: 2455 Effluent Quarterly-1st						TDS (27)					
Sample Identification			Sample Collection			Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#		
FLE-WTR-MGR-Q1-21	2102010044	2/2/21	0735	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1		
FLE-WTR-MGR-Q1-21		2/2/21	0735	Grab	Wwater	Glass	1 Liter	H2SO4+H2SO4	1		
FLE-WTR-MGR-Q1-21	2-1-21	2/2/21	0735	Composite	Wwater	Plastic	8 oz	HNO3	1		
FLE-WTR-MGR-Q1-21		2/2/21	0735	Grab	Wwater	Amb GI	1 Liter	None	1		
FLE-WTR-MGR-Q1-21		2/2/21	0735	Grab	Wwater	Plastic	8 oz	None	1		
FLE-WTR-MGR-Q1-21		2/2/21	0735	Grab	Wwater	Plastic	8 oz	H2SO4	1		
FLE-WTR-MGR-Q1-21	2-1-21	2/2/21	0735	Composite	Wwater	Amb GI	250ml	HCl	1		
Equipment Blank	2102010045	2/2/21	0735	Grab	Wwater	Amb GI	250ml	HCl	1		
Relinquished By: <i>Jason Barnett</i>			Received By: <i>William Wilkely</i>			Date: 2/2/21			Time: 1400		
Relinquished By: <i>Jason Barnett</i>			Received By: <i>William Wilkely</i>			Date: 2/2/21			Time: 1020		
Relinquished By: <i>William Wilkely</i>			Received By: <i>William Wilkely</i>			Date: 2/2/21			Time: 1020		
Cool all samples to ≤ 5 degrees C with ice.			Flow Data			Field Test			Result		
Comments:			Analyst: <i>William Wilkely</i>			Time			Result		
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)			Time			Reading:			Units		
Tl(81.PS), Pb(82.PS)			Time			Units:			Chlorinated? Y N		
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD			Time			Fecal Start:			This Document is Page 1 of 1		

ES

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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010062
 Customer Name : NORTH LITTLE ROCK-FAULKNER INF
 Customer/Permit No. : 2456 / AR00020303
 Report Date : 05/20/21
 Composite Date: 05/04/21 -05/05/21
 Sample Time : 0735-0735/0735
 Sample Type : COMP/GRAB WWATER
 Sample From : FLI-WTR-MCR-Q2-21
 Collected By: JASON BARRETT
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/10	1907 KNM	Beryllium	< 0.0500 mg/L			EPA 200.8	3.20	111.4 *
05/13	0400 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.29	100.1 *
05/13	0550 NTR	Phenolics	0.13 mg/L			EPA 420.1	3.39	89.9 *
05/10	1907 KNM	Chromium	< 0.0200 mg/L			EPA 200.8	2.79	112.1 *
05/10	1907 KNM	Nickel	< 0.0200 mg/L			EPA 200.8	1.01	110.4 *
05/10	1907 KNM	Copper	< 0.0200 mg/L			EPA 200.8	2.17	110.0 *
05/10	1907 KNM	Zinc	0.1058 mg/L			EPA 200.8	6.57	103.6 *
05/10	1907 KNM	Arsenic	< 0.0100 mg/L			EPA 200.8	0.56	97.9 *
05/10	1907 KNM	Selenium	< 0.0150 mg/L			EPA 200.8	0.73	98.2 *
05/10	1907 KNM	Molybdenum	< 0.0500 mg/L			EPA 200.8	3.05	117.8 *
05/10	1907 KNM	Silver	< 0.1200 mg/L			EPA 200.8	1.82	99.3 *
05/10	1907 KNM	Cadmium	< 0.0200 mg/L			EPA 200.8	0.84	107.3 *
05/20	1154 AA	Mercury	< 0.0002 mg/L			EPA 245.1	2.49	96.9 *
05/10	1907 KNM	Antimony	< 0.0100 mg/L			EPA 200.8	1.73	96.1 *
05/10	1907 KNM	Thallium	< 0.0500 mg/L			EPA 200.8	2.04	95.4 *
05/10	1907 KNM	Lead	< 0.0100 mg/L			EPA 200.8	2.90	95.2 *

* QA data shown is from a different sample or standard on the same date.

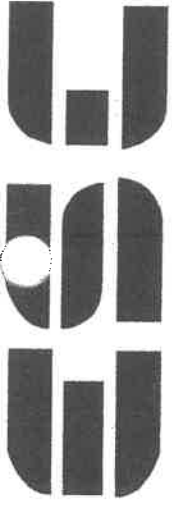
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature Jason Barrett
 Environmental Services Co., Inc.

Handwritten mark

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 website: www.esclabs.com

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC



CHAIN OF CUSTODY

Client Information			Project Information			Requested Parameters						
Client:	North Little Rock WWU/Faulkner Lake		Permit/Project #:	210807								
Address:	P.O. Box 17898		Purchase Order #:									
Phone:	North Little Rock, AR 72117		Work Order #									
Fax:	501-945-7186		Sampler Name(s):	Jason Barnett								
Contact:	501-945-2367		and Signature(s):	Bryan Croft								
ESC Client Number:	2456 Influent Quarterly			Bryan Croft								
Sample Identification			Sample Collection			Sample Containers						
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (g)	Phenols (24)	Metals (See Comments)
FLI-WTR-MCR-Q2-21	110690	5-5-21	0735	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X		
FLI-WTR-MCR-Q2-21	1	5-5-21	0735	Grab	Wwater	Glass	1 Liter	H2SO4+H2SO4	1		X	
FLI-WTR-MCR-Q2-21	1	5-5-21	0735	Composite	Wwater	Plastic	8 oz	HNO3	1			X
Received By: (Signature and Printed Name) <i>Jason Barnett</i> Date: 5-5-21 Time: 0735 Received By: (Signature and Printed Name) <i>Jason Barnett</i> Date: 5-5-21 Time: 0735 Received By: (Signature and Printed Name) <i>Jason Barnett</i> Date: 5-5-21 Time: 0735 Comments: Cool all samples to ≤ 6 degrees C with ice.												
Requested By: (Signature and Printed Name)			Date	Time	Received by Lab By: (Signature and Printed Name)		Date	Time	Custody Seals:			
<i>Jason Barnett</i>			5-5-21	0735	<i>Jason Barnett</i>		5-5-21	1400	Used?	Intact?		
Requested By: (Signature and Printed Name)			Date	Time	Received by Lab By: (Signature and Printed Name)		Date	Time	Regular	Special		
<i>Jason Barnett</i>			5-5-21	1616	<i>Jason Barnett</i>		5-5-21	1616	Were samples properly preserved:	Result	Units	
Comments:			Flow Data		Field Test		Analyst		Result	Result	Units	
Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW)			Analyst:		Reading:		Units:					
Ti(81.HW), Pb(82.HW), Hg(50.T5)			Chlorinated? Y N		Fecal Start:							
Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD												

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Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
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 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010060
 Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No.: 2455 / AR00020303
 Report Date: 05/27/21
 Composite Date: 05/04/21 -05/05/21
 Sample Time: 0720-0720/0720
 Sample Type: COMP/GRAB WWATER
 Sample From: FLE-WTR-MCR-Q2-21
 Collected By: JASON BARRETT
 Delivery By: JGK
 Work Order:
 Purchase Order:

Laboratory Analysis				Quality Assurance					
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/10	1850	KNM	Beryllium	< 50.00 ug/L			EPA 200.8	3.20	111.4
05/13	0400	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.29	100.1 *
05/25	0953	TA	Mercury, low level	1.250 ng/L			EPA 1631E	0.00	100.0
05/13	0550	NTR	Phenolics, Low Range	0.005 mg/L			EPA 420.1	0.00	100.0
05/10	1850	KNM	Chromium	< 20.00 ug/L			EPA 200.8	2.79	112.1
05/10	1850	KNM	Nickel	< 20.00 ug/L			EPA 200.8	1.01	110.4
05/10	1850	KNM	Copper	< 20.00 ug/L			EPA 200.8	2.17	110.0
05/10	1850	KNM	Zinc	< 50.00 ug/L			EPA 200.8	6.57	103.6
05/10	1850	KNM	Arsenic	< 10.00 ug/L			EPA 200.8	0.56	97.9
05/10	1850	KNM	Selenium	< 15.00 ug/L			EPA 200.8	0.73	98.2
05/10	1850	KNM	Molybdenum	< 50.00 ug/L			EPA 200.8	3.05	91.1
05/10	1850	KNM	Silver	< 120.0 ug/L			EPA 200.8	1.80	99.3
05/10	1850	KNM	Cadmium	< 20.00 ug/L			EPA 200.8	0.84	107.3
05/10	1850	KNM	Antimony	< 10.00 ug/L			EPA 200.8	1.73	96.1
05/10	1850	KNM	Thallium	< 50.000 ug/L			EPA 200.8	2.04	95.4
05/10	1850	KNM	Lead	< 10.00 ug/L			EPA 200.8	2.90	95.2
05/18	1531	EJD	Nitrate + Nitrite	8.66 mg/L			HACH 10206	0.12	102.0

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature *Jason Barrett*
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Control Number: 2105010061
Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
Customer/Permit No.: 2455 / AR00020303
Report Date: 05/27/21
Sample Date: 05/05/21
Sample Time: 0720
Sample Type: GRAB WATER
Sample From: EQUIPMENT BLANK
Collected By: JASON BARRETT
Delivery By: JGK
Work Order:
Purchase Order:

<u>Laboratory Analysis</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	
05/25	0958	TA	
	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>
	Mercury, low level	< 0.300 ng/L	
		<u>Quantity</u>	<u>Method</u>
			EPA 1631E
		<u>Precision</u>	<u>Quality Assurance</u>
		% RPD	Accuracy
		0.00	% Recovery
			100.0 *

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Signature Kurt Muller
Environmental Services Co., Inc.



CHAIN OF CUSTODY

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Springdale, Arkansas
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 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters																								
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: <u>210807</u>																												
Address: P.O. Box 17898				Purchase Order #: <u>210807</u>																												
Phone: North Little Rock, AR 72117				Work Order #																												
Fax: 501-945-7186				Sampler Name(s): <u>Jason Burnett</u>																												
Contact: 501-945-2367				and Signature(s): <u>Bryan Croft</u>																												
ESC Client Number: 2455 Effluent Quarterly																																
Sample Identification				Sample Collection				Sample Containers																								
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Matrix	Type	Volume	Preservative	#																		
FILE-WTR-MCR-Q2-21	2105010000	5-5-21	0730	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	Wwater	Plastic	8 oz	NaOH+Asc Acid	1																		
FILE-WTR-MCR-Q2-21	2105010000	5-5-21	0720	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1	Wwater	Glass	1 Liter	CUSO4+H2SO4	1																		
FILE-WTR-MCR-Q2-21	2105010000	5-5-21	0720	Grab	Wwater	Plastic	8 oz	H2SO4	1	Wwater	Plastic	8 oz	H2SO4	1																		
FILE-WTR-MCR-Q2-21	2105010000	5-5-21	0720	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1	Wwater	Plastic	8 oz	HNO3 to pH <2	1																		
FILE-WTR-MCR-Q2-21	2105010000	5-5-21	0720	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1	Wwater	Glass	250 ml	Cool ≤ 6° C	1																		
Equipment Blank	2105010001	5-5-21	0720	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1	Wwater	Glass	250 ml	Cool ≤ 6° C	1																		
Requested By: (Signature and Printed Name) <u>Jason Burnett</u> Date: <u>5-5-21</u> Time: <u>1400</u>																																
Received By: (Signature and Printed Name) <u>[Signature]</u> Date: <u>5/5/21</u> Time: <u>1616</u>																																
Requested By: (Signature and Printed Name) <u>[Signature]</u> Date: <u>5/5/21</u> Time: <u>1616</u>																																
Received By: (Signature and Printed Name) <u>[Signature]</u> Date: <u>5/5/21</u> Time: <u>1616</u>																																
Comments: tests updated per chain of custody																																
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)																																
Tl(81.PS), Pb(82.PS)																																
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), Bi(83.PS)																																
<table border="1"> <tr> <th>Requested Parameters</th> <th>Phenols (24.2) <u>KNM</u></th> <th>NO2+NO3(94), Total P(25)</th> <th>Metals(See Comments)</th> <th>Mercury(16.31) <u>KNM</u></th> </tr> <tr> <td>Cyanide (9)</td> <td>X</td> <td></td> <td></td> <td></td> </tr> </table>															Requested Parameters	Phenols (24.2) <u>KNM</u>	NO2+NO3(94), Total P(25)	Metals(See Comments)	Mercury(16.31) <u>KNM</u>	Cyanide (9)	X											
Requested Parameters	Phenols (24.2) <u>KNM</u>	NO2+NO3(94), Total P(25)	Metals(See Comments)	Mercury(16.31) <u>KNM</u>																												
Cyanide (9)	X																															
<table border="1"> <tr> <th>Requested Parameters</th> <th>Used?</th> <th>Intact?</th> </tr> <tr> <td>Regular</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Special</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Were samples properly preserved:</td> <td>Yes <input checked="" type="checkbox"/></td> <td>No <input type="checkbox"/></td> </tr> <tr> <td>Result</td> <td>Result</td> <td>Result</td> </tr> <tr> <td>Units</td> <td>Units</td> <td>Units</td> </tr> </table>															Requested Parameters	Used?	Intact?	Regular	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Special	<input type="checkbox"/>	<input type="checkbox"/>	Were samples properly preserved:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Result	Result	Result	Units	Units	Units
Requested Parameters	Used?	Intact?																														
Regular	<input checked="" type="checkbox"/>	<input type="checkbox"/>																														
Special	<input type="checkbox"/>	<input type="checkbox"/>																														
Were samples properly preserved:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>																														
Result	Result	Result																														
Units	Units	Units																														
<table border="1"> <tr> <th>Requested Parameters</th> <th>Result</th> <th>Units</th> </tr> <tr> <td>Analyst:</td> <td></td> <td></td> </tr> <tr> <td>Time:</td> <td></td> <td></td> </tr> <tr> <td>Reading:</td> <td></td> <td></td> </tr> <tr> <td>Units:</td> <td></td> <td></td> </tr> <tr> <td>Fecal Start:</td> <td></td> <td></td> </tr> </table>															Requested Parameters	Result	Units	Analyst:			Time:			Reading:			Units:			Fecal Start:		
Requested Parameters	Result	Units																														
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This Document is Page <u>1</u> of <u>1</u>																																

1320W

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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Control Number: 2108010053
 Customer Name : NORTH LITTLE ROCK-FAULKNER INF
 Customer/Permit No. : 2456 / AR00020303
 Report Date : 08/19/21
 Composite Date: 08/09/21 -08/10/21
 Sample Time : 0755-0755/0755(8/10)
 Sample Type : COMP/GRAB WWATER
 Sample From : FLI-WTR-MCR-Q3-21
 Collected By: JASON BARRETT/B
 Delivery By : DMP
 Work Order :
 Purchase Order : 211470

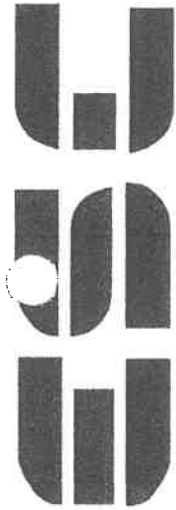
Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Quality Assurance Accuracy & Recovery
08/18	0710	NTR	Beryllium	< 0.0500	mg/L		EPA 200.8	0.65	104.1 *
08/11	0350	NTR	Cyanide Total (HACH 10265	< 0.0100	mg/L		SM 2011 4500-CN E	3.67	109.0 *
08/16	0430	NTR	Phenolics	0.11	mg/L		EPA 420.1	3.39	98.2
08/18	0710	NTR	Chromium	< 0.0200	mg/L		EPA 200.8	0.84	116.3 *
08/18	0710	NTR	Nickel	< 0.0200	mg/L		EPA 200.8	1.24	110.3 *
08/18	0710	NTR	Copper	0.0336	mg/L		EPA 200.8	4.55	111.4 *
08/18	0710	NTR	Zinc	0.1524	mg/L		EPA 200.8	3.45	105.9 *
08/18	0710	NTR	Arsenic	< 0.0100	mg/L		EPA 200.8	1.07	104.9 *
08/18	0710	NTR	Selenium	< 0.0150	mg/L		EPA 200.8	0.04	88.0 *
08/18	0710	NTR	Molybdenum	< 0.0500	mg/L		EPA 200.8	2.57	88.8 *
08/18	0710	NTR	Silver	< 0.1200	mg/L		EPA 200.8	1.10	109.6 *
08/18	0710	NTR	Cadmium	< 0.0200	mg/L		EPA 200.8	1.89	92.3 *
08/12	1030	NTR	Mercury	< 0.0050	mg/L		EPA 245.1	2.02	78.2 *
08/18	0710	NTR	Antimony	0.0215	mg/L		EPA 200.8	1.09	84.8 *
08/18	0710	NTR	Thallium	< 0.0500	mg/L		EPA 200.8	1.30	120.0 *
08/18	0710	NTR	Lead	0.0283	mg/L		EPA 200.8	1.21	117.4 *

* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co., Inc.



Springdale, Arkansas
479-750-1170

Carlsbad, New Mexico
575-887-1ESC

CHAIN OF CUSTODY

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website: www.eslabs.com

Phone: 501-221-2566 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters															
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: 211470																			
Address: P.O. Box 17898				Purchase Order #:																			
North Little Rock, AR 72117				Work Order #:																			
Phone: 501-945-7186				Sampler Name(s): Jason Burnett																			
Fax: 501-945-2367				and Signature(s): Bryan Grotz																			
Contact: Ms. Marybeth Eggleston																							
ESC Client Number: 2456 Influent Quarterly																							
Sample Identification				Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (g)	Phenols (24)	Metals (See Comments)											
FLI-WTR-MCR-03-21	2108010053	8/10/21	0755	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X													
FLI-WTR-MCR-03-21	1	8/10/21	0755	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1	X													
FLI-WTR-MCR-03-21	1	8/10/21	0755	Composite	Wwater	Plastic	8 oz	HNO3	1		X												
Relinquished By: (Signature and Printed Name) Jason Burnett				Date: 8/10/21				Time: 1410				Received By: (Signature and Printed Name) David Pierce				Date: 08/10/21				Time: 1410			
Relinquished By: (Signature and Printed Name) Jason Burnett				Date: 8/10/21				Time: 1628				Received By: (Signature and Printed Name) Jason Burnett				Date: 08/10/21				Time: 1628			
Comments: Cool all samples to ≤ 6 degrees C with ice.																							
T(81.HW), Pb(82.HW), Hg (50.15)																							
Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW)																							
Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD																							
Units:																							
Chlorinated? Y N																							
Fecal Start:																							
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Control Number: 2108010051
 Customer Name : NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No. : 2455 / AR00020303
 Report Date : 08/26/21
 Composite Date: 08/09/21 -08/10/21
 Sample Time : 0735-0735/0735(8/10)
 Sample Type : COMP/GRAB WWATER
 Sample From : FLE-WTR-MCR-Q3-21

Collected By: JASON BARRETT/B
 Delivery By : DMP
 Work Order :
 Purchase Order : 211470

Laboratory Analysis				Quality Assurance					
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision, % RPD	Accuracy % Recovery
08/18	0710	NTR	Beryllium	< 50.00 ug/L			EPA 200.8	0.65	104.1 *
08/11	0350	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.67	109.0 *
08/25	1223	ACZ	Mercury, low level	6.550 ng/L			EPA 1631E	0.00	86.0 *
08/19	1113	BXW	Nitrate Nitrogen	12.1000 mg/L			HACH 10206	0.84	101.0
08/10	1651	BXW	Nitrite Nitrogen	< 2.0000 mg/L			EPA 354.1	0.00	99.6
08/16	0430	NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	11.11	91.5 *
08/18	0710	NTR	Chromium	< 20.00 ug/L			EPA 200.8	0.84	116.3 *
08/16	1235	NTR	Phosphorus, Total (as P)	4.340 mg/L			EPA 365.1	0.65	97.4
08/18	0710	NTR	Nickel	< 20.00 ug/L			EPA 200.8	1.24	110.3 *
08/18	0710	NTR	Copper	< 20.00 ug/L			EPA 200.8	4.55	111.4 *
08/18	0710	NTR	Zinc	< 50.00 ug/L			EPA 200.8	3.45	105.9 *
08/18	0710	NTR	Arsenic	< 10.00 ug/L			EPA 200.8	1.07	104.9 *
08/18	0710	NTR	Selenium	< 15.00 ug/L			EPA 200.8	0.04	88.0 *
08/18	0710	NTR	Molybdenum	< 50.00 ug/L			EPA 200.8	2.57	88.8 *
08/18	0710	NTR	Silver	< 120.0 ug/L			EPA 200.8	0.64	109.6 *
08/18	0710	NTR	Cadmium	< 20.00 ug/L			EPA 200.8	1.89	92.3 *
08/18	0710	NTR	Antimony	< 10.00 ug/L			EPA 200.8	1.09	84.8 *
08/18	0710	NTR	Thallium	< 50.000 ug/L			EPA 200.8	1.30	120.0 *
08/18	0710	NTR	Lead	25.30 ug/L			EPA 200.8	1.21	117.4 *

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Signature  Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479) 750-1170 Fax (479) 750-1172

Control Number: 2108010052
 Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No.: 2455 / AR00020303
 Report Date: 08/26/21
 Sample Date: 08/10/21
 Sample Time: 0735
 Sample Type: GRAB WWATER
 Sample From: EQUIPMENT BLANK
 Collected By: JASON BARRETT/B
 Delivery By: DMP
 Work Order:
 Purchase Order: 211470

<u>Laboratory Analysis</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	
08/25	1228	ACZ	
		<u>Parameter</u>	
		Mercury, low level	
		<u>Result</u>	
		4.420 ng/L	
		<u>Notes</u>	
		<u>Quantity</u>	
		<u>Method</u>	
		EPA 1631E	
		<u>Precision</u>	
		% RPD	0.00
		<u>Accuracy</u>	
		% Recovery	86.0 *

Analysis

Date: 08/25
 Time: 1228
 By: ACZ

* QA data shown is from a different sample or standard on the same date.

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Springdale, Arkansas
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 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: 211470				Cyanide (9)				
Address: P.O. Box 17898				Purchase Order #: 211470				NO3(18), Total P(25)				
Phone: North Little Rock, AR 72117				Work Order #				Phenols (24,2)				
Fax: 501-945-7186				Sampler Name(s): Jason Barnett				Metals(See Comments)				
Contact: Ms. Marybeth Eggleston				and Signature(s): <i>Jason Barnett</i>				NO2(19)				
ESC Client Number: 2455 Effluent Quarterly								Mercury(16,31)				
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#			
FLE-WTR-MCR-Q3-21	2108010051	8/10/21	0735	Grab	Wwater	Plastic	8 oz	NaOH	1	X		
FLE-WTR-MCR-Q3-21		8/10/21	0735	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1	X		
FLE-WTR-MCR-Q3-21		8/10/21	0735	Grab	Wwater	Plastic	8 oz	H2SO4	1		X	
FLE-WTR-MCR-Q3-21		8/10/21	0735	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1		X	
FLE-WTR-MCR-Q3-21		8/10/21	0735	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1		X	
FLE-WTR-MCR-Q3-21		8/10/21	0735	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1		X	
Equipment Blank	2108010052	8/10/21	0735	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1		X	
Relinquished By: <i>Jason Barnett</i>				Received By: <i>David Preece</i>				Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>				
Date: 8/10/21				Date: 8/10/21				Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>				
Time: 1410				Time: 1410				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Relinquished By: <i>David Preece</i>				Received By: <i>Jason Barnett</i>				Result Result Result				
Date: 08/10/21				Date: 08/10/21				Analyst Analyst Analyst				
Time: 1628				Time: 1628				Field Test Field Test Field Test				
Comments:				Fecal Start:				This Document is Page 1 of 1				

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172


Control Number: 2110010054 Composite Date: 10/26/21 -10/27/21 Collected By: JASON BARRETT
 Customer Name : NORTH LITTLE ROCK-FAULKNER INF Sample Time : 0730-0730 0730 Delivery By : HMK
 Customer/Permit No. : 2456 / AR00020303 Sample Type : COMP/ GRAB WATER Work Order :
 Report Date : 11/19/21 Sample From : FLI-WTR-MCR-Q4-21 Purchase Order :

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								Precision % RPD	Accuracy % Recovery
10/28	1320	NTR	Beryllium	< 0.0500 mg/L		EPA 200.8	6.70	108.7	*
10/29	0400	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L		SM 2011 4500-CN E	4.44	112.5	*
10/29	0515	NTR	Phenolics	0.18 mg/L		EPA 420.1	1.60	98.4	
10/28	1320	NTR	Chromium	< 0.0200 mg/L		EPA 200.8	2.53	109.2	*
10/28	1320	NTR	Nickel	< 0.0200 mg/L		EPA 200.8	1.18	88.6	*
10/28	1320	NTR	Copper	0.0590 mg/L		EPA 200.8	9.46	104.3	*
10/28	1320	NTR	Zinc	0.1920 mg/L		EPA 200.8	10.89	79.9	*
10/28	1320	NTR	Arsenic	< 0.0100 mg/L		EPA 200.8	3.76	98.7	*
10/28	1320	NTR	Selenium	< 0.0150 mg/L		EPA 200.8	2.85	96.1	*
10/28	1320	NTR	Molybdenum	< 0.0500 mg/L		EPA 200.8	9.28	81.4	*
10/28	1320	NTR	Silver	< 0.1200 mg/L		EPA 200.8	0.77	80.3	*
10/28	1320	NTR	Cadmium	< 0.0200 mg/L		EPA 200.8	2.20	111.9	*
11/01	1130	NTR	Mercury	< 0.0050 mg/L		EPA 245.1	2.67	94.5	*
10/28	1320	NTR	Antimony	< 0.0100 mg/L		EPA 200.8	4.24	74.7	*
10/28	1320	NTR	Thallium	< 0.0500 mg/L		EPA 200.8	7.86	112.6	*
10/28	1320	NTR	Lead	0.0330 mg/L		EPA 200.8	0.73	89.3	*

* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co., Inc.

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 Carlsbad, New Mexico
 575-887-1ESC



CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: 212028				Metals (See Comments)			
Address: P.O. Box 17898				Purchase Order #: 212028				Phenols (24)			
Phone: North Little Rock, AR 72117				Work Order #				Cyanide (9)			
Fax: 501-945-7186				Sampler Name(s): Jason Barnett							
Contact: Ms. Marybeth Eggleston				and Signature(s): <i>Jason Barnett</i>							
ESC Client Number: 2456 Influent Quarterly											
Sample Identification		Sample Collection		Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Type	Preservative	#		
FLI-WTR-MCR-042	2110010054	10-27-21	0730	Grab	Wwater	8 oz	Plastic	H ₂ O+H ₂ SO ₄	1	X	
FLI-WTR-MCR-042		10-27-21	0730	Grab	Wwater	1 Liter	Glass	H ₂ SO ₄ +H ₂ SO ₄	1	X	
FLI-WTR-MCR-042		10-27-21	0730	Composite	Wwater	8 oz	Plastic	HNO ₃	1		X
Relinquished By: (Signature and Printed Name) <i>Jason Barnett</i> Date: 10-27-21 Time: 1448 Received By: (Signature and Printed Name) <i>Harden Kellard</i> Date: 10/27/21 Time: 1448 Intact? <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name) <i>Harden Kellard</i> Date: 10/27/21 Time: 1700 Received By: (Signature and Printed Name) <i>James Thornton</i> Date: 10/27/21 Time: 1700 Intact? <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name) <i>Harden Kellard</i> Date: 10/27/21 Time: 1700 Received By: (Signature and Printed Name) <i>James Thornton</i> Date: 10/27/21 Time: 1700 Intact? <input type="checkbox"/>											
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Tl(81.HW), Pb(82.HW), Hg(50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD Cool all samples to ≤ 5 degrees C with ice.											
Flow Data				Field Test				Result			
Chlorinated? Y N				Fecal Start:				Units			
This Document is Page 1 of 1											

JNT

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Control Number: 2110010052
 Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No.: 2455 / AR00020303
 Report Date: 11/26/21
 Composite Date: 10/26/21 - 10/27/21
 Sample Time: 0715-0715 0715
 Sample Type: COMP/ GRAB WATER
 Sample From: FLE-WTR-WCR-Q4-21
 Collected By: JASON BARRETT
 Delivery By: HMK
 Work Order:
 Purchase Order:

Laboratory Analysis				Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/28	1320	NTR	< 50.00	ug/L		EPA 200.8	4.44	107.7 *
10/29	0400	NTR	< 0.0100	mg/L		SM 2011 4500-CN E	4.44	112.5
11/12	1144	ACZ	0.980	ng/L		EPA 1631E	0.00	84.0
10/28	0550	NTR	10.6100	mg/L		HACH 10206	0.51	103.8
10/28	0515	NTR	0.0500	mg/L		EPA 354.1	1.21	98.2
10/29	0515	NTR	< 0.005	mg/L		EPA 420.1	2.41	101.2 *
10/28	1320	NTR	< 20.00	ug/L		EPA 200.8	2.53	109.2 *
11/04	1040	NTR	1.700	mg/L		EPA 365.1	0.89	99.8
10/28	1320	NTR	< 20.00	ug/L		EPA 200.8	1.18	88.6 *
10/28	1320	NTR	< 20.00	ug/L		EPA 200.8	9.46	104.3 *
10/28	1320	NTR	< 50.00	ug/L		EPA 200.8	10.89	79.9 *
10/28	1320	NTR	< 10.00	ug/L		EPA 200.8	3.76	98.7 *
10/28	1320	NTR	< 15.00	ug/L		EPA 200.8	2.85	96.1 *
10/28	1320	NTR	< 50.00	ug/L		EPA 200.8	9.28	81.4 *
10/28	1320	NTR	< 120.0	ug/L		EPA 200.8	0.77	80.3 *
10/28	1320	NTR	< 20.00	ug/L		EPA 200.8	2.20	111.9 *
10/28	1320	NTR	< 10.00	ug/L		EPA 200.8	4.24	74.7 *
10/28	1320	NTR	< 50.000	ug/L		EPA 200.8	7.86	112.6 *
10/28	1320	NTR	17.21	ug/L		EPA 200.8	0.73	89.3 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____
 Environmental Services Co., Inc.

WAS

Environmental Services Company, Inc.

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13715 West Markham
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Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
Tel. (479) 750-1170 Fax (479) 750-1172

Control Number: 2110010053
Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
Customer/Permit No.: 2455 / AR00020303
Report Date: 11/26/21
Sample Date: 10/27/21
Sample Time: 0715
Sample Type: GRAB WATER
Sample From: EQUIPMENT BLANK
Collected By: JASON BARRETT
Delivery By: HMK
Work Order:
Purchase Order:

Laboratory Analysis
Analysis Date: 11/12 1149 ACZ
Parameter: Mercury, low level
Result: < 0.300 ng/L
Quantity: _____
Method: EPA 1631E
Quality Assurance Precision: 0.00
Accuracy & Recovery: 84.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature _____
Environmental Services Co., Inc.

SPM

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 Carlsbad, New Mexico
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 Albuquerque, New Mexico
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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: 212028				Metals(See Comments)							
Address: P.O. Box 17898				Purchase Order #: 212028				NO3(18), Total P(25.)							
Phone: North Little Rock, AR 72117				Work Order #				Phenols (24.2)							
Fax: 501-945-7186				Sampler Name(s): Jason Barrett				Cyanide (9.)							
Contact: 501-945-2367				and Signature(s): Bryan Croft				NO2(19.)							
ESC Client Number: 2455 Effluent Quarterly				Signature: Jason Barrett				Mercury(16.31)							
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
AF-WTR-MCR-Q4-21	2110010052	10-27-21	0715	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
AF-WTR-MCR-Q4-21		10-27-21	0715	Grab	Wwater	Glass	1 Liter	H2SO4+H2SO4	1		X				
FE-WTR-MCR-Q4-21		10-27-21	0715	Grab	Wwater	Plastic	8 oz	H2SO4	1			X			
FE-WTR-MCR-Q4-21		10-27-21	0715	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1				X		
FE-WTR-MCR-Q4-21		10-27-21	0715	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1			X			
FE-WTR-MCR-Q4-21		10-27-21	0715	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X		
Equipment Blank	2110010053	10-27-21	0715	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X		
Relinquished By: (Signature and Printed Name) Jason Barrett				Received By: (Signature and Printed Name) Hayden Kelly				Date: 10-27-21				Time: 1448			
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Date: 10-27-21				Time: 1448			
Relinquished By: (Signature and Printed Name) Hayden Kelly				Received by Lab By: (Signature and Printed Name) Jason Barrett				Date: 10/27/21				Time: 6:35			
Comments:				Flow Data				Field Test				Custody Seals:			
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)				Analyst: _____				Result _____				Used? <input checked="" type="checkbox"/>			
Tl(81.PS), Pb(82.PS)				Time: _____				Result _____				Intact? <input type="checkbox"/>			
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Reading: _____				Result _____				Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>			
				Units: _____				Result _____				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
				Fecal Start: _____				Result _____				Units _____			
												This Document is Page 1 of 1			

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
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Control Number: 2102010051
 Customer Name : NORTH LITTLE ROCK-FIVE MILE INF
 Customer/Permit No. : 2448 / AR00020320
 Report Date : 02/19/21
 Composite Date: 02/01/21 -02/02/21
 Sample Time: 1110-1110/1110(02/02)
 Sample Type : COMP/GRAB WATER
 Sample From : FMI-WTR-MCR-Q1-21
 Collected By: JASON BARRETT
 Delivery By : WGW
 Work Order :
 Purchase Order :

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								% RPD	% Recovery
02/10	1319	KNM	Beryllium	< 0.0040 mg/L			EPA 200.8	2.29	112.3 *
02/10	0350	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 1999 4500-CN E	2.99	106.7 *
02/11	0330	NTR	Phenolics	0.12 mg/L			EPA 420.1	3.39	94.8
02/10	1319	KNM	Chromium	< 0.0060 mg/L			EPA 200.8	1.55	111.2 *
02/08	1138	KNM	Nickel	< 0.0064 mg/L			EPA 200.8	0.95	111.1 *
02/10	1319	KNM	Copper	< 0.0070 mg/L			EPA 200.8	0.97	108.3 *
02/10	1319	KNM	Zinc	< 0.0351 mg/L			EPA 200.8	9.49	112.6 *
02/10	1319	KNM	Arsenic	< 0.0070 mg/L			EPA 200.8	3.60	103.8 *
02/10	1319	KNM	Selenium	0.0172 mg/L			EPA 200.8	10.37	101.9 *
02/10	1319	KNM	Molybdenum	0.0181 mg/L			EPA 200.8	0.63	114.2 *
02/10	1319	KNM	Silver	0.0061 mg/L			EPA 200.8	6.51	83.9 *
02/10	1319	KNM	Cadmium	0.0150 mg/L			EPA 200.8	4.00	109.1 *
02/13	1206	KNM	Mercury	< 0.0010 mg/L			EPA 245.1	5.69	86.4 *
02/10	1319	KNM	Antimony	0.0095 mg/L			EPA 200.8	0.14	97.0 *
02/10	1319	KNM	Thallium	< 0.0040 mg/L			EPA 200.8	1.35	91.9 *
02/08	1138	KNM	Lead	1.0438 mg/L			EPA 200.8	0.01	96.9 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.



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CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters				
North Little Rock WWU/Five Mile				Permit/Project #:								
P.O. Box 17898				Purchase Order #:				210229				
North Little Rock, AR 72117				Work Order #								
501-945-7186				Sampler Name(s):				Jason Barnett				
501-945-2367				and Signature(s):				Jason Barnett				
Ms. Marybeth Eggleston												
ESC Client Number: 2448 Influent Quarterly												
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (g)	Phenols (24)	Metals (See Comments)
FMT-WTR-MCR-01-21	2102010051	2/2/21	1110	Grab	Wwater	Plastic	8 oz ✓	NaOH+Asc Acid	1	X		
FMT-WTR-MCR-01-21		2/2/21	1110	Grab	Wwater	Glass	1 Liter ✓	CuSO4+H2SO4	1		X	
FMT-WTR-MCR-01-21	2-1-2/2-21	2/2/21	1110-1110	Composite	Wwater	Plastic	8 oz ✓	HNO3	1		X	
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Custody Seals:				
Jason Barnett				William J. Williams				Used? <input checked="" type="checkbox"/>				
Date: 2/2/21				Date: 2/2/21				Intact? <input type="checkbox"/>				
Time: 1000				Time: 1400				Umaround: <input checked="" type="checkbox"/>				
Regular <input checked="" type="checkbox"/>				Special <input type="checkbox"/>				Were samples properly preserved: <input checked="" type="checkbox"/>				
Yes <input checked="" type="checkbox"/>				No <input type="checkbox"/>				Result Result				
Units				Units				Units				
Chlorinated? Y N				Fecal Start:				This Document is Page 1 of 1				

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Northwest Arkansas Branch
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Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2102010049 Composite Date: 02/01/21 -02/02/21 Collected By: JASON BARRETT
Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF Sample Time : 1115-1115/1115(2/02) Delivery By : WGW
Customer/Permit No. : 2447 / AR00020320 Sample Type : COMP/GRAB WWATER Work Order :
Report Date : 03/04/21 Sample From : FME-WTR-MCR-Q1-21 Purchase Order :

Laboratory Analysis

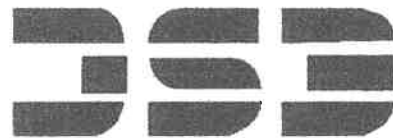
Date	Time By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
							% RPD	Accuracy & Recovery
02/10	1313	Beryllium	< 3.6960 ug/L			EPA 200.8	2.29	112.3 *
02/10	0350	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	2.99	106.7 *
02/16	1332	Mercury, low level	7.970 ng/L			EPA 1631E	1.48	93.0 *
02/09	0815	Total Kjeldahl Nitrogen	14.1 mg/L			02/2014 HACH 10242	0.00	97.1 *
02/11	0330	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	10.53	91.0 *
02/10	1313	Chromium	< 5.97 ug/L			EPA 200.8	1.55	111.2 *
02/08	1030	Phosphorus, Total (as P)	1.550 mg/L			EPA 365.1	1.93	102.0 *
02/05	1551	Solids, Total Dissolved	111.5 mg/L			SM 2011 2540 C	7.07	N/A *
02/08	1133	Nickel	< 6.37 ug/L			EPA 200.8	0.95	111.1 *
02/10	1313	Copper	11.15 ug/L			EPA 200.8	0.97	108.3 *
02/10	1313	Zinc	< 35.15 ug/L			EPA 200.8	9.49	112.6 *
02/10	1313	Arsenic	< 7.03 ug/L			EPA 200.8	3.60	103.8 *
02/10	1313	Selenium	14.11 ug/L			EPA 200.8	10.37	101.9 *
02/10	1313	Molybdenum	18.27 ug/L			EPA 200.8	0.63	114.2 *
02/10	1313	Silver	6.2 ug/L			EPA 200.8	6.45	83.9 *
02/08	1133	Cadmium	1312.3900 ug/L			EPA 200.8	0.08	94.1 *
02/10	1313	Antimony	9.60 ug/L			EPA 200.8	0.14	97.0 *
02/10	1313	Thallium	< 4.000 ug/L			EPA 200.8	1.07	91.9 *
02/08	1133	Lead	1043.7600 ug/L			EPA 200.8	0.01	96.9 *
02/09	0920	Nitrate + Nitrite	0.40 mg/L			HACH 10206	8.16	100.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
Environmental Services Co., Inc.

Handwritten initials



Environmental Services Company, Inc.

Corporate Office
13715 West Markham
Little Rock, Arkansas 72211
575-887-7-ESC (372)
Sprintdale, Arkansas
479-750-1170
www.esclabs.com

LABORATORY REPORT

Client: North Little Rock WWU/Five Mile
Control Number: 2102010049/2102020154
Sample Type: Grab - W. Water
Sample Identification: FME-WTR-MCR-Q1-21
Report Date: 02/02/21
Receipt Date: 02/02/21
Sample Date: 02/02/21

CHLORINATED PESTICIDES (µg/L or ppb)
Analyte Result
Detection Limit

Chlorpyrifos ND 0.04

QUALITY ASSURANCE DATA

Method: EPA 8081A
System Monitoring Compounds
2,4,5,6-Tetrachloro-m-xylene 132%
Decachlorobiphenyl 70.0%
% Recovery 35-138
% Recovery Limits 43-128
Analysis Date: 2/17/2021
Analysis Time: 20:59
Analyst: TWM

Laboratory control samples were monitored for all analytes of interest.

Digitally signed by Tyler Meek
DN: cn=Tyler Meek, o=Environmental Services Company, ou, email=tylerm@esclabs.com, c=US
Date: 2021.03.01 12:58:32 -0600
Tyler W. Meek - Lab Manager

Data Release authorized by:

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
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 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172


Control Number: 2102010050
 Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No. : 2447 / AR00020320
 Report Date : 02/19/21
 Sample Date : 02/02/21
 Sample Time : 1115
 Sample Type : GRAB WATER
 Sample From : EQUIPMENT BLANK
 Collected By: JASON BARRETT
 Delivery By : WGW
 Work Order :
 Purchase Order :

Laboratory Analysis			
Analysis Date	Time	By	Method
02/16	1337	AZ	EPA 1631E
Parameter		Result	Quantity
Mercury, low level		0.710 ng/L	
Notes			

Quality Assurance	
Precision	Accuracy
% RPD	% Recovery
1.48	93.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

RPO

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CHAIN OF CUSTODY

Phone: 501-221-2566 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/Five Mile				Permit/Project #: <u>210229</u>				Cyanide (9)							
Address: P.O. Box 17898				Purchase Order #:				Phenols (24.2)							
Phone: North Little Rock, AR 72117				Work Order #				Metals (See Comments)							
Fax: 501-945-7186				Sampler Name(s): <u>Jason Bennett</u>				Chlorpyrifos (99.P.C) 1st quarter only							
Contact: Ms. Marybeth Eggleston				and Signature(s): <u>Jason Bennett</u>				TKN (16.C), NO2+NO3(91), Total P(25)							
ESC Client Number: 2447 Effluent Quarterly-1st								Mercury (16.31)							
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
FME-WTR-MCL-Q1-21	210201-115	2/2/21	1115	Grab	Wwater	Plastic	8 oz ✓	NaOH+Asc Acid	1						
FME-WTR-MCL-Q1-21	049	2/2/21	1115	Grab	Wwater	Glass	1 Liter ✓	CUSO4+H2SO4	1		X				
FME-WTR-MCL-Q1-21	2-1-21	2/2/21	1115-1115	Composite	Wwater	Plastic	8 oz ✓	HNO3	1		X				
FME-WTR-MCL-Q1-21		2/2/21	1115	Grab	Wwater	Amb GI	1 Liter ✓	None	1			X			
FME-WTR-MCL-Q1-21		2/2/21	1115	Grab	Wwater	Plastic	8 oz ✓	None	1			X			
FME-WTR-MCL-Q1-21		2/2/21	1115	Grab	Wwater	Plastic	8 oz ✓	H2SO4	1			X			
FME-WTR-MCL-Q1-21	2-1-21	2/2/21	1115-1115	Composite	Wwater	Amb GI	250 ml ✓	HCl	1			X			
Equipment Blank	2102010050	2/2/21	1115	Grab	Wwater	Amb GI	250 ml ✓	HCl	1			X			
Relinquished By: (Signature and Printed Name) <u>Jason Bennett</u>				Date: <u>2/2/21</u>				Time: <u>1440</u>				Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>			
Relinquished By: (Signature and Printed Name)				Date:				Time:				Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>			
Relinquished By: (Signature and Printed Name) <u>William Wilkerson</u>				Date: <u>2/2/21</u>				Time: <u>1000</u>				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Field Test				Result			
Comments:				Analyst: _____				Time: _____				Units: _____			
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Ti(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Chlorinated? Y N				Fecal Start:				This Document is Page <u>1</u> of <u>1</u>			

ESCL

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Northwest Arkansas Branch
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Control Number: 2105010065
 Customer Name: NORTH LITTLE ROCK-FIVE MILE INF
 Customer/Permit No.: 2448 / AR00020320
 Report Date: 05/20/21
 Composite Date: 05/04/21 -05/05/21
 Sample Time: 1010-1010/1010
 Sample Type: COMP/GRAB WWATER
 Sample From: FMI-WTR-MCR-Q2-21
 Collected By: JASON BARRETT
 Delivery By: JGK
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Parameter		Result	Notes	Quantity	Method	Quality Assurance	
Date	Time By							Precision % RPD	Accuracy % Recovery
05/10	1913	KNM	Beryllium	< 0.0500 mg/L			EPA 200.8	3.20	111.4 *
05/13	0400	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.29	100.1 *
05/13	0550	NTR	Phenolics	0.08 mg/L			EPA 420.1	3.39	89.9 *
05/10	1913	KNM	Chromium	< 0.0200 mg/L			EPA 200.8	2.79	112.1 *
05/10	1913	KNM	Nickel	< 0.0200 mg/L			EPA 200.8	1.01	110.4 *
05/10	1913	KNM	Copper	< 0.0200 mg/L			EPA 200.8	2.17	110.0 *
05/10	1913	KNM	Zinc	< 0.0500 mg/L			EPA 200.8	6.57	103.6 *
05/10	1913	KNM	Arsenic	< 0.0100 mg/L			EPA 200.8	0.56	97.9 *
05/10	1913	KNM	Selenium	< 0.0150 mg/L			EPA 200.8	0.73	98.2 *
05/10	1913	KNM	Molybdenum	< 0.0500 mg/L			EPA 200.8	3.05	117.8 *
05/10	1913	KNM	Silver	< 0.1200 mg/L			EPA 200.8	1.82	99.3 *
05/20	1154	AA	Cadmium	< 0.0200 mg/L			EPA 200.8	0.84	107.3 *
05/10	1913	KNM	Mercury	< 0.0002 mg/L			EPA 245.1	2.49	96.9 *
05/10	1913	KNM	Antimony	< 0.0100 mg/L			EPA 200.8	1.73	96.1 *
05/10	1913	KNM	Thallium	< 0.0500 mg/L			EPA 200.8	2.04	95.4 *
05/10	1913	KNM	Lead	< 0.0100 mg/L			EPA 200.8	2.90	95.2 *

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Signature Krist Muller
 Environmental Services Co., Inc.

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CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/Five Mile				Permit/Project #:											
Address: P.O. Box 17898				Purchase Order #:											
Phone: North Little Rock, AR 72117				Work Order #:											
Fax: 501-945-7186				Sampler Name(s):											
Contact: Ms. Marybeth Eggleston				and Signature(s):											
ESC Client Number: 2448 Influent Quarterly															
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (g)	Phenols (24)	Metals (See Comments)			
FMT-WTR-MCR-02-21	2195000US	5-5-21	1010	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X					
FMT-WTR-MCR-02-21		5-5-21	1010	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1		X				
FMT-WTR-MCR-02-21		5-5-21	1010	Composite	Wwater	Plastic	8 oz	HNO3	1			X			
Requisitioned By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Date				Time			
[Signature]				[Signature]				5-5-21				1010			
Requisitioned By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Date				Time			
[Signature]				[Signature]				5-5-21				1010			
Requisitioned By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Date				Time			
[Signature]				[Signature]				5-5-21				1010			
Cool all samples to ≤ 6 degrees C with ice.												Custody Seals:		Intact?	
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW)												Used? <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Tl(81.HW), Pb(82.HW), Hg (50.15)												Turnaround:		Special	
Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD												Regular <input checked="" type="checkbox"/>		Were samples properly preserved:	
Chlorinated? Y N												Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>	
Fecal Start:												Result		Units	
This Document is Page 1 of 1												Result		Units	

Environmental Services Company, Inc.

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Control Number: 2105010467
 Customer Name: NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No.: 2447 / AR00020320
 Report Date: 05/27/21
 Composite Date: 05/04/21 -05/05/21
 Sample Time: 1020-1020/1020
 Sample Type: COMP/GRAB WWATER
 Sample From: FME-WTR-MCR-Q2-21
 Collected By: JASON BARRETT
 Delivery By: JGK
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Result		Notes	Quantity	Method	Quality Assurance	
Date	Time By	Parameter	Result	Notes	Quantity	Method	% RPD	% Recovery
05/10	2011 KNM	Beryllium	< 50.00 ug/L			EPA 200.8	3.20	111.4 *
05/13	0400 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.29	100.1 *
05/25	1031 TA	Mercury, low level	5.220 ng/L			EPA 1631E	0.00	100.0 *
05/13	0550 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	0.00	100.0 *
05/10	2011 KNM	Chromium	< 20.00 ug/L			EPA 200.8	2.79	112.1 *
05/10	0800 KNM	Phosphorus, Total (as P)	2.260 mg/L			EPA 365.1	1.20	101.2 *
05/10	2011 KNM	Nickel	< 20.00 ug/L			EPA 200.8	1.01	110.4 *
05/10	2011 KNM	Copper	< 20.00 ug/L			EPA 200.8	2.17	110.0 *
05/10	2011 KNM	Zinc	< 50.00 ug/L			EPA 200.8	6.57	103.6 *
05/10	2011 KNM	Arsenic	< 10.00 ug/L			EPA 200.8	0.56	97.9 *
05/10	2011 KNM	Selenium	< 15.00 ug/L			EPA 200.8	0.73	98.2 *
05/10	2011 KNM	Molybdenum	< 50.00 ug/L			EPA 200.8	3.05	91.1 *
05/10	2011 KNM	Silver	< 120.0 ug/L			EPA 200.8	1.80	99.3 *
05/10	2011 KNM	Cadmium	< 20.00 ug/L			EPA 200.8	0.84	107.3 *
05/10	2011 KNM	Antimony	< 10.00 ug/L			EPA 200.8	1.73	96.1 *
05/10	2011 KNM	Thallium	< 50.000 ug/L			EPA 200.8	2.04	95.4 *
05/10	2011 KNM	Lead	< 10.00 ug/L			EPA 200.8	2.90	95.2 *
05/10	0915 KNM	Nitrate + Nitrite	0.28 mg/L			HACH 10206	0.00	98.5 *

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Signature Krista Mullis
 Environmental Services Co., Inc.

MR

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010064
 Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No. : 2447 / AR00020320
 Report Date : 05/27/21

Sample Date : 05/04/21
 Sample Time : 1020
 Sample Type : GRAB WWATER
 Sample From : EQUIPMENT BLANK

Collected By: JASON BARRETT
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis Date Time By	Parameter	Result	Notes	Quantity	Method	Quality Assurance Precision % RPD	Accuracy % Recovery
05/25 1046 TA	Mercury, low level	0.330 ng/L			EPA 1631E	0.00	100.0 *

* QA data shown is from a different sample or standard on the same date.

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CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/Five Mile				Permit/Project #: <u>210807</u>				Cyanide (9)				
Address: P.O. Box 17898				Purchase Order #: <u>210807</u>				Phenols (24,2)				
Phone: North Little Rock, AR 72117				Work Order #				NO2+NO3(91), Total P(25)				
Fax: 501-945-7186				Sampler Name(s): <u>Jason Bennett</u>				Metals (See Comments)				
Contact: Ms. Marybeth Eggleston				and Signature(s): <u>Jason Bennett</u>				Mercury(16,31)				
ESC Client Number: 2447 Effluent Quarterly												
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#			
FME-WTR-MCR-02-21-105010407		5-5-21	1020	Grab	Wwater	Plastic	8 oz	NaOH+Asc. Acid	1	X		
FME-WTR-MCR-02-21-105010408		5-5-21	1020	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1		X	
FME-WTR-MCR-02-21-105010409		5-5-21	1020	Grab	Wwater	Plastic	8 oz	H2SO4	1		X	
FME-WTR-MCR-02-21-105010410		5-5-21	1020	Composite	Wwater	Plastic	8 oz	HNO3	1		X	
FME-WTR-MCR-02-21-105010411		5-5-21	1020	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1		X	
Equipment Blank	105010044	5-5-21	1020	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1		X	
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Custody Seals:				
Date: 5-5-21				Date: 5-5-21				Used? <input checked="" type="checkbox"/>				
Time: 1020				Time: 1020				Intact? <input checked="" type="checkbox"/>				
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Turnaround:				
Date: 5/5/21				Date: 5/5/21				Regular <input checked="" type="checkbox"/>				
Time: 1020				Time: 1020				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Comments: Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Result				
				Analyst: <u>Jason Bennett</u>				Result				
				Time: <u>1020</u>				Units				
				Reading: <u>1020</u>								
				Units: <u>mg/L</u>								
				Chlorinated? Y N				Fecal Start:				
				Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				This Document is Page <u>1</u> of <u>1</u>				

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Control Number: 2108010056
 Customer Name: NORTH LITTLE ROCK-FIVE MILE INF
 Customer/Permit No.: 2448 / AR00020320
 Report Date: 08/19/21
 Composite Date: 08/09/21 -08/10/21
 Sample Time: 1020-1020/1020(8/10)
 Sample Type: COMP/GRAB WWATER
 Sample From: FMI-WTR-MLR-Q3-21
 Collected By: JASON BARRETT/B
 Delivery By: DMP
 Work Order:
 Purchase Order: 211470

Laboratory Analysis

Analysis		Notes		Quantity		Method		Quality Assurance	
Date	Time By	Parameter	Result	Notes	Quantity	Method	% RPD	Precision	Accuracy % Recovery
08/18	0710 NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	0.65	0.65	104.1 *
08/11	0350 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.67	3.67	109.0 *
08/16	0430 NTR	Phenolics	0.06 mg/L			EPA 420.1	3.39	3.39	98.2 *
08/18	0710 NTR	Chromium	< 0.0200 mg/L			EPA 200.8	0.84	0.84	116.3 *
08/18	0710 NTR	Nickel	< 0.0200 mg/L			EPA 200.8	1.24	1.24	110.3 *
08/18	0710 NTR	Copper	< 0.0200 mg/L			EPA 200.8	4.55	4.55	111.4 *
08/18	0710 NTR	Zinc	0.0792 mg/L			EPA 200.8	3.45	3.45	105.9 *
08/18	0710 NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	1.07	1.07	104.9 *
08/18	0710 NTR	Selenium	< 0.0150 mg/L			EPA 200.8	0.04	0.04	88.0 *
08/18	0710 NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	2.57	2.57	88.8 *
08/18	0710 NTR	Silver	< 0.1200 mg/L			EPA 200.8	1.10	1.10	109.6 *
08/18	0710 NTR	Cadmium	< 0.0200 mg/L			EPA 200.8	1.89	1.89	92.3 *
08/12	1030 NTR	Mercury	< 0.0050 mg/L			EPA 245.1	2.02	2.02	78.2 *
08/18	0710 NTR	Antimony	< 0.0100 mg/L			EPA 200.8	1.09	1.09	84.8 *
08/18	0710 NTR	Thallium	< 0.0500 mg/L			EPA 200.8	1.30	1.30	120.0 *
08/18	0710 NTR	Lead	0.0257 mg/L			EPA 200.8	1.21	1.21	117.4 *

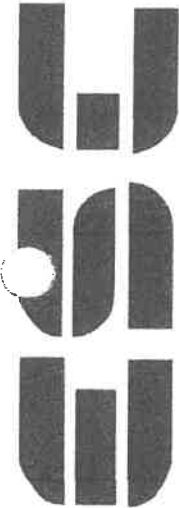
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Signature  Environmental Services Co., Inc.

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Phone: 501-221-2565 Fax: 501-221-1341



Springdale, Arkansas
 479-750-1170

Carlsbad, New Mexico
 575-887-1ESC

CHAIN OF CUSTODY

Client Information				Project Information					Requested Parameters									
Client: North Little Rock WWU/Five Mile				Permit/Project #:														
Address: P.O. Box 17898				Purchase Order #: 211470														
Phone: North Little Rock, AR 72117				Work Order #														
Fax: 501-945-7186				Sampler Name(s): Jason Barnett Bryan Craft Jason Barnett Bryan Craft														
Contact: Ms. Marybeth Eggleston				and Signature(s): 														
ESC Client Number: 2448 Influent Quarterly																		
Sample Identification		Sample Collection			Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	Phenols (24)	Metals (See Comments)						
FMI-WTR-MCR-0321	Z108010056	8/10/21	1020	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X								
FMI-WTR-MCR-0321		8/10/21	1020	Grab	Wwater	Glass	1 Liter	H2SO4+H2SO4	1		X							
FMI-WTR-MCR-0321		8/10/21	1020	Composite	Wwater	Plastic	8 oz	HNO3	1			X						
Relinquished By: (Signature and Printed Name)				Date		Time		Received By: (Signature and Printed Name) David Pierce			Date		Time		Custody Seals: Used? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>	
Relinquished By: (Signature and Printed Name)				Date		Time		Received By: (Signature and Printed Name)			Date		Time		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>	
Relinquished By: (Signature and Printed Name)				Date		Time		Received By: (Signature and Printed Name)			Date		Time		Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Ti(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Flow Data					Field Test		Analyst		Result		Units			
Cool all samples to ≤ 5 degrees C with ice.																		
									Chlorinated? Y N		Fecal Start:							

13XV

Environmental Services Company, Inc.

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Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2108010472 Composite Date: 08/09/21 -08/10/21 Collected By: JASON BARRETT/B
Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF Sample Time : 1030-1030/1030(8/10) Delivery By : DMP
Customer/Permit No. : 2447 / AR00020320 Sample Type : COMP/GRAB WWATER Work Order :
Report Date : 08/26/21 Sample From : FME-WTR-MLR-Q3-21 Purchase Order : 211470

Laboratory Analysis

Analysis		Notes		Quantity		Method		Quality Assurance	
Date	Time By	Parameter	Result	Notes	Quantity	Method	% RPD	Precision	Accuracy & Recovery
08/18	0710	Beryllium	< 50.00 ug/L			EPA 200.8	0.65		104.1 *
08/11	0350	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.67		109.0 *
08/25	1310	Mercury, low level,	8.640 ng/L			EPA 1631E	0.00		86.0 *
08/19	1113	Nitrate Nitrogen	0.6980 mg/L			HACH 10206	0.84		101.0 *
08/10	1651	Nitrite Nitrogen	< 2.0000 mg/L			EPA 354.1	0.00		99.6 *
08/16	0430	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	11.11		91.5
08/18	0710	Chromium	< 20.00 ug/L			EPA 200.8	0.84		116.3 *
08/11	1130	Phosphorus, Total (as P)	3.510 mg/L			EPA 365.1	0.51		99.7 *
08/18	0710	Nickel	< 20.00 ug/L			EPA 200.8	1.24		110.3 *
08/18	0710	Copper	< 20.00 ug/L			EPA 200.8	4.55		111.4 *
08/18	0710	Zinc	< 50.00 ug/L			EPA 200.8	3.45		105.9 *
08/18	0710	Arsenic	< 10.00 ug/L			EPA 200.8	1.07		104.9 *
08/18	0710	Selenium	< 15.00 ug/L			EPA 200.8	0.04		88.0 *
08/18	0710	Molybdenum	< 50.00 ug/L			EPA 200.8	2.57		88.8 *
08/18	0710	Silver	< 120.0 ug/L			EPA 200.8	0.64		109.6 *
08/18	0710	Cadmium	< 20.00 ug/L			EPA 200.8	1.89		92.3 *
08/18	0710	Antimony	< 10.00 ug/L			EPA 200.8	1.09		84.8 *
08/18	0710	Thallium	< 50.000 ug/L			EPA 200.8	1.30		120.0 *
08/18	0710	Lead	25.47 ug/L			EPA 200.8	1.21		117.4 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Control Number: 2108010473 Sample Date : 08/10/21 Collected By: JASON BARRETT/B
 Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF Sample Time : 1030 Delivery By : DMP
 Customer/Permit No. : 2447 / AR00020320 Sample Type : GRAB WWATER Work Order :
 Report Date : 08/26/21 Sample From : EQUIPMENT BLANK Purchase Order : 211470

<u>Laboratory Analysis</u>			
Analysis Date	Time	BY	Quality Assurance
08/25	1315	ACZ	Precision
			% RPD
			0.00
			Accuracy
			% Recovery
			86.0 *

Parameter	Result	Notes	Quantity	Method
Mercury, low level	5.530 ng/L			EPA 1631E

* QA data shown is from a different sample or standard on the same date.

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Signature Jason Barrett
 Environmental Services Co., Inc.

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CHAIN OF CUSTODY

Springdale, Arkansas
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 Carlsbad, New Mexico
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 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters					
Client: North Little Rock WWU/Five Mile				Permit/Project #: 211470				Cyanide (9)					
Address: P.O. Box 17898				Purchase Order #: 211470				Phenols (2,2)					
Phone: North Little Rock, AR 72117				Work Order #				NO3(18), Total P(25)					
Fax: 501-945-7186				Sampler Name(s): Jason Barnett				Metals (See Comments)					
Contact: Ms. Marybeth Eggleston				and Signature(s): <i>Jason Barnett</i>				Mercury(16,31)					
ESC Client Number: 2447 Effluent Quarterly													
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	#					
FME-WTR-MCL-Q3-21	Z108010472	8/10/21	1030	Grab	Wwater	8 oz	NaOH	1					
FME-WTR-MCL-Q3-21		8/10/21	1030	Grab	Wwater	1 Liter	CuSO4+H2SO4	1	X				
FME-WTR-MCL-Q3-21		8/10/21	1030	Grab	Wwater	8 oz	H2SO4	1		X			
FME-WTR-MCL-Q3-21		8/10/21	1030	Grab	Wwater	8 oz	Cool ≤ 6° C	1			X		
FME-WTR-MCL-Q3-21		8/10/21	1030	Composite	Wwater	8 oz	HNO3 to pH <2	1				X	
FME-WTR-MCL-Q3-21		8/10/21	1030	Composite	Wwater	250 ml	Cool ≤ 6° C	1					X
Equipment Blank	Z108010473	8/10/21	1030	Grab	Wwater	250 ml	Cool ≤ 6° C	1					X
Relinquished By: (Signature and Printed Name) <i>Jason Barnett</i>				Received By: (Signature and Printed Name) <i>Don Preece</i>				Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>					
Date: 8/16/21				Date: 8/19/21				Turnaround: <input type="checkbox"/>					
Time: 1410				Time: 1410									
Relinquished By: (Signature and Printed Name) <i>Don Preece</i>				Received for Lab By: (Signature and Printed Name) <i>Benjamin</i>				Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>					
Date: 08/10/21				Date: 8/10/21				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Time: 1628				Time: 1628				Result <input type="checkbox"/> Result <input type="checkbox"/>					
Comments: Cool all samples to ≤ 6 degrees C with ice.				Field Test <input type="checkbox"/>				Units					
Analyst: <i>Benjamin</i>				Time									
Reading: <i>Benjamin</i>				Time									
Units: <i>Benjamin</i>				Time									
Chlorinated? Y N				Fecal Start:				This Document is Page 1 of 1					

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Control Number: 2110010057 Composite Date: 10/26/21 -10/27/21 Collected By: JASON BARETT
 Customer Name : NORTH LITTLE ROCK-FIVE MILE INF Sample Time : 0825-0825 0825 Delivery By : JASON BARETT
 Customer/Permit No. : 2448 / AR00020320 Sample Type : GRAB/ COMP WWATER Work Order :
 Report Date : 11/19/21 Sample From : FMI-WTR-MCR-Q4-21 Purchase Order :

Laboratory Analysis				Quality Assurance						
Date	Time	By	Parameter	Result	Notes	Quantity	Method	% RPD	Accuracy	% Recovery
10/28	1320	NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	6.70	108.7	*
10/29	0400	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	4.44	112.5	*
10/29	0515	NTR	Phenolics	0.16 mg/L			EPA 420.1	1.60	98.4	*
10/28	1320	NTR	Chromium	< 0.0200 mg/L			EPA 200.8	2.53	109.2	*
10/28	1320	NTR	Nickel	0.0400 mg/L			EPA 200.8	1.18	88.6	*
10/28	1320	NTR	Copper	< 0.0200 mg/L			EPA 200.8	9.46	104.3	*
10/28	1320	NTR	Zinc	0.0980 mg/L			EPA 200.8	10.89	79.9	*
10/28	1320	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	3.76	98.7	*
10/28	1320	NTR	Selenium	< 0.0150 mg/L			EPA 200.8	2.85	96.1	*
10/28	1320	NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	9.28	81.4	*
10/28	1320	NTR	Silver	< 0.1200 mg/L			EPA 200.8	0.77	80.3	*
10/28	1320	NTR	Cadmium	< 0.0200 mg/L			EPA 200.8	2.20	111.9	*
11/01	1130	NTR	Mercury	< 0.0050 mg/L			EPA 245.1	2.67	94.5	*
10/28	1320	NTR	Antimony	< 0.0100 mg/L			EPA 200.8	4.24	74.7	*
10/28	1320	NTR	Thallium	< 0.0500 mg/L			EPA 200.8	7.86	112.6	*
10/28	1320	NTR	Lead	0.1340 mg/L			EPA 200.8	0.73	89.3	*

* QA data shown is from a different sample or standard on the same date.

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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/Five Mile Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2448 Influent Quarterly				Permit/Project #: <u>212028</u> Purchase Order #: Work Order # Sampler Name(s): <u>Jessica Barrett</u> and Signature(s): <u>[Signature]</u>				Cyanide (9) Phenols (24) Metals (See Comments)			
Sample Identification		Sample Collection		Sample Containers		Custody Seals:		Requested Parameters			
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Type	Preservative	#		
FMI-WTR-MCR-04-21	211000057	10-27-21	0825	Grab	Wwater	8 oz	Plastic	NaOH+H2PO4	1		
FMI-WTR-MCR-04-21		10-27-21	0825	Grab	Wwater	1 Liter	Glass	H2SO4+H2SO4	1		
FMI-WTR-MCR-04-21		10-27-21	0825	Composite	Wwater	8 oz	Plastic	HNO3	1		
Relinquished By: (Signature and Printed Name) <u>[Signature]</u> Date <u>10/27/21</u> Time <u>1448</u> Received By: (Signature and Printed Name) <u>[Signature]</u> Date <u>10/27/21</u> Time <u>1448</u> Relinquished By: (Signature and Printed Name) <u>[Signature]</u> Date <u>10/27/21</u> Time <u>1709</u> Received By: (Signature and Printed Name) <u>[Signature]</u> Date <u>10/27/21</u> Time <u>1709</u> Cool all samples to ≤ 6 degrees C with ice.											
Comments:				Flow Data		Field Test		Analyst		Result	
Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW)				Analyst:				Time		Result	
Ti(61.HW), Pb(62.HW), Hg (50.15)				Time:				Time		Units	
Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Reading:				Time		Units	
Units:				Chlorinated? Y N		Fecal Start:					
This Document is Page <u>1</u> of <u>1</u>											

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Northwest Arkansas Branch
1107 Century Avenue
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Control Number: 2110010627 Composite Date: 10/26/21 -10/27/21 Collected By: JASON BARRETT
Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF Sample Time : 0810-0810 0810 Delivery By : HMK
Customer/Permit No. : 2447 / AR00020320 Sample Type : GRAB/ COMP WWATER Work Order :
Report Date : 11/26/21 Sample From : FME-WTR-MCR-Q4-21 Purchase Order :

Laboratory Analysis

Analysis Date	Time By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
							% RPD	Accuracy % Recovery
10/28	1320	Beryllium	< 50.00 ug/L			EPA 200.8	4.44	107.7
10/29	0400	Cyanide Total (HACH 10265)	< 0.0100 mg/L			SM 2011 4500-CN E	4.44	112.5 *
11/12	1153	Mercury, low level	4.420 ng/L			EPA 1631E	0.00	84.0 *
10/28	0550	Nitrate Nitrogen	1.3400 mg/L			HACH 10206	0.51	103.8 *
10/28	0515	Nitrite Nitrogen	0.7600 mg/L			EPA 354.1	1.21	98.2 *
10/29	0515	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	2.41	101.2 *
10/28	1320	Chromium	< 20.00 ug/L			EPA 200.8	2.53	109.2
11/04	1040	Phosphorus, Total (as P)	2.280 mg/L			EPA 365.1	0.89	99.8 *
10/28	1320	Nickel	< 20.00 ug/L			EPA 200.8	1.18	88.6
10/28	1320	Copper	< 20.00 ug/L			EPA 200.8	9.46	104.3
10/28	1320	Zinc	< 50.00 ug/L			EPA 200.8	10.89	79.9
10/28	1320	Arsenic	< 10.00 ug/L			EPA 200.8	3.76	98.7
10/28	1320	Selenium	< 15.00 ug/L			EPA 200.8	2.85	96.1
10/28	1320	Molybdenum	< 50.00 ug/L			EPA 200.8	9.28	81.4
10/28	1320	Silver	< 120.0 ug/L			EPA 200.8	0.77	80.3
10/28	1320	Cadmium	< 20.00 ug/L			EPA 200.8	2.20	111.9
10/28	1320	Antimony	< 10.00 ug/L			EPA 200.8	4.24	74.7
10/28	1320	Thallium	< 50.000 ug/L			EPA 200.8	7.86	112.6
10/28	1320	Lead	12.88 ug/L			EPA 200.8	0.73	89.3

* QA data shown is from a different sample or standard on the same date.

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Handwritten initials

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Control Number: 2110010056
 Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No. : 2447 / AR00020320
 Report Date : 11/26/21

Composite Date: 10/27/21
 Sample Time : 0810
 Sample Type : GRAB WATER
 Sample From : EQUIPMENT BLANK

Collected By: JASON BARRETT
 Delivery By : HMK
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis Date	Time By	Parameter	Result	Notes	Quantity	Method
11/12	1158 ACZ	Mercury, low level	< 0.300 ng/L			EPA 1631E
						Quality Assurance Precision Accuracy % RPD % Recovery 0.00 84.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters					
Client: North Little Rock WWU/Five Mile				Permit/Project #: <u>212028</u>				NO3(18.), Total P(25.)					
Address: P.O. Box 17898				Purchase Order #: <u>212028</u>				Phenols (24.2)					
Phone: North Little Rock, AR 72117				Work Order #				Cyanide (9.)					
Fax: 501-945-7186				Sampler Name(s): <u>Jason Barrett</u>				NO2(19.)					
Contact: 501-945-2367				and Signature(s): <u>Bryan Croft</u>				Metals (See Comments)					
ESC Client Number: 2447 Effluent Quarterly								Mercury(16.31)					
Sample Identification		Sample Collection		Sample Containers									
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
FME-WTR-MCR-04-21 211001056		10-27-21	0810	Grab	Wwater	Plastic	8 oz	NaOH	1	X			
FME-WTR-MCR-04-21		10-27-21	0810	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1	X			
FME-WTR-MCR-04-21		10-27-21	0810	Grab	Wwater	Plastic	8 oz	H2SO4	1				
FME-WTR-MCR-04-21		10-27-21	0810	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1		X		
FME-WTR-MCR-04-21		10-27-21	0810	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1		X		
FME-WTR-MCR-04-21		10-27-21	0810	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1		X		
Equipment Blank	211001056	10-27-21	0810	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1		X		
Relinquished By: (Signature and Printed Name) <u>Jason Barrett</u>				Received By: (Signature and Printed Name) <u>Harden Kelly</u>				Date		Time	Custody Seals:		
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Date		Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>		
Relinquished By: (Signature and Printed Name) <u>Harden Kelly</u>				Received for Lab By: (Signature and Printed Name) <u>Janet</u>				Date		Time	Unaround: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Special <input type="checkbox"/>		
Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Date		Time	Were samples properly preserved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		
Comments:				Field Test				Date		Time	Result		
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Ti(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.IMD				Analyst:				Date		Time	Result		Units
				Time:				Date		Time	Result		Units
				Reading:				Date		Time	Result		Units
				Units:				Date		Time	Result		Units
				Chlorinated? Y N				Date		Time	Result		Units
				Fecal Start:				Date		Time	Result		Units

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Control Number: 2102010055
Customer Name: NORTH LITTLE ROCK-MAUMELLE INF
Customer/Permit No.: 3720 / AR0020303
Report Date: 03/08/21
Composite Date: 02/01/21 -02/02/21
Sample Time: 0910-0910/0910(02/02
Sample Type: COMP/GRAB WWATER
Sample From: MMI-WTR-MCR-Q1-21
Collected By: JASON BARRETT
Delivery By: WGW
Work Order:
Purchase Order:

Laboratory Analysis

Analysis		Parameter		Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By						% RPD	% Recovery
02/10	1340	KNM	Beryllium	< 0.0040	mg/L		EPA 200.8	2.29	112.3 *
02/10	0350	NTR	Cyanide Total (HACH 10265	0.0340	mg/L		SM 1999 4500-CN E	2.99	106.7 *
02/11	0330	NTR	Phenolics	0.15	mg/L		EPA 420.1	3.39	94.8 *
02/10	1340	KNM	Chromium	< 0.0060	mg/L		EPA 200.8	1.55	111.2 *
02/08	1159	KNM	Nickel	0.0459	mg/L		EPA 200.8	0.95	111.1 *
02/10	1340	KNM	Copper	0.0374	mg/L		EPA 200.8	0.97	108.3 *
02/10	1340	KNM	Zinc	0.1471	mg/L		EPA 200.8	9.49	112.6 *
02/10	1340	KNM	Arsenic	< 0.0070	mg/L		EPA 200.8	3.60	103.8 *
02/10	1340	KNM	Selenium	0.0153	mg/L		EPA 200.8	10.37	101.9 *
02/10	1340	KNM	Molybdenum	0.0206	mg/L		EPA 200.8	0.63	114.2 *
02/10	1340	KNM	Silver	0.0070	mg/L		EPA 200.8	6.51	83.9 *
02/10	1340	KNM	Cadmium	< 0.0064	mg/L		EPA 200.8	4.00	109.1 *
02/13	1206	KNM	Mercury	< 0.0010	mg/L		EPA 245.1	5.69	86.4 *
02/10	1340	KNM	Antimony	0.0106	mg/L		EPA 200.8	0.14	97.0 *
02/10	1340	KNM	Thallium	< 0.0040	mg/L		EPA 200.8	1.35	91.9 *
02/08	1159	KNM	Lead	1.0437	mg/L		EPA 200.8	0.01	96.9 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
Environmental Services Co., Inc.

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Environmental Services Company, Inc.
 Corporate Office
 13715 West Markham P.O. Box 55146
 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.esclabs.com

Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters					
Company Name: North Little Rock WWU/Maumelle				Permit/Project #: <u>210229</u>									
Address: P.O. Box 17898				Purchase Order #: <u>210229</u>									
Telephone: North Little Rock, AR 72117				Work Order #									
FAX: 501-945-7186				Sampler Name(s): <u>Jason Barnett</u>									
Contact: 501-945-2367				and Signature(s): <u>Bryan Croft</u>									
ESC Client Number: 3720 Influent Quarterly													
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	Phenols (24)	Metals (See Comments)	
MME-WTR-MCR-0121	2102010055	2/2/21	0910	Grab	Wwater	Plastic	8 oz ✓	NaOH+Asc Acid	1	X			
MME-WTR-MCR-0121	↓	2/2/21	0910	Grab	Wwater	Glass	1 Liter ✓	CuSO4+H2SO4	1		X		
MME-WTR-MCR-0121	21-	2/2/21	0910	composite	Wwater	Plastic	8 oz ✓	HNO3	1		X		
Requested By: (Signature and Printed Name) <u>Jason Barnett</u>				Received for Lab By: (Signature and Printed Name) <u>William Wilcox</u>				Date: 2/2/21				Time: 1400	
Requested By: (Signature and Printed Name) <u>Jason Barnett</u>				Received By: (Signature and Printed Name) <u>William Wilcox</u>				Date: 2/2/21				Time: 1400	
Requested By: (Signature and Printed Name) <u>William Wilcox</u>				Received for Lab By: (Signature and Printed Name) <u>William Wilcox</u>				Date: 2/2/21				Time: 1400	
Cool all samples to 5-6 degrees C with ice.				Flow Data				Field Test				Result	
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Tl(81.HW), Pb(82.HW), Hg (50.15)				Analyst: <u>William Wilcox</u>				Time: <u>1400</u>				Units: <u>µg/L</u>	
Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.MD				Reading: <u>1400</u>				Time: <u>1400</u>				Units: <u>µg/L</u>	
Chlorinated? Y N				Fecal Start:				Result				Units	
This Document is Page <u>1</u> of <u>1</u>													

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2102010053 Composite Date: 02/01/21 -02/02/21 Collected By: JASON BARRETT
 Customer Name: NORTH LITTLE ROCK-MAUMELLE EFF Sample Time: 0920-0920/0920(02/02 Delivery By: WGW
 Customer/Permit No.: 3719 / AR0020303 Sample Type: COMP/GRAB WWATER Work Order:
 Report Date: 03/08/21 Sample From: MME-WTR-MCR-Q1-21 Purchase Order:

Laboratory Analysis

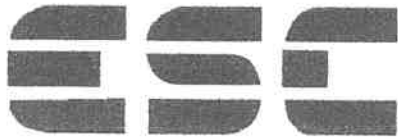
Analysis Date	Time By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
							% RPD	% Recovery
02/10	1324	Beryllium	< 3.6960 ug/L			EPA 200.8	2.29	112.3 *
02/10	0350	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 1999 4500-CN E	2.99	106.7 *
02/16	1244	Mercury, low level	4.040 ug/L			EPA 1631E	1.48	93.0
03/02	1015	Total Kjeldahl Nitrogen	26.2 mg/L			02/2014 HACH 10242	1.70	108.0 *
02/11	0330	Phenolics, Low Range	0.011 mg/L			EPA 420.1	10.53	91.0 *
02/10	1324	Chromium	< 5.97 ug/L			EPA 200.8	1.55	111.2 *
02/08	1030	Phosphorus, Total (as P)	2.160 mg/L			HACH 10209	1.93	102.0 *
02/05	1551	Solids, Total Dissolved	82.4 mg/L			SM1997 2540 C	7.07	N/A *
02/08	1143	Nickel	< 6.37 ug/L			EPA 200.8	0.95	111.1 *
02/10	1324	Copper	< 6.96 ug/L			EPA 200.8	0.97	108.3 *
02/10	1324	Zinc	42.42 ug/L			EPA 200.8	9.49	112.6 *
02/10	1324	Arsenic	< 7.03 ug/L			EPA 200.8	3.60	103.8 *
02/10	1324	Selenium	14.93 ug/L			EPA 200.8	10.37	101.9 *
02/10	1324	Molybdenum	18.23 ug/L			EPA 200.8	0.63	114.2 *
02/10	1324	Silver	6.2 ug/L			EPA 200.8	6.45	83.9 *
02/08	1143	Cadmium	1312.9000 ug/L			EPA 200.8	0.08	94.1 *
02/10	1324	Antimony	9.65 ug/L			EPA 200.8	0.14	97.0 *
02/10	1324	Thallium	< 4.000 ug/L			EPA 200.8	1.07	91.9 *
02/08	1143	Lead	1043.7500 ug/L			EPA 200.8	0.01	96.9 *
02/09	0920	Nitrate + Nitrite	1.84 mg/L			HACH 10206	8.16	100.0 *

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Signature Jason Barrett
 Environmental Services Co., Inc.

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Environmental Services Company, Inc.

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501-221-1341 (f)

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Springdale, Arkansas
479-750-1170
www.esclabs.com

LABORATORY REPORT

Client:	North Little Rock WWU/Maumelle	Sample Date:	02/02/21
Control Number:	2102010053/2102020153	Receipt Date:	02/02/21
Sample Type:	Grab - W. Water	Report Date:	03/01/21
Sample Identification	MME-WTR-MCR-Q1-21		

CHLORINATED PESTICIDES (µg/L or ppb)

<u>Analyte</u>	<u>Result</u>	<u>Detection Limit</u>
Chlorpyrifos	ND	0.04

QUALITY ASSURANCE DATA

Method:	EPA 8081A	
<u>System Monitoring Compounds</u>	<u>% Recovery</u>	<u>% Recovery Limits</u>
2,4,5,6-Tetrachloro-m-xylene	65.8%	35-138

Analysis Date:	2/17/2021
Analysis Time:	20:36
Analyst:	TWM

Laboratory control samples were monitored for all analytes of interest.

Digitally signed by Tyler Meek
 DN: cn=Tyler Meek, o=Environmental Services
 Company, ou, email=tylerm@esclabs.com, c=US
 Date: 2021.03.01 12:57:32 -06'00'

Data Release authorized by:

Tyler W. Meek - Lab Manager

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2102010054
Customer Name: NORTH LITTLE ROCK-MAUMELLE EFF
Customer/Permit No.: 3719 / AR0020303
Report Date: 02/24/21
Sample Date: 02/02/21
Sample Time: 0920
Sample Type: GRAB WWATER
Sample From: EQUIPMENT BLANK

Collected By: JASON BARRETT
Delivery By: GW
Work Order:
Purchase Order:

Laboratory Analysis

Analysis					
Date	Time	By	Parameter	Result	Notes
02/16	1249	AZ	Mercury, low level	2.250 ng/L	
				Quantity	Method
					EPA 1631E
				Quality Assurance	
				Precision	Accuracy
				% RPD	% Recovery
				1.48	93.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature Jason Barrett
Environmental Services Co., Inc.

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 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477



CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters					
Client: North Little Rock WWU/Maumelle				Permit/Project #: <u>210229</u>				Chlorophytos (99.PC) 1st quarter only					
Address: P.O. Box 17898				Purchase Order #:				Metals (See Comments)					
Phone: North Little Rock, AR 72117				Work Order #:				Phenols (2,2)					
Fax: 501-945-7186				Sampler Name(s): <u>Jason Barrett</u>				Cyanide (9)					
Contact: 501-945-2367				and Signature(s): <u>Jason Barrett</u>				TKN (16.C), NO2+NO3(91), Total P(25)					
ESC Client Number: 3719 Effluent Quarterly-1st								Mercury (16.31)					
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
MME-WTR-MCR-Q1-21	2102010053	2/2/21	0920	Grab	Wwater	Plastic	8 oz	NaOH+Ac Acid	1	X			
MME-WTR-MCR-Q1-21		2/2/21	0920	Grab	Wwater	Glass	1 Liter	H2SO4+H2SO4	1	X			
MME-WTR-MCR-Q1-21	21	2/2/21	0920	Composite	Wwater	Plastic	8 oz	HNO3	1		X		
MME-WTR-MCR-Q1-21		2/2/21	0920	Grab	Wwater	Amb Gl	1 Liter	None	1		X		
MME-WTR-MCR-Q1-21		2/2/21	0920	Grab	Wwater	Plastic	8 oz	None	1			X	
MME-WTR-MCR-Q1-21		2/2/21	0920	Grab	Wwater	Plastic	8 oz	H2SO4	1				X
MME-WTR-MCR-Q1-21	21	2/2/21	0920	Composite	Wwater	Amb Gl	250 ml	HCl	1				X
Equipment Blank	2102010054	2/2/21	0920	Grab	Wwater	Amb Gl	250 ml	HCl	1				X
Requisitioned By: (Signature and Printed Name) <u>Jason Barrett</u>				Received By: (Signature and Printed Name) <u>William Wilcox</u>				Date 2/2/21					
Requisitioned By: (Signature and Printed Name) <u>Jason Barrett</u>				Received By: (Signature and Printed Name) <u>William Wilcox</u>				Date 2/2/21					
Requisitioned By: (Signature and Printed Name) <u>William Wilcox</u>				Received By: (Signature and Printed Name) <u>William Wilcox</u>				Date 2/2/21					
Cool all samples to 5 degrees C with ice.				Flow Data				Field Test					
Comments: Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)				Analyst: <u>William Wilcox</u>				Time					
				Time: <u>11:00</u>				Time					
				Reading: <u>11:00</u>				Time					
				Units: <u>11:00</u>				Time					
				Chlorinated? Y N				Fecal Start.					
				This Document is Page <u>1</u> of <u>1</u>									

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Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010069
 Customer Name: NORTH LITTLE ROCK-MAUMELLE INF
 Customer/Permit No.: 3720 / AR00020303
 Report Date: 05/20/21
 Composite Date: 05/04/21 -05/05/21
 Sample Time: 0835-0835/0835
 Sample Type: COMP/GRAB WWATER
 Sample From: MMI-WTR-MCR-Q2-21
 Collected By: JASON BARRETT
 Delivery By: JGK
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance				
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/10	1924	KNM	Beryllium	< 0.0500 mg/L			EPA 200.8	3.20	111.4 *
05/13	0400	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.29	100.1 *
05/13	0550	NTR	Phenolics	0.12 mg/L			EPA 420.1	3.39	89.9 *
05/10	1924	KNM	Chromium	< 0.02000 mg/L			EPA 200.8	2.79	112.1 *
05/10	1924	KNM	Nickel	0.02360 mg/L			EPA 200.8	1.01	110.4 *
05/10	1924	KNM	Copper	0.0236 mg/L			EPA 200.8	2.17	110.0 *
05/10	1924	KNM	Zinc	0.1982 mg/L			EPA 200.8	6.57	103.6 *
05/10	1924	KNM	Arsenic	< 0.0100 mg/L			EPA 200.8	0.56	97.9 *
05/10	1924	KNM	Selenium	< 0.0150 mg/L			EPA 200.8	0.73	98.2 *
05/10	1924	KNM	Molybdenum	< 0.0500 mg/L			EPA 200.8	3.05	117.8 *
05/10	1924	KNM	Silver	< 0.12000 mg/L			EPA 200.8	1.82	99.3 *
05/10	1924	KNM	Cadmium	< 0.02000 mg/L			EPA 200.8	0.84	107.3 *
05/20	1207	AA	Mercury	< 0.0002 mg/L			EPA 245.1	2.49	96.9 *
05/10	1924	KNM	Antimony	< 0.0100 mg/L			EPA 200.8	1.73	96.1 *
05/10	1924	KNM	Thallium	< 0.0500 mg/L			EPA 200.8	2.04	95.4 *
05/10	1924	KNM	Lead	0.01280 mg/L			EPA 200.8	2.90	95.2 *

* QA data shown is from a different sample or standard on the same date.

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Signature



Environmental Services Co., Inc.

Corrected Copy

JNT

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Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters							
Company Name: North Little Rock WWU/Maumelle				Permit/Project #: 210807				Metals (See Comments)							
Address: P.O. Box 17898				Purchase Order #: 210807				Cyanide (9)							
Telephone: North Little Rock, AR 72117				Work Order #				Phenols (24)							
FAX: 501-945-7186				Sampler Name(s): Jason Bennett				X							
Contact: Ms. Marybeth Eggleston				and Signature(s): Bryan Craft				X							
ESC Client Number: 3720 Influent Quarterly								X							
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
MME-WTR-MCR-02-21	210501000M	5-5-21	0835	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1						
MME-WTR-MCR-02-21	210501000M	5-5-21	0835	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1						
MME-WTR-MCR-02-21	210501000M	5-5-21	0835	Composite	Wwater	Plastic	8 oz	HNO3	1						
Received By: (Signature and Printed Name) Jason Bennett				Date	Time	Received From Lab By: (Signature and Printed Name) K. W. Keeney				Date	Time	Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input checked="" type="checkbox"/>			
Received By: (Signature and Printed Name) K. W. Keeney				5-5-21	0835	Received By: (Signature and Printed Name) Kristin Mullins				5/5/21	1610	Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/> Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) 1(8T.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Flow Data				Field Test				Result		Units	
Cool all samples to 5 to 6 degrees C with ice.				Analyt: Time:				Units:				Chlorinated? Y N		Fecal Start:	
														This Document is Page 1 of 1	

BXW

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010067
 Customer Name: NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit No.: 3719 / AR0020303
 Report Date: 05/27/21
 Composite Date: 05/04/21 -05/05/21
 Sample Time: 0840-0840/0840
 Sample Type: COMP/GRAB WWATER
 Sample From: MME-WTR-MCR-Q2-21
 Collected By: JASON BARRETT
 Delivery By: JGK
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/10	1919 KNM	Beryllium	< 50.00 ug/L			EPA 200.8	3.20	111.4 *
05/13	0400 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.29	100.1 *
05/25	1003 TA	Mercury, low level	2.940 ug/L			EPA 1631E	0.00	100.0 *
05/13	0550 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	0.00	100.0 *
05/10	1919 KNM	Chromium	< 20.00 ug/L			EPA 200.8	2.79	112.1 *
05/10	1919 KNM	Nickel	< 20.00 ug/L			EPA 200.8	1.01	110.4 *
05/10	1919 KNM	Copper	< 20.00 ug/L			EPA 200.8	2.17	110.0 *
05/10	1919 KNM	Zinc	137.00 ug/L			EPA 200.8	6.57	103.6 *
05/10	1919 KNM	Arsenic	< 10.00 ug/L			EPA 200.8	0.56	97.9 *
05/10	1919 KNM	Selenium	< 15.00 ug/L			EPA 200.8	0.73	98.2 *
05/10	1919 KNM	Molybdenum	< 50.00 ug/L			EPA 200.8	3.05	91.1 *
05/10	1919 KNM	Silver	< 120.0 ug/L			EPA 200.8	1.80	99.3 *
05/10	1919 KNM	Cadmium	< 20.00 ug/L			EPA 200.8	0.84	107.3 *
05/10	1919 KNM	Antimony	< 10.00 ug/L			EPA 200.8	1.73	96.1 *
05/10	1919 KNM	Thallium	< 50.000 ug/L			EPA 200.8	2.04	95.4 *
05/10	1919 KNM	Lead	< 10.00 ug/L			EPA 200.8	2.90	95.2 *
05/18	1531 EJD	Nitrate + Nitrite	1.65 mg/L			HACH 10206	0.12	102.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010068
 Customer Name : NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit No. : 3719 / AR0020303
 Report Date : 05/27/21

Sample Date : 05/04/21
 Sample Time : 0840
 Sample Type : GRAB WWATER
 Sample From : EQUIPMENT BLANK

Collected By: JASON BARRETT
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis

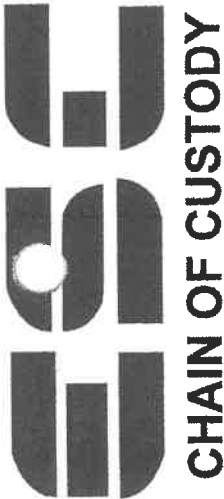
<u>Analysis</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	
05/25	1007	TA	
<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>
Mercury, low level	0.820 ng/L		
			<u>Method</u>
			EPA 1631E
			<u>Quality Assurance</u>
			<u>Precision</u>
			<u>% RPD</u>
			0.00
			<u>Accuracy</u>
			<u>% Recovery</u>
			100.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

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Springdale, Arkansas
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 575-887-1372
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 888-372-3477

Client Information				Project Information				Requested Parameters							
Company Name: North Little Rock WWU/Maumelle				Permit/Project #: <u>210807</u>				Metals (See Comments)							
Address: P.O. Box 17898				Purchase Order #: <u>210807</u>				Phenols (24.2) <u>KMM</u>							
Telephone: North Little Rock, AR 72117				Work Order #				Cyanide (9) <u>X</u>							
FAX: 501-945-7186				Sampler Name(s): <u>Jason Burnett</u>				NO ₂ +NO ₃ (91), Total P(25) <u>KMM</u>							
Contact: Ms. Marybeth Eggleston				and Signature(s): <u>Bryan Craft</u>				Mercury(16.31) <u>N03, NO2 KMM</u>							
ESC Client Number: 3719 Effluent Quarterly															
Sample Identification		Sample Collection		Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
MME-WTR-MCR-0221	2105010007	5-5-21	0840	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1						
MME-WTR-MCR-0221	2105010007	5-5-21	0840	Grab	Wwater	Glass	1 Liter	CUSO ₄ +H ₂ SO ₄	1	X					
MME-WTR-MCR-0221	2105010007	5-5-21	0840	Grab	Wwater	Plastic	8 oz	H ₂ SO ₄	1		X				
MME-WTR-MCR-0221	2105010007	5-5-21	0840	Composite	Wwater	Plastic	8 oz	HNO ₃ to pH <2	1		X				
MME-WTR-MCR-0221	2105010007	5-5-21	0840	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1		X				
Equipment Blank	2105010008	5-5-21	0840	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1		X				
Reimbursed By: (Signature and Printed Name) <u>Jason Burnett</u> Date <u>5-5-21</u> Time <u>1400</u> Custody Seals: Used? <u>N</u> Intact? <input type="checkbox"/> Reimbursed By: (Signature and Printed Name) <u>Jason Burnett</u> Date <u>5-5-21</u> Time <u>1400</u> Custody Seals: Used? <u>N</u> Intact? <input type="checkbox"/> Reimbursed By: (Signature and Printed Name) <u>Jason Burnett</u> Date <u>5-5-21</u> Time <u>1400</u> Custody Seals: Used? <u>N</u> Intact? <input type="checkbox"/> Reimbursed By: (Signature and Printed Name) <u>Jason Burnett</u> Date <u>5-5-21</u> Time <u>1400</u> Custody Seals: Used? <u>N</u> Intact? <input type="checkbox"/>															
Comments: Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Pb(82.PS), Sb(51.PS), Mo(42.PS), Se(34.PS), Zn(30.PS)				Received for Lab By: (Signature and Printed Name) <u>Kristen Muller</u> Date <u>5/5/21</u> Time <u>11:00</u>				Field Test				Result			
tests updated per chain of bid 5/7/21 KMM				Received By: (Signature and Printed Name) <u>Jason Burnett</u> Date <u>5-5-21</u> Time <u>1400</u>				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Result			
				Analyst: <u>Kristen Muller</u>				Time				Units			
				Reading: <u>00.MD</u>				Time				Units			
				Units:				Time				Units			
				Fecal Stat:				Time				Units			
				This Document is Page <u>1</u> of <u>1</u>				Time				Units			

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Control Number: 2108010060
 Customer Name: NORTH LITTLE ROCK-MAUMELLE INF
 Customer/Permit No.: 3720 / AR00020303
 Report Date: 08/19/21
 Composite Date: 08/09/21 -08/10/21
 Sample Time: 0840-0840/0840(8/10)
 Sample Type: COMP/GRAB WWATER
 Sample From: MMI-WTR-MLR-Q3-21
 Collected By: JASON BARRETT/B
 Delivery By: DMP
 Work Order:
 Purchase Order: 211470

Laboratory Analysis

Analysis		Laboratory Analysis		Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/18	0710 NTR	Beryllium	< 0.0500 mg/L		EPA 200.8		0.65	104.1 *
08/11	0350 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L		SM 2011 4500-CN E		3.67	109.0 *
08/16	0430 NTR	Phenolics	0.10 mg/L		EPA 420.1		3.39	98.2 *
08/18	0710 NTR	Chromium	< 0.0200 mg/L		EPA 200.8		0.84	116.3 *
08/18	0710 NTR	Nickel	< 0.0200 mg/L		EPA 200.8		1.24	110.3 *
08/18	0710 NTR	Copper	0.0705 mg/L		EPA 200.8		4.55	111.4 *
08/18	0710 NTR	Zinc	0.2766 mg/L		EPA 200.8		3.45	105.9 *
08/18	0710 NTR	Arsenic	< 0.0100 mg/L		EPA 200.8		1.07	104.9 *
08/18	0710 NTR	Selenium	< 0.0150 mg/L		EPA 200.8		0.04	88.0 *
08/18	0710 NTR	Molybdenum	< 0.0500 mg/L		EPA 200.8		2.57	88.8 *
08/18	0710 NTR	Silver	< 0.1200 mg/L		EPA 200.8		1.10	109.6 *
08/18	0710 NTR	Cadmium	< 0.0200 mg/L		EPA 200.8		1.89	92.3 *
08/12	1030 NTR	Mercury	< 0.0050 mg/L		EPA 245.1		2.02	78.2 *
08/18	0710 NTR	Antimony	< 0.0100 mg/L		EPA 200.8		1.09	84.8 *
08/18	0710 NTR	Thallium	< 0.0500 mg/L		EPA 200.8		1.30	120.0 *
08/18	0710 NTR	Lead	0.0273 mg/L		EPA 200.8		1.21	117.4 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
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CHAIN OF CUSTODY

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Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters							
Company Name: North Little Rock WWU/Maumelle				Permit/Project #:											
Address: P.O. Box 17898				Purchase Order #:											
North Little Rock, AR 72117				Work Order #											
Telephone: 501-945-7186				Sampler Name(s):											
FAX: 501-945-2367				and Signature(s):											
Contact: Ms. Marybeth Eggleston															
ESC Client Number: 3720 Influent Quarterly															
Sample Identification		Sample Collection		Sample Containers		Cyanide (9)		Phenols (24)		Metals (See Comments)					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Type	Preservative	#					
MMI-WTR-MCR-Q3-21	2108010060	8/10/21	0840	Grab	Wwater	Plastic	8 oz	✓	NaOH+Asc Acid	1	X				
MMI-WTR-MCR-Q3-21		8/10/21	0840	Grab	Wwater	Glass	1 Liter		CuSO4+H2SO4	1	X				
MMI-WTR-MCR-Q3-21		8/10/21	0840	Composite	Wwater	Plastic	8 oz		HNO3	1	X				
Received By: (Signature and Printed Name) <i>Jason Barrett</i> Date: 8/10/21 Time: 1410 Received By: (Signature and Printed Name) <i>Jason Barrett</i> Date: 8/10/21 Time: 1410 Received for Lab By: (Signature and Printed Name) <i>Jason Barrett</i> Date: 8/10/21 Time: 1628 Cool all samples to ≤ 5 degrees C with ice.															
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Tl(81.HW), Pb(82.HW), Hg(50.15), Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.MD				Analyst: <i>Jason Barrett</i>				Field Test				Time: 1628			
				Time:				Time: 1628				Time: 1628			
Units:				Units:				Units:				Units:			
Chlorinated? Y N				Fecal Start:				Result				Result			
This Document is Page <u>1</u> of <u>1</u>															

BSX

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Northwest Arkansas Branch
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Control Number: 2108010058
 Customer Name : NORTH LITTLE ROCK-WAUMELLE EFF
 Customer/Permit No. : 3719 / AR0020303
 Report Date : 08/26/21
 Composite Date: 08/09/21 -08/10/21
 Sample Time : 0850-0850/0850(8/10)
 Sample Type : COMP/GRAB WWATER
 Sample From : MME-WTR-MLR-Q3-21
 Collected By: JASON BARRETT/B
 Delivery By : DMP
 Work Order :
 Purchase Order : 211470

Laboratory Analysis

Analysis		Result		Notes		Quantity		Method		Quality Assurance	
Date	Time By	Parameter	Result	Notes	Quantity	Method	% RPD	Accuracy	% Recovery		
08/18	0710 NTR	Beryllium	< 50.00 ug/L			EPA 200.8	0.65	104.1			
08/11	0350 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.67	109.0	*		
08/25	1242 ACZ	Mercury, low level	5.420 ng/L			EPA 1631E	0.00	86.0	*		
08/19	1113 BXW	Nitrate Nitrogen	0.0540 mg/L			HACH 10206	0.84	101.0	*		
08/10	1651 BXW	Nitrite Nitrogen	< 2.0000 mg/L			EPA 354.1	0.00	99.6	*		
08/16	0430 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	11.11	91.5	*		
08/18	0710 NTR	Chromium	< 20.00 ug/L			EPA 200.8	0.84	116.3			
08/16	1235 NTR	Phosphorus, Total (as P)	2.820 mg/L			EPA 365.1	0.65	97.4	*		
08/18	0710 NTR	Nickel	< 20.00 ug/L			EPA 200.8	1.24	110.3			
08/18	0710 NTR	Copper	< 20.00 ug/L			EPA 200.8	4.55	111.4			
08/18	0710 NTR	Zinc	123.34 ug/L			EPA 200.8	3.45	105.9			
08/18	0710 NTR	Arsenic	< 10.00 ug/L			EPA 200.8	1.07	104.9			
08/18	0710 NTR	Selenium	< 15.00 ug/L			EPA 200.8	0.04	88.0			
08/18	0710 NTR	Molybdenum	< 50.00 ug/L			EPA 200.8	2.57	88.8			
08/18	0710 NTR	Silver	< 120.0 ug/L			EPA 200.8	0.64	109.6			
08/18	0710 NTR	Cadmium	< 20.00 ug/L			EPA 200.8	1.89	92.3			
08/18	0710 NTR	Antimony	10.62 ug/L			EPA 200.8	1.09	84.8			
08/18	0710 NTR	Thallium	< 50.000 ug/L			EPA 200.8	1.30	120.0			
08/18	0710 NTR	Lead	21.62 ug/L			EPA 200.8	1.21	117.4			

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
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Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Springdale, AR 72762
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Control Number: 2108010059 Sample Date : 08/10/21 Collected By: JASON BARRETT/B
 Customer Name : NORTH LITTLE ROCK-MAUMELLE EFF Sample Time : 0850 Delivery By : DMP
 Customer/Permit No. : 3719 / AR0020303 Sample Type : GRAB WATER Work Order :
 Report Date : 08/26/21 Sample From : EQUIPMENT BLANK Purchase Order : 211470

Laboratory Analysis			
Analysis	Parameter	Result	Notes
Date 08/25 1247 ACZ	Mercury, low level	1.270 ng/L	
		EPA 1631E	Method

Quality Assurance	
Precision	Accuracy
% RPD	% Recovery
0.00	86.0 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
 Environmental Services Co., Inc.

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CHAIN OF CUSTODY

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 888-372-3477

Client Information				Project Information				Requested Parameters							
Company Name:	North Little Rock WWU/Maumelle			Permit/Project #:	211470			Phenols (24,2)				NO3(18), Total P(25)			
Address:	P.O. Box 17898			Purchase Order #:				Cyanide (9)				NO2(19)			
Telephone:	North Little Rock, AR 72117			Work Order #								Metals (See Comments)			
FAX:	501-945-7186			Sampler Name(s):	Jason Barrett							Mercury(16,31)			
Contact:	501-945-2367			and Signature(s):	Bryan Craft										
ESC Client Number:	3719 Effluent Quarterly				Jason Barrett										
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
MME-WTR-MCR-03-21	2108010058	8/10/21	0850	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
MME-WTR-MCR-03-21		8/10/21	0850	Grab	Wwater	Glass	1 Liter	H2SO4	1		X				
MME-WTR-MCR-03-21		8/10/21	0850	Grab	Wwater	Plastic	8 oz	H2SO4	1			X			
MME-WTR-MCR-03-21		8/10/21	0850	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1				X		
MME-WTR-MCR-03-21		8/10/21	0850	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X		
MME-WTR-MCR-03-21		8/10/21	0850	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1					X	
Equipment Blank	2108010059	8/10/21	0850	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1						X
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Custody Seal:							
Bryan Craft				David Lee Dwyer PIERCE				Used? <input checked="" type="checkbox"/>				Intact? <input type="checkbox"/>			
Date: 8/10/21				Date: 8/10/21				Time: 1410				Time: 1410			
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Regular				Special			
David Lee Dwyer PIERCE				Jason Barrett				<input checked="" type="checkbox"/>				<input type="checkbox"/>			
Date: 08/10/21				Date: 08/10/21				Time: 1628				Time: 1628			
Were samples properly preserved:				Field Test				Result				Units			
Yes <input checked="" type="checkbox"/>				No <input type="checkbox"/>											
Comments: Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)				Analyst:											
Tl(81.PS), Pb(82.PS),				Time:											
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Reading:											
				Units:											
				Fecal Start:											
This Document is Page ___ of ___															

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Control Number: 2110010061
Customer Name : NORTH LITTLE ROCK-MAUMELLE INF
Customer/Permit No. : 3720 / AR00020303
Report Date : 11/19/21
Composite Date: 10/26/21 -10/27/21
Sample Time : 0845-0845 0845
Sample Type : COMP/GRAB WATER
Sample From : MMI-WTR-MCR-Q4-21

Collected By: JASON BARRETT
Delivery By : HMK
Work Order :
Purchase Order :

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								Precision & RPD	Accuracy & Recovery
10/28	1320	NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	6.70	108.7 *
10/29	0400	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	4.44	112.5 *
10/29	0515	NTR	Phenolics	0.20 mg/L			EPA 420.1	1.60	98.4 *
10/28	1320	NTR	Chromium	< 0.0200 mg/L			EPA 200.8	2.53	109.2 *
10/28	1320	NTR	Nickel	0.0310 mg/L			EPA 200.8	1.18	88.6 *
10/28	1320	NTR	Copper	0.0670 mg/L			EPA 200.8	9.46	104.3 *
10/28	1320	NTR	Zinc	0.2280 mg/L			EPA 200.8	10.89	79.9 *
10/28	1320	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	3.76	98.7 *
10/28	1320	NTR	Selenium	< 0.0150 mg/L			EPA 200.8	2.85	96.1 *
10/28	1320	NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	9.28	81.4 *
10/28	1320	NTR	Silver	< 0.1200 mg/L			EPA 200.8	0.77	80.3 *
10/28	1320	NTR	Cadmium	< 0.0100 mg/L			EPA 200.8	2.20	111.9 *
11/01	1130	NTR	Mercury	< 0.0050 mg/L			EPA 245.1	2.67	94.5 *
10/28	1320	NTR	Antimony	< 0.0100 mg/L			EPA 200.8	4.24	74.7 *
10/28	1320	NTR	Thallium	< 0.0500 mg/L			EPA 200.8	7.86	112.6 *
10/28	1320	NTR	Lead	0.0630 mg/L			EPA 200.8	0.73	89.3 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
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CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters			
Company Name:		North Little Rock WWU/Maumelle		Permit/Project #:		21202K					
Address:		P.O. Box 17898 North Little Rock, AR 72117		Purchase Order #:							
Telephone:		501-945-7186		Work Order #:							
FAX:		501-945-2367		Sampler Name(s):		Jason Barnett Bryan Craft James Barnett					
Contact:		Ms. Marybeth Eggleston		and Signature(s):							
ESC Client Number:		3720 Influent Quarterly									
Sample Identification		Sample Collection		Sample Containers		Cyanide (9)		Phenols (24)		Metals (See Comments)	
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#		
MPI-WTR-MCR-012	211001006	10-27-21	0845	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X	
MPI-WTR-MCR-012		10-27-21	0845	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1	X	
MPI-WTR-MCR-012		10-27-21	0845	Composite	Wwater	Plastic	8 oz	HNO3	1	X	
Relinquished By: (Signature and Printed Name) <i>Jason Barnett</i> Date: 10-27-21 Time: 1448 Received By: (Signature and Printed Name) <i>Harolden Kelly</i> Date: 10/27/21 Time: 1448 Relinquished By: (Signature and Printed Name) <i>Harolden Kelly</i> Date: 10/27/21 Time: 1700 Received By: (Signature and Printed Name) <i>James Barnett</i> Date: 10/28/21 Time: 6:39 Cool all samples to ≤ 6 degrees C with ice.											
Comments:		Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Tl(51.HW), Pb(82.HW), Hg(50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD		Flow Data		Field Test		Result		Units	
		Analyt:		Chlorinated? Y N		Fecal Start:					
		Time:									
		Reading:									
		Units:									
This Document is Page 1 of 1											

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Control Number: 2110010059 Composite Date: 10/26/21 -10/27/21 Collected By: JASON BARRETT
 Customer Name : NORTH LITTLE ROCK-MAUMELLE EFF Sample Time : 0855-0855/0855(10/27 Delivery By : JASON BARRETT
 Customer/Permit No. : 3719 / AR0020303 Sample Type : COMP/ GRAB WATER Work Order :
 Report Date : 11/26/21 Sample From : MME-WTR-MCR-Q4-21 Purchase Order :

Laboratory Analysis				Quality Assurance						
Date	Time	By	Parameter	Result	Notes	Quantity	Method	% RPD	Accuracy	% Recovery
10/28	1320	NTR	Beryllium	< 50.00	ug/L		EPA 200.8	4.44	107.7	*
10/29	0400	NTR	Cyanide Total (HACH 10265	< 0.0100	mg/L		SM 2011 4500-CN E	4.44	112.5	*
11/12	1203	ACZ	Mercury, low level	1.380	ng/L		EPA 1631E	0.00	84.0	*
10/28	0550	NTR	Nitrate Nitrogen	0.9220	mg/L		HACH 10206	0.51	103.8	*
10/28	0515	NTR	Nitrite Nitrogen	0.8080	mg/L		EPA 354.1	1.21	98.2	*
10/29	0515	NTR	Phenolics, Low Range	0.007	mg/L		EPA 420.1	2.41	101.2	*
10/28	1320	NTR	Chromium	< 20.00	ug/L		EPA 200.8	2.53	109.2	*
11/04	1040	NTR	Phosphorus, Total (as P)	1.300	mg/L		EPA 365.1	0.89	99.8	*
10/28	1320	NTR	Nickel	< 20.00	ug/L		EPA 200.8	1.18	88.6	*
10/28	1320	NTR	Copper	< 20.00	ug/L		EPA 200.8	9.46	104.3	*
10/28	1320	NTR	Zinc	96.07	ug/L		EPA 200.8	10.89	79.9	*
10/28	1320	NTR	Arsenic	< 10.00	ug/L		EPA 200.8	3.76	98.7	*
10/28	1320	NTR	Selenium	< 15.00	ug/L		EPA 200.8	2.85	96.1	*
10/28	1320	NTR	Molybdenum	< 50.00	ug/L		EPA 200.8	9.28	81.4	*
10/28	1320	NTR	Silver	< 120.0	ug/L		EPA 200.8	0.77	80.3	*
10/28	1320	NTR	Cadmium	< 20.00	ug/L		EPA 200.8	2.20	111.9	*
10/28	1320	NTR	Antimony	< 10.00	ug/L		EPA 200.8	4.24	74.7	*
10/28	1320	NTR	Thallium	< 50.000	ug/L		EPA 200.8	7.86	112.6	*
10/28	1320	NTR	Lead	< 10.00	ug/L		EPA 200.8	0.73	89.3	*

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature



Environmental Services Co., Inc.

Handwritten initials

Environmental Services Company, Inc.

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 Tel. (501)221-2565 Fax (501)221-1341


Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2110010060
 Customer Name : NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit No. : 3719 / AR0020303
 Report Date : 11/26/21
 Sample Date : 10/28/21
 Sample Time : 0855
 Sample Type : GRAB WATER
 Sample From : EQUIPMENT BLANK
 Collected By: JASON BARRETT
 Delivery By : JASON BARRETT
 Work Order :
 Purchase Order :

Laboratory Analysis			
Analysis Date	Time	BY	Method
11/12	1208	ACZ	EPA 1631E
Parameter		Result	Notes
Mercury, low level		< 0.300 ng/L	Quantity
			Method
			EPA 1631E
			Quality Assurance
		Precision	Accuracy
		% RPD	% Recovery
		0.00	84.0 *

* QA data shown is from a different sample or standard on the same date.

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 Signature
 Environmental Services Co., Inc.

JBR

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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters					
Company Name: North Little Rock WWU/Maumelle				Permit/Project #: 212028				Metals (See Comments)					
Address: P.O. Box 17898				Purchase Order #: 212028				Phenols (24.2)					
Telephone: North Little Rock, AR 72117				Work Order #				Cyanide (9)					
FAX: 501-945-7186				Sampler Name(s): Jason Barrett				NO3(18), Total P(25)					
Contact: 501-945-2367				and Signature(s): Brian Croft				NO2(19)					
ESC Client Number: 3719 Effluent Quarterly				Signature: [Signature]				Mercury(16.31)					
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
MME-WTR-MCR-042	21000059	10-27-21	0855	Grab	Wwater	Plastic	8 oz	NaOH	1	X			
MME-WTR-MCR-042		10-27-21	0855	Grab	Wwater	Glass	1 Liter	H2SO4	1		X		
MME-WTR-MCR-042		10-27-21	0855	Grab	Wwater	Plastic	8 oz	H2SO4	1			X	
MME-WTR-MCR-042		10-27-21	0855	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1				X
MME-WTR-MCR-042		10-27-21	0855	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1			X	
MME-WTR-MCR-042		10-27-21	0855	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X
Equipment Blank	21000060	10-27-21	0855	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X
Relinquished By: (Signature and Printed Name) [Signature]				Received By: (Signature and Printed Name) Harclean Kelly				Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>					
Date: 10-27-21 Time: 1448				Date: 10/27/21 Time: 1448				Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>					
Date: 10/27/21 Time: 1448				Date: 10/27/21 Time: 1448				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Date: 10/27/21 Time: 1448				Date: 10/27/21 Time: 1448				Result Result Result Result					
Date: 10/27/21 Time: 1448				Date: 10/27/21 Time: 1448				Units					
Comments: Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Flow Data				Field Test					
Units:				Analyst:				Time:					
Units:				Reading:				Units:					
Units:				Fecal Start:				Units:					

JNT

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Northwest Arkansas Branch
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Control Number: 2102010058 Composite Date: 02/01/21 -02/02/21 Collected By: JASON BARRETT
 Customer Name : NORTH LITTLE ROCK-WHITE OAK INF Sample Time : 1030-1030/1030(02/02 Delivery By : WGW
 Customer/Permit No. : 2452 / AR00038288 Sample Type : COMP/GRAB WWATER Work Order :
 Report Date : 03/08/21 Sample From : WOI-WTR-MCR-Q1-21 Purchase Order :

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								Precision % RPD	Accuracy % Recovery
02/10	1346	KNM	Beryllium	< 0.0040 mg/L			EPA 200.8	2.29	112.3 *
02/10	0350	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 1999 4500-CN E	2.99	106.7 *
02/11	0330	NTR	Phenolics	0.12 mg/L			EPA 420.1	3.39	94.8 *
02/10	1346	KNM	Chromium	< 0.0060 mg/L			EPA 200.8	1.55	111.2 *
02/08	1205	KNM	Nickel	< 0.0064 mg/L			EPA 200.8	0.95	111.1 *
02/10	1346	KNM	Copper	0.0082 mg/L			EPA 200.8	0.97	108.3 *
02/10	1346	KNM	Zinc	0.0551 mg/L			EPA 200.8	9.49	112.6 *
02/10	1346	KNM	Arsenic	< 0.0070 mg/L			EPA 200.8	3.60	103.8 *
02/10	1346	KNM	Selenium	0.0167 mg/L			EPA 200.8	10.37	101.9 *
02/10	1346	KNM	Molybdenum	0.0184 mg/L			EPA 200.8	0.63	114.2 *
02/10	1346	KNM	Silver	0.0066 mg/L			EPA 200.8	6.51	83.9 *
02/10	1346	KNM	Cadmium	< 0.0064 mg/L			EPA 200.8	4.00	109.1 *
02/13	1206	KNM	Mercury	< 0.0010 mg/L			EPA 245.1	5.69	86.4 *
02/10	1346	KNM	Antimony	0.0097 mg/L			EPA 200.8	0.14	97.0 *
02/10	1346	KNM	Thallium	< 0.0040 mg/L			EPA 200.8	1.35	91.9 *
02/08	1205	KNM	Lead	1.0437 mg/L			EPA 200.8	0.01	96.9 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
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 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC



CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/White Oak Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2452 Influent Quarterly				Permit/Project #: <u>216229</u> Purchase Order #: Work Order #: Sampler Name(s): <u>Jason Barnett</u> <u>Byron Craft</u> and Signature(s): <u>Jason Barnett</u> <u>Byron Craft</u>				Cyanide (9) Phenols (24) Metals (See Comments)							
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Type	Preservative	#					
WQI-WTR-MCR-Q1-21	2102010058	2/2/21	1030	Grab	Wwater	Grab	8 oz	Plastic	NaOH+Ac Acid	1	X				
WQI-WTR-MCR-Q1-21		2/2/21	1030	Grab	Wwater	Grab	1 Liter	Glass	CuSO4+H2SO4	1	X				
WQI-WTR-MCR-Q1-21	2-1-1030-1030	2/2/21	1030	Composite	Wwater	Composite	8 oz	Plastic	HNO3	1		X			
Requisitioned By: (Signature and Printed Name) <u>Jason Barnett</u> Requisitioned By: (Signature and Printed Name) <u>William Wilcoxy</u> Requisitioned By: (Signature and Printed Name) <u>William Wilcoxy</u> Note: All samples to be preserved at 5 degrees C with ice.				Received By: (Signature and Printed Name) <u>William Wilcoxy</u> Received By: (Signature and Printed Name) <u>William Wilcoxy</u> Received By: (Signature and Printed Name) <u>William Wilcoxy</u>				Date: 2/2/21 Date: 2/2/21 Date: 2/2/21 Time: 1400 Time: 1400 Time: 1400 Analyst:				Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/> Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/> Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Result Result Result Result Result Result			
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Tl(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Flow Data Field Test Fecal Start:				Chlorinated? Y N This Document is Page 1 of 1							

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Control Number: 2102010118
 Customer Name: NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No.: 2451 / AR00038288
 Report Date: 03/02/21
 Composite Date: 02/01/21 - 02/02/21
 Sample Time: 1035-1035/1035(02/02
 Sample Type: COMP/GRAB WWATER
 Sample From: WOE-WTR-MCR-Q1-21
 Collected By: JASON BARRETT
 Delivery By: WGW
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy & Recovery
02/10	1351	KNM	Beryllium	< 3.6960 ug/L			EPA 200.8	2.29	112.3 *
02/10	0350	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 1999 4500-CN E	2.99	106.7 *
02/16	1322	AZ	Mercury, low level	3.860 ng/L			EPA 1631E	1.48	93.0 *
02/09	0815	BXW	Total Kjeldahl Nitrogen	9.5 mg/L			02/2014 HACH 10242	13.33	97.1
02/11	0330	NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	10.53	91.0 *
02/10	1351	KNM	Chromium	< 5.97 ug/L			EPA 200.8	1.55	111.2 *
02/08	1030	KNM	Phosphorus, Total (as P)	1.620 mg/L			HACH 10209	1.93	102.0 *
02/05	1551	KNM	Solids, Total Dissolved	< 10.0 mg/L			SM1997 2540 C	7.07	N/A *
02/08	1210	KNM	Nickel	< 6.37 ug/L			EPA 200.8	0.95	111.1 *
02/10	1351	KNM	Copper	< 6.96 ug/L			EPA 200.8	0.97	108.3 *
02/10	1351	KNM	Zinc	< 35.15 ug/L			EPA 200.8	9.49	112.6 *
02/10	1351	KNM	Arsenic	< 7.03 ug/L			EPA 200.8	3.60	103.8 *
02/10	1351	KNM	Selenium	18.90 ug/L			EPA 200.8	10.37	101.9 *
02/10	1351	KNM	Molybdenum	18.28 ug/L			EPA 200.8	0.63	114.2 *
02/10	1351	KNM	Silver	6.3 ug/L			EPA 200.8	6.45	83.9 *
02/10	1351	KNM	Cadmium	< 6.4350 ug/L			EPA 200.8	4.00	109.1 *
02/10	1351	KNM	Antimony	9.69 ug/L			EPA 200.8	0.14	97.0 *
02/10	1351	KNM	Thallium	< 4.000 ug/L			EPA 200.8	1.07	91.9 *
02/08	1210	KNM	Lead	1043.7300 ug/L			EPA 200.8	0.01	96.9 *
02/09	0920	KNM	Nitrate + Nitrite	0.68 mg/L			HACH 10206	8.16	100.0 *

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Signature



Environmental Services Co., Inc.

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Environmental Services Company, Inc.

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Control Number: 2102010057
 Customer Name : NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No. : 2451 / AR00038288
 Report Date : 02/19/21

Sample Date : 02/02/21
 Sample Time : 1035
 Sample Type : GRAB WWATER
 Sample From : WOE-WTR-MCR-Q1-21

Collected By: JASON BARRETT
 Delivery By : WGW
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis Date 02/16 1327 AZ	Parameter Mercury, low level	Result 0.850 ng/L	Notes EPA 1631E	Quantity Method
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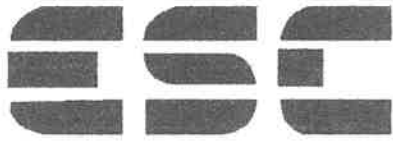
Quality Assurance Precision % RPD	Accuracy % Recovery 93.0 *
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Signature *Jason Barrett*
 Environmental Services Co., Inc.

AW



Environmental Services Company, Inc.

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LABORATORY REPORT

Client:	North Little Rock WWU/White Oak	Sample Date:	02/02/21
Control Number:	2102010118/2102020155	Receipt Date:	02/02/21
Sample Type:	Grab - W. Water	Report Date:	03/01/21
Sample Identification	WOE-WTR-MCR-Q1-21		

CHLORINATED PESTICIDES (µg/L or ppb)

Analyte	Result	Detection Limit
Chlorpyrifos	ND	0.04

QUALITY ASSURANCE DATA

Method: EPA 8081A

System Monitoring Compounds	% Recovery	% Recovery Limits
2,4,5,6-Tetrachloro-m-xylene	73.4%	35-138
Decachlorobiphenyl	61.2%	43-128

Analysis Date:	2/17/2021
Analysis Time:	21:21
Analyst:	TWM

Laboratory control samples were monitored for all analytes of interest.

Digitally signed by Tyler Meek
 DN: cn=Tyler Meek, o=Environmental Services
 Company, ou, email=tylerm@esclabs.com, c=US
 Date: 2021.03.01 12:59:26 -06'00'

Data Release authorized by:

Tyler W. Meek - Lab Manager

KNM



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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/White Oak				Permit/Project #: 216229				Cyanide (9)				
Address: P.O. Box 17898				Purchase Order #: 216229				Phenols (24.2)				
Phone: North Little Rock, AR 72117				Work Order #				Metals (See Comments)				
Fax: 501-945-7186				Sampler Name(s): Jason Barnett				Chlorophylls (99.PC) 1st quarter only				
Contact: Ms. Marybeth Eggleston				and Signature(s): Jason Barnett				TKN (16.C), NO2+NO2(91), Total P(25)				
ESC Client Number: 2451 Effluent Quarterly-1st								Mercury(16.31)				
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#			
W0E-WTR-MCR-Q1-21	2102010057	2/2/21	1035	Grab	Wwater	Plastic	8 oz	NaOH+Asc. Acid	1	X		
W0E-WTR-MCR-Q1-21	2102010057	2/2/21	1035	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1	X		
W0E-WTR-MCR-Q1-21	0118	2/2/21	1035	Composite	Wwater	Plastic	8 oz	HNO3	1		X	
W0E-WTR-MCR-Q1-21		2/2/21	1035	Grab	Wwater	Amb GI	1 Liter	None	1		X	
W0E-WTR-MCR-Q1-21		2/2/21	1035	Grab	Wwater	Plastic	8 oz	None	1		X	
W0E-WTR-MCR-Q1-21		2/2/21	1035	Grab	Wwater	Plastic	8 oz	H2SO4	1		X	
W0E-WTR-MCR-Q1-21		2/2/21	1035	Composite	Wwater	Glass	250 ml	HCl	1			X
Equipment Blank	2102010058	2/2/21	1035	Grab	Wwater	Glass	250 ml	HCl	1			X
Relinquished By: (Signature and Printed Name) Jason Barnett				Received By: (Signature and Printed Name) William Wilkoff				Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input checked="" type="checkbox"/>				
Relinquished By: (Signature and Printed Name) Jason Barnett				Received By: (Signature and Printed Name) William Wilkoff				Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>				
Relinquished By: (Signature and Printed Name) Jason Barnett				Received By: (Signature and Printed Name) William Wilkoff				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Cool all samples to 50 degrees C with ice.				Flow Data				Result Result Result Result				
Comments:				Analyst: Time Analyst				Units				
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)				Field Test				Units				
Ti(81.PS), Pb(82.PS)				Chlorinated? Y N				Units				
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Fecal Start:				Units				
				This Document is Page of 1								

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Control Number: 2105010073
 Customer Name: NORTH LITTLE ROCK-WHITE OAK INF
 Customer/Permit No.: 2452 / AR00038288
 Report Date: 05/20/21
 Composite Date: 05/04/21 -05/05/21
 Sample Time: 0920-0920/0920
 Sample Type: COMP/GRAB WWATER
 Sample From: WO1-WTR-MCR-Q2-21
 Collected By: JASON BARRETT
 Delivery By: JGK
 Work Order:
 Purchase Order:

Analysis		Laboratory Analysis				Quality Assurance		
Date	Time BY	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/10	1948 KNM	Beryllium	< 0.0500 mg/L			EPA 200.8	3.20	111.4 *
05/13	0400 NTR	Cyanide Total (HACH 10265)	< 0.0100 mg/L			SM 2011 4500-CN E	0.29	100.1 *
05/13	0550 NTR	Phenolics	0.11 mg/L			EPA 420.1	3.39	89.9
05/10	1948 KNM	Chromium	< 0.0200 mg/L			EPA 200.8	2.79	112.1 *
05/10	1948 KNM	Nickel	< 0.0200 mg/L			EPA 200.8	1.01	110.4 *
05/10	1948 KNM	Copper	< 0.0200 mg/L			EPA 200.8	2.17	110.0 *
05/10	1948 KNM	Zinc	< 0.0500 mg/L			EPA 200.8	6.57	103.6 *
05/10	1948 KNM	Arsenic	< 0.0100 mg/L			EPA 200.8	0.56	97.9 *
05/10	1948 KNM	Selenium	< 0.0150 mg/L			EPA 200.8	0.73	98.2 *
05/10	1948 KNM	Molybdenum	< 0.0500 mg/L			EPA 200.8	3.05	117.8 *
05/10	1948 KNM	Silver	< 0.1200 mg/L			EPA 200.8	1.82	99.3 *
05/10	1948 KNM	Cadmium	< 0.0200 mg/L			EPA 200.8	0.84	107.3 *
05/20	1211 AA	Mercury	< 0.0002 mg/L			EPA 245.1	2.49	96.9 *
05/10	1948 KNM	Antimony	< 0.0100 mg/L			EPA 200.8	1.73	96.1 *
05/10	1948 KNM	Thallium	< 0.0500 mg/L			EPA 200.8	2.04	95.4 *
05/10	1948 KNM	Lead	< 0.0100 mg/L			EPA 200.8	2.90	95.2 *

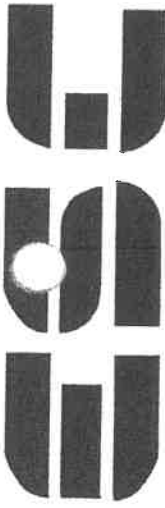
* QA data shown is from a different sample or standard on the same date.

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Signature Jason Barrett
 Environmental Services Co., Inc.

W

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 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.eslabs.com



Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/White Oak				Permit/Project #:											
Address: P.O. Box 17898				Purchase Order #: 210807											
Phone: North Little Rock, AR 72117				Work Order #											
Fax: 501-945-7186				Sampler Name(s): Jason Barnett											
Contact: 501-945-2367				and Signature(s): <i>Bryan Craft</i>											
ESC Client Number: 2452 Influent Quarterly															
Sample Identification		Sample Collection		Sample Containers		Cyanide (9)		Metals (See Comments)		Requested Parameters					
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Type	Preservative	#						
WQI-WTR-MCR-02-21	2109010013	5-5-21	0920	Grab	Wwater	8 oz	Plastic	NaOH+As-Acid	1	X					
WQI-WTR-MCR-02-21		5-5-21	0920	Grab	Wwater	1 Liter	Glass	CuSO4+H2SO4	1	X					
WQI-WTR-MCR-02-21		5-5-21	0920	Composite	Wwater	8 oz	Plastic	HNO3	1		X				
Relinquished By: (Signature and Printed Name) <i>Jason Barnett</i> Date: 5-5-21 Time: 1616 Received By: (Signature and Printed Name) <i>Kristina Maffini</i> Date: 5/5/21 Time: 5124 Relinquished By: (Signature and Printed Name) <i>Jason Barnett</i> Date: 5-5-21 Time: 0920 Received By: (Signature and Printed Name) <i>Kristina Maffini</i> Date: 5/5/21 Time: 5124 Relinquished By: (Signature and Printed Name) <i>Jason Barnett</i> Date: 5/5/21 Time: 1616 Received By: (Signature and Printed Name) <i>Kristina Maffini</i> Date: 5/5/21 Time: 5124 Cool all samples to ≤ 5 degrees C with ice.															
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Tl(81.HW), Pb(82.HW), Hg (50.15), Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW),00.HG, 00.MD				Analyst: <i>Kristina Maffini</i>				Field Test				Flow Data			
				Time: 1616				Time: 5124				Time: 5124			
				Reading: 00.MD				Reading: 00.MD				Reading: 00.MD			
				Units:				Units:				Units:			
				Chlorinated? Y N				Chlorinated? Y N				Chlorinated? Y N			
				Fecal Start:				Fecal Start:				Fecal Start:			
This Document is Page 1 of 1															

BSW

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010071
 Customer Name: NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No.: 2451 / AR00038288
 Report Date: 05/27/21
 Composite Date: 05/04/21 -05/05/21
 Sample Time: 0930-0930/0930
 Sample Type: COMP/GRAB WWATER
 Sample From: WOE-WTR-MCR-Q2-21
 Collected By: JASON BARRETT
 Delivery By: JGK
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Result		Notes	Quantity	Method	Quality Assurance	
Date	Time By	Parameter	Result				% RPD	Accuracy % Recovery
05/10	1930 KNM	Beryllium	< 50.00 ug/L			EPA 200.8	3.20	111.4 *
05/13	0400 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.29	100.1 *
05/25	1012 TA	Mercury, low level	3.760 ng/L			EPA 1631E	0.00	100.0 *
05/13	0550 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	0.00	100.0 *
05/10	1930 KNM	Chromium	< 20.00 ug/L			EPA 200.8	2.79	112.1 *
05/10	1930 KNM	Nickel	< 20.00 ug/L			EPA 200.8	1.01	110.4 *
05/10	1930 KNM	Copper	< 20.00 ug/L			EPA 200.8	2.17	110.0 *
05/10	1930 KNM	Zinc	< 50.00 ug/L			EPA 200.8	6.57	103.6 *
05/10	1930 KNM	Arsenic	< 15.00 ug/L			EPA 200.8	0.56	97.9 *
05/10	1930 KNM	Selenium	< 50.00 ug/L			EPA 200.8	0.73	98.2 *
05/10	1930 KNM	Molybdenum	< 120.0 ug/L			EPA 200.8	3.05	91.1 *
05/10	1930 KNM	Silver	< 20.00 ug/L			EPA 200.8	1.80	99.3 *
05/10	1930 KNM	Cadmium	< 10.00 ug/L			EPA 200.8	0.84	107.3 *
05/10	1930 KNM	Antimony	< 50.000 ug/L			EPA 200.8	1.73	96.1 *
05/10	1930 KNM	Thallium	< 10.00 ug/L			EPA 200.8	2.04	95.4 *
05/10	1930 KNM	Lead	< 0.56 mg/L			EPA 200.8	2.90	95.2 *
05/18	1531 EJD	Nitrate + Nitrite				HACH 10206	0.12	102.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010072
 Customer Name : NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No. : 2451 / AR00038288
 Report Date : 05/27/21
 Sample Date : 05/04/21
 Sample Time : 0930
 Sample Type : GRAB WATER
 Sample From : EQUIPMENT BLANK
 Collected By: JASON BARRETT
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis			
Analysis Date	Time	By	Parameter
05/25	1027	TA	Mercury, low level
			Result
			0.630 ng/L
			Notes
			Quantity
			Method
			EPA 1631E
			Precision
			% RPD
			0.00
			Accuracy
			% Recovery
			100.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature *Krista Mullis*
 Environmental Services Co., Inc.



CHAIN OF CUSTODY

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 888-372-3477

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/White Oak				Permit/Project #: <u>310807</u>				Metals (See Comments)			
Address: P.O. Box 17898				Purchase Order #: <u>310807</u>				Phenols (24.2) <u>KMM</u>			
Phone: North Little Rock, AR 72117				Work Order #				NO ₂ +NO ₃ (41), Total P(25.) <u>KMM</u>			
Fax: 501-945-7186				Sampler Name(s): <u>Jessie Barnett</u>				Mercury(16.31) <u>KMM</u>			
Contact: Ms. Marybeth Eggleston				and Signature(s): <u>Jessie Barnett</u>				Cyanide (9) <u>X</u>			
ESC Client Number: 2451 Effluent Quarterly											
Sample Identification		Sample Collection		Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Type	Preservative	#		
W06-WTR-MCR-02-21	2105010071	5-5-21	0930	Grab	Wwater	8 oz	Plastic	NaOH+Ac Acid	1		
W06-WTR-MCR-02-21		5-5-21	0930	Grab	Wwater	1 Liter	Glass	CuSO ₄ +H ₂ SO ₄	1	X	
W06-WTR-MCR-02-21		5-5-21	0930	Grab	Wwater	8 oz	Plastic	H ₂ SO ₄	1		X
W06-WTR-MCR-02-21		5-5-21	0930	Composite	Wwater	8 oz	Plastic	HNO ₃	1	X	
W06-WTR-MCR-02-21		5-5-21	0930	Composite	Wwater	250 ml	Glass	Cool ≤ 6° C	1		X
Equipment Blank	2105010072	5-5-21	0930	Grab	Wwater	250 ml	Glass	Cool ≤ 6° C	1		X
Requisitioned By: <u>Jessie Barnett</u>				Received By: <u>Jessie Barnett</u>				Custody Seals: <u>N</u>			
Requisitioned By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Intact? <input type="checkbox"/>			
Date: <u>5-5-21</u>				Date: <u>5/5/21</u>				Turnaround: <u>N</u>			
Time: <u>1010</u>				Time: <u>1400</u>				Regular <input checked="" type="checkbox"/>			
Date: <u>5/5/21</u>				Date: <u>5/5/21</u>				Were samples properly preserved: <u>Yes</u>			
Time: <u>1010</u>				Time: <u>1410</u>				Special <input type="checkbox"/>			
Date: <u>5/5/21</u>				Date: <u>5/5/21</u>				Result <u>Result</u>			
Time: <u>1010</u>				Time: <u>1410</u>				Units <u>Units</u>			
Comments: <u>Tests updated per chain of bid KMM 5/7/21</u>				Flow Data				Chlorinated? <u>Y</u> <u>N</u>			
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS).				Analyst: <u>Time:</u>				Fecal Start: <u>Time:</u>			
Cd(48.PS), Tl(81.PS), Pb(82.PS).				Reading: <u>Units:</u>				Flow Data			
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				QR Code				Flow Data			

132A

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2108010064
 Customer Name: NORTH LITTLE ROCK-WHITE OAK INF
 Customer/Permit No.: 2452 / AR00038288
 Report Date: 08/19/21
 Composite Date: 08/09/21 -08/10/21
 Sample Time: 0935-0935/0935(8/10)
 Sample Type: COMP/GRAB WWATER
 Sample From: WOI-WTR-MLR-Q3-21
 Collected By: JASON BARRETT/B
 Delivery By: DMP
 Work Order:
 Purchase Order: 211470

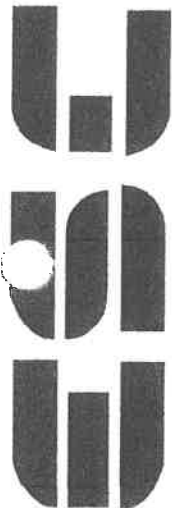
Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								% RPD	% Recovery
08/18	0710	NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	0.65	104.1 *
08/11	0350	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.67	109.0 *
08/16	0430	NTR	Phenolics	0.13 mg/L			EPA 420.1	3.39	98.2 *
08/18	0710	NTR	Chromium	< 0.0200 mg/L			EPA 200.8	0.84	116.3 *
08/18	0710	NTR	Nickel	< 0.0200 mg/L			EPA 200.8	1.24	110.3 *
08/18	0710	NTR	Copper	0.0219 mg/L			EPA 200.8	4.55	111.4 *
08/18	0710	NTR	Zinc	0.1901 mg/L			EPA 200.8	3.45	105.9 *
08/18	0710	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	1.07	104.9 *
08/18	0710	NTR	Selenium	< 0.0150 mg/L			EPA 200.8	0.04	88.0 *
08/18	0710	NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	2.57	88.8 *
08/18	0710	NTR	Silver	< 0.1200 mg/L			EPA 200.8	1.10	109.6 *
08/18	0710	NTR	Cadmium	< 0.0200 mg/L			EPA 200.8	1.89	92.3 *
08/12	1030	NTR	Mercury	< 0.0050 mg/L			EPA 245.1	2.02	78.2 *
08/18	0710	NTR	Antimony	< 0.0100 mg/L			EPA 200.8	1.09	84.8 *
08/18	0710	NTR	Thallium	< 0.0500 mg/L			EPA 200.8	1.30	120.0 *
08/18	0710	NTR	Lead	0.0264 mg/L			EPA 200.8	1.21	117.4 *

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Signature  Environmental Services Co., Inc.



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 Carlsbad, New Mexico
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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/White Oak				Permit/Project #: 211470								
Address: P.O. Box 17898				Purchase Order #: 211470								
North Little Rock, AR 72117				Work Order #								
Phone: 501-945-7186				Sampler Name(s): Jason Bennett								
Fax: 501-945-2367				and Signature(s): <i>Jason Bennett</i>								
Contact: Ms. Marybeth Eggleston												
ESC Client Number: 2452 Influent Quarterly												
Sample Identification		Sample Collection		Sample Containers								
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Type	Preservative	#	Cyanide (9)	Phenols (24)	Metals (See Comments)
WQT-WTR-MCR-03-21	2108010064	8/10/21	0935	Grab	Wwater	8 oz	Plastic	NaOH+Asc Acid	1	X		
WQT-WTR-MCR-03-21	+	8/10/21	0935	Grab	Wwater	1 Liter	Glass	CuSO4+H2SO4	1	X		
WQT-WTR-MCR-03-21	+	8/10/21	0935	Composite	Wwater	8 oz	Plastic	HNO3	1		X	
Relinquished By: (Signature and Printed Name) <i>Jason Bennett</i> Date: 8/10/21 Time: 1410												
Received By: (Signature and Printed Name) <i>David Pierce</i> Date: 08/10/21 Time: 1410												
Relinquished By: (Signature and Printed Name) <i>David Pierce</i> Date: 08/10/21 Time: 1628												
Received By: (Signature and Printed Name) <i>Jason Bennett</i> Date: 8/10/21 Time: 1628												
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) T(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW),00.HG, 00.MD Cool all samples to ≤ 6 degrees C with ice.												
Units: Chlorinated? Y N Fecal Start: _____												

13A

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2108010062
 Customer Name: NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No.: 2451 / AR00038288
 Report Date: 08/26/21
 Composite Date: 08/09/21 -08/10/21
 Sample Time: 0945-0945/0945(8/10)
 Sample Type: COMP/GRAB WWATER
 Sample From: WOE-WTR-MCR-Q3-21
 Collected By: JASON BARRETT/B
 Delivery By: DMP
 Work Order:
 Purchase Order: 211470

Laboratory Analysis

Date	Time	BY	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								% RPD	% Recovery
08/18	0710	NTR	Beryllium	< 50.00	ug/L		EPA 200.8	0.65	104.1 *
08/11	0350	NTR	Cyanide Total (HACH 10265	< 0.0100	mg/L		SM 2011 4500-CN E	3.67	109.0 *
08/25	1251	ACZ	Mercury, low level	7.300	mg/L		EPA 1631E	0.00	86.0 *
08/19	1113	BXW	Nitrate Nitrogen	0.8760	mg/L		HACH 10206	0.84	101.0 *
08/10	1651	BXW	Nitrite Nitrogen	< 2.0000	mg/L		EPA 354.1	0.00	99.6 *
08/16	0430	NTR	Phenolics, Low Range	< 0.005	mg/L		EPA 420.1	11.11	91.5 *
08/18	0710	NTR	Chromium	< 20.00	ug/L		EPA 200.8	0.84	116.3 *
08/16	1235	NTR	Phosphorus, Total (as P)	3.560	mg/L		EPA 365.1	0.65	97.4 *
08/18	0710	NTR	Nickel	< 20.00	ug/L		EPA 200.8	1.24	110.3 *
08/18	0710	NTR	Copper	< 20.00	ug/L		EPA 200.8	4.55	111.4 *
08/18	0710	NTR	Zinc	< 50.00	ug/L		EPA 200.8	3.45	105.9 *
08/18	0710	NTR	Arsenic	< 10.00	ug/L		EPA 200.8	1.07	104.9 *
08/18	0710	NTR	Selenium	< 15.00	ug/L		EPA 200.8	0.04	88.0 *
08/18	0710	NTR	Molybdenum	< 50.00	ug/L		EPA 200.8	2.57	88.8 *
08/18	0710	NTR	Silver	< 120.0	ug/L		EPA 200.8	0.64	109.6 *
08/18	0710	NTR	Cadmium	< 20.00	ug/L		EPA 200.8	1.89	92.3 *
08/18	0710	NTR	Antimony	< 10.00	ug/L		EPA 200.8	1.09	84.8 *
08/18	0710	NTR	Thallium	< 50.000	ug/L		EPA 200.8	1.30	120.0 *
08/18	0710	NTR	Lead	25.22	ug/L		EPA 200.8	1.21	117.4 *

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Northwest Arkansas Branch
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 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2108010063
 Customer Name: NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No.: 2451 / AR00038288
 Report Date: 08/26/21

Sample Date: 08/10/21
 Sample Time: 0945
 Sample Type: GRAB WWATER
 Sample From: EQUIPMENT BLANK

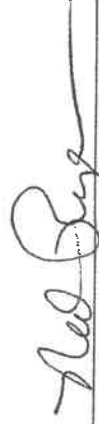
Collected By: JASOON BARRETT/
 Delivery By: DMP
 Work Order:
 Purchase Order: 211470

Laboratory Analysis

<u>Date</u> 08/25 1256 ACZ	<u>Time By</u> Mercury, low level	<u>Parameter</u> Mercury, low level	<u>Result</u> 9.200 ng/L	<u>Notes</u>	<u>Quantity</u>	<u>Method</u> EPA 1631E								
<table border="0" style="margin-left: auto;"> <tr> <td style="text-align: right;">Quality Assurance</td> <td></td> </tr> <tr> <td style="text-align: right;">Precision</td> <td style="text-align: right;">Accuracy</td> </tr> <tr> <td style="text-align: right;">% RPD</td> <td style="text-align: right;">% Recovery</td> </tr> <tr> <td style="text-align: right;">0.00</td> <td style="text-align: right;">86.0 *</td> </tr> </table>							Quality Assurance		Precision	Accuracy	% RPD	% Recovery	0.00	86.0 *
Quality Assurance														
Precision	Accuracy													
% RPD	% Recovery													
0.00	86.0 *													

* QA data shown is from a different sample or standard on the same date.

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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/White Oak				Permit/Project #:											
Address: P.O. Box 17898				Purchase Order #:											
Phone: North Little Rock, AR 72117				Work Order #				211470							
Fax: 501-945-7186				Sampler Name(s):				Jason Barrett							
Contact: Ms. Marybeth Eggleston				and Signature(s):				Bryan Craft							
ESC Client Number: 2451 Effluent Quarterly															
Sample Identification		Sample Collection		Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (g)	Phenols (2,2)	NO3(18), Total P(25)	Metals (See Comments)	NO2(19)	Mercury(16,31)
WOE-WTR-MCR-0321	2108010062	8/10/21	0945	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
WOE-WTR-MCR-0321		8/10/21	0945	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1		X				
WOE-WTR-MCR-0321		8/10/21	0945	Grab	Wwater	Plastic	8 oz	H2SO4	1			X			
WOE-WTR-MCR-0321		8/10/21	0945	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1						
WOE-WTR-MCR-0321		8/10/21	0945	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X		
WOE-WTR-MCR-0321		8/10/21	0945	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X		
Equipment Blank	2108010063	8/10/21	0945	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1						X
Relinquished By: (Signature and Printed Name)		Date		Received By: (Signature and Printed Name)		Date		Time		Custody Seals:		Used?		Intact?	
[Signature]		8/10/21		David Pfeiffer		8/10/21		1410		7		[Initials]		[Initials]	
Relinquished By: (Signature and Printed Name)		Date		Received By: (Signature and Printed Name)		Date		Time		Regular		Were samples properly preserved:		Special	
David Pfeiffer		08/10/21		[Signature]		8/10/21		1628		[Initials]		Yes [X]		No []	
Comments:		Cool all samples to ≤ 5 degrees C with ice.		Field Data		Field Test		Analyst		Result		Result		Units	
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD		[QR Code]		Analyst:		Time:		Reading:		Units:		Chlorinated? Y N		Fecal Start:	
Bxxv															

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2110010065
 Customer Name : NORTH LITTLE ROCK-WHITE OAK INF
 Customer/Permit No. : 2452 / AR00038288
 Report Date : 11/19/21
 Composite Date: 10/26/21 -10/27/21
 Sample Time : 0935-0935 0935
 Sample Type : COMP/ GRAB WATER
 Sample From : WO1-WTR-MCR-Q4-21
 Collected By: JASON BARRETT
 Delivery By : HMK
 Work Order :
 Purchase Order :

Laboratory Analysis

Date	Time	By	Analysis	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
									Precision % RPD	Accuracy % Recovery
10/28	1320	NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	6.70	108.7	*
10/29	0400	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	4.44	112.5	*
10/29	0515	NTR	Phenolics	0.15 mg/L			EPA 420.1	1.60	98.4	*
10/28	1320	NTR	Chromium	< 0.0200 mg/L			EPA 200.8	2.53	109.2	*
10/28	1320	NTR	Nickel	< 0.0200 mg/L			EPA 200.8	1.18	88.6	*
10/28	1320	NTR	Copper	0.0310 mg/L			EPA 200.8	9.46	104.3	*
10/28	1320	NTR	Zinc	0.0890 mg/L			EPA 200.8	10.89	79.9	*
10/28	1320	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	3.76	98.7	*
10/28	1320	NTR	Selenium	< 0.0150 mg/L			EPA 200.8	2.85	96.1	*
10/28	1320	NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	9.28	81.4	*
10/28	1320	NTR	Silver	< 0.1200 mg/L			EPA 200.8	0.77	80.3	*
10/28	1320	NTR	Cadmium	< 0.0200 mg/L			EPA 200.8	2.20	111.9	*
11/01	1130	NTR	Mercury	< 0.0050 mg/L			EPA 245.1	2.67	94.5	*
10/28	1320	NTR	Antimony	< 0.0100 mg/L			EPA 200.8	4.24	74.7	*
10/28	1320	NTR	Thallium	< 0.0500 mg/L			EPA 200.8	7.86	112.6	*
10/28	1320	NTR	Lead	0.0460 mg/L			EPA 200.8	0.73	89.3	*

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature  Environmental Services Co., Inc.

Handwritten initials



Springdale, Arkansas
479-750-1170
Carlsbad, New Mexico
575-887-1ESC

Environmental Services Company, Inc.
Corporate Office
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P.O. Box 55146
Little Rock, AR 72211
Little Rock, AR 72215
website: www.esclabs.com

CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters	
Client:		North Little Rock WWU/White Oak		Permit/Project #:					
Address:		P.O. Box 17898		Purchase Order #:		213028			
Phone:		North Little Rock, AR 72117		Work Order #					
Fax:		501-945-7186		Sampler Name(s):		Jason Barnett			
Contact:		501-945-2367		and Signature(s):		Bryan Scott			
ESC Client Number:		2452 Influent Quarterly				Jason Barnett			
Sample Identification		Sample Collection		Sample Containers		Cyanide (9)		Phenols (24)	
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	#	
WQI-WTR-MCR-042	241010065	10-27-21	0935	Grab	Wwater	8 oz	NaOH+Asc Acid	1	X
WQI-WTR-MCR-042		10-27-21	0935	Grab	Wwater	1 Liter	CuSO4+H2SO4	1	X
WQI-WTR-MCR-042		10-27-21	0935	Composite	Wwater	8 oz	HNO3	1	X
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:	
Jason Barnett		10-27-21	1448	Harden Kelly		10/27/21	1448	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>	
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:	
Jason Barnett		10/27/21	1701	Harden Kelly		10/28/21	8:35	Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>	
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:	
Harden Kelly		10/27/21	1701	Jason Barnett		10/28/21	8:35	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Cool all samples to ≤ 6 degrees C with ice.				FLOW DATA		Field Test		Result	
Comments:				Analyst:		Analyst		Result	
				Time:		Time		Result	
				Reading:		Reading		Result	
				Units:		Units		Result	
				Chlorinated? Y N		Fecal Start:		This Document is Page 1 of 1	

JNT

Environmental Services Company, Inc.

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Control Number: 2110010063
 Customer Name: NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No.: 2451 / AR00038288
 Report Date: 11/26/21
 Composite Date: 10/26/21 -10/27/21
 Sample Time: 0945-0945 0945
 Sample Type: COMP/GRAB WWATER
 Sample From: WOE-WTR-MCR-Q4-21
 Collected By: JASON BARRETT
 Delivery By: HMK
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Accuracy & Recovery
10/28	1320 NTR	Beryllium	< 50.00 ug/L			EPA 200.8	4.44	107.7 *
10/29	0400 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	4.44	112.5 *
10/28	0405 NTR	Metal Digestion Liquid	1.00			1994 EPA 200.8		
11/12	1227 ACZ	Mercury, low level	4.120 ng/L			EPA 1631E	0.00	84.0 *
10/28	0550 NTR	Nitrate Nitrogen	5.7400 mg/L			HACH 10206	0.51	103.8 *
10/28	0515 NTR	Nitrite Nitrogen	4.2400 mg/L			EPA 354.1	1.21	98.2 *
10/29	0515 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	2.41	101.2 *
10/28	1320 NTR	Chromium	< 20.00 ug/L			EPA 200.8	2.53	109.2 *
11/04	1040 NTR	Phosphorus, Total (as P)	1.300 mg/L			EPA 365.1	0.89	99.8 *
10/28	1320 NTR	Nickel	< 20.00 ug/L			EPA 200.8	1.18	88.6 *
10/28	1320 NTR	Copper	< 20.00 ug/L			EPA 200.8	9.46	104.3 *
10/28	1320 NTR	Zinc	56.36 ug/L			EPA 200.8	10.89	79.9 *
10/28	1320 NTR	Arsenic	< 10.00 ug/L			EPA 200.8	3.76	98.7 *
10/28	1320 NTR	Selenium	< 15.00 ug/L			EPA 200.8	2.85	96.1 *
10/28	1320 NTR	Molybdenum	< 50.00 ug/L			EPA 200.8	9.28	81.4 *
10/28	1320 NTR	Silver	< 120.0 ug/L			EPA 200.8	0.77	80.3 *
10/28	1320 NTR	Cadmium	< 20.00 ug/L			EPA 200.8	2.20	111.9 *
10/28	1320 NTR	Antimony	< 10.00 ug/L			EPA 200.8	4.24	74.7 *
10/28	1320 NTR	Thallium	< 50.000 ug/L			EPA 200.8	7.86	112.6 *
10/28	1320 NTR	Lead	11.34 ug/L			EPA 200.8	0.73	89.3 *

* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co. Inc.

hm

Environmental Services Company, Inc.

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Control Number: 2110010064
 Customer Name : NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No. : 2451 / AR00038288
 Report Date : 11/26/21
 Composite Date: 10/27/21 - 10/27/21
 Sample Time : 0945
 Sample Type : GRAB WWATER
 Sample From : EQUIPMENT BLANK
 Collected By: JASON BARRETT
 Delivery By : HMK
 Work Order :
 Purchase Order :

Laboratory Analysis			
Analysis Date	Time By	Parameter	Result
11/12	1232 ACZ	Mercury, low level	< 0.300 ng/L
		Quantity	EPA 1631E
		Notes	
		Method	
		Quality Assurance Precision % RPD	0.00
		Quality Assurance Accuracy % Recovery	84.0 *

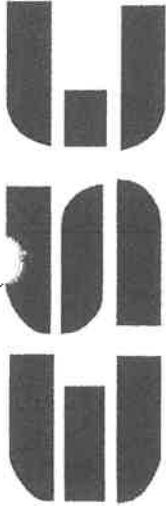
* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co., Inc.

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 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477



CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/White Oak				Permit/Project #: 812028				Metals (See Comments)			
Address: P.O. Box 17898				Purchase Order #: 812028				NO3(18), Total P(25)			
Phone: North Little Rock, AR 72117				Work Order #				Phenols (24,2)			
Fax: 501-945-7186				Sampler Name(s): Jason Barrett				Cyanide (9)			
Contact: Ms. Marybeth Eggleston				and Signature(s): <i>Jason Barrett</i>				NO2(19)			
ESC Client Number: 2451 Effluent Quarterly				Sample Collection				Mercury(16,31)			
Sample Identification		Sample Collection		Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	#			
WQE-WTR-MCR-042	21000063	10-27-21	0945	Grab	Wwater	8 oz	NaOH	1	X		
WQE-WTR-MCR-042		10-27-21	0945	Grab	Wwater	1 Liter	NaOH+H2SO4	1	X		
WQE-WTR-MCR-042		10-27-21	0945	Grab	Wwater	8 oz	H2SO4	1		X	
WQE-WTR-MCR-042		10-27-21	0945	Grab	Wwater	8 oz	Cool ≤ 6° C	1			X
WQE-WTR-MCR-042		10-27-21	0945	Composite	Wwater	8 oz	HNO3 to pH <2	1		X	
WQE-WTR-MCR-042		10-27-21	0945	Composite	Wwater	250 ml	Cool ≤ 6° C	1			X
Equipment Blank	21001004	10-27-21	0945	Grab	Wwater	250 ml	Cool ≤ 6° C	1			X

Requested By: <i>Jason Barrett</i>	Signature and Printed Name	Date	Time	Received By: <i>Jason Barrett</i>	Signature and Printed Name	Date	Time
10/27/21	1448	10/27/21	1448	10/27/21	1448	10/27/21	1448
Requested By: <i>Jason Barrett</i>	Signature and Printed Name	Date	Time	Received By: <i>Jason Barrett</i>	Signature and Printed Name	Date	Time
10/27/21	1448	10/27/21	1448	10/27/21	1448	10/27/21	1448
Requested By: <i>Jason Barrett</i>	Signature and Printed Name	Date	Time	Received By: <i>Jason Barrett</i>	Signature and Printed Name	Date	Time
10/27/21	1448	10/27/21	1448	10/27/21	1448	10/27/21	1448

Comments: Cool all samples to ≤ 6 degrees C with ice.

Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Ti(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD

ANALYST: _____
 TIME: _____
 READING: _____
 UNITS: _____

Chlorinated? Y N Fecal Start: _____

This Document is Page 1 of 1

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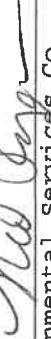
Control Number: 2201010437 Sample Date : 01/05/22 Collected By: J. BARRETT/B. C
 Customer Name : NORTH LITTLE ROCK-FAULKNER EFF Sample Time : 0715 Delivery By : J. BARRETT
 Customer/Permit No. : 2455 / AR00020303 Sample Type : COMP/GRAB WWATER Work Order :
 Report Date : 01/21/22 Sample From : FLE-WTR-MCR-Q1-22 Purchase Order :

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy & Recovery
01/11	0457 NTR	Beryllium	< 50.00 ug/L			EPA 200.8	1.58	105.1 *
01/07	0405 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.11	96.5 *
01/11	1100 ARA	Mercury, low level	0.633 ng/L			EPA 1631E	5.70	100.0 *
01/06	1335 EJD	Total Kjeldahl Nitrogen	23.0 mg/L			02/2014 HACH 10242	5.43	109.0 *
01/07	1045 KSR	Nitrate Nitrogen	9.0200 mg/L			HACH 10206	2.05	98.3 *
01/07	1115 KSR	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	0.00	99.0 *
01/10	1230 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	2.06	96.6 *
01/11	0457 NTR	Chromium	< 20.00 ug/L			EPA 200.8	0.21	97.2 *
01/13	1640 EJC	Phosphorus, Total (as P)	3.310 mg/L			EPA 365.1	3.39	102.0 *
01/06	1430 EJD	Solids, Total Dissolved	164.0 mg/L			SM 2011 2540 C	21.51	N/A *
01/11	0457 NTR	Nickel	< 20.00 ug/L			EPA 200.8	0.01	93.9 *
01/11	0457 NTR	Copper	< 20.00 ug/L			EPA 200.8	1.67	93.9 *
01/11	0457 NTR	Zinc	< 50.00 ug/L			EPA 200.8	6.00	82.9 *
01/11	0457 NTR	Arsenic	< 10.00 ug/L			EPA 200.8	0.23	86.9 *
01/11	0457 NTR	Selenium	< 15.00 ug/L			EPA 200.8	0.52	84.4 *
01/11	0457 NTR	Molybdenum	< 50.00 ug/L			EPA 200.8	0.56	89.2 *
01/11	0457 NTR	Silver	< 120.0 ug/L			EPA 200.8	0.56	81.7 *
01/11	0457 NTR	Cadmium	< 20.00 ug/L			EPA 200.8	0.12	85.8 *
01/11	0457 NTR	Antimony	< 10.00 ug/L			EPA 200.8	0.17	76.7 *
01/11	0457 NTR	Thallium	< 50.000 ug/L			EPA 200.8	0.31	81.7 *
01/11	0457 NTR	Lead	22.16 ug/L			EPA 200.8	0.12	83.6 *

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Signature  Environmental Services Co., Inc.

SM

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 479-750-1170
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LABORATORY REPORT

Client: North Little Rock Five Mile Effluent
 Control Number: 2201010437
 Sample Type: Grab Wastewater
 Sample Identification: FLE-WTR-MCR-Q1-22
 Report Date: 01/05/22
 Receipt Date: 01/05/22
 Sample Date: 01/05/22
 Sample Time: 0715
 ANALYTES OF INTEREST (µg/L or ppb)

Analyte	Result	Detection Limit
Chlorpyrifos	ND	0.01

QUALITY ASSURANCE DATA

Method: SW 8081 B, Rev 2, 2007
 System Monitoring Compounds
 Decachlorobiphenyl
 % Recovery 72.9%
 % Recovery Limits 44.1-1108
 Analysis Date: 01/12/22
 Analysis Time: 1550
 Analyst: ARA

Laboratory control samples were monitored for all analytes of interest.

Data Release authorized by:

Ned Ryerson
 Ned Ryerson, Laboratory Manager

10/1

Environmental Services Company, Inc.

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Control Number: 2201010438
 Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No.: 2455 / AR00020303
 Report Date: 01/21/22

Sample Date: 01/05/22
 Sample Time: 0715
 Sample Type: GRAB WATER
 Sample From: EQUIPMENT BLANK

Collected By: J. BARRETT/B. C
 Delivery By: J. BARRETT
 Work Order:
 Purchase Order:

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method
01/11	1105	ARA	Mercury, low level	< 0.500	ng/L		EPA 1631E

Precision	Accuracy
% RPD	% Recovery
5.70	100.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature _____


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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters					
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: <u>212480</u>				Cyanide (9)					
Address: P.O. Box 17898				Purchase Order #: <u>212480</u>				Phenols (24.2)					
Phone: North Little Rock, AR 72117				Work Order #				Chlorophytos (99.FC) 1st quarter only					
Fax: 501-945-7186				Sampler Name(s): <u>Jessica Barrett</u>				Metals (See Comments)					
Contact: Ms. Marybeth Eggleston				and Signature(s): <u>Marybeth Eggleston</u>				TDS (27)					
ESC Client Number: 2455 Effluent Quarterly-1st								TKN (16.C), NO2+NO3(91), Total P(25)					
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
FLE-WTR-MUR-Q1-22	220101436	1/5/22	0715	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X			
FLE-WTR-MUR-Q1-22	220101443	1/5/22	0715	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1	X			
FLE-WTR-MUR-Q1-22	220101437	1/5/22	0715	Composite	Wwater	Plastic	8 oz	HNO3	1		X		
FLE-WTR-MUR-Q1-22	220101438	1/5/22	0715	Grab	Wwater	Amb GI	1 Liter	None	1		X		
FLE-WTR-MUR-Q1-22	220101439	1/5/22	0715	Grab	Wwater	Plastic	8 oz	None	1			X	
FLE-WTR-MUR-Q1-22	220101440	1/5/22	0715	Grab	Wwater	Plastic	8 oz	H2SO4	1				X
FLE-WTR-MUR-Q1-22	220101441	1/5/22	0715	Composite	Wwater	Amb GI	250ml	HCl	1				X
Equipment Blank	220101442	1/5/22	0715	Grab	Wwater	Amb GI	250ml	HCl	1				X
Relinquished By: (Signature and Printed Name) <u>Jessica Barrett</u>				Received By: (Signature and Printed Name) <u>Danner Brown</u>				Custody Seals: <input checked="" type="checkbox"/> Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>					
Relinquished By: (Signature and Printed Name) <u>Jessica Barrett</u>				Received By: (Signature and Printed Name) <u>Danner Brown</u>				Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>					
Relinquished By: (Signature and Printed Name) <u>Danner Brown</u>				Received By: (Signature and Printed Name) <u>Danner Brown</u>				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Cool all samples to ≤ 6 degrees C with ice.				Field Test				Result					
Comments:				Analyst: _____				Units					
				Time: _____									
				Reading: _____									
				Units: _____									
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)				Chlorinated? Y N				Fecal Start: _____					
Tl(81.PS), Pb(82.PS)													
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD													
This Document is Page 1 of 1													

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2205010326
 Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No.: 2455 / AR00020303
 Report Date: 06/16/22
 Sample Date: 05/10/22
 Sample Time: 0720
 Sample Type: GRAB/COMP/WWATER
 Sample From: FLE-WTR-MCR-Q2-22
 Collected By: KAYLA JONES
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Quality Assurance Accuracy % Recovery
05/23	0645	NTR	< 50.00	ug/L		EPA 200.8	1.44	98.7 *
05/20	0405	NTR	< 0.0100	mg/L		SM 2011 4500-CN E	16.67	92.3
05/31	1350	ACZ	1.200	ng/L		EPA 1631E		
06/01	1040	AAC	6.6	mg/L		02/2014 HACH 10242		
06/15	1548	ACL	8.2690	mg/L		HACH 10206	2.99	116.0 *
06/15	1555	ACL	< 0.0150	mg/L		EPA 354.1	1.50	108.0
05/13	0500	NTR	0.005	mg/L		EPA 420.1	12.72	95.0
05/23	0645	NTR	< 20.00	ug/L		EPA 200.8	13.33	97.9 *
06/15	1430	ACL	1.620	mg/L		EPA 365.1	0.29	99.2 *
05/16	1457	AAC	198.0	mg/L		SM 2011 2540 C	5.15	102.0
05/23	0645	NTR	< 20.00	ug/L		EPA 200.8	11.45	N/A *
05/23	0645	NTR	< 20.00	ug/L		EPA 200.8	0.69	100.8 *
05/23	0645	NTR	< 20.00	ug/L		EPA 200.8	1.10	102.2 *
05/23	0645	NTR	< 50.00	ug/L		EPA 200.8	2.27	106.1 *
05/23	0645	NTR	< 10.00	ug/L		EPA 200.8	0.93	101.5 *
05/23	0645	NTR	< 15.00	ug/L		EPA 200.8	0.77	102.5 *
05/23	0645	NTR	< 50.00	ug/L		EPA 200.8	1.69	97.0 *
05/23	0645	NTR	< 120.0	ug/L		EPA 200.8	0.82	93.6 *
05/23	0645	NTR	< 20.00	ug/L		EPA 200.8	0.08	98.9 *
05/23	0645	NTR	< 10.00	ug/L		EPA 200.8	0.40	98.0 *
05/23	0645	NTR	< 50.000	ug/L		EPA 200.8	0.68	104.2 *
05/23	0645	NTR	35.29	ug/L		EPA 200.8	0.62	101.1 *

* QA data shown is from a different sample or standard on the same date.

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Control Number: 2205010327
 Customer Name : NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No. : 2455 / AR00020303
 Report Date : 06/09/22
 Sample Date : 05/10/22
 Sample Time : 0720
 Sample Type : GRAB/WWATER
 Sample From : EQUIPMENT BLANK
 Collected By: KAYLA JONES
 Delivery By : MER
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Date</u> 05/31	<u>Time By</u> 1354 ACZ	<u>Parameter</u> Mercury, low level	
		<u>Result</u> < 0.300 ng/L	
		<u>Notes</u>	
		<u>Quantity</u>	<u>Method</u> EPA 1631E
			<u>Quality Assurance</u>
			Precision % RPD
			Accuracy % Recovery

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 Environmental Services Co., Inc.

Handwritten initials

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 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #:											
Address: P.O. Box 17898				Purchase Order #: <u>212446 220847</u>											
Phone: North Little Rock, AR 72117				Work Order #											
Fax: 501-945-7186				Sampler Name(s): <u>Kayla Jones</u>											
Contact: 501-945-2367				and Signature(s): <u>Bryan Croft</u>											
ESC Client Number: 2455 Effluent Quarterly															
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	Phenols (24.2)	NO3(18.), Total P(25.)	Metals(See Comments)	NO2(19.)	Mercury(16.31)
<u>FF-07R-MER-00-20</u>	<u>2205010326</u>	<u>5/10/22</u>	<u>0700</u>	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
<u>FF-07R-MER-00-20</u>		<u>5/10/22</u>	<u>0700</u>	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	2	X					
<u>FF-07R-MER-00-20</u>		<u>5/10/22</u>	<u>0700</u>	Grab	Wwater	Plastic	8 oz	H2SO4	1		X				
<u>FF-07R-MER-00-20</u>		<u>5/10/22</u>	<u>0700</u>	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1					X	
<u>FF-07R-MER-00-20</u>		<u>5/10/22</u>	<u>0700</u>	Composite	Wwater	Plastic	8 oz	HNO3 to pH < 2	2				X		
<u>FF-07R-MER-00-20</u>		<u>5/10/22</u>	<u>0700</u>	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1					X	
Equipment Blank	2205010327	<u>5/10/22</u>	<u>0700</u>	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1					X	
Received By: (Signature and Printed Name) <u>Kayla Jones</u>				Received By: (Signature and Printed Name) <u>Mike Becker / Mike (holder)</u>				Custody Seals: Used? <input type="checkbox"/> Intact? <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name) <u>Mike Becker / Mike Jones</u>				Received By: (Signature and Printed Name) <u>SE CUSTODY IN CUSTODY</u>				Turnaround: Regular <input type="checkbox"/> Special <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name) <u>SE CUSTODY COOLER</u>				Received for Lab By: (Signature and Printed Name) <u>ABEERVA COOLER</u>				Were samples properly preserved: Yes <input type="checkbox"/> No <input type="checkbox"/>							
Date: <u>5/10/22</u>				Date: <u>5/10/22</u>				Date: <u>5-11-22</u>							
Time: <u>0700</u>				Time: <u>0700</u>				Time: <u>0900</u>							
Comments:				Flow Data				Field Test							
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)				Analyst:				Result							
Tl(81.PS), Pb(82.PS),				Time:				Result							
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Reading:				Result							
				Units:				Units							
				Fecal Start:				Result							
This Document is Page 1 of 2															

Sub

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Control Number: 2208010363
Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
Customer/Permit No.: 2455 / AR00020303
Report Date: 09/23/22
Composite Date: 08/15/22 -08/16/22
Sample Time: 0710-0705; 0705
Sample Type: GRAB/COMP WWATER
Sample From: FLE-WTR-MCR-Q3-22
Collected By: BRYAN CROFT/KAY
Delivery By: MER
Work Order:
Purchase Order:

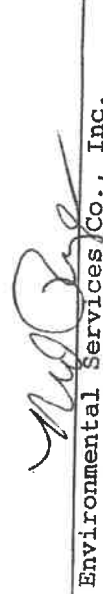
Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Accuracy & Recovery
08/25	0233 JFT	Beryllium	< 10.00 ug/L			EPA 200.8	2.69	101.8 *
08/19	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	11.76	106.2 *
08/29	1349 ACZ	Mercury, low level	1.150 ng/L			EPA 1631E	1.05	100.0 *
08/18	0455 NTR	Nitrate Nitrogen	8.8800 mg/L			HACH 10206	0.34	101.8 *
08/18	0430 NTR	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	1.92	96.7 *
08/19	0500 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	9.71	103.0 *
08/25	1647 JFT	Chromium	< 20.00 ug/L			EPA 200.8	0.19	98.5 *
08/22	0425 NTR	Phosphorus, Total (as P)	1.470 mg/L			EPA 365.1	1.40	98.0 *
08/25	1647 JFT	Nickel	< 10.00 ug/L			EPA 200.8	3.62	98.5 *
08/25	1647 JFT	Copper	< 20.00 ug/L			EPA 200.8	4.02	98.6 *
08/25	1647 JFT	Zinc	41.13 ug/L			EPA 200.8	1.72	100.0 *
08/25	1647 JFT	Arsenic	15.11 ug/L			EPA 200.8	0.70	98.5 *
08/25	1647 JFT	Selenium	< 15.00 ug/L			EPA 200.8	2.32	98.5 *
08/25	1647 JFT	Molybdenum	< 50.00 ug/L			EPA 200.8	0.22	93.5 *
08/25	1647 JFT	Silver	< 10.0 ug/L			EPA 200.8	0.11	91.4 *
08/25	1647 JFT	Cadmium	< 50.00 ug/L			EPA 200.8	1.63	99.8 *
08/25	1647 JFT	Antimony	< 20.00 ug/L			EPA 200.8	0.04	101.0 *
08/25	1647 JFT	Thallium	< 20.000 ug/L			EPA 200.8	0.30	99.6 *
08/25	1647 JFT	Lead	< 10.00 ug/L			EPA 200.8	0.22	99.4 *

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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2208010364
 Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No.: 2455 / AR00020303
 Report Date: 09/23/22
 Sample Date: 08/16/22
 Sample Time: 0705
 Sample Type: GRAB WWATER
 Sample From: EQUIPMENT BLANK
 Collected By: BRYAN CROFT/KAY
 Delivery By: MER
 Work Order:
 Purchase Order:

<p>Analysis Date <u>08/29</u> Time <u>1356</u> By <u>ACZ</u> Parameter <u>Mercury, low level</u> Result <u>0.330 ng/L</u> Notes Quantity Method <u>EPA 1631E</u></p>	<p>Quality Assurance Precision % RPD <u>1.05</u> Accuracy % Recovery <u>100.0 *</u></p>
--	---

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CHAIN OF CUSTODY

Springdale, Arkansas
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 Carlsbad, New Mexico
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 888-372-3477

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: <u>221490</u>											
Address: P.O. Box 17898				Purchase Order #: <u>221490</u>											
Phone: North Little Rock, AR 72117				Work Order #											
Fax: 501-945-7186				Sampler Name(s): <u>Bayan Croft</u>											
Contact: 501-945-2367				and Signature(s): <u>Kayla Jones</u>											
ESC Client Number: 2455 Effluent Quarterly															
Sample Identification		Sample Collection		Sample Containers		Sample Containers		Sample Containers		Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Phenols (24.2)	NO3(18), Total P(25)	Metals(See Comments)	NO2(19), TDS(27) <u>ML</u>	Mercury(18.31)	
FILE-WTR-MCR-03-22	220810364	8-16-22	0705	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
FILE-WTR-MCR-03-22		8-16-22	0705	Grab	Wwater	Glass	1 Liter	NaOH+H2SO4	1		X				
FILE-WTR-MCR-03-22		8-16-22	0705	Grab	Wwater	Plastic	8 oz	H2SO4	1		X				
FILE-WTR-MCR-03-22		8-16-22	0705	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1			X			
FILE-WTR-MCR-03-22		8-16-22	0705	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1			X			
FILE-WTR-MCR-03-22		8-16-22	0705	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X		
Equipment Blank		8-16-22	0705	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1					X	
Relinquished By: (Signature and Printed Name) <u>Kayla Jones</u>				Received By: (Signature and Printed Name) <u>Bayan Croft</u>				Date: <u>8-16-22</u>				Time: <u>14:27</u>			
Relinquished By: (Signature and Printed Name) <u>Kayla Jones</u>				Received By: (Signature and Printed Name) <u>Bayan Croft</u>				Date: <u>8-16-22</u>				Time: <u>15:04</u>			
Relinquished By: (Signature and Printed Name) <u>Kayla Jones</u>				Received By: (Signature and Printed Name) <u>Bayan Croft</u>				Date: <u>8-16-22</u>				Time: <u>15:04</u>			
Comments:				Flow Data				Field Test				Result			
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)				Analyst: <u>Bayan Croft</u>				Time: <u>15:04</u>				Result: <u>1504</u>			
Ti(81.PS), Pb(82.PS).				Time: <u>15:04</u>				Time: <u>15:04</u>				Result: <u>1504</u>			
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Units: <u>1504</u>				Time: <u>15:04</u>				Result: <u>1504</u>			
Start Time: <u>8-15-22 at 0710</u>				Fecal Start:				Time: <u>15:04</u>				Result: <u>1504</u>			
End Time: <u>8-16-22 at 0705</u>				Fecal Start:				Time: <u>15:04</u>				Result: <u>1504</u>			

AMW

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Northwest Arkansas Branch
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Control Number: 2210010404
 Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
 Customer/Permit No.: 2455 / AR00020303
 Report Date: 11/15/22
 Composite Date: 10/25/22 -10/26/22
 Sample Time: 0716-0710/0710(10/26
 Sample Type: COMP/GRAB WWATER
 Sample From: FLE-WTR-MCR-Q4-22
 Collected By: BRYAN CROFT/KAY
 Delivery By: NTR
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Result		Notes	Quantity	Method	Quality Assurance	
Date	Time BY	Parameter	Result	Notes	Quantity	Method	% RPD	Accuracy % Recovery
11/03	1736 JFT	Beryllium	< 5.00 ug/L			EPA 200.8	2.22	96.7 *
11/02	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.00	104.0 *
11/11	1106 ACZ	Mercury, low level	1.270 ng/L			EPA 1631E	5.01	91.0 *
11/01	1130 DWC	Nitrate Nitrogen	15.6600 mg/L			HACH 10206	2.67	105.0 *
11/01	1030 DWC	Nitrite Nitrogen	0.3400 mg/L			EPA 354.1	4.11	108.0 *
10/31	0430 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	0.00	109.7 *
11/03	1736 JFT	Chromium	25.21 ug/L			EPA 200.8	0.04	111.3 *
10/27	0908 SLK	Phosphorus, Total (as P)	7.4400 mg/L			EPA 365.1	0.00	100.0 *
11/03	1736 JFT	Nickel	3.27 ug/L			EPA 200.8	0.66	98.4 *
11/03	1736 JFT	Copper	< 3.00 ug/L			EPA 200.8	2.07	98.9 *
11/03	1736 JFT	Zinc	53.39 ug/L			EPA 200.8	7.76	101.9 *
11/03	1736 JFT	Arsenic	< 10.00 ug/L			EPA 200.8	0.74	102.7 *
11/03	1736 JFT	Selenium	< 10.00 ug/L			EPA 200.8	3.42	107.5 *
11/03	1736 JFT	Molybdenum	< 10.00 ug/L			EPA 200.8	1.34	92.9 *
11/03	1736 JFT	Silver	8.2 ug/L			EPA 200.8	1.31	104.1 *
11/03	1736 JFT	Cadmium	< 4.00 ug/L			EPA 200.8	1.39	95.7 *
11/03	1736 JFT	Antimony	< 20.00 ug/L			EPA 200.8	0.56	98.3 *
11/03	1736 JFT	Thallium	< 10.000 ug/L			EPA 200.8	3.11	93.5 *
11/03	1736 JFT	Lead	< 10.00 ug/L			EPA 200.8	2.85	97.5 *

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JFT

Signature



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Control Number: 2210010405
Customer Name: NORTH LITTLE ROCK-FAULKNER EFF
Customer/Permit No.: 2455 / AR00020303
Report Date: 11/15/22
Sample Date: 10/26/22
Sample Time: 0710
Sample Type: GRAB WATER
Sample From: EQUIPMENT BLANK
Collected By: BRYAN CROFT/KAY
Delivery By: NTR
Work Order:
Purchase Order:

Laboratory Analysis			
Date	Time By	Parameter	Result
11/11	1106	ACZ Mercury, low level	0.420 ng/L
			Notes
			Quantity
			Method
			EPA 1631E

Quality Assurance
Precision
% RPD 5.01
Accuracy
% Recovery 91.0 *

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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: 200137											
Address: P.O. Box 17898				Purchase Order #: 200137											
Phone: North Little Rock, AR 72117				Work Order #											
Fax: 501-945-7186				Sampler Name(s): Kayla Jones											
Contact: Ms. Marybeth Eggleston				and Signature(s): Bryan Craft											
ESC Client Number: 2455 Effluent Quarterly															
Sample Identification		Sample Collection		Sample Containers		Sample Containers		Sample Containers		Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	NO3(18), Total P(25)	Metals(See Comments)	NO2(19)	Mercury(16.31)	
FE-WTR-MCR-04-02	2210010404	10/26/22	0710	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
FE-WTR-MCR-04-02		10/26/22	0710	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1		X				
FE-WTR-MCR-04-02		10/26/22	0710	Grab	Wwater	Plastic	8 oz	H2SO4	1						
FE-WTR-MCR-04-02		10/26/22	0710	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1		X				
FE-WTR-MCR-04-02		10/26/22	0710	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1			X			
FE-WTR-MCR-04-02		10/26/22	0710	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X		
Equipment Blank	2210010405	10/26/22	0710	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1					X	
Requisitioned By: (Signature and Printed Name) Bryan Craft		Date 10/26/22		Received By: (Signature and Printed Name) Ned Rye		Date 10/26/22		Time 1110		Custody Seals: Used? <input type="checkbox"/>		Intact? <input type="checkbox"/>			
Requisitioned By: (Signature and Printed Name) Ned Rye		Date 10/26/22		Received By: (Signature and Printed Name) Bryan Craft		Date 10/26/22		Time 1520		Custody Seals: Used? <input type="checkbox"/>		Intact? <input type="checkbox"/>			
Requisitioned By: (Signature and Printed Name) Ned Rye		Date 10/26/22		Received By: (Signature and Printed Name) Bryan Craft		Date 10/26/22		Time 1520		Custody Seals: Used? <input type="checkbox"/>		Intact? <input type="checkbox"/>			
Comments:				Flow Data				Field Test							
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS)				Analyst: _____				Time: _____							
Ti(81.PS), Pb(82.PS)				Reading: _____				Units: _____							
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Time: _____				Units: _____							

Start Time & Date: 10/25/22 at 0716 am
 End Time & Date: 10/26/22 at 0710 am
 DWO

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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010439 Composite Date: 01/04/22 -01/05/22 Collected By: J. BARRETT/B. C
 Customer Name : NORTH LITTLE ROCK-FAULKNER INF Sample Time : 0735-0735 Delivery By : J. BARRETT
 Customer/Permit No. : 2456 / AR00020303 Sample Type : COMP/GRAB WWATER Work Order :
 Report Date : 01/17/22 Sample From : FLI-WTR-MCR-Q1-22 Purchase Order :

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								% RPD	Accuracy % Recovery
01/11	0457	NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	0.11	90.5 *
01/07	0405	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.11	96.5 *
01/10	1230	NTR	Phenolics	0.15 mg/L			EPA 420.1	0.00	100.2 *
01/11	0457	NTR	Chromium	< 0.02000 mg/L			EPA 200.8	0.21	97.2 *
01/11	0457	NTR	Nickel	< 0.02000 mg/L			EPA 200.8	0.01	93.9 *
01/11	0457	NTR	Copper	0.0760 mg/L			EPA 200.8	1.67	93.9 *
01/11	0457	NTR	Zinc	0.1860 mg/L			EPA 200.8	3.41	82.9 *
01/11	0457	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	0.23	86.9 *
01/11	0457	NTR	Selenium	< 0.0150 mg/L			EPA 200.8	0.52	84.4 *
01/11	0457	NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.56	89.2 *
01/11	0457	NTR	Silver	< 0.12000 mg/L			EPA 200.8	0.78	81.7 *
01/11	0457	NTR	Cadmium	< 0.02000 mg/L			EPA 200.8	0.12	85.8 *
01/13	1400	NTR	Mercury	< 0.0050 mg/L			EPA 245.1	0.32	89.8 *
01/11	0457	NTR	Antimony	< 0.0100 mg/L			EPA 200.8	0.17	76.7 *
01/11	0457	NTR	Thallium	< 0.0500 mg/L			EPA 200.8	0.31	81.7 *
01/11	0457	NTR	Lead	< 0.01000 mg/L			EPA 200.8	0.12	83.6 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

JMT

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Springdale, Arkansas
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 Carlsbad, New Mexico
 575-887-1ESC



CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters					
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: 212480				Metals (See Comments)					
Address: P.O. Box 17898				Purchase Order #: 212480				Phenols (24)					
Phone: North Little Rock, AR 72117				Work Order #				Cyanide (9)					
Fax: 501-945-7186				Sampler Name(s): Jason Barrett				X					
Contact: 501-945-2367				and Signature(s): <i>Jason Barrett</i>				X					
ESC Client Number: 2456 Influent Quarterly								X					
Sample Identification		Sample Collection		Sample Containers									
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	#					
FLI-WTR-MCR-01-21	2201010429	1/5/22	0735	Grab	Wwater	8 oz	NaOH+Asc. Acid	1					
FLI-WTR-MCR-01-22		1/5/22	0735	Grab	Wwater	1 Liter	CUSO4+H2SO4	1					
FLI-WTR-MCR-01-23		1/5/22	0735	Composite	Wwater	8 oz	HNO3	1					
Relinquished By: (Signature and Printed Name) <i>Jason Barrett</i>				Received By: (Signature and Printed Name) <i>Summer Brown</i>				Date: 1/5/22		Date: 1/5/22		Time: 1430	
Relinquished By: (Signature and Printed Name) <i>Summer Brown</i>				Received By: (Signature and Printed Name) <i>Summer Brown - Neddy</i>				Date: 1/5/22		Date: 1-5-22		Time: 1606	
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Tl(81.HW), Pb(82.HW), Hg (50.15)				Field Test				Date		Time		Analyst	
Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Date		Time		Analyst	
Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Chlorinated? Y N				Date		Time		Analyst	
Units:				Fecal Start:				Date		Time		Analyst	
This Document is Page 1 of 1								Date		Time		Analyst	

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Control Number: 2205010328
 Customer Name : NORTH LITTLE ROCK-FAULKNER INF
 Customer/Permit No. : 2456 / AR00020303
 Report Date : 05/26/22
 Sample Date : 05/10/22
 Sample Time : 0710
 Sample Type : GRAB/COMP/WWATER
 Sample From : FLI-WTR-MCR-Q2-22
 Collected By: KAYLA JONES
 Delivery By :
 Work Order :
 Purchase Order :

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Quality Assurance Accuracy & Recovery
05/23	0645	NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	1.44	98.7 *
05/20	0405	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	16.67	92.3 *
05/13	0500	NTR	Phenolics	0.16 mg/L			EPA 420.1	6.90	102.7 *
05/23	0645	NTR	Chromium	< 0.02000 mg/L			EPA 200.8	0.29	99.2 *
05/23	0645	NTR	Nickel	< 0.02000 mg/L			EPA 200.8	0.69	100.8 *
05/23	0645	NTR	Copper	0.0286 mg/L			EPA 200.8	1.10	102.2 *
05/23	0645	NTR	Zinc	0.1460 mg/L			EPA 200.8	2.27	106.1 *
05/23	0645	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	0.93	101.5 *
05/23	0645	NTR	Selenium	< 0.0150 mg/L			EPA 200.8	0.77	102.5 *
05/23	0645	NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	1.69	97.0 *
05/23	0645	NTR	Silver	< 0.12000 mg/L			EPA 200.8	0.78	93.6 *
05/23	0645	NTR	Cadmium	< 0.02000 mg/L			EPA 200.8	0.08	98.9 *
05/19	1330	AAC	Mercury	< 0.0050 mg/L			EPA 245.1	0.00	79.0 *
05/23	0645	NTR	Antimony	0.0145 mg/L			EPA 200.8	0.40	98.0 *
05/23	0645	NTR	Thallium	< 0.0500 mg/L			EPA 200.8	0.68	104.2 *
05/23	0645	NTR	Lead	0.03680 mg/L			EPA 200.8	0.62	101.1 *

* QA data shown is from a different sample or standard on the same date.

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Signature


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CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #:											
Address: P.O. Box 17898				Purchase Order #: 214410 220847											
Phone: North Little Rock, AR 72117				Work Order #											
Fax: 501-945-7186				Sampler Name(s): Kayla Jones											
Contact: 501-945-2367				and Signature(s): Bryan Croft											
ESC Client Number: 2456 Influent Quarterly															
Sample Identification		Sample Collection		Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	Type	Volume	Preservative	#				
ELI-WIR-MR-02-20	220501032B	5/10/22	0710	Grab	Wwater	8 oz	NaOH+Asc Acid	Plastic	8 oz		1				
ELI-WIR-MR-02-20		5/10/22	0710	Grab	Wwater	1 Liter	CuSO4+H2SO4	Glass	1 Liter		1				
ELI-WIR-MR-02-20		5/10/22	0710	Composite	Wwater	8 oz	HNO3	Plastic	8 oz		1				
Relinquished by: (Signature and Printed Name) <i>Kayla Jones</i> Date: 5/10/22 Time: 1415 Received by: (Signature and Printed Name) <i>Archie Mueland</i> Date: 5/10/22 Time: 1519 Relinquished by: (Signature and Printed Name) <i>Archie Mueland / Michelle Kalkreuth</i> Date: 5/10/22 Time: 1519 Received by: (Signature and Printed Name) <i>ASTREYA CLARKE</i> Date: 5-11-22 Time: 0900 Note: all samples 0 to 6 degrees C with ice.															
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Pb(81.HW), P(82.HW), Hg(50.15), Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Flow Data				Field Test				Analyt			
				Analyst: <i>ASTREYA CLARKE</i>				Result				Result			
				Time:				Result				Result			
				Units:				Result				Result			
				Chlorinated? Y N				Fecal Start:				Result			
This Document is Page 1 of 2															

AKB

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1107 Century Avenue
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Control Number: 2208010365
Customer Name : NORTH LITTLE ROCK-FAULKNER INF
Customer/Permit No. : 2456 / AR00020303
Report Date : 09/12/22
Composite Date: 08/15/22 -08/16/22
Sample Time : 0715-0725; 0725
Sample Type : GRAB/COMP WWATER
Sample From : FLI-WTR-MCR-Q3-22
Collected By: BRYAN CROFT/KAY
Delivery By : MER
Work Order :
Purchase Order :

Laboratory Analysis

Analysis		Parameter		Result	Notes	Quantity	Method	Quality Assurance	
Date	Time By							Precision % RPD	Accuracy % Recovery
08/25	0233 JFT	Beryllium		< 0.0500 mg/L			EPA 200.8	1.50	98.2
08/19	0515 NTR	Cyanide Total (HACH 10265		< 0.0100 mg/L			SM 2011 4500-CN E	11.76	106.2
08/19	0500 NTR	Phenolics		0.09 mg/L			EPA 420.1	8.00	95.2
08/25	1647 JFT	Chromium		< 0.02000 mg/L			EPA 200.8	0.20	98.5
08/25	1647 JFT	Nickel		< 0.01000 mg/L			EPA 200.8	3.62	98.5
08/25	1647 JFT	Copper		0.0358 mg/L			EPA 200.8	4.01	98.6
08/25	1647 JFT	Zinc		0.1340 mg/L			EPA 200.8	1.62	100.0
08/25	1647 JFT	Arsenic		0.0138 mg/L			EPA 200.8	0.71	98.5
08/25	1647 JFT	Selenium		< 0.0150 mg/L			EPA 200.8	2.31	98.5
08/25	1647 JFT	Molybdenum		< 0.0500 mg/L			EPA 200.8	0.23	93.5
08/25	1647 JFT	Silver		< 0.01000 mg/L			EPA 200.8	0.12	91.4
08/25	1647 JFT	Cadmium		< 0.05000 mg/L			EPA 200.8	1.63	99.8
08/18	1200 AAC	Mercury		< 0.0050 mg/L			EPA 245.7	15.90	89.0
08/25	1647 JFT	Antimony		< 0.0200 mg/L			EPA 200.8	0.10	101.0
08/25	1647 JFT	Thallium		< 0.0200 mg/L			EPA 200.8	0.33	99.6
08/25	0811 JFT	Lead		< 0.05000 mg/L			EPA 200.8	0.22	99.4

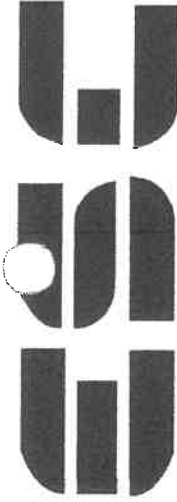
* QA data shown is from a different sample or standard on the same date.

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Signature *Neil Page*
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CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170

Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #:							
Address: P.O. Box 17898				Purchase Order #: <u>221490</u>							
Phone: North Little Rock, AR 72117				Work Order #:							
Fax: 501-945-7186				Sampler Name(s): <u>Bryan Craft</u>							
Contact: 501-945-2367				and Signature(s): <u>Kayla Jones</u>							
ESC Client Number: 2456 Influent Quarterly											
Sample Identification		Sample Collection		Sample Containers		Phenols (24)		Cyanide (9)		Metals (See Comments)	
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#		
FLI-WTR-MCR-03-2022-08-16-22	010365	8-16-22	0725	Grab	Wwater	Plastic	8 oz	Ascorbic Acid	1	X	
FLI-WTR-MCR-03-2022-08-16-22		8-16-22	0725	Grab	Wwater	Glass	1 Liter	Ascorbic Acid + H2SO4	1	X	
FLI-WTR-MCR-03-2022-08-16-22		8-16-22	0725	Composite	Wwater	Plastic	8 oz	HNO3	1	X	
Relinquished By: (Signature and Printed Name) _____ Date: _____ Time: _____ Received By: (Signature and Printed Name) <u>Kayla Jones</u> Date: <u>8-16-22</u> Time: <u>1427</u> Relinquished By: (Signature and Printed Name) _____ Date: _____ Time: _____ Received By: (Signature and Printed Name) <u>Bryan Craft</u> Date: <u>8-16-22</u> Time: <u>1504</u> Relinquished By: (Signature and Printed Name) _____ Date: _____ Time: _____ Received By: (Signature and Printed Name) <u>Kayla Jones</u> Date: <u>8-16-22</u> Time: <u>1504</u>											
Cool all samples to ≤ 5 degrees C with ice.											
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Hg(81.HW), Pb(82.HW), Hg(50.15), Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD											
Units: _____											
Chlorinated? Y N											
Fecal Start: _____											
This Document is Page <u>2</u> of <u>2</u>											

Start Time: 8-15-22 at 0715
 End Time: 8-16-22 at 0725
 DJF

Environmental Services Company, Inc.

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Control Number: 2210010407
 Customer Name: NORTH LITTLE ROCK-FAULKNER INF
 Customer/Permit No.: 2456 / AR00020303
 Report Date: 11/07/22
 Composite Date: 10/25/22 -10/26/22
 Sample Time: 0726-0730/0730(10/26
 Sample Type: COMP/GRAB WWATER
 Sample From: FLI-WTR-MCR-Q4-22
 Collected By: BRYAN CROFT/KAY
 Delivery By: NTR
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Parameter		Result	Notes	Quantity	Method	Precision % RPD	Quality Assurance Accuracy % Recovery
Date	Time	By							
11/03	1736	JFT	Beryllium	< 0.0050 mg/L			EPA 200.8	0.77	93.4 *
11/02	0515	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.00	104.0 *
10/31	0430	NTR	Phenolics	0.06 mg/L			EPA 420.1	2.13	99.0 *
11/03	1736	JFT	Chromium	0.02617 mg/L			EPA 200.8	0.04	111.3 *
11/03	1736	JFT	Nickel	0.00349 mg/L			EPA 200.8	0.66	98.4 *
11/03	1736	JFT	Copper	0.0163 mg/L			EPA 200.8	2.12	98.9 *
11/03	1736	JFT	Zinc	0.1006 mg/L			EPA 200.8	7.76	101.9 *
11/03	1736	JFT	Arsenic	< 0.0100 mg/L			EPA 200.8	0.75	102.7 *
11/03	1736	JFT	Selenium	< 0.0100 mg/L			EPA 200.8	2.85	97.8 *
11/03	1736	JFT	Molybdenum	< 0.0100 mg/L			EPA 200.8	1.32	92.9 *
11/03	1736	JFT	Silver	0.00852 mg/L			EPA 200.8	0.80	105.5 *
11/03	1736	JFT	Cadmium	< 0.00400 mg/L			EPA 200.8	1.39	95.7 *
11/07	0900	NTR	Mercury	< 0.0050 mg/L			EPA 245.7	12.57	104.4 *
11/03	1736	JFT	Antimony	< 0.0200 mg/L			EPA 200.8	1.22	99.1 *
11/03	1736	JFT	Thallium	< 0.0100 mg/L			EPA 200.8	0.00	87.4 *
11/03	1736	JFT	Lead	< 0.01000 mg/L			EPA 200.8	2.85	97.5 *

* QA data shown is from a different sample or standard on the same date.

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 Signature _____ Environmental Services Co., Inc.

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Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170

Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/Faulkner Lake				Permit/Project #: <u>202137</u>							
Address: P.O. Box 17898				Purchase Order #: <u>202137</u>							
Phone: North Little Rock, AR 72117				Work Order #							
Fax: 501-945-7186				Sampler Name(s): <u>Boyle Jones</u>							
Contact: 501-945-2367				and Signature(s): <u>Bryan Craft</u>							
ESC Client Number: 2456 Influent Quarterly											
Sample Identification		Sample Collection		Sample Containers		Cyanide (9)		Metals (See Comments)			
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	Type	#		
<u>FLI-DTR-MCR-04-20</u>	<u>221010407</u>	<u>10/26/20</u>	<u>0756</u>	<u>Grab</u>	<u>Wwater</u>	<u>8 oz</u>	<u>H2O+Asc Acid</u>	<u>Plastic</u>	<u>1</u>		
<u>FLI-DTR-MCR-04-20</u>	<u>I</u>	<u>10/26/20</u>	<u>0756</u>	<u>Grab</u>	<u>Wwater</u>	<u>1 Liter</u>	<u>CUSO4+H2SO4</u>	<u>Glass</u>	<u>1</u>		
<u>FLI-DTR-MCR-04-20</u>	<u>I</u>	<u>10/26/20</u>	<u>0750</u>	<u>Composite</u>	<u>Wwater</u>	<u>8 oz</u>	<u>HNO3</u>	<u>Plastic</u>	<u>1</u>		
Relinquished By: (Signature and Printed Name) <u>Bryan Craft</u> Date <u>10/26/20</u> Time <u>1116</u> Received By: (Signature and Printed Name) <u>Shelley - Ned King</u> Date <u>10/26/20</u> Time <u>1110</u> Relinquished By: (Signature and Printed Name) <u>Shelley - Ned King</u> Date <u>10/26/20</u> Time <u>1520</u> Received By: (Signature and Printed Name) <u>Rebecca Jones</u> Date <u>10/26/20</u> Time <u>1520</u> Cool all samples to 76 degrees C with ice.											
Comments: <u>Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW)</u>				Analyst: <u>Rebecca Jones</u>							
<u>1(81.HW), Pb(82.HW), Hg(50.15)</u>				Time: <u>1116</u>							
<u>Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD</u>				Field Test							
Units:				Chlorinated? Y N							
This Document is Page <u>1</u> of <u>1</u>											

Start Date & Time: 10/25/20 at 0726am
 End Date & Time: 10/26/20 at 0750am

DJP

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010445
 Customer Name: NORTH LITTLE ROCK-FIVE MILE INF
 Customer/Permit No.: 2448 / AR00020320
 Report Date: 01/17/22
 Composite Date: 01/04/22 -01/05/22
 Sample Time: 0950-0950
 Sample Type: COMP/GRAB WWATER
 Sample From: FMI-WTR-MCR-Q1-22
 Collected By: J. BARRETT/B. C
 Delivery By: J. BARRETT
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision & RPD	Accuracy & Recovery
01/11	0457 NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	0.11	90.5 *
01/07	0405 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.11	96.5 *
01/10	1230 NTR	Phenolics	0.08 mg/L			EPA 420.1	0.00	100.2 *
01/11	0457 NTR	Chromium	< 0.02000 mg/L			EPA 200.8	0.21	97.2 *
01/11	0457 NTR	Nickel	< 0.02000 mg/L			EPA 200.8	0.01	93.9 *
01/11	0457 NTR	Copper	< 0.0200 mg/L			EPA 200.8	1.67	93.9 *
01/11	0457 NTR	Zinc	0.1870 mg/L			EPA 200.8	3.41	82.9 *
01/11	0457 NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	0.23	86.9 *
01/11	0457 NTR	Selenium	< 0.0150 mg/L			EPA 200.8	0.52	84.4 *
01/11	0457 NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.56	89.2 *
01/11	0457 NTR	Silver	< 0.12000 mg/L			EPA 200.8	0.78	81.7 *
01/11	0457 NTR	Cadmium	< 0.02000 mg/L			EPA 200.8	0.12	85.8 *
01/13	1400 NTR	Mercury	< 0.0050 mg/L			EPA 245.1	0.32	89.8 *
01/11	0457 NTR	Antimony	< 0.0100 mg/L			EPA 200.8	0.17	76.7 *
01/11	0457 NTR	Thallium	< 0.0500 mg/L			EPA 200.8	0.31	81.7 *
01/11	0457 NTR	Lead	0.10000 mg/L			EPA 200.8	0.12	83.6 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature  Environmental Services Co., Inc.

SM

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 website: www.eslabs.com



Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWJ/Five Mile Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2448 Influent Quarterly				Permit/Project #: <u>212480</u> Purchase Order #: <u>212480</u> Work Order # Sampler Name(s): <u>Jason Barrett</u> and Signature(s): <u>[Signature]</u>				Cyanide (9) Phenols (24) Metals (See Comments)			
Sample Identification		Sample Collection		Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#		
FME-WTR-MCE-01-22	2201010 445	1/5/22	0950	Grab	Wwater	Plastic	8 oz	NaOH	1	X	
FME-WTR-MCE-01-22	f	1/5/22	0950	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1	X	
FME-WTR-MCE-01-22	f	1/5/22	0950	Composite	Wwater	Plastic	8 oz	HNO3	1	X	
Relinquished By: <u>[Signature]</u> (Signature and Printed Name) Date: <u>1/5/22</u> Time: <u>1430</u> Received By: <u>[Signature]</u> (Signature and Printed Name) Date: <u>1/5/22</u> Time: <u>1430</u> Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>											
Relinquished By: <u>[Signature]</u> (Signature and Printed Name) Date: <u>1/5/22</u> Time: <u>1606</u> Received By: <u>[Signature]</u> (Signature and Printed Name) Date: <u>1/5/22</u> Time: <u>1606</u> Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>											
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Tl(81.HW), Pb(82.HW), Hg(50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD Cool all samples to ≤ 5 degrees C with ice.											
Flow Data Analyst: _____ Field Test: _____ Reading: _____ Units: _____ Chlorinated? Y N Fecal Start: _____											
This Document is Page <u>1</u> of <u>1</u>											

[Handwritten initials]

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010443
 Customer Name: NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No.: 2447 / AR00020320
 Report Date: 01/21/22

Sample Date: 01/05/22
 Sample Time: 1000
 Sample Type: COMP/GRAB WWATER
 Sample From: FME-WTR-MCR-Q1-22

Collected By: J. BARRETT/B. C
 Delivery By: J. BARRETT
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/11	0457 NTR	Beryllium	< 50.00 ug/L			EPA 200.8	1.58	105.1 *
01/07	0405 NTR	Cyanide Total (HACH 10265)	< 0.0100 mg/L			SM 2011 4500-CN E	3.11	96.5 *
01/11	1131 ARA	Mercury, low level	2.770 ng/L			EPA 1631E	5.70	100.0 *
01/06	1335 EJD	Total Kjeldahl Nitrogen	11.9 mg/L			02/2014 HACH 10242	5.43	109.0 *
01/07	1045 KSR	Nitrate Nitrogen	0.4490 mg/L			HACH 10206	2.05	98.3 *
01/07	1115 KSR	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	0.00	99.0 *
01/10	1230 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	2.06	96.6 *
01/11	0457 NTR	Chromium	< 20.00 ug/L			EPA 200.8	0.21	97.2 *
01/13	1640 EJC	Phosphorus, Total (as P)	1.470 mg/L			EPA 365.1	3.39	102.0 *
01/06	1430 EJD	Solids, Total Dissolved	1658.0 mg/L			SM 2011 2540 C	21.51	N/A
01/11	0457 NTR	Nickel	< 20.00 ug/L			EPA 200.8	0.01	93.9 *
01/11	0457 NTR	Copper	< 20.00 ug/L			EPA 200.8	1.67	93.9 *
01/11	0457 NTR	Zinc	< 50.00 ug/L			EPA 200.8	6.00	82.9 *
01/11	0457 NTR	Arsenic	< 10.00 ug/L			EPA 200.8	0.23	86.9 *
01/11	0457 NTR	Selenium	< 15.00 ug/L			EPA 200.8	0.52	84.4 *
01/11	0457 NTR	Molybdenum	< 50.00 ug/L			EPA 200.8	0.56	89.2 *
01/11	0457 NTR	Silver	< 120.0 ug/L			EPA 200.8	0.56	81.7 *
01/11	0457 NTR	Cadmium	< 20.00 ug/L			EPA 200.8	0.12	85.8 *
01/11	0457 NTR	Antimony	< 10.00 ug/L			EPA 200.8	0.17	76.7 *
01/11	0457 NTR	Thallium	< 50.000 ug/L			EPA 200.8	0.31	81.7 *
01/11	0457 NTR	Lead	21.90 ug/L			EPA 200.8	0.12	83.6 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature  Environmental Services Co., Inc.

12/1

Data Release authorized by:

Ned Ryerson, Laboratory Manager

Laboratory control samples were monitored for all analytes of interest.


Analysis Date: 01/12/22
 Analysis Time: 1616
 Analyst: ARA
 Method: SW 8081B, Rev 2, 2007
 System Monitoring Compounds
 Decachlorobiphenyl
 % Recovery 72.9%
 % Recovery Limits 44.1-108

QUALITY ASSURANCE DATA

Analyte	Result	Detection Limit
Chlorpyrifos	ND	0.01

Client:	Control Number:	Sample Type:	Sample Identification:
North Little Rock Five Mile Effluent	2201010443	Grab Wastewater	FME-WTR-MCR-Q1-22
Sample Date:	Sample Time:	Receipt Date:	Report Date:
01/05/22	1000	01/05/22	01/12/22

LABORATORY REPORT



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Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010444
 Customer Name: NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No.: 2447 / AR00020320
 Report Date: 01/21/22

Sample Date: 01/05/22
 Sample Time: 1000
 Sample Type: GRAB WWATER
 Sample From: EQUIPMENT BLANK

Collected By: J. BARRETT/B. C
 Delivery By: J. BARRETT
 Work Order:
 Purchase Order:

Laboratory Analysis			
Analysis	Parameter	Result	Notes
Date: 01/11 1136 ARA	Mercury, low level	< 0.500 ng/L	
			Quantity: EPA 1631E
			Method: EPA 1631E

Quality Assurance	
Precision % RPD	5.70
Accuracy % Recovery	100.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

MB



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 Carlsbad, New Mexico
 575-887-1ESC

CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/Five Mile				Permit/Project #:				Cyanide (9):				
Address: P.O. Box 17898				Purchase Order #: 212480				Phenols (24.2)				
Phone: North Little Rock, AR 72117				Work Order #:				Metals (See Comments)				
Fax: 501-945-7186				Sampler Name(s): Jovian Barnett Bryan Croft				Chlorpyrifos (99.PC) 1st quarter only				
Contact: Ms. Marybeth Eggleston				and Signature(s): Jovian Barnett Bryan Croft				TKN (16.C), NO2+NO3(91), Total P(25)				
ESC Client Number: 2447 Effluent Quarterly-1st								Mercury (16.31)				
Sample Identification			Sample Collection			Sample Containers						
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#			
FME-WTR-MCR-Q1-22	2201010443	1/5/22	1000	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X		
FME-WTR-MCR-Q1-22		1/5/22	1000	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1	X		
FME-WTR-MCR-Q1-22		1/5/22	1000	Composite	Wwater	Plastic	8 oz	HNO3	1		X	
FME-WTR-MCR-Q1-22		1/5/22	1000	Grab	Wwater	Amb GI	1 Liter	None	1		X	
FME-WTR-MCR-Q1-22		1/5/22	1000	Grab	Wwater	Plastic	8 oz	None	1			
FME-WTR-MCR-Q1-22		1/5/22	1000	Grab	Wwater	Plastic	8 oz	H2SO4	1			X
FME-WTR-MCR-Q1-22		1/5/22	1000	Composite	Wwater	Amb GI	250 ml	HCl	1			X
Equipment Blank	2201010444	1/5/22	1000	Grab	Wwater	Amb GI	250 ml	HCl	1			X
Relinquished By: (Signature and Printed Name) Jovian Barnett		Date	Time	Received By: (Signature and Printed Name) Dwaine Brown		Date	Time	Custody Seals:				
Relinquished By: (Signature and Printed Name) Jovian Barnett		1/5/22	1430	Received By: (Signature and Printed Name) Dwaine Brown		1/5/22	1430	Used?	Intact?			
Relinquished By: (Signature and Printed Name) Dwaine Brown		Date	Time	Received for Lab By: (Signature and Printed Name) Dwaine Brown		Date	Time	Turnaround:	Regular	Special		
Cool all samples to ≤ 6 degrees C with ice.		1/5/22	1606	Flow Data		1/5/22	1606	Were samples properly preserved:	Yes	No		
Comments:				Analyst:				Result				
				Time:				Result				
				Reading:				Units				
				Units:				Result				
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Ti(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Chlorinated? Y N				Fecal Start:				



PRO

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Control Number: 2205010330
Customer Name: NORTH LITTLE ROCK-FIVE MILE INF
Customer/Permit No.: 2448 / AR00020320
Report Date: 06/21/22
Sample Date: 05/10/22
Sample Time: 0920
Sample Type: GRAB/COMP/WWATER
Sample From: FMI-WTR-MCR-Q2-22
Collected By: KAYLA JONES
Delivery By: MER
Work Order:
Purchase Order:

Laboratory Analysis

Analysis		Parameter		Result	Notes	Quantity	Method	Quality Assurance	
Date	Time By							Precision % RPD	Accuracy % Recovery
05/23	0645 NTR	Beryllium		< 0.0500 mg/L			EPA 200.8	1.44	98.7 *
05/20	0405 NTR	Cyanide Total	(HACH 10265)	< 0.0100 mg/L			SM 2011 4500-CN E	16.67	92.3 *
05/13	0500 NTR	Phenolics		0.08 mg/L			EPA 420.1	6.90	102.7
05/23	0645 NTR	Chromium		< 0.02000 mg/L			EPA 200.8	0.29	99.2 *
05/23	0645 NTR	Nickel		< 0.02000 mg/L			EPA 200.8	0.69	100.8 *
05/23	0645 NTR	Copper		0.0259 mg/L			EPA 200.8	1.10	102.2 *
05/23	0645 NTR	Zinc		0.2090 mg/L			EPA 200.8	2.27	106.1 *
05/23	0645 NTR	Arsenic		< 0.0100 mg/L			EPA 200.8	0.93	101.5 *
05/23	0645 NTR	Selenium		< 0.0150 mg/L			EPA 200.8	0.77	102.5 *
05/23	0645 NTR	Molybdenum		< 0.0500 mg/L			EPA 200.8	1.69	97.0 *
05/23	0645 NTR	Silver		< 0.12000 mg/L			EPA 200.8	0.78	93.6 *
05/23	0645 NTR	Cadmium		< 0.02000 mg/L			EPA 200.8	0.08	98.9 *
05/19	1330 AAC	Mercury		< 0.0050 mg/L			EPA 245.1	0.00	79.0
05/23	0645 NTR	Antimony		< 0.0100 mg/L			EPA 200.8	0.40	98.0 *
05/23	0645 NTR	Thallium		< 0.0500 mg/L			EPA 200.8	0.68	104.2 *
05/23	0645 NTR	Lead		0.04780 mg/L			EPA 200.8	0.62	101.1 *

* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co., Inc.

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CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWUJ/Five Mile				Permit/Project #: <u>212480-220847</u>							
Address: P.O. Box 17898				Purchase Order #: <u>212480-220847</u>							
Phone: North Little Rock, AR 72117				Work Order #							
Fax: 501-945-7186				Sampler Name(s): <u>Kayla Jones</u>							
Contact: 501-945-2367				and Signature(s): <u>Bryan Croft</u>							
ESC Client Number: 2448 Influent Quarterly											

Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	Phenols (24)	Metals (See Comments)
FMT-WTR-MCR-02-22	2205010330	5/10/22	0900	Grab	Wwater	Plastic	8 oz	NiOH	1	X		
FMT-WTR-MCR-02-22	I	5/10/22	0900	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1		X	
FMT-WTR-MCR-02-22	I	5/10/22	0900	Composite	Wwater	Plastic	8 oz	HNO3	1		X	

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5-10-22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5-10-22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5-10-22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415
<i>Kayla Jones</i>	5/10/22	1415	<i>Kayla Jones</i>	5/10/22	1415

Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), Ag(33.HW), Ag(47.HW), Cd(48.HW), Tl(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD
 Cool all samples to ≤ 5 degrees C with ice.

Lab

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2205010398 Sample Date : 05/10/22 Collected By: KAYLA JONES
 Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF Sample Time : 0930 Delivery By : MER
 Customer/Permit No. : 2447 / AR00020320 Sample Type : GRAB/COMP/WWATER Work Order :
 Report Date : 06/16/22 Sample From : FME-WTR-Q2-MCR-22 Purchase Order :

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/23	0645 NTR	Beryllium	< 50.00 ug/L			EPA 200.8	1.44	98.7 *
05/20	0405 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	16.67	92.3 *
05/31	1359 ACZ	Mercury, low level	4.960 ng/L			EPA 1631E		
06/01	1040 AAC	Total Kjeldahl Nitrogen	12.3 mg/L			02/2014 HACH 10242		
06/15	1548 ACL	Nitrate Nitrogen	0.6160 mg/L			HACH 10206	2.99	116.0 *
06/15	1555 ACL	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	1.50	108.0 *
05/13	0500 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	12.72	95.0 *
05/23	0645 NTR	Chromium	< 20.00 ug/L			EPA 200.8	13.33	99.2 *
06/15	1430 ACL	Phosphorus, Total (as P)	1.530 mg/L			EPA 365.1	0.29	102.0 *
05/16	1457 AAC	Solids, Total Dissolved	108.0 mg/L			SM 2011 2540 C	5.15	102.0 *
05/23	0645 NTR	Nickel	< 20.00 ug/L			EPA 200.8	11.45	N/A *
05/23	0645 NTR	Copper	< 20.00 ug/L			EPA 200.8	0.69	100.8 *
05/23	0645 NTR	Zinc	95.46 ug/L			EPA 200.8	1.10	102.2 *
05/23	0645 NTR	Arsenic	< 10.00 ug/L			EPA 200.8	2.27	106.1 *
05/23	0645 NTR	Selenium	< 15.00 ug/L			EPA 200.8	0.93	101.5 *
05/23	0645 NTR	Molybdenum	< 50.00 ug/L			EPA 200.8	0.77	102.5 *
05/23	0645 NTR	Silver	< 120.0 ug/L			EPA 200.8	1.69	97.0 *
05/23	0645 NTR	Cadmium	< 20.00 ug/L			EPA 200.8	0.82	93.6 *
05/23	0645 NTR	Antimony	< 10.00 ug/L			EPA 200.8	0.08	98.9 *
05/23	0645 NTR	Thallium	< 50.000 ug/L			EPA 200.8	0.40	98.0 *
05/23	0645 NTR	Lead	34.91 ug/L			EPA 200.8	0.68	104.2 *
							0.62	101.1 *

* QA data shown is from a different sample or standard on the same date.

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Signature



Environmental Services Co., Inc.

PK

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
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 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2205010329
 Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No. : 2447 / AR00020320
 Report Date : 06/09/22

Sample Date : 05/10/22
 Sample Time : 0930
 Sample Type : GRAB/WWATER
 Sample From : EQUIPMENT BLANK

Collected By: KAYLA JONES
 Delivery By : MER
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis Date Time By	Parameter	Result	Notes	Quantity	Method	Quality Assurance Precision Accuracy & RPD % Recovery
05/31 1413 ACZ	Mercury, low level	< 0.300	ng/L		EPA 1631E	

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Signature 
 Environmental Services Co., Inc.

JMF

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CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/Five Mile Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2447 Effluent Quarterly				Permit/Project #: <u>212480 220847</u> Purchase Order #: <u>212480 220847</u> Work Order # Sampler Name(s): <u>Hayla Jones</u> and Signature(s): <u>Bryan Clark</u>				Cyanide (9) Phenols (24.2) NO3(18.), Total P(25.) Metals (See Comments) NO2(19.) Mercury(16.31)				
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#			
EME-WTR-MCR-02-22-02-22	220501039B	5/10/22	0930	Grab	Wwater	Plastic	8 oz	NaOH	1			
EME-WTR-MCR-02-22-02-22		5/10/22	0930	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1	X		
EME-WTR-MCR-02-22-02-22		5/10/22	0930	Grab	Wwater	Plastic	8 oz	H2SO4	1			
EME-WTR-MCR-02-22-02-22		5/10/22	0930	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1			
EME-WTR-MCR-02-22-02-22		5/10/22	0930	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1		X	
EME-WTR-MCR-02-22-02-22		5/10/22	0930	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1			X
Equipment Blank	2205010329	5/10/22	0930	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1			X
Relinquished by: (Signature and Printed Name) <u>Hayla Jones</u> Date <u>5/10/22</u> Time <u>1415</u> Received By: (Signature and Printed Name) <u>Maria Shuler</u> Date <u>5-10-22</u> Time <u>14:15</u> Relinquished by: (Signature and Printed Name) <u>Maria Shuler</u> Date <u>5/10/22</u> Time <u>1417</u> Received By: (Signature and Printed Name) <u>SECURE WALK IN COOLER</u> Date <u>5/10/22</u> Time <u>1417</u> Relinquished by: (Signature and Printed Name) <u>SECURE WALK IN COOLER</u> Date <u>5-11-22</u> Time <u>0900</u> Received By: (Signature and Printed Name) <u>AGTARNA CLARKE</u> Date <u>5-11-22</u> Time <u>0900</u> Cool all samples to ≤ 6 degrees C with ice.												
Comments:				Flow Data				Custody Seals:				
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Analyst: _____ Time: _____ Reading: _____ Units: _____ Chlorinated? Y N				Used? _____ Returned? _____ Regular _____ Were samples properly preserved: Yes _____ No _____ Result _____ Result _____ Result _____ Result _____				

Handwritten signature

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Control Number: 2208010369
 Customer Name: NORTH LITTLE ROCK-FIVE MILE INF
 Customer/Permit No. : 2448 / AR00020320
 Report Date : 09/13/22
 Composite Date: 08/15/22 -08/16/22
 Sample Time : 0651-0945/0945(8/16)
 Sample Type : COMP/GRAB WWATER
 Sample From : FMI-WTR-MCR-Q3-22
 Collected By: BRYAN CROFT/KAY
 Delivery By : MER
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/25	0233 JFT	Beryllium	< 0.0100 mg/L			EPA 200.8	1.50	98.2 *
08/19	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	11.76	106.2 *
08/19	0500 NTR	Phenolics	0.10 mg/L			EPA 420.1	8.00	95.2 *
08/25	1647 JFT	Chromium	< 0.02000 mg/L			EPA 200.8	0.20	98.5 *
08/25	1647 JFT	Nickel	< 0.01000 mg/L			EPA 200.8	3.62	98.5 *
08/25	1647 JFT	Copper	0.0449 mg/L			EPA 200.8	4.01	98.6 *
08/25	1647 JFT	Zinc	0.1407 mg/L			EPA 200.8	1.62	100.0 *
08/25	1647 JFT	Arsenic	0.0137 mg/L			EPA 200.8	0.71	98.5 *
08/25	1647 JFT	Selenium	< 0.0150 mg/L			EPA 200.8	2.31	98.5 *
08/25	1647 JFT	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.23	93.5 *
08/25	1647 JFT	Silver	< 0.01000 mg/L			EPA 200.8	0.12	91.4 *
08/25	1647 JFT	Cadmium	< 0.05000 mg/L			EPA 200.8	1.63	99.8 *
08/18	1200 AAC	Mercury	< 0.0050 mg/L			EPA 245.7	15.90	89.0 *
08/25	1647 JFT	Antimony	< 0.0200 mg/L			EPA 200.8	0.10	101.0 *
08/25	1647 JFT	Thallium	< 0.0200 mg/L			EPA 200.8	0.33	99.6 *
08/25	0811 JFT	Lead	< 0.05000 mg/L			EPA 200.8	0.22	99.4 *

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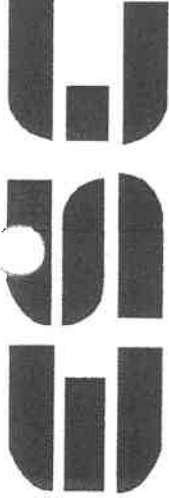
Signature



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Springdale, Arkansas
 479-750-1170

Carlsbad, New Mexico
 575-887-1ESC

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/Five Mile				Permit/Project #:								
Address: P.O. Box 17898				Purchase Order #: 201490								
Phone: North Little Rock, AR 72117				Work Order #:								
Fax: 501-945-7186				Sampler Name(s): Kella Jones Bryon Craft								
Contact: Ms. Marybeth Eggleston				and Signature(s): [Signature]								
ESC Client Number: 2448 Influent Quarterly												
Sample Identification		Sample Collection		Sample Containers								
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	Phenols (24)	Metals (See Comments)
FMT-WTR-MCR-03-20	2208010369	8-15-20	0945	Grab	Wwater	Plastic	8 oz	NaOH	1	X		
FMT-WTR-MCR-03-20	2208010369	8-15-20	0945	Grab	Wwater	Glass	1 Liter	H2SO4+H2SO4	1		X	
FMT-WTR-MCR-03-20	2208010369	8-15-20	0945	Composite	Wwater	Plastic	8 oz	HNO3	1			X
Received By: (Signature and Printed Name) [Signature] Date: 8/16/22 Time: 1427 Received By: (Signature and Printed Name) [Signature] Date: 8/15/22 Time: 1510 Received By: (Signature and Printed Name) [Signature] Date: 8/16/22 Time: 1516 Received By: (Signature and Printed Name) [Signature] Date: 8/16/22 Time: 1516												
COMMENTS: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Tl(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD Cool all samples to ≤ 5 degrees C with ice.												
Chlorinated? Y N Fecal Start:												

Start Time: 8-15-20/0651 JMB
 End Time: 8-15-20 at 0945

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2208010367
 Customer Name: NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No.: 2447 / AR00020320
 Report Date: 09/23/22
 Composite Date: 08/15/22 -08/16/22
 Sample Time: 0641-0950; 0950
 Sample Type: GRAB WWATER
 Sample From: FME-WTR-MCR-Q3-22

Collected By: BRYAN CROFT/KAY
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Laboratory Analysis		Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/25	0233 JFT	Beryllium	< 10.00 ug/L			EPA 200.8	2.69	101.8 *
08/19	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	11.76	106.2 *
08/31	0925 ACZ	Mercury, low level	2.720 ng/L			EPA 1631E	0.41	100.0 *
08/18	0455 NTR	Nitrate Nitrogen	0.7900 mg/L			HACH 10206	0.34	101.8 *
08/18	0430 NTR	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	1.92	96.7 *
08/19	0500 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	9.71	103.0 *
08/25	1647 JFT	Chromium	< 20.00 ug/L			EPA 200.8	0.19	98.5 *
08/22	0425 NTR	Phosphorus, Total (as P)	1.220 mg/L			EPA 365.1	1.40	98.0 *
08/23	1618 JFT	Nickel	< 20.00 ug/L			EPA 200.8	1.88	108.1 *
08/23	1717 JFT	Copper	3.93 ug/L			EPA 200.8	2.48	104.5 *
08/25	1647 JFT	Zinc	25.29 ug/L			EPA 200.8	1.72	100.0 *
08/23	1606 JFT	Arsenic	10.98 ug/L			EPA 200.8	0.54	105.3 *
08/25	1647 JFT	Selenium	< 15.00 ug/L			EPA 200.8	2.32	98.5 *
08/25	1647 JFT	Molybdenum	< 50.00 ug/L			EPA 200.8	0.22	93.5 *
08/25	1647 JFT	Silver	< 10.0 ug/L			EPA 200.8	0.11	91.4 *
08/23	1609 JFT	Cadmium	< 20.00 ug/L			EPA 200.8	0.51	93.9 *
08/23	1705 JFT	Antimony	< 10.00 ug/L			EPA 200.8	3.03	88.6 *
08/25	1647 JFT	Thallium	< 20.000 ug/L			EPA 200.8	0.30	99.6 *
08/23	1618 JFT	Lead	< 10.00 ug/L			EPA 200.8	2.10	81.9 *

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Signature 
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Environmental Services Company, Inc.

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Control Number: 2208010368
 Customer Name: NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No.: 2447 / AR00020320
 Report Date: 09/23/22
 Sample Date: 08/16/22
 Sample Time: 0950
 Sample Type: GRAB WATER
 Sample From: EQUIPMENT BLANK

Collected By: BRYAN CROFT/KAY
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

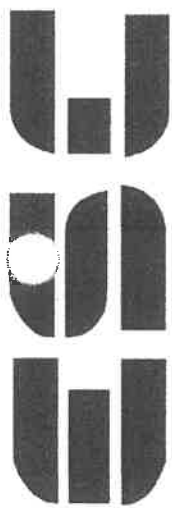
<u>Analysis</u>			
<u>Date</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>
08/31 0930 ACZ	Mercury, low level	0.840 ng/L	
		<u>Quantity</u>	<u>Method</u>
			EPA 1631E

<u>Quality Assurance</u>	
<u>Precision</u>	<u>Accuracy</u>
% RPD	% Recovery
0.41	100.0 *

* QA data shown is from a different sample or standard on the same date.

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CHAIN OF CUSTODY

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Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters					
Client: North Little Rock WWU/Five Mile				Permit/Project #: 201490				Cyanide (g)					
Address: P.O. Box 17898				Purchase Order #: 201490				Phenols (24,2)					
Phone: North Little Rock, AR 72117				Work Order #				NO3(18), Total P(25)					
Fax: 501-945-7186				Sampler Name(s): <i>Chella Jones</i>				Metals (See Comments)					
Contact: Ms. Marybeth Eggleston				and Signature(s): <i>Bryan Craft</i>				NO2(19), TDS(27)					
ESC Client Number: 2447 Effluent Quarterly								Mercury(16,31)					
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
FME-WTR-MCR-03-22	2208010	8-16-22	0950	Grab	Wwater	Plastic	8 oz	H2SO4	1				
FME-WTR-MCR-03-22	2208010	8-16-22	0950	Grab	Wwater	Glass	1 Liter	H2SO4	1	X			
FME-WTR-MCR-03-22		8-16-22	0950	Grab	Wwater	Plastic	8 oz	H2SO4	1		X		
FME-WTR-MCR-03-22		8-16-22	0950	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1			X	
FME-WTR-MCR-03-22		8-16-22	0950	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1			X	
FME-WTR-MCR-03-22		8-16-22	0950	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X
Equipment Blank	2206010368	8-16-22	0950	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X
Relinquished By: (Signature and Printed Name) <i>Chella Jones</i>				Received By: (Signature and Printed Name) <i>Mr. Michael R. ...</i>				Custody Seals:					
Date: 8/16/22				Date: 8-16-22				Used? <input checked="" type="checkbox"/>					
Time: 15:10				Time: 14:27				Turnaround: <input checked="" type="checkbox"/>					
Relinquished By: (Signature and Printed Name) <i>Michael R. ...</i>				Received By: (Signature and Printed Name) <i>John Telford</i>				Regular: <input checked="" type="checkbox"/>					
Date: 8/16/22				Date: 8/16/22				Special: <input type="checkbox"/>					
Time: 15:10				Time: 15:10				Metals samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Result					
Comments:				Analyst: <i>John Telford</i>				Result					
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS),				Time:				Units					
Cd(48.PS), Tl(81.PS), Pb(82.PS),				Reading:				Units					
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Chlorinated? Y N				Fecal Start:					
Start Time: 8-15-22 at 0641 <i>DMS</i>								This Document is Page 1 of 2					
End Time: 8-16-22 at 0950													

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Control Number: 2210010406
 Customer Name : NORTH LITTLE ROCK-FIVE MILE INF
 Customer/Permit No. : 2448 / AR00020320
 Report Date : 11/07/22
 Composite Date: 10/25/22 - 10/26/22
 Sample Time : 0715-0950/0950(10/26)
 Sample Type : COMP/GRAB WWATER
 Sample From : FMI-WTR-MCR-Q4-22
 Collected By: BRYAN CROFT/KAY
 Delivery By : NTR
 Work Order :
 Purchase Order :

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								Precision % RPD	Accuracy % Recovery
11/03	1736	JFT	Beryllium	< 0.0050 mg/L		EPA 200.8	0.77	93.4	*
11/02	0515	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L		SM 2011 4500-CN E	0.00	104.0	*
10/31	0430	NTR	Phenolics	0.07 mg/L		EPA 420.1	2.13	99.0	*
11/03	1736	JFT	Chromium	0.02559 mg/L		EPA 200.8	0.04	111.3	*
11/03	1736	JFT	Nickel	0.00330 mg/L		EPA 200.8	0.66	98.4	*
11/03	1736	JFT	Copper	0.0158 mg/L		EPA 200.8	2.12	98.9	*
11/03	1736	JFT	Zinc	0.0996 mg/L		EPA 200.8	7.76	101.9	*
11/03	1736	JFT	Arsenic	< 0.0100 mg/L		EPA 200.8	0.75	102.7	*
11/03	1736	JFT	Selenium	< 0.0100 mg/L		EPA 200.8	2.85	97.8	*
11/03	1736	JFT	Molybdenum	< 0.0100 mg/L		EPA 200.8	1.32	92.9	*
11/03	1736	JFT	Silver	0.00833 mg/L		EPA 200.8	0.80	105.5	*
11/03	1736	JFT	Cadmium	< 0.00400 mg/L		EPA 200.8	1.39	95.7	*
11/07	0900	NTR	Mercury	< 0.0050 mg/L		EPA 200.8	12.57	104.4	*
11/03	1736	JFT	Antimony	< 0.0200 mg/L		EPA 245.7	1.22	99.1	*
11/03	1736	JFT	Thallium	< 0.0100 mg/L		EPA 200.8	0.00	87.4	*
11/03	1736	JFT	Lead	< 0.01000 mg/L		EPA 200.8	2.85	97.5	*

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Signature  Environmental Services Co., Inc.

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 Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/Five Mile				Permit/Project #: 222137							
Address: P.O. Box 17898				Purchase Order #:							
Phone: North Little Rock, AR 72117				Work Order #:							
Fax: 501-945-7186				Sampler Name(s): Bryan Craft							
Contact: 501-945-2367				and Signature(s): <i>Bryan Craft</i>							
ESC Client Number: 2448 Influent Quarterly											

Sample Identification		Sample Collection		Sample Containers		Cyanide (9)	Phenols (24)	Metals (See Comments)					
Identification	ESC Control #	Date	Time	Type	Matrix				Type	Volume	Preservative	#	
EMI-DTR-MCR-04-22	2,210010406	10/26/22	0950	Grab	Wwater	Plastic	8 oz	NaOH	1	X			
EMI-DTR-MCR-04-20		10/26/22	0950	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1		X		
EMI-DTR-MCR-04-22		10/26/22	0950	Composite	Wwater	Plastic	8 oz	HNO3	1			X	

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time	Custody Seals:
<i>Bryan Craft</i>	10/26/22	110	<i>Neil Berg - Ned Ryge</i>	10/26/22	110	Used? <input type="checkbox"/> Intact? <input type="checkbox"/>
<i>Neil Berg - Ned Ryge</i>	10/26/22	1520	<i>Neil Berg - Ned Ryge</i>	10/26/22	1520	Regular <input type="checkbox"/> Special <input type="checkbox"/>

Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Pb(81.HW), Pb(82.HW), Hg(50.15), Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD

Flow Data: *Neil Berg - Ned Ryge*

Field Test: *Neil Berg - Ned Ryge*

Units: *Neil Berg - Ned Ryge*

Chlorinated? Y N

Start Date & Time: 10/25/22 at 0715

End Date & Time: 10/26/22 at 0950

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2210010397
 Customer Name: NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No.: 2447 / AR00020320
 Report Date: 11/15/22
 Composite Date: 10/25/22 -10/26/22
 Sample Time: 0700-1000/1000(10/26
 Sample Type: COMP/GRAB WWATER
 Sample From: FME-WTR-MCR-Q4-22
 Collected By: BRYAN CROFT/KAY
 Delivery By: NTR
 Work Order:
 Purchase Order:

Laboratory Analysis

Date	Time	By	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								Precision % RPD	Accuracy % Recovery
11/03	1736	JFT	Beryllium	< 5.00 ug/L			EPA 200.8	2.22	96.7 *
11/02	0515	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.00	104.0
11/11	1106	ACZ	Mercury, low level	3.040 ng/L			EPA 1631E	5.01	91.0
11/01	1130	DWC	Nitrate Nitrogen	8.5860 mg/L			HACH 10206	2.67	105.0 *
11/01	1030	DWC	Nitrite Nitrogen	0.2140 mg/L			EPA 354.1	4.11	108.0 *
10/31	0430	NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	0.00	109.7 *
11/03	1736	JFT	Chromium	26.11 ug/L			EPA 200.8	0.04	111.3 *
10/27	0908	SLK	Phosphorus, Total (as P)	3.2800 mg/L			EPA 365.1	0.00	100.0 *
11/03	1736	JFT	Nickel	3.22 ug/L			EPA 200.8	0.66	98.4 *
11/03	1736	JFT	Copper	3.53 ug/L			EPA 200.8	2.07	98.9 *
11/03	1736	JFT	Zinc	24.96 ug/L			EPA 200.8	7.76	101.9 *
11/03	1736	JFT	Arsenic	< 10.00 ug/L			EPA 200.8	0.74	102.7 *
11/03	1736	JFT	Selenium	< 10.00 ug/L			EPA 200.8	3.42	107.5 *
11/03	1736	JFT	Molybdenum	< 10.00 ug/L			EPA 200.8	1.34	92.9 *
11/03	1736	JFT	Silver	8.3 ug/L			EPA 200.8	1.31	104.1 *
11/03	1736	JFT	Cadmium	< 4.00 ug/L			EPA 200.8	1.39	95.7 *
11/03	1736	JFT	Antimony	< 20.00 ug/L			EPA 200.8	0.56	98.3 *
11/03	1736	JFT	Thallium	< 10.000 ug/L			EPA 200.8	3.11	93.5 *
11/03	1736	JFT	Lead	< 10.00 ug/L			EPA 200.8	2.85	97.5 *

* QA data shown is from a different sample or standard on the same date.

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Signature



Signature
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Control Number: 2210010398
 Customer Name : NORTH LITTLE ROCK-FIVE MILE EFF
 Customer/Permit No. : 2447 / AR00020320
 Report Date : 11/15/22

Sample Date : 10/26/22
 Sample Time : 1000
 Sample Type : GRAB WWATER
 Sample From : EQUIPMENT BLANK

Collected By: BRYAN CROFT/KAY
 Delivery By : NTR
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Method</u>
11/11	1106	ACZ	EPA 1631E
		<u>Parameter</u>	<u>Quantity</u>
		Mercury, low level	
		<u>Result</u>	<u>Notes</u>
		0.330 ng/L	
		<u>Quality Assurance</u>	<u>Accuracy</u>
		<u>% RPD</u>	<u>% Recovery</u>
		5.01	91.0 *

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 Signature _____
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 website: www.esclabs.com

Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/Five Mile				Permit/Project #: <u>222137</u>											
Address: P.O. Box 17898				Purchase Order #: <u>222137</u>											
Phone: North Little Rock, AR 72117				Work Order #											
Fax: 501-945-7186				Sampler Name(s): <u>Byron Cobb</u>											
Contact: 501-945-2367				and Signature(s): <u>Byron Cobb</u>											
ESC Client Number: 2447 Effluent Quarterly															
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	Phenols (24,2)	NO3(18), Total P(25)	Metals (See Comments)	NO2(19)	Mercury(16,31)
FME-CTR-MCR-04-22	2210010397	10/26/22	1000	Grab	Wwater	Grab	8 oz	NaOH	1	X					
FME-CTR-MCR-04-22		10/26/22	1000	Grab	Wwater	Grab	.1 Liter	CUSO4+H2SO4	1		X				
FME-CTR-MCR-04-22		10/26/22	1000	Grab	Wwater	Grab	8 oz	H2SO4	1			X			
FME-CTR-MCR-04-22		10/26/22	1000	Grab	Wwater	Grab	8 oz	Cool ≤ 6° C	1				X		
FME-CTR-MCR-04-22		10/26/22	1000	Composite	Wwater	Composite	8 oz	HNO3 to pH <2	1				X		
FME-CTR-MCR-04-22		10/26/22	1000	Composite	Wwater	Composite	250 ml	Cool ≤ 6° C	1					X	
Equipment Blank	2210010398	10/26/22	1000	Grab	Wwater	Grab	250 ml	Cool ≤ 6° C	1						X
Relinquished By: (Signature and Printed Name) <u>Byron Cobb</u>				Received By: (Signature and Printed Name) <u>Neil Rys - Ned Rys</u>				Custody Seals: Used? <input type="checkbox"/> Intact? <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name) <u>Neil Rys - Ned Rys</u>				Received By: (Signature and Printed Name) <u>Neil Rys - Ned Rys</u>				Regular <input type="checkbox"/> Special <input type="checkbox"/>							
Cool all samples to ≤ 6 degrees C with ice				Were samples properly preserved: Yes <input type="checkbox"/> No <input type="checkbox"/>				Result <input type="checkbox"/> Result <input type="checkbox"/>							
Comments:				Analyst: <u>Neil Rys</u>				Time: <u>1110</u>							
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS);				Time: <u>1520</u>				Field Test							
Cd(48.PS), Tl(81.PS), Pb(82.PS);				Chlorinated? Y N				Fecl Start:							
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Start Date + Time: <u>10/25/22 at 0700am</u>				This Document is Page <u>1</u> of <u>1</u>							
				End Date + Time: <u>10/26/22 at 1000am</u>											

Environmental Services Company, Inc.

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 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010442
 Customer Name : NORTH LITTLE ROCK-MAUMELLE INF
 Customer/Permit No. : 3720 / AR00020303
 Report Date : 01/17/22
 Composite Date: 01/04/22 -01/05/22
 Sample Time : 0850-0850
 Sample Type : COMP/GRAB WWATER
 Sample From : MMI-WTR-MCR-Q1-22
 Collected By: J. BARRETT/B/ C
 Delivery By : J. BARRETT
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/11	0457 NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	0.11	90.5 *
01/07	0405 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.11	96.5
01/10	1230 NTR	Phenolics	0.12 mg/L			EPA 420.1	0.00	100.2 *
01/11	0457 NTR	Chromium	< 0.02000 mg/L			EPA 200.8	0.21	97.2 *
01/11	0457 NTR	Nickel	0.02800 mg/L			EPA 200.8	0.01	93.9 *
01/11	0457 NTR	Copper	0.0340 mg/L			EPA 200.8	1.67	93.9 *
01/11	0457 NTR	Zinc	0.3150 mg/L			EPA 200.8	3.41	82.9 *
01/11	0457 NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	0.23	86.9 *
01/11	0457 NTR	Selenium	< 0.0150 mg/L			EPA 200.8	0.52	84.4 *
01/11	0457 NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.56	89.2 *
01/11	0457 NTR	Silver	< 0.12000 mg/L			EPA 200.8	0.78	81.7 *
01/11	0457 NTR	Cadmium	< 0.02000 mg/L			EPA 200.8	0.12	85.8 *
01/13	1400 NTR	Mercury	< 0.0050 mg/L			EPA 245.1	0.32	89.8 *
01/11	0457 NTR	Antimony	< 0.0100 mg/L			EPA 200.8	0.17	76.7 *
01/11	0457 NTR	Thallium	< 0.0500 mg/L			EPA 200.8	0.31	81.7 *
01/11	0457 NTR	Lead	0.11000 mg/L			EPA 200.8	0.12	83.6 *

* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co., Inc.

501



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 website: www.esclabs.com

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters					
Company Name: North Little Rock WWU/Maumelle				Permit/Project #: 312480				Metals (See Comments)					
Address: P.O. Box 17898				Purchase Order #: 312480				Phenols (24)					
North Little Rock, AR 72117				Work Order #				Cyanide (9)					
Telephone: 501-945-7186				Sampler Name(s): Jason Barnett									
FAX: 501-945-2367				and Signature(s): Bryan Scott									
Contact: Ms. Marybeth Eggleston													
ESC Client Number: 3720 Influent Quarterly													
Sample Identification		Sample Collection		Sample Containers									
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
MME-WTR-MCR-01-21-2101020442		1/5/22	0850	Grab	Wwater	Plastic	8 oz	NaOH+Ac Acid	1	X			
MME-WTR-MCR-01-21-2101020442		1/5/22	0850	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1	X			
MME-WTR-MCR-01-21-2101020442		1/5/22	0850	Composite	Wwater	Plastic	8 oz	HNO3	1	X			
Received By: (Signature and Printed Name) Jason Barnett				Received By: (Signature and Printed Name) Darius Brown				Date		Date		Time	
1/5/22				1/5/22				15-22		15-22		1430	
Time				Time				Time		Time		Time	
1606				1606				1606		1606		1606	
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Tl(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Field Test		Result		Result	
Chlorinated? Y N				Fecal Start:				Intact?		Special		Units	
This Document is Page				of									

AM

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Control Number: 2201010440
Customer Name : NORTH LITTLE ROCK-MAUMELLE EFF
Customer/Permit No. : 3719 / AR0020303
Report Date : 01/21/22
Sample Date : 01/05/22
Sample Time : 0905
Sample Type : COMP/GRAB WWATER
Sample From : MME-WTR-MCR-Q1-22
Collected By: J. BARRETT/B. C
Delivery By : J. BARRETT
Work Order :
Purchase Order :

Laboratory Analysis

Analysis				Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/11	0457 NTR	Beryllium	< 50.00 ug/L			EPA 200.8	1.58	105.1 *
01/07	0405 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.11	96.5 *
01/11	1109 ARA	Mercury, low level	0.656 ng/L			EPA 1631E	5.70	100.0 *
01/06	1335 EJD	Total Kjeldahl Nitrogen	18.0 mg/L			02/2014 HACH 10242	5.43	109.0 *
01/07	1045 KSR	Nitrate Nitrogen	6.6900 mg/L			HACH 10206	2.05	98.3 *
01/07	1115 KSR	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	0.00	99.0 *
01/10	1230 NTR	Nitrolics, Low Range	< 0.005 mg/L			EPA 420.1	2.06	96.6 *
01/11	0457 NTR	Chromium	< 20.00 ug/L			EPA 200.8	0.21	97.2 *
01/13	1640 EJC	Phosphorus, Total (as P)	1.980 mg/L			EPA 365.1	3.39	102.0 *
01/06	1430 EJD	Solids, Total Dissolved	174.0 mg/L			SM 2011 2540 C	21.51	N/A *
01/11	0457 NTR	Nickel	< 20.00 ug/L			EPA 200.8	0.01	93.9 *
01/11	0457 NTR	Copper	< 20.00 ug/L			EPA 200.8	1.67	93.9 *
01/11	0457 NTR	Zinc	105.32 ug/L			EPA 200.8	6.00	82.9 *
01/11	0457 NTR	Arsenic	< 10.00 ug/L			EPA 200.8	0.23	86.9 *
01/11	0457 NTR	Selenium	< 15.00 ug/L			EPA 200.8	0.52	84.4 *
01/11	0457 NTR	Molybdenum	< 50.00 ug/L			EPA 200.8	0.56	89.2 *
01/11	0457 NTR	Silver	< 120.0 ug/L			EPA 200.8	0.56	81.7 *
01/11	0457 NTR	Cadmium	< 20.00 ug/L			EPA 200.8	0.12	85.8 *
01/11	0457 NTR	Antimony	< 10.00 ug/L			EPA 200.8	0.17	76.7 *
01/11	0457 NTR	Thallium	< 50.000 ug/L			EPA 200.8	0.31	81.7 *
01/11	0457 NTR	Lead	10.74 ug/L			EPA 200.8	0.12	83.6 *

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Signature  Environmental Services Co., Inc.



Environmental Services Company, Inc.

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501-221-1341 (f)

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Springdale, Arkansas
479-750-1170
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LABORATORY REPORT

Client:	North Little Rock Five Mile Effluent	Sample Date:	01/05/22
Control Number:	2201010440	Sample Time:	0905
Sample Type:	Grab Wastewater	Receipt Date:	01/05/22
Sample Identification	MME-WTR-MCR-Q1-22	Report Date:	01/21/22

ANALYTES OF INTEREST (µg/L or ppb)

<u>Analyte</u>	<u>Result</u>	<u>Detection Limit</u>
Chlorpyrifos	ND	0.01

QUALITY ASSURANCE DATA

Method: SW 8081B, Rev 2, 2007

<u>System Monitoring Compounds</u>	<u>% Recovery</u>	<u>% Recovery Limits</u>
Decachlorobiphenyl	72.9%	44.1-108

Analysis Date: 01/12/22
 Analysis Time: 1603
 Analyst: ARA

Laboratory control samples were monitored for all analytes of interest.

Data Release authorized by:

Ned Ryerson, Laboratory Manager

5/27

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010441
 Customer Name : NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit NO. : 3719 / AR0020303
 Report Date : 01/21/22

Sample Date : 01/05/22
 Sample Time : 0905
 Sample Type : GRAB WWATER
 Sample From : EQUIPMENT BLANK

Collected By: J. BARRETT/B. C
 Delivery By : J. BARRETT
 Work Order :
 Purchase Order :

Laboratory Analysis			
Analysis Date	Time By	Parameter	Result
01/11	1126	ARA Mercury, low level	< 0.500 ng/L
		Notes	Quantity
			Method
			EPA 1631E
			Precision
			% RPD
			5.70
			Accuracy
			% Recovery
			100.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

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CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters					
Client: North Little Rock WWU/Maumelle				Permit/Project #: 212480				Mercury (16.31)					
Address: P.O. Box 17898				Purchase Order #: 212480				TKN (16.C), NO2+NO3(9.1), Total P(25)					
Phone: North Little Rock, AR 72117				Work Order #				Chlorophylls (99.PC) 1st quarter only					
Fax: 501-945-7186				Sampler Name(s): Jason Barrett				Metals (See Comments)					
Contact: 501-945-2367				and Signature(s): Jason Barrett Bryon Craft Jason Barrett Bryon Craft				Phenols (24.2)					
ESC Client Number: 3719 Effluent Quarterly-1st								Cyanide (9)					
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Type	Preservative	#				
MME-WTR-MUR-Q1-22	2201010440	1/5/22	0905	Grab	Wwater	8 oz	Plastic	NaOH+Asc Acid	1	X			
MME-WTR-MUR-Q1-22		1/5/22	0905	Grab	Wwater	1 Liter	Glass	CUSO4+H2SO4	1				
MME-WTR-MUR-Q1-22		1/5/22	0905	Composite	Wwater	8 oz	Plastic	HNO3	1				
MME-WTR-MUR-Q1-22		1/5/22	0905	Grab	Wwater	1 Liter	Amb GI	None	1		X		
MME-WTR-MUR-Q1-22		1/5/22	0905	Grab	Wwater	8 oz	Plastic	None	1			X	
MME-WTR-MUR-Q1-22		1/5/22	0905	Grab	Wwater	8 oz	Plastic	H2SO4	1				X
MME-WTR-MUR-Q1-22		1/5/22	0905	Composite	Wwater	250 ml	Amb GI	HCl	1				X
Equipment Blank	2201010441	1/5/22	0905	Grab	Wwater	250 ml	Amb GI	HCl	1				X
Released By: (Signature and Printed Name) Jason Barrett				Received By: (Signature and Printed Name) Sumner Brown				Date: 1/5/22 1430					
Released By: (Signature and Printed Name) Sumner Brown				Received By: (Signature and Printed Name) Jason Barrett				Date: 1/5/22 1606					
Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Field Test					
Comments: Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Analyst: Sumner Brown				Time: 1606					
				Time: 1606				Date: 1-5-22					
				Units:				Result					
				Chlorinated? Y N				Fecal Start:					
				This Document is Page 1 of 1									

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2205010334
 Customer Name: NORTH LITTLE ROCK-MAUMELLE INF
 Customer/Permit No.: 3720 / AR0020303
 Report Date: 05/26/22
 Sample Date: 05/10/22
 Sample Time: 0805
 Sample Type: GRAB/COMP/WWATER
 Sample From: MMI-WTR-MCR-Q2-22
 Collected By: KAYLA JONES
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Parameter		Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time By							% RPD	% Recovery
05/23	0645 NTR	Beryllium		< 0.0500 mg/L			EPA 200.8	1.44	98.7 *
05/20	0405 NTR	Cyanide Total (HACH 10265		< 0.0100 mg/L			SM 2011 4500-CN E	16.67	92.3 *
05/13	0500 NTR	Phenolics		0.07 mg/L			EPA 420.1	6.90	102.7 *
05/23	0645 NTR	Chromium		< 0.02000 mg/L			EPA 200.8	0.29	99.2 *
05/23	0645 NTR	Nickel		< 0.02000 mg/L			EPA 200.8	0.69	100.8 *
05/23	0645 NTR	Copper		0.0383 mg/L			EPA 200.8	1.10	102.2 *
05/23	0645 NTR	Zinc		0.0966 mg/L			EPA 200.8	2.27	106.1 *
05/23	0645 NTR	Arsenic		< 0.0100 mg/L			EPA 200.8	0.93	101.5 *
05/23	0645 NTR	Selenium		< 0.0150 mg/L			EPA 200.8	0.77	102.5 *
05/23	0645 NTR	Molybdenum		< 0.0500 mg/L			EPA 200.8	1.69	97.0 *
05/23	0645 NTR	Silver		< 0.12000 mg/L			EPA 200.8	0.78	93.6 *
05/23	0645 NTR	Cadmium		< 20.00000 mg/L			EPA 200.8	0.08	98.9 *
05/19	1330 AAC	Mercury		< 0.0050 mg/L			EPA 245.1	0.00	79.0 *
05/23	0645 NTR	Antimony		< 0.0100 mg/L			EPA 200.8	0.40	98.0 *
05/23	0645 NTR	Thallium		< 0.0500 mg/L			EPA 200.8	0.68	104.2 *
05/23	0645 NTR	Lead		0.03558 mg/L			EPA 200.8	0.62	101.1 *

* QA data shown is from a different sample or standard on the same date.

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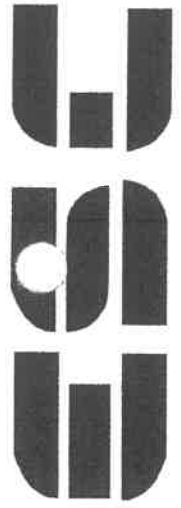
Signature 
 Environmental Services Co., Inc.

EW

Environmental Services Company, Inc.
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 website: www.esclabs.com

Phone: 501-221-2565 Fax: 501-221-1341

Springdale, Arkansas
 479-750-1170
 Catlsbad, New Mexico
 575-887-1ESC



CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters				
Company Name:		North Little Rock WWU/Maumelle		Permit/Project #:								
Address:		P.O. Box 17898		Purchase Order #:		212480 220847						
Telephone:		North Little Rock, AR 72117		Work Order #:								
FAX:		501-945-7186		Sampler Name(s):		Kalla Jones						
Contact:		Ms. Marybeth Eggleston		and Signature(s):		<i>[Signature]</i>						
ESC Client Number:		3720 Influent Quarterly										
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Qcande (9)	Phenols (24)	Metals (See Comments)
MNF-WTR-MCR-02-22	2205010334	5/10/22	0805	Grab	Wwater	Plastic	8 oz ✓	NaOH+Asc Acid	1	X		
MNF-WTR-MCR-02-22		5/10/22	0805	Grab	Wwater	Glass	1 Liter ✓	CuSO4+H2SO4	1	X		
MNF-WTR-MCR-02-22		5/10/22	0805	Composite	Wwater	Plastic	8 oz	HNO3	1		X	
Received By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Custody Seals:				
<i>[Signature]</i> Kalla Jones		5/10/22 1415		<i>[Signature]</i> Michael Howard		5/10/22 1619		Used? <input type="checkbox"/>		Intact? <input type="checkbox"/>		
<i>[Signature]</i> Michael Howard		5/10/22 1619		<i>[Signature]</i> Michael Howard		5/10/22 1619		Turnaround: Regular <input type="checkbox"/>		Special <input type="checkbox"/>		
Received By: (Signature and Printed Name)				Received for Lab By: (Signature and Printed Name)				Were samples properly preserved:				
<i>[Signature]</i> Kalla Jones		5/10/22 0900		ASTERA CUTE		5/10/22 0900		Yes <input type="checkbox"/>		No <input type="checkbox"/>		
Cool all samples to -5 degrees C with ice.				Flow Data				Result				
Comments:				Analyst:				Result				
Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW)				Time:				Result				
1(81.HW), Pb(82.HW), Hg (90.15)												
Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Reading:								
				Units:								
				Chlorinated? Y N				Fecal Start:				
								This Document is Page 2 of 2.				

[Handwritten initials]

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Control Number: 2205010332
 Customer Name: NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit No.: 3719 / AR0020303
 Report Date: 06/16/22

Sample Date: 05/10/22
 Sample Time: 0815
 Sample Type: GRAB/COMP/WWATER
 Sample From: MMB-WTR-MCR-Q2-22

Collected By: KAYLA JONES
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Laboratory Analysis		Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
05/23	0645	Beryllium	< 50.00 ug/L			EPA 200.8	1.44	98.7 *
05/20	0405	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	16.67	92.3 *
05/31	1418	Mercury, low level	2.110 ng/L			EPA 1631E		
06/01	1040	Total Kjeldahl Nitrogen	22.2 mg/L			02/2014 HACH 10242		
06/15	1548	Nitrate Nitrogen	0.4300 mg/L			HACH 10206	2.99	116.0 *
06/15	1555	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	1.50	108.0 *
05/13	0500	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	12.72	95.0 *
05/23	0645	Chromium	< 20.00 ug/L			EPA 200.8	13.33	97.9
06/15	1430	Phosphorus, Total (as P)	2.240 mg/L			EPA 365.1	0.29	99.2 *
05/16	1457	Solids, Total Dissolved	178.0 mg/L			SM 2011 2540 C	11.45	102.0 *
05/23	0645	Nickel	< 20.00 ug/L			EPA 200.8	0.69	N/A *
05/23	0645	Copper	< 20.00 ug/L			EPA 200.8	1.10	100.8 *
05/23	0645	Zinc	< 50.00 ug/L			EPA 200.8	2.27	102.2 *
05/23	0645	Arsenic	< 10.00 ug/L			EPA 200.8	0.93	106.1 *
05/23	0645	Selenium	< 15.00 ug/L			EPA 200.8	0.77	101.5 *
05/23	0645	Molybdenum	< 50.00 ug/L			EPA 200.8	1.69	102.5 *
05/23	0645	Silver	< 120.0 ug/L			EPA 200.8	0.82	97.0 *
05/23	0645	Cadmium	< 20.00 ug/L			EPA 200.8	0.08	93.6 *
05/23	0645	Antimony	< 10.00 ug/L			EPA 200.8	0.40	98.9 *
05/23	0645	Thallium	< 50.000 ug/L			EPA 200.8	0.68	104.2 *
05/23	0645	Lead	35.15 ug/L			EPA 200.8	0.62	101.1 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.


 Signature _____
 Environmental Services Co., Inc.

Handwritten initials

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Control Number: 2205010333
 Customer Name: NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit No.: 3719 / AR0020303
 Report Date: 06/09/22

Sample Date: 05/10/22
 Sample Time: 0815
 Sample Type: GRAB/WWATER
 Sample From: EQUIPMENT BLANK

Collected By: KAYLA JONES
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis Date: 05/31 1423 ACZ	Parameter: Mercury, low level	Result: 0.540 ng/L	Notes:	Quantity:	Method: EPA 1631E
			Precision & RPD	Quality Assurance Accuracy & Recovery	

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Springdale, Arkansas
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 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters							
Company Name: North Little Rock WWU/Maumelle				Permit/Project #: <u>220847</u>				Mercury(16.31)							
Address: P.O. Box 17898				Purchase Order #: <u>220847</u>				NO2(19)							
Telephone: North Little Rock, AR 72117				Work Order #				Metals (See Comments)							
FAX: 501-945-7186				Sampler Name(s): <u>Healla Jones</u>				Phenols (24.2)							
Contact: Ms. Marybeth Eggleston				and Signature(s): <u>Bryan Craft</u>				Cyanide (9)							
ESC Client Number: 3719 Effluent Quarterly															
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
MME-WTR-MCR-02-22	2205010332	5/10/22	0815	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
MME-WTR-MCR-02-22		5/10/22	0815	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1		X				
MME-WTR-MCR-02-22		5/10/22	0815	Grab	Wwater	Plastic	8 oz	H2SO4	1						
MME-WTR-MCR-02-22		5/10/22	0815	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1						
MME-WTR-MCR-02-22		5/10/22	0815	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1		X				
MME-WTR-MCR-02-22		5/10/22	0815	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1			X			
Equipment Blank	2205010333	5/10/22	0815	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1			X			
Relinquished By: (Signature and Printed Name)				Date				Time				Custody seals:			
<u>Healla Jones</u>				5/10/22				14:16				Used? <input type="checkbox"/>			
Received By: (Signature and Printed Name)				Date				Time				Intact? <input type="checkbox"/>			
<u>Metro Physical Microchemical</u>				5/10/22				14:16				Regular <input type="checkbox"/>			
Relinquished By: (Signature and Printed Name)				Date				Time				Were samples properly preserved:			
<u>Steve Wank in cooler</u>				5-11-22				0900				Yes <input type="checkbox"/> No <input type="checkbox"/>			
Comments: Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Analyst: <u>ASTREYA CLARKE</u>				Field Test				Result			
				Time:				Time				Result			
				Reading:				Time				Result			
				Units:				Time				Result			
				Fecal Start:				Time				Result			
												This Document is Page 1 of 2			

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Control Number: 2208010373
 Customer Name: NORTH LITTLE ROCK-MAUELLE INF
 Customer/Permit No.: 3720 / AR00020303
 Report Date: 09/12/22
 Composite Date: 08/15/22 -08/16/22
 Sample Time: 0700-0825; 0825
 Sample Type: GRAB/COMP WWATER
 Sample From: MMI-WTR-MCR-Q3-22
 Collected By: BRYAN CROFT/KAY
 Delivery By: MER
 Work Order:
 Purchase Order:

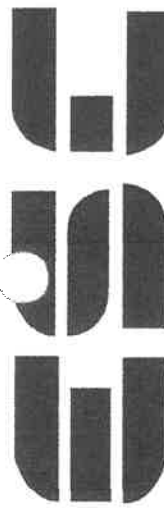
Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/25	0233 JFT	Beryllium	< 0.0100 mg/L			EPA 200.8	1.50	98.2 *
08/19	0515 NTR	Cyanide Total (HACH 10265	0.0220 mg/L			SM 2011 4500-CN E	11.76	106.2 *
08/19	0500 NTR	Phenolics	0.12 mg/L			EPA 420.1	8.00	95.2 *
08/25	1647 JFT	Chromium	< 0.02000 mg/L			EPA 200.8	0.20	98.5 *
08/25	1647 JFT	Nickel	0.01848 mg/L			EPA 200.8	3.62	98.5 *
08/25	1647 JFT	Copper	0.0738 mg/L			EPA 200.8	4.01	98.6 *
08/25	1647 JFT	Zinc	0.2946 mg/L			EPA 200.8	1.62	100.0 *
08/25	1647 JFT	Arsenic	0.0148 mg/L			EPA 200.8	0.71	98.5 *
08/25	1647 JFT	Selenium	< 0.0150 mg/L			EPA 200.8	2.31	98.5 *
08/25	1647 JFT	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.23	93.5 *
08/25	1647 JFT	Silver	< 0.01000 mg/L			EPA 200.8	0.12	91.4 *
08/25	1647 JFT	Cadmium	< 0.05000 mg/L			EPA 200.8	1.63	99.8 *
08/18	1200 AAC	Mercury	< 0.0050 mg/L			EPA 245.7	15.90	89.0 *
08/25	1647 JFT	Antimony	< 0.0200 mg/L			EPA 200.8	0.10	101.0 *
08/25	1647 JFT	Thallium	< 0.0200 mg/L			EPA 200.8	0.33	99.6 *
08/25	0811 JFT	Lead	< 0.05000 mg/L			EPA 200.8	0.22	99.4 *

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Signature 
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CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information		Sample Identification				Sample Collection				Sample Containers				Project Information				Requested Parameters											
Company Name:		ESC Control #		Date	Time	Type	Matrix	Type	Volume	Type	Preservative	#	Purchase Order #:		Work Order #		Sampler Name(s):		and Signature(s):		Cyanide (9)		Phenols (24)		Metals (See Comments)				
North Little Rock WWU/Maumelle		22268		8-16-22	0825	Grab	Wwater	Grab	8 oz	Plastic	NaOH+Asc Acid	1	20490				Bryson Craft		[Signature]		X								
P.O. Box 17898		L		8-16-22	0825	Grab	Wwater	Grab	1 Liter	Glass	CuSO4+H2SO4	1					Kayla Jones		[Signature]		X								
North Little Rock, AR 72117				8-16-22	0825	Composite	Wwater	Composite	8 oz	Plastic	HNO3	1					Bryson Craft		[Signature]				X						
501-945-7186																													
501-945-2367																													
Ms. Marybeth Eggleston																													
ESC Client Number: 3720 Influent Quarterly																													
Received By: (Signature and Printed Name)		Date		Time		Received By: (Signature and Printed Name)		Date		Time		Custody Seals:		Used?		Intact?		Regular		Special		Were samples properly preserved:		Result		Units			
[Signature]		8/16/22		1427		[Signature]		8-16-22		14327		Used? <input type="checkbox"/>		Intact? <input type="checkbox"/>				<input type="checkbox"/>		<input type="checkbox"/>		Yes <input type="checkbox"/>		No <input type="checkbox"/>					
Relinquished By: (Signature and Printed Name)		Date		Time		Relinquished By: (Signature and Printed Name)		Date		Time		Field Test		Analyst		Time		Reading:		Units:		Chlorinated? Y N		Fecal Start.		This Document is Page 2 of 2			
[Signature]		8/16/22		1519		[Signature]		8/16/22		1570		Flow Data		John Telford		8/16/22		Field Test		Units:		Y N		Fecal Start.					
Cool all samples to ≤ 6 degrees C with ice.																													
Comments:		Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW)																											
Tl(81.HW), Pb(82.HW), Hg(50.15)																													
Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD																													

Start Time: 8-16-22 / 0700

End Time: 8-16-22 at 0800

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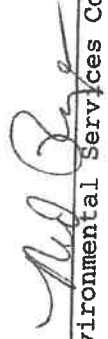
Control Number: 2208010371
Customer Name : NORTH LITTLE ROCK-MAUELLE EFF
Customer/Permit No. : 3719 / AR0020303
Report Date : 09/23/22
Composite Date: 08/15/22 -08/16/22
Sample Time : 0705-0815; 0815
Sample Type : GRAB/COMP WWATER
Sample From : MME-WTR-MCR-Q3-22
Collected By: BRYAN CROFT/KAY
Delivery By : MER
Work Order :
Purchase Order :

Laboratory Analysis

Analysis		Laboratory Analysis		Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	% RPD	Accuracy & Recovery
08/25	0233 JFT	Beryllium	< 10.00 ug/L			EPA 200.8	2.69	101.8 *
08/19	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	11.76	106.2 *
08/31	0935 ACZ	Mercury, low level	0.540 ng/L			EPA 1631E	0.41	100.0 *
08/18	0455 NTR	Nitrate Nitrogen	0.8400 mg/L			HACH 10206	0.34	101.8 *
08/18	0430 NTR	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	1.92	96.7 *
08/19	0500 NTR	Phenolics, Low Range	< 0.066 mg/L			EPA 420.1	9.71	103.0 *
08/25	1647 JFT	Chromium	< 20.00 ug/L			EPA 200.8	0.19	98.5 *
09/07	1515 ACL	Phosphorus, Total (as P)	2.150 mg/L			EPA 365.1	1.28	101.0 *
08/23	1618 JFT	Nickel	< 20.00 ug/L			EPA 200.8	1.88	108.1 *
08/23	1717 JFT	Copper	1.71 ug/L			EPA 200.8	2.48	104.5 *
08/25	1647 JFT	Zinc	55.40 ug/L			EPA 200.8	1.72	100.0 *
08/23	1606 JFT	Arsenic	10.29 ug/L			EPA 200.8	0.54	105.3 *
08/25	1647 JFT	Selenium	< 15.00 ug/L			EPA 200.8	2.32	98.5 *
08/25	1647 JFT	Molybdenum	< 50.00 ug/L			EPA 200.8	0.22	93.5 *
08/25	1647 JFT	Silver	< 10.0 ug/L			EPA 200.8	0.11	91.4 *
08/23	1609 JFT	Cadmium	< 20.00 ug/L			EPA 200.8	0.51	93.9 *
08/23	1705 JFT	Antimony	< 10.00 ug/L			EPA 200.8	3.03	88.6 *
08/25	1647 JFT	Thallium	< 20.000 ug/L			EPA 200.8	0.30	99.6 *
08/23	1618 JFT	Lead	< 10.00 ug/L			EPA 200.8	2.10	81.9 *

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Signature  Environmental Services Co., Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2208010372
 Customer Name : NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit No. : 3719 / AR0020303
 Report Date : 09/23/22

Sample Date : 08/16/22
 Sample Time : 0815
 Sample Type : GRAB WWATER
 Sample From : EQUIPMENT BLANK

Collected By: BRYAN CROFT/KAY
 Delivery By : MER
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>			
<u>Date</u> 08/11	<u>Time</u> 0940	<u>By</u> ACZ	
<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>
Mercury, low level	0.310 ng/L		
			<u>Method</u>
			EPA 1631E
			<u>Quality Assurance</u>
			<u>Precision</u>
			<u>% RPD</u> 0.41
			<u>Accuracy</u>
			<u>% Recovery</u> 100.0 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature  Environmental Services/Co., Inc.

Env. mental Services Company, Inc.
 Corporate Office
 13715 West Markham P.O. Box 55146
 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.esclabs.com
 Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters					
Company Name: North Little Rock WWU/Maumelle				Permit/Project #: 221490				Metals (See Comments)					
Address: P.O. Box 17898				Purchase Order #: 221490				NO3(18), Total P(25)					
Telephone: North Little Rock, AR 72117				Work Order #				Phenols (24,2)					
FAX: 501-945-7186				Sampler Name(s): Brian Carter				Cyanide (9)					
Contact: Ms. Marybeth Eggleston				and Signature(s): Kayla Jones				NO2(19), Total N(2)					
ESC Client Number: 3719 Effluent Quarterly								Mercury(16,31)					
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#				
MME-WTR-MCR-03-22-2208010371	3719	8-16-22	0815	Grab	Wwater	Plastic	8 oz	NaOH	1				
MME-WTR-MCR-03-22-2208010371		8-16-22	0815	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1	X			
MME-WTR-MCR-03-22-2208010371		8-16-22	0815	Grab	Wwater	Plastic	8 oz	H2SO4	1		X		
MME-WTR-MCR-03-22-2208010371		8-16-22	0815	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1			X	
MME-WTR-MCR-03-22-2208010371		8-16-22	0815	Composite	Wwater	Plastic	8 oz	HNO3 to pH < 2	1				X
MME-WTR-MCR-03-22-2208010371		8-16-22	0815	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X
Equipment Blank	2208010372	8-16-22	0815	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Custody Seals:					
Ms. Marybeth Eggleston				Ms. Kayla Jones				Used? <input checked="" type="checkbox"/>					
Date: 8/16/22				Date: 8/16/22				Turnaround: <input checked="" type="checkbox"/>					
Time: 15:16				Time: 14:27				Intact? <input type="checkbox"/>					
Relinquished By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Regular <input checked="" type="checkbox"/>					
Ms. Kayla Jones				Ms. Kayla Jones				Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Date: 8/16/22				Date: 8/16/22				Result					
Time: 15:16				Time: 15:16				Result					
Comments: Be(4,PS), Ni(28,PS), Cu(29,PS), As(33,PS), Ag(47,PS), Cd(48,PS), Tl(81,PS), Pb(82,PS), Cr(24,PS), Zn(30,PS), Se(34,PS), Mo(42,PS), Sb(51,PS), 00,MD				Flow Data				Field Test					
4.75 Jt 8/16/22				Jt 8/16/22				Time					
Analyst: Jt				Analyst: Jt				Time					
Reading: Jt				Reading: Jt				Time					
Units: Jt				Units: Jt				Time					
Fecal Start:				Fecal Start:				Time					
This Document is Page 1 of 2													

Start Time: 8-15-22 / 0705

End Time: 8-16-22 at 0815

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2210010408
 Customer Name : NORTH LITTLE ROCK-MAUMELLE INF
 Customer/Permit No. : 3720 / AR00020303
 Report Date : 11/07/22
 Composite Date: 10/25/22 - 10/26/22
 Sample Time : 0700-0820/0820(10/26)
 Sample Type : COMP/GRAB WATER
 Sample From : MMI-WTR-MCR-Q4-22

Collected By: BRYAN CROFT/KAY
 Delivery By : NTR
 Work Order :
 Purchase Order :

Laboratory Analysis

Date	Time	BY	Parameter	Result	Notes	Quantity	Method	Quality Assurance	
								Precision % RPD	Accuracy % Recovery
11/03	1736	JFT	Beryllium	< 0.0050 mg/L			EPA 200.8	0.77	93.4 *
11/02	0515	NTR	Cyanide Total (HACH 10265	0.0111 mg/L			SM 2011 4500-CN E	0.00	104.0 *
10/31	0430	NTR	Phenolics	0.11 mg/L			EPA 420.1	2.13	99.0 *
11/03	1736	JFT	Chromium	0.02975 mg/L			EPA 200.8	0.04	111.3 *
11/03	1736	JFT	Nickel	0.00919 mg/L			EPA 200.8	0.66	98.4 *
11/03	1736	JFT	Copper	0.1082 mg/L			EPA 200.8	2.12	98.9 *
11/03	1736	JFT	Zinc	0.2754 mg/L			EPA 200.8	7.76	101.9 *
11/03	1736	JFT	Arsenic	< 0.0100 mg/L			EPA 200.8	0.75	102.7 *
11/03	1736	JFT	Selenium	< 0.0100 mg/L			EPA 200.8	2.85	97.8 *
11/03	1736	JFT	Molybdenum	< 0.0100 mg/L			EPA 200.8	1.32	92.9 *
11/03	1736	JFT	Silver	0.00855 mg/L			EPA 200.8	0.80	105.5 *
11/07	0900	NTR	Cadmium	< 0.00400 mg/L			EPA 200.8	1.39	95.7 *
11/03	1736	JFT	Mercury	< 0.0050 mg/L			EPA 245.7	12.57	104.4 *
11/03	1736	JFT	Antimony	< 0.0200 mg/L			EPA 200.8	1.22	99.1 *
11/03	1736	JFT	Thallium	< 0.0100 mg/L			EPA 200.8	0.00	87.4 *
11/03	1736	JFT	Lead	< 0.01000 mg/L			EPA 200.8	2.85	97.5 *

* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co., Inc.

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CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters				
Company Name: North Little Rock WWU/Maumelle				Permit/Project #:								
Address: P.O. Box 17898				Purchase Order #: 222137								
Telephone: North Little Rock, AR 72117				Work Order #:								
FAX: 501-945-7186				Sampler Name(s): Bryan Craft								
Contact: Ms. Marybeth Eggleston				and Signature(s): Kella Jones								
ESC Client Number: 3720 Influent Quarterly												
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Grande (9)	Phenols (24)	Metals (See Comments)
MNI-6JTR-MCR-04-22	2210010408	10/26/22	0820	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X		
MNI-6JTR-MCR-04-22		10/26/22	0820	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1		X	
MNI-6JTR-MCR-04-22		10/26/22	0820	Composite	Wwater	Plastic	8 oz	HNO3	1			X
Relinquished By: (Signature and Printed Name) Bryan Craft				Received By: (Signature and Printed Name) Kella Jones				Custody Seals: Used? <input type="checkbox"/> Intact? <input type="checkbox"/>				
Relinquished By: (Signature and Printed Name) Bryan Craft				Received By: (Signature and Printed Name) Kella Jones				Were samples properly preserved: Regular <input type="checkbox"/> Special <input type="checkbox"/>				
Relinquished By: (Signature and Printed Name) Kella Jones				Received By: (Signature and Printed Name) Kella Jones				Result <input type="checkbox"/> Result <input type="checkbox"/>				
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW), Pb(81.HW), Pb(82.HW), Hg(50.15), Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.MD				Flow Data				Time				
Cool all samples to 5 to 6 degrees C with ice.				Time				Time				
Units:				Chlorinated? Y N				This Document is Page 1 of 1				

Start Date & Time: 10/25/22 at 0700 am
 End Date & Time: 10/26/22 at 0820

DJP

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2210010402
 Customer Name : NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit No. : 3719 / AR0020303
 Report Date : 11/15/22
 Composite Date: 10/25/22 - 10/26/22
 Sample Time : 0705-0830/0830(10/26)
 Sample Type : COMP/GRAB WWATER
 Sample From : MME-WTR-MCR-Q4-22
 Collected By: BRYAN CROFT/KAY
 Delivery By : NTR
 Work Order :
 Purchase Order :

Laboratory Analysis				Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
11/03	1736 JFT	Beryllium	< 5.00 ug/L			EPA 200.8	2.22	96.7 *
11/02	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.00	104.0 *
11/11	1106 ACZ	Mercury, low level	4.080 ng/L			EPA 1631E	5.01	91.0 *
11/01	1130 DWC	Nitrate Nitrogen	4.0970 mg/L			HACH 10206	2.67	105.0 *
11/01	1030 DWC	Nitrite Nitrogen	0.8030 mg/L			EPA 354.1	4.11	108.0 *
10/31	0430 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	0.00	109.7 *
11/03	1736 JFT	Chromium	25.85 ug/L			EPA 200.8	0.04	111.3 *
10/27	0908 SLK	Phosphorus, Total (as P)	1.0800 mg/L			EPA 365.1	0.00	100.0 *
11/03	1736 JFT	Nickel	4.31 ug/L			EPA 200.8	0.66	98.4 *
11/03	1736 JFT	Copper	< 3.00 ug/L			EPA 200.8	2.07	98.9 *
11/03	1736 JFT	Zinc	69.74 ug/L			EPA 200.8	7.76	101.9 *
11/03	1736 JFT	Arsenic	< 10.00 ug/L			EPA 200.8	0.74	102.7 *
11/03	1736 JFT	Selenium	< 10.00 ug/L			EPA 200.8	3.42	107.5 *
11/03	1736 JFT	Molybdenum	< 10.00 ug/L			EPA 200.8	1.34	92.9 *
11/03	1736 JFT	Silver	8.3 ug/L			EPA 200.8	1.31	104.1 *
11/03	1736 JFT	Cadmium	< 4.00 ug/L			EPA 200.8	1.39	95.7 *
11/03	1736 JFT	Antimony	< 20.00 ug/L			EPA 200.8	0.56	98.3 *
11/03	1736 JFT	Thallium	< 10.000 ug/L			EPA 200.8	3.11	93.5 *
11/03	1736 JFT	Lead	< 10.00 ug/L			EPA 200.8	2.85	97.5 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.


 Signature _____
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2210010403
 Customer Name: NORTH LITTLE ROCK-MAUMELLE EFF
 Customer/Permit No.: 3719 / AR0020303
 Report Date: 11/15/22

Sample Date: 10/26/22
 Sample Time: 0830
 Sample Type: GRAB-WWATER
 Sample From: EQUIPMENT BLANK

Collected By: BRYAN CROFT/KAY
 Delivery By: NTR
 Work Order:
 Purchase Order:

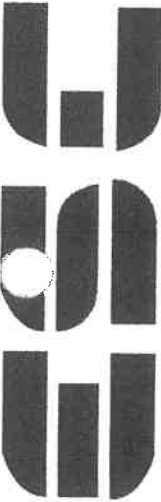
<u>Laboratory Analysis</u>			
Analysis Date	Time	By	Method
11/11	1106	ACZ	EPA 1631E
Parameter		Result	Notes
Mercury, low level		< 0.300 ng/L	
Quality Assurance		Precision % RPD	Accuracy % Recovery
		5.01	91.0 *

* QA data shown is from a different sample or standard on the same date.

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 Signature _____
 Environmental Services Co., Inc.

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 website: www.esclabs.com
 Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters							
Company Name: North Little Rock WWU/Maumelle				Permit/Project #: <u>222137</u>				NO3(18), Total P(25)							
Address: P.O. Box 17898				Purchase Order #: <u>222137</u>				Cyanide (9) <input checked="" type="checkbox"/>							
Telephone: North Little Rock, AR 72117				Work Order #				Phenols (24,2)							
FAX: 501-945-7186				Sampler Name(s): <u>Bryon Craft</u>				Metals (See Comments)							
Contact: Ms. Marybeth Eggleston				and Signature(s): <u>Marybeth Eggleston</u>				NO2(19)							
ESC Client Number: 3719 Effluent Quarterly								Mercury(16,31)							
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
MME-WTR-MCR-Q4-22	2210010402	10/26/22	08:30	Grab	Wwater	Plastic	8 oz	NaOH	1						
MME-WTR-MCR-Q4-22		10/26/22	08:50	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1						
MME-WTR-MCR-Q4-22		10/26/22	08:50	Grab	Wwater	Plastic	8 oz	H2SO4	1						
MME-WTR-MCR-Q4-22		10/26/22	08:50	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1						
MME-WTR-MCR-Q4-22		10/26/22	08:50	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1						
MME-WTR-MCR-Q4-22		10/26/22	08:50	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1						
Equipment Blank	2210010403	10/26/22	08:50	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1						
Relinquished by: (Signature and Printed Name) <u>Bryon Craft</u>				Received by: (Signature and Printed Name) <u>Ned Rye</u>				Date 10/26/22				Time 1110			
Relinquished by: (Signature and Printed Name) <u>Marybeth Eggleston</u>				Received by: (Signature and Printed Name) <u>Kyle Jones</u>				Date 10/26/22				Time 1520			
Comments: Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Flow Data				Field Test				Analyt			
				Analyt: Time:				Result				Result			
				Reading: Units:				Were samples properly preserved: Yes No				Special No			
								Custody Seals: Used? Intact?							
								Regular							

Start Date & Time: 10/25/22 at 0705am DNF
 End Date & Time: 10/26/22 at 0830

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479) 750-1170 Fax (479) 750-1172

Control Number: 2201010436
 Customer Name: NORTH LITTLE ROCK-WHITE OAK INF
 Customer/Permit No.: 2452 / AR00038288
 Report Date: 01/18/22
 Sample Date: 01/05/22
 Sample Time: 0825/0825
 Sample Type: COMP/GRAB WWATER
 Sample From: WOI-WTR-MCR-Q1-22
 Collected By: J. BARRETT/B. C
 Delivery By: J. BARRETT
 Work Order:
 Purchase Order:

Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/11	0457 NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	0.11	90.5 *
01/07	0405 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.11	96.5 *
01/10	1230 NTR	Phenolics	0.09 mg/L			EPA 420.1	0.00	100.2
01/11	0457 NTR	Chromium	< 0.02000 mg/L			EPA 200.8	0.21	97.2 *
01/11	0457 NTR	Nickel	< 0.02000 mg/L			EPA 200.8	0.01	93.9 *
01/11	0457 NTR	Copper	0.0240 mg/L			EPA 200.8	1.67	93.9 *
01/11	0457 NTR	Zinc	0.1610 mg/L			EPA 200.8	3.41	82.9 *
01/11	0457 NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	0.23	86.9 *
01/11	0457 NTR	Selenium	< 0.0150 mg/L			EPA 200.8	0.52	84.4 *
01/11	0457 NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.56	89.2 *
01/11	0457 NTR	Silver	< 0.12000 mg/L			EPA 200.8	0.78	81.7 *
01/11	0457 NTR	Cadmium	< 0.02000 mg/L			EPA 200.8	0.12	85.8 *
01/13	1400 NTR	Mercury	< 0.0050 mg/L			EPA 245.1	0.32	89.8
01/11	0457 NTR	Antimony	< 0.0100 mg/L			EPA 200.8	0.17	76.7 *
01/11	0457 NTR	Thallium	< 0.0500 mg/L			EPA 200.8	0.31	81.7 *
01/11	0457 NTR	Lead	0.10900 mg/L			EPA 200.8	0.12	83.6 *

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Signature 
 Environmental Services Co., Inc.

200

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Springdale, Arkansas
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 575-887-1ESC



CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/White Oak Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2452 Influent Quarterly				Permit/Project #: <u>212480</u> Purchase Order #: <u>212480</u> Work Order # Sampler Name(s): <u>Jason Barnett</u> <u>Bryan Craft</u> <u>Jason Barnett</u> and Signature(s): <u>Bryan Craft</u>				Cyanide (9) Phenols (24) Metals (See Comments)				
Sample Identification				Sample Collection				Sample/Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#			
WOT-WTR-MCR-Q1-22	2201010436	1/5/22	0825	Grab	Wwater	Plastic	8 oz	NaOH+Asc Acid	1	X		
WOT-WTR-MCR-Q1-22	I	1/5/22	0825	Grab	Wwater	Glass	1 Liter	CUSO4+H2SO4	1	X		
WOT-WTR-MCR-Q1-22	2201010436	1/5/22	0825	Composite	Wwater	Plastic	8 oz	HNO3	1		X	
	023											
	1/1/22											
Relinquished By: (Signature and Printed Name) <u>Jason Barnett</u> Jason Barnett				Received By: (Signature and Printed Name) <u>Sumner Brown</u> Sumner Brown				Date: 1/5/22 1430 Date: 1/5/22 1430				
Relinquished By: (Signature and Printed Name) <u>Sumner Brown</u>				Received for Lab By: (Signature and Printed Name) <u>Sumner Brown</u>				Date: 1/5/22 1606 Date: 1/5/22 1606				
Cool all samples to ≤ 6 degrees C with ice.				Flow Data Field Test Analyst:				Custody Seals: Used? <input type="checkbox"/> Intact? <input type="checkbox"/> Unaround. Regular <input type="checkbox"/> Special <input type="checkbox"/> Were samples properly preserved: Yes <input type="checkbox"/> No <input type="checkbox"/> Result Result Result Result Result Result				
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) 1(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Chlorinated? Y N Fecal Start:				This Document is Page <u>1</u> of <u>1</u>				

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010434
 Customer Name: NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No.: 2451 / AR00038288
 Report Date: 01/21/22

Sample Date: 01/05/22
 Sample Time: 0810
 Sample Type: COMP/GRAB WWATER
 Sample From: WOE-WTR-MCR-Q1-22

Collected By: J. BARRETT/B. C
 Delivery By: J. BARRETT
 Work Order:
 Purchase Order:

Laboratory Analysis				Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/11	0457 NTR	Beryllium	< 50.00 ug/L			EPA 200.8	1.58	105.1
01/07	0405 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	3.11	96.5 *
01/11	1046 ARA	Mercury, low level	1.390 ng/L			EPA 1631E	5.70	100.0
01/06	1335 EJD	Total Kjeldahl Nitrogen	29.1 mg/L			02/2014 HACH 10242	5.43	109.0
01/07	1045 KSR	Nitrate Nitrogen	1.0700 mg/L			HACH 10206	2.05	98.3
01/07	1115 KSR	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	0.00	99.0
01/10	1230 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	2.06	96.6 *
01/11	0457 NTR	Chromium	< 20.00 ug/L			EPA 200.8	0.21	97.2
01/13	1445 EJC	Phosphorus, Total (as P)	2.000 mg/L			EPA 365.1	0.00	104.4 *
01/06	1430 EJD	Solids, Total Dissolved	102.0 mg/L			SM 2011 2540 C	21.51	N/A *
01/11	0457 NTR	Nickel	< 20.00 ug/L			EPA 200.8	0.01	93.9
01/11	0457 NTR	Copper	< 20.00 ug/L			EPA 200.8	1.67	93.9
01/11	0457 NTR	Zinc	53.57 ug/L			EPA 200.8	6.00	82.9
01/11	0457 NTR	Arsenic	< 10.00 ug/L			EPA 200.8	0.23	86.9
01/11	0457 NTR	Selenium	< 15.00 ug/L			EPA 200.8	0.52	84.4
01/11	0457 NTR	Molybdenum	< 50.00 ug/L			EPA 200.8	0.56	89.2
01/11	0457 NTR	Silver	< 120.0 ug/L			EPA 200.8	0.56	81.7
01/11	0457 NTR	Cadmium	< 20.00 ug/L			EPA 200.8	0.12	85.8
01/11	0457 NTR	Antimony	< 10.00 ug/L			EPA 200.8	0.17	76.7
01/11	0457 NTR	Thallium	< 50.000 ug/L			EPA 200.8	0.31	81.7
01/11	0457 NTR	Lead	110.28 ug/L			EPA 200.8	0.12	83.6

* QA data shown is from a different sample or standard on the same date.

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Signature



Environmental Services Co., Inc.

WJ

Data Release authorized by:

Ned Ryerson, Laboratory Manager

Laboratory control samples were monitored for all analytes of interest.

Analysis Date: 01/11/22
 Analysis Time: 1537
 Analyst: ARA

Method: SW 8081B, Rev 2, 2007
 System Monitoring Compounds
 Decachlorobiphenyl
 % Recovery 72.9%
 % Recovery Limits 44.1-108

QUALITY ASSURANCE DATA

Client:	Control Number:	Sample Type:	Sample Identification:	Analyte	Result	Detection Limit
North Little Rock Five Mile Effluent	2201010434	Grab Wastewater	WOE-WTR-MCR-Q1-22	Chlorpyrifos	ND	0.01
Sample Date: 01/05/22	Sample Time: 0810	Receipt Date: 01/05/22	Report Date: 01/12/22	ANALYTES OF INTEREST (µg/L or ppb)		

LABORATORY REPORT

Environmental Services Company, Inc.
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 13715 West Markham
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 501-221-1341 (f)
 Carlsbad, New Mexico
 575-887-7-ESC (372)
 Springdale, Arkansas
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Northwest Arkansas Branch
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 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010435
 Customer Name : NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No. : 2451 / AR00038288
 Report Date : 01/21/22

Sample Date : 01/05/22
 Sample Time : 0810
 Sample Type : GRAB WATER
 Sample From : EQUIPMENT BLANK

Collected By: J. BARRETT/B. C
 Delivery By : J. BARRETT
 Work Order :
 Purchase Order :

Laboratory Analysis			
Date	Time	By	Method
01/11	1055	ARA	EPA 1631E
Parameter		Result	Quantity
Mercury, low level		< 0.500 ng/L	
Precision		Accuracy	
% RPD		% Recovery	
5.70		100.0 *	

* QA data shown is from a different sample or standard on the same date.

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Signature *Neil Rye*
 Environmental Services Co., Inc.

JM



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 Albuquerque, New Mexico
 888-372-3477

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters					
Client: North Little Rock WWU/White Oak				Permit/Project #: 212480				Metals (See Comments)					
Address: P.O. Box 17898				Purchase Order #: 212480				Phenols (24.2)					
Phone: North Little Rock, AR 72117				Work Order #				Cyanide (9)					
Fax: 501-945-7186				Sampler Name(s): Jason Berrett				TKN (16.C), NO2+NO2(91), Total P(25)					
Contact: Ms. Marybeth Eggleston				and Signature(s): Bryan Craft				Chlorpyrifos (99.PC) 1st quarter only					
ESC Client Number: 2451 Effluent Quarterly-1st								Mercury(16.31)					
Sample Identification				Sample Collection				Sample Containers					
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Type	Preservative	#			
WWE-WTR-MCR-01-22	2201010434	1/5/22	0810	Grab	Wwater	Plastic	8 oz	Plastic	NaOH+Asc Acid	1	X		
WWE-WTR-MCR-01-22		1/5/22	0810	Grab	Wwater	Glass	1 Liter	Glass	CUSO4+H2SO4	1			
WWE-WTR-MCR-01-22		1/5/22	0810	Composite	Wwater	Plastic	8 oz	Plastic	HNO3	1		X	
WWE-WTR-MCR-01-22		1/5/22	0810	Grab	Wwater	Amb GI	1 Liter	Amb GI	None	1			X
WWE-WTR-MCR-01-22		1/5/22	0810	Grab	Wwater	Plastic	8 oz	Plastic	None	1			X
WWE-WTR-MCR-01-22		1/5/22	0810	Grab	Wwater	Plastic	8 oz	Plastic	H2SO4	1			X
WWE-WTR-MCR-01-22		1/5/22	0810	Composite	Wwater	Glass	250 ml	Glass	HCl	1			X
Equipment Blank	2201010435	1/5/22	0810	Grab	Wwater	Glass	250 ml	Glass	HCl	1			X
Relinquished By: (Signature and Printed Name) Jason Berrett				Received By: (Signature and Printed Name) Michelle Brown				Date/Time 1/5/22 1430					
Relinquished By: (Signature and Printed Name) Michelle Brown				Received By: (Signature and Printed Name) Michelle Brown				Date/Time 1/5/22 1606					
Relinquished By: (Signature and Printed Name) Michelle Brown				Received By: (Signature and Printed Name) Michelle Brown				Date/Time 1/5/22 1606					
Cool all samples to ≤ 6 degrees C with ice.												Customary Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>	
Comments:												Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>	
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS) Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD												Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
												Result	
												Analyst	
												Time	
												Field Test	
												Fecal Start:	
												Chlorinated? Y N	
												This Document is Page 1 of 1	

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2205010338
 Customer Name : NORTH LITTLE ROCK-WHITE OAK INF
 Customer/Permit No. : 2452 / AR00038288
 Report Date : 05/26/22
 Sample Date : 05/10/22
 Sample Time : 0845
 Sample Type : GRAB/COMP/WWATER
 Sample From : WOI-WTR-MCR-Q2-22
 Collected By: KAYLA JONES
 Delivery By : MER
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis		Parameter		Result	Notes	Quantity	Method	Quality Assurance	
Date	Time	BY						Precision % RPD	Accuracy % Recovery
05/23	0645	NTR	Beryllium	< 0.0500 mg/L			EPA 200.8	1.44	98.7 *
05/20	0405	NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	16.67	92.3 *
05/13	0500	NTR	Phenolics	0.11 mg/L			EPA 420.1	6.90	102.7 *
05/23	0645	NTR	Chromium	< 0.02000 mg/L			EPA 200.8	0.29	99.2 *
05/23	0645	NTR	Nickel	< 0.02000 mg/L			EPA 200.8	0.69	100.8 *
05/23	0645	NTR	Copper	0.0410 mg/L			EPA 200.8	1.10	102.2 *
05/23	0645	NTR	Zinc	< 0.0500 mg/L			EPA 200.8	2.27	106.1 *
05/23	0645	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	0.93	101.5 *
05/23	0645	NTR	Selenium	< 0.0150 mg/L			EPA 200.8	0.77	102.5 *
05/23	0645	NTR	Molybdenum	< 0.0500 mg/L			EPA 200.8	1.69	97.0 *
05/23	0645	NTR	Silver	< 0.12000 mg/L			EPA 200.8	0.78	93.6 *
05/23	0645	NTR	Cadmium	< 0.02000 mg/L			EPA 200.8	0.08	98.9 *
05/19	1330	AAC	Mercury	< 0.0050 mg/L			EPA 245.1	0.00	79.0 *
05/23	0645	NTR	Antimony	< 0.0100 mg/L			EPA 200.8	0.40	98.0 *
05/23	0645	NTR	Thallium	< 0.0500 mg/L			EPA 200.8	0.68	104.2 *
05/23	0645	NTR	Lead	0.03540 mg/L			EPA 200.8	0.62	101.1 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

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Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/White Oak Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2452 Influent Quarterly				Permit/Project #: <u>210480-220847</u> Purchase Order #: <u>210480-220847</u> Work Order # Sampler Name(s): <u>Kayla Jones</u> and Signature(s): <u>Bryan Craft</u> <u>Kayla Jones</u> <u>Bryan Craft</u>				Cyanide (9) Phenols (24) Metals (See Comments)			
Sample Identification		Sample Collection		Sample Containers		Custody Seals:		Requested Parameters			
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	#			
2007-0718-MCR-02-20	2-20-03-0338	5/10/22	0845	Grab	Wwater	8 oz	NaOH+Ac Acid	1	X		
2007-0718-MCR-02-20	I	5/10/22	0845	Grab	Wwater	1 Liter	CuSO4+H2SO4	1	X		
2007-0718-MCR-02-20		5/10/22	0845	Composite	Wwater	8 oz	HNO3	1	X		
Relinquished By: (Signature and Printed Name) <u>Kayla Jones</u> Date <u>5/10/22</u> Time <u>1415</u> Relinquished By: (Signature and Printed Name) <u>Marybeth Eggleston</u> Date <u>5/10/22</u> Time <u>1617</u> Relinquished By: (Signature and Printed Name) <u>SCM</u> Date <u>5-11-22</u> Time <u>0900</u> Cool all samples to ≤ 6 degrees C with ice.											
Received By: (Signature and Printed Name) <u>Kayla Jones</u> Date <u>5/10/22</u> Time <u>1417</u> Received By: (Signature and Printed Name) <u>Marybeth Eggleston</u> Date <u>5/10/22</u> Time <u>1619</u> Received for Lab By: (Signature and Printed Name) <u>ASTORIA CLARK</u> Date <u>5-11-22</u> Time <u>0900</u>											
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Pb(81.HW), P(82.HW), Hg(50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW), 00.HG, 00.MD				Field Test Analyst: _____ Time: _____ Reading: _____ Units: _____ Chlorinated? Y N							
This Document is Page <u>2</u> of <u>2</u>											

Sub

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2205010336 Sample Date : 05/10/22 Collected By: KAYLA JONES
 Customer Name : NORTH LITTLE ROCK-WHITE OAK EFF Sample Time : 0855 Delivery By : MER
 Customer/Permit No. : 2451 / AR00038288 Sample Type : GRAB/COMP/WWATER Work Order :
 Report Date : 06/16/22 Sample From : WOE-QTR-MCR-Q2-22 Purchase Order :


Laboratory Analysis

Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy & Recovery
05/23	0645	Beryllium	< 50.00 ug/L			EPA 200.8	1.44	98.7 *
05/20	0405	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	16.67	92.3 *
05/31	1442	Mercury, low level	8.060 ng/L			EPA 1631E		
06/01	1040	Total Kjeldahl Nitrogen	21.9 mg/L			02/2014 HACH 10242		
06/15	1548	Nitrate Nitrogen	1.6520 mg/L			HACH 10206		
06/15	1555	Nitrite Nitrogen	0.2080 mg/L			EPA 354.1	2.99	116.0 *
05/13	0500	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	1.50	108.0 *
05/23	0645	Chromium	< 20.00 ug/L			EPA 200.8	13.33	95.0 *
06/15	1430	Phosphorus, Total (as P)	2.200 mg/L			EPA 200.8	0.29	97.9 *
05/16	1457	Solids, Total Dissolved	140.0 mg/L			EPA 365.1	5.15	99.2 *
05/23	0645	Nickel	< 20.00 ug/L			SM 2011 2540 C	11.45	102.0 *
05/23	0645	Copper	< 20.00 ug/L			EPA 200.8	0.69	N/A *
05/23	0645	Zinc	< 20.00 ug/L			EPA 200.8	1.10	100.8 *
05/23	0645	Arsenic	< 50.00 ug/L			EPA 200.8	2.27	102.2 *
05/23	0645	Selenium	< 10.00 ug/L			EPA 200.8	0.93	106.1 *
05/23	0645	Molybdenum	< 15.00 ug/L			EPA 200.8	0.77	101.5 *
05/23	0645	Silver	< 50.00 ug/L			EPA 200.8	1.69	102.5 *
05/23	0645	Cadmium	< 120.0 ug/L			EPA 200.8	0.82	97.0 *
05/23	0645	Antimony	< 20.00 ug/L			EPA 200.8	0.08	93.6 *
05/23	0645	Thallium	< 10.00 ug/L			EPA 200.8	0.40	98.9 *
05/23	0645	Lead	< 50.000 ug/L			EPA 200.8	0.68	98.0 *
05/23	0645		35.74 ug/L			EPA 200.8	0.62	104.2 *
05/23	0645							101.1 *

* QA data shown is from a different sample or standard on the same date.

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Signature


 Environmental Services Co., Inc.



Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2205010337
 Customer Name: NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No.: 2451 / AR00038288
 Report Date: 06/09/22

Sample Date: 05/10/22
 Sample Time: 0855
 Sample Type: GRAB/WWATER
 Sample From: EQUIPMENT BLANK


Collected By: KAYLA JONES
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

<u>Analysis</u>		<u>Quality Assurance</u>	
<u>Date</u> 05/31 1447 ACZ	<u>Parameter</u> Mercury, low level	<u>Precision</u> % RPD	<u>Accuracy</u> % Recovery
	Result < 0.300 ng/L		
	<u>Notes</u>		<u>Method</u> EPA 1631E

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Signature 
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CHAIN OF CUSTODY

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 575-887-1372
 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/White Oak				Permit/Project #:											
Address: P.O. Box 17898				Purchase Order #:											
Phone: North Little Rock, AR 72117				Work Order #:											
Fax: 501-945-7186				Sampler Name(s):											
Contact: Ms. Marybeth Eggleston				and Signature(s):											
ESC Client Number: 2451 Effluent Quarterly															
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	Phenols (24.2)	NO3(18), Total P(25)	Metals (See Comments)	NO2(19)	Mercury(16.31)
DOE-WTR-MCR-02-20	2205010336	5/10/20	0855	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
DOE-WTR-MCR-02-20		5/10/20	0855	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1		X				
DOE-WTR-MCR-02-20		5/10/20	0855	Grab	Wwater	Plastic	8 oz	H2SO4	1			X			
DOE-WTR-MCR-02-20		5/10/20	0855	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1				X		
DOE-WTR-MCR-02-20		5/10/20	0855	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1			X			
DOE-WTR-MCR-02-20		5/10/20	0855	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X		
Equipment Blank	2205010337	5/10/20	0855	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1				X		
Requisitioned By: (Signature and Printed Name)				Received By: (Signature and Printed Name)				Custody Seals:							
[Signature] Kayla Jones				[Signature] Michael Ratchford				Used? <input type="checkbox"/> Intact? <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)				Received for Lab By: (Signature and Printed Name)				Turnaround:							
[Signature] Michael Ratchford				ASTEYA CLARKE				Regular <input type="checkbox"/> Special <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)				Received for Lab By: (Signature and Printed Name)				Were samples properly preserved:							
[Signature] VALENTIA COOPER				ASTEYA CLARKE				Yes <input type="checkbox"/> No <input type="checkbox"/>							
Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Result							
Comments:				Analyst:				Result							
				Time:				Result							
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS),				Reading:				Units							
Cd(48.PS), Tl(81.PS), Pb(82.PS),				Chlorinated? Y N				Fecal Start:							
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD								This Document is Page 1 of 2							

[Handwritten initials]

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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Control Number: 2208010377
 Customer Name: NORTH LITTLE ROCK-WHITE OAK INF
 Customer/Permit No.: 2452 / AR00038288
 Report Date: 09/12/22
 Composite Date: 08/15/22 -08/16/22
 Sample Time: 0647-0900; 0900
 Sample Type: GRAB/COMP WWATER
 Sample From: WO1-WTR-MCR-Q3-22
 Collected By: BRYAN CROFT/KAY
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

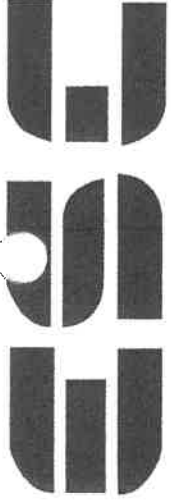
Analysis		Laboratory Analysis			Quality Assurance			
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/25	0233 JFT	Beryllium	< 0.0100 mg/L			EPA 200.8	1.50	98.2 *
08/19	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	11.76	106.2 *
08/19	0500 NTR	Phenolics	0.13 mg/L			EPA 420.1	8.00	95.2 *
08/25	1647 JFT	Chromium	< 0.02000 mg/L			EPA 200.8	0.20	98.5 *
08/23	1618 JFT	Nickel	< 0.02000 mg/L			EPA 200.8	1.88	108.1
08/23	1618 JFT	Copper	0.0647 mg/L			EPA 200.8	2.49	104.5
08/25	1647 JFT	Zinc	0.2675 mg/L			EPA 200.8	1.62	100.0 *
08/23	1606 JFT	Arsenic	0.0125 mg/L			EPA 200.8	0.55	105.3
08/25	1647 JFT	Selenium	< 0.0150 mg/L			EPA 200.8	2.31	98.5 *
08/25	1647 JFT	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.23	93.5 *
08/25	1647 JFT	Silver	< 0.01000 mg/L			EPA 200.8	0.12	91.4 *
08/23	1618 JFT	Cadmium	< 0.02000 mg/L			EPA 200.8	0.51	93.9
08/18	1200 AAC	Mercury	< 0.0050 mg/L			EPA 245.7	15.90	89.0 *
08/23	1618 JFT	Antimony	< 0.0100 mg/L			EPA 200.8	3.09	88.6
08/25	1647 JFT	Thallium	< 0.0200 mg/L			EPA 200.8	0.33	99.6 *
08/23	1618 JFT	Lead	< 0.05000 mg/L			EPA 200.8	2.10	81.9

* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co., Inc.

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CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlisbad, New Mexico
 575-887-1ESC

Phone: 501-221-2565 Fax: 501-221-1341

Client Information				Project Information				Requested Parameters			
Client: North Little Rock WWU/White Oak Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2452 Influent Quarterly				Permit/Project #: 221490 Purchase Order #: 221490 Work Order # Sampler Name(s): Bryan Craft and Signature(s): Kayla Jones Bryan Craft				Phenols (24) Cyanide (9) Metals (See Comments)			
Sample Identification		Sample Collection		Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Volume	Preservative	#			
DOI-2118-MCR-03-22	220801037	8-16-22	0900	Grab	Wwater	8 oz	H ₂ O+HAc	1	X		
DOI-2118-MCR-03-22		8-16-22	0900	Grab	Wwater	1 Liter	CuSO ₄ +H ₂ SO ₄	1	X		
DOI-2118-MCR-03-22		8-16-22	0900	Composite	Wwater	8 oz	HNO ₃	1		X	
Received By: (Signature and Printed Name) <i>Marybeth Eggleston</i> Date 8-15-22 Time 1504 Relinquished By: (Signature and Printed Name) <i>Kayla Jones</i> Date 8-15-22 Time 1504 Relinquished By: (Signature and Printed Name) <i>Marybeth Eggleston</i> Date 8-15-22 Time 1504 Relinquished By: (Signature and Printed Name) <i>John T. Ford</i> Date 8/16/22 Time 1504											
Cool all samples to ≤ 6 degrees C with ice. Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Tl(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW),00.HG, 00.MD Units: Chlorinated? Y N Fecal Start:											

Start Time: 8-15-22/1647
 End Time: 8-16-22 at 0900
 DJP

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2208010375 Composite Date: 08/15/22 -08/16/22 Collected By: BRYAN CROFT/KAY
 Customer Name : NORTH LITTLE ROCK-WHITE OAK EFF Sample Time : 0850-0910; 0910 Delivery By : MER
 Customer/Permit No. : 2451 / AR00036288 Sample Type : GRAB/COMP WWATER Work Order :
 Report Date : 09/23/22 Sample From : WOE-WTR-MCR-Q3-22 Purchase Order :

Laboratory Analysis

Analysis		Parameter		Result	Notes	Quantity	Method	Quality Assurance	
Date	Time By							Precision % RPD	Accuracy % Recovery
08/25	0233 JFT	Beryllium		< 10.00 ug/L			EPA 200.8	2.69	101.8 *
08/19	0515 NTR	Cyanide Total (HACH 10265		< 0.0100 mg/L			SM 2011 4500-CN E	11.76	106.2 *
08/31	0944 ACZ	Mercury, low level		4.990 ng/L			EPA 1631E	0.41	100.0 *
08/18	0455 NTR	Nitrate Nitrogen		2.5900 mg/L			HACH 10206	0.34	101.8 *
08/18	0430 NTR	Nitrite Nitrogen		0.3300 mg/L			EPA 354.1	1.92	96.7 *
08/19	0500 NTR	Phenolics, Low Range		< 0.005 mg/L			EPA 420.1	9.71	103.0
08/25	1647 JFT	Chromium		< 20.00 ug/L			EPA 200.8	0.19	98.5 *
08/22	0425 NTR	Phosphorus, Total (as P)		1.360 mg/L			EPA 365.1	1.26	98.0
08/23	1618 JFT	Nickel		< 20.00 ug/L			EPA 200.8	1.88	108.1 *
08/23	1717 JFT	Copper		4.53 ug/L			EPA 200.8	2.48	104.5 *
08/25	1647 JFT	Zinc		40.83 ug/L			EPA 200.8	1.72	100.0 *
08/23	1606 JFT	Arsenic		10.81 ug/L			EPA 200.8	0.54	105.3 *
08/25	1647 JFT	Selenium		< 15.00 ug/L			EPA 200.8	2.32	98.5 *
08/25	1647 JFT	Molybdenum		< 50.00 ug/L			EPA 200.8	0.22	93.5 *
08/25	1647 JFT	Silver		< 10.0 ug/L			EPA 200.8	0.11	91.4 *
08/23	1609 JFT	Cadmium		< 20.00 ug/L			EPA 200.8	0.51	93.9 *
08/23	1705 JFT	Antimony		< 10.00 ug/L			EPA 200.8	3.03	88.6 *
08/25	1647 JFT	Thallium		< 20.000 ug/L			EPA 200.8	0.30	99.6 *
08/23	1618 JFT	Lead		< 10.00 ug/L			EPA 200.8	2.10	81.9 *

* QA data shown is from a different sample or standard on the same date.

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Signature  Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2208010376
 Customer Name: NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No.: 2451 / AR00038288
 Report Date: 09/23/22

Sample Date: 08/16/22
 Sample Time: 0910
 Sample Type: GRAB WWATER
 Sample From: EQUIPMENT BLANK

Collected By: BRYAN CROFT/KAY
 Delivery By: MER
 Work Order:
 Purchase Order:

Laboratory Analysis

<u>Analysis</u>		<u>Quality Assurance</u>
<u>Date</u> 08/31 0959 ACZ	<u>Parameter</u> Mercury, low level	<u>Precision & RPD</u> 0.41
	<u>Result</u> 1.100 ng/L	<u>Accuracy & Recovery</u> 100.0 *
	<u>Notes</u>	<u>Method</u> EPA 1631E
	<u>Quantity</u>	

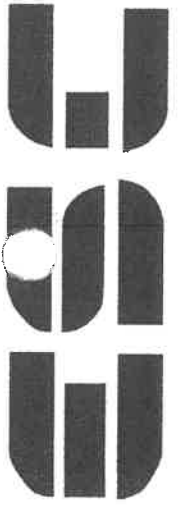
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 Carlisbad, New Mexico
 575-887-1372
 Albuquerque, New Mexico
 888-372-3477



CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/White Oak				Permit/Project #: <u>201490</u>				Metals (See Comments)				
Address: P.O. Box 17898				Purchase Order #: <u>201490</u>				NO3(18), Total P(25)				
Phone: North Little Rock, AR 72117				Work Order #				Phenols (24.2)				
Fax: 501-945-7186				Sampler Name(s): <u>Baylan Cook</u>				Cyanide (9)				
Contact: Ms. Marybeth Eggleston				and Signature(s): <u>Marybeth Eggleston</u>				NO2(19), TDS(22)				
ESC Client Number: 2451 Effluent Quarterly								Mercury(16.31)				
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#			
2208010375		8-16-20	0910	Grab	Wwater	Plastic	8 oz	HCl	1	X		
2208010376		8-16-20	0910	Grab	Wwater	Glass	1 Liter	H2SO4	1			
2208010377		8-16-20	0910	Grab	Wwater	Plastic	8 oz	H2SO4	1	X		
2208010378		8-16-20	0910	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1			
2208010379		8-16-20	0910	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1		X	
2208010380		8-16-20	0910	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1			X
Equipment Blank		8-16-20	0910	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1			X
Relinquished By: (Signature and Printed Name) <u>Marybeth Eggleston</u>				Received By: (Signature and Printed Name) <u>McGee (R. Andrew) / M. Jones</u>				Custody Seals: <input checked="" type="checkbox"/> Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>				
Relinquished By: (Signature and Printed Name) <u>Marybeth Eggleston</u>				Received By: (Signature and Printed Name) <u>McGee (R. Andrew) / M. Jones</u>				Turnaround: <input type="checkbox"/> Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>				
Relinquished By: (Signature and Printed Name) <u>Marybeth Eggleston</u>				Received By: (Signature and Printed Name) <u>McGee (R. Andrew) / M. Jones</u>				Were samples properly preserved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				
Cool all samples to ≤ 6 degrees C with ice.				Flow Data				Result				
Comments:				Field Test				Result				
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS).				Analyst: _____				Time				
Cd(48.PS), Ti(81.PS), Pb(82.PS).				Time: _____				Reading:				
Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MID				Units: _____				Chlorinated? Y N				
Start Time: 8-15-22 / 0950				Facal Start: _____				This Document is Page <u>1</u> of <u>2</u>				
End Time: 8-16-20 at 0910				DNR								

Environmental Services Company, Inc.

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Control Number: 2210010401
 Customer Name : NORTH LITTLE ROCK-WHITE OAK INF
 Customer/Permit No. : 2452 / AR00038288
 Report Date : 11/07/22

Composite Date: 10/25/22 - 10/26/22
 Sample Time : 0657-0900/0900(10/26
 Sample Type : GRAB WATER
 Sample From : WOI-WTR-MCR-Q4-22

Collected By: BRYAN CROFT/KAY
 Delivery By : NTR
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis		Laboratory Analysis		Quality Assurance				
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
11/03	1736 JFT	Beryllium	< 0.0050 mg/L			EPA 200.8	0.77	93.4
11/02	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.00	104.0 *
10/31	0430 NTR	Phenolics	0.15 mg/L			EPA 420.1	2.13	99.0 *
11/03	1736 JFT	Chromium	0.02824 mg/L			EPA 200.8	0.04	111.3 *
11/03	1736 JFT	Nickel	0.00468 mg/L			EPA 200.8	0.66	98.4 *
11/03	1736 JFT	Copper	0.0429 mg/L			EPA 200.8	2.12	98.9 *
11/03	1736 JFT	Zinc	0.1854 mg/L			EPA 200.8	7.76	101.9 *
11/03	1736 JFT	Arsenic	< 0.0100 mg/L			EPA 200.8	0.75	102.7 *
11/03	1736 JFT	Selenium	< 0.0100 mg/L			EPA 200.8	2.85	97.8 *
11/03	1736 JFT	Molybdenum	< 0.0100 mg/L			EPA 200.8	1.32	92.9 *
11/03	1736 JFT	Silver	0.00894 mg/L			EPA 200.8	0.80	105.5
11/03	1736 JFT	Cadmium	< 0.00400 mg/L			EPA 200.8	1.39	95.7 *
11/07	0900 NTR	Mercury	< 0.0050 mg/L			EPA 245.7	12.57	104.4 *
11/03	1736 JFT	Antimony	< 0.0200 mg/L			EPA 200.8	1.22	99.1
11/03	1736 JFT	Thallium	< 0.0100 mg/L			EPA 200.8	0.00	87.4
11/03	1736 JFT	Lead	< 0.01000 mg/L			EPA 200.8	2.85	97.5 *

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 website: www.esclabs.com

Phone: 501-221-2565 Fax: 501-221-1341



CHAIN OF CUSTODY

Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

Client Information				Project Information				Requested Parameters				
Client: North Little Rock WWU/White Oak Address: P.O. Box 17898 North Little Rock, AR 72117 Phone: 501-945-7186 Fax: 501-945-2367 Contact: Ms. Marybeth Eggleston ESC Client Number: 2452 Influent Quarterly				Permit/Project #: <u>222137</u> Purchase Order #: <u>222137</u> Work Order #: <u>222137</u> Sampler Name(s): <u>Kayla Jones</u> and Signature(s): <u>[Signature]</u>				Cyanide (9) <input checked="" type="checkbox"/> Metals (See Comments) <input checked="" type="checkbox"/> Phenols (24) <input checked="" type="checkbox"/>				
Sample Identification				Sample Collection				Sample Containers				
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#			
WOL-WTR-MCR-CH-22	2210010	10/26/22	0900	Grab	Wwater	Grab	8 oz	NaOH+Asc Acid	1			
WOL-WTR-MCR-CH-22		10/26/22	0900	Grab	Wwater	Grab	1 Liter	CuSO4+H2SO4	1			
WOL-WTR-MCR-CH-22		10/26/22	0900	Composite	Wwater	Composite	8 oz	HNO3	1			
Relinquished By: (Signature and Printed Name) <u>Boyan Croft</u>				Received By: (Signature and Printed Name) <u>Shelby Reed - Ned Ryge</u>				Date: 10/26/22 Time: 1110 Date: 10/26/22 Time: 1540				
Relinquished By: (Signature and Printed Name) <u>Shelby Reed - Ned Ryge</u>				Received By: (Signature and Printed Name) <u>Shelby Reed - Ned Ryge</u>				Date: 10/26/22 Time: 1540 Date: 10/26/22 Time: 1540				
Comments: Be(4.HW), Ni(28.HW), Cu(29.HW), As(33.HW), Ag(47.HW), Cd(48.HW) Tl(81.HW), Pb(82.HW), Hg (50.15) Cr(24.HW), Zn(30.HW), Se(34.HW), Mo(42.HW), Sb(51.HW),00.HG, 00.MD,				Flow Data Analyst: _____ Time: _____ Reading: _____ Units: _____				Field Test Result: _____ Result: _____ Result: _____ Result: _____				

Start Date & Time: 10/25/22 at 06:57 am
 End Date & Time: 10/26/22 at 09:00 am **OMP**

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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Control Number: 2210010399
 Customer Name : NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No. : 2451 / AR00038288
 Report Date : 11/15/22
 Composite Date: 10/25/22 -10/26/22
 Sample Time : 0653-0915/0915(10/26
 Sample Type : COMP/GRAB WWATER
 Sample From : WOE-WTR-MCR-Q4-22

Collected By: BRYAN CROFT/KAY
 Delivery By : NTR
 Work Order :
 Purchase Order :

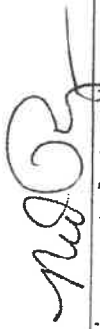
Laboratory Analysis

Analysis		Parameter	Result	Notes	Quantity	Method	Quality Assurance	
Date	Time BY						Precision % RPD	Accuracy % Recovery
11/03	1736 JFT	Beryllium	< 5.00 ug/L			EPA 200.8	2.22	96.7 *
11/02	0515 NTR	Cyanide Total (HACH 10265	< 0.0100 mg/L			SM 2011 4500-CN E	0.00	104.0 *
11/09	1615 ACZ	Mercury, low level	6.880 ng/L			EPA 1631E	0.93	107.0 *
11/01	1130 DWC	Nitrate Nitrogen	1.1050 mg/L			HACH 10206	2.67	105.0 *
11/01	1030 DWC	Nitrite Nitrogen	0.5950 mg/L			EPA 354.1	4.11	108.0 *
10/31	0430 NTR	Phenolics, Low Range	< 0.005 mg/L			EPA 420.1	0.00	109.7 *
11/03	1736 JFT	Chromium	25.61 ug/L			EPA 200.8	0.04	111.3 *
10/27	0908 SLK	Phosphorus, Total (as P)	4.3700 mg/L			EPA 365.1	0.00	100.0 *
11/03	1736 JFT	Nickel	2.75 ug/L			EPA 200.8	0.66	98.4 *
11/03	1736 JFT	Copper	4.64 ug/L			EPA 200.8	2.07	98.9 *
11/03	1736 JFT	Zinc	22.77 ug/L			EPA 200.8	7.76	101.9 *
11/03	1736 JFT	Arsenic	< 10.00 ug/L			EPA 200.8	0.74	102.7 *
11/03	1736 JFT	Selenium	< 10.00 ug/L			EPA 200.8	3.42	107.5 *
11/03	1736 JFT	Molybdenum	< 10.00 ug/L			EPA 200.8	1.34	92.9 *
11/03	1736 JFT	Silver	8.3 ug/L			EPA 200.8	1.31	104.1 *
11/03	1736 JFT	Cadmium	< 4.00 ug/L			EPA 200.8	1.39	95.7 *
11/03	1736 JFT	Antimony	< 20.00 ug/L			EPA 200.8	0.56	98.3 *
11/03	1736 JFT	Thallium	< 10.000 ug/L			EPA 200.8	3.11	93.5 *
11/03	1736 JFT	Lead	< 10.00 ug/L			EPA 200.8	2.85	97.5 *

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JFT



Signature _____
 Environmental Services Co., Inc.

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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2210010400
 Customer Name : NORTH LITTLE ROCK-WHITE OAK EFF
 Customer/Permit No. : 2451 / AR00038288
 Report Date : 11/15/22

Sample Date : 10/26/22
 Sample Time : 0915
 Sample Type : GRAB WWATER
 Sample From : EQUIPMENT BLANK

Collected By: BRYAN CROFT/KAY
 Delivery By : NTR
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>			
<u>Date</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>
11/09 1615 ACZ	Mercury, low level	< 0.300 ng/L	
			<u>Quantity</u>
			EPA 1631E
			<u>Method</u>

<u>Quality Assurance</u>	
<u>Precision</u>	<u>Accuracy</u>
% RPD	% Recovery
0.93	107.0 *

* QA data shown is from a different sample or standard on the same date.

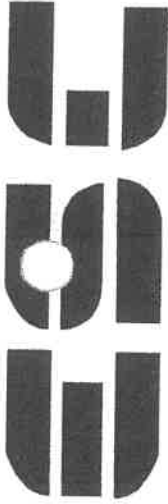
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SPT

NCR

Signature _____
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CHAIN OF CUSTODY

Springdale, Arkansas
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 Carlsbad, New Mexico
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 Albuquerque, New Mexico
 888-372-3477

Client Information				Project Information				Requested Parameters							
Client: North Little Rock WWU/White Oak				Permit/Project #: <u>202137</u>											
Address: P.O. Box 17898				Purchase Order #: <u>202137</u>											
Phone: North Little Rock, AR 72117				Work Order #											
Fax: 501-945-7186				Sampler Name(s): <u>Bryan Craft</u>											
Contact: 501-945-2367				and Signature(s): <u>Karla Jones</u>											
ESC Client Number: 2451 Effluent Quarterly															
Sample Identification				Sample Collection				Sample Containers							
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Cyanide (9)	Phenols (24.2)	NO3(18), Total P(25)	Metals (See Comments)	NO2(19)	Mercury(16.31)
WDE-DTR-MCR-04-20	2210010399	10/26/22	0915	Grab	Wwater	Plastic	8 oz	NaOH	1	X					
WDE-DTR-MCR-04-20		10/26/22	0915	Grab	Wwater	Glass	1 Liter	CuSO4+H2SO4	1		X				
WDE-DTR-MCR-04-20		10/26/22	0915	Grab	Wwater	Plastic	8 oz	H2SO4	1			X			
WDE-DTR-MCR-04-20		10/26/22	0915	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C	1						
WDE-DTR-MCR-04-20		10/26/22	0915	Composite	Wwater	Plastic	8 oz	HNO3 to pH <2	1			X			
WDE-DTR-MCR-04-20		10/26/22	0915	Composite	Wwater	Glass	250 ml	Cool ≤ 6° C	1					X	
Equipment Blank	2210010400	10/26/22	0915	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C	1						X
Relinquished By: (Signature and Printed Name) <u>Bryan Craft</u>				Received By: (Signature and Printed Name) <u>Ned Ryers</u>				Date 10/26/22				Time 1110			
Relinquished By: (Signature and Printed Name) <u>Ned Ryers</u>				Received By: (Signature and Printed Name) <u>Karla Jones</u>				Date 10/26/22				Time 1520			
Comments: Cool all samples to 36 degrees C with ice.				Flow Data				Field Test				Custody Seals: Used? <input type="checkbox"/> Intact? <input type="checkbox"/>			
Be(4.PS), Ni(28.PS), Cu(29.PS), As(33.PS), Ag(47.PS), Cd(48.PS), Tl(81.PS), Pb(82.PS), Cr(24.PS), Zn(30.PS), Se(34.PS), Mo(42.PS), Sb(51.PS), 00.MD				Analyst: _____				Time: _____				Regular <input type="checkbox"/> Special <input type="checkbox"/>			
Start Date & Time: 10/25/22 at 0653				Reading: _____				Time: _____				Were samples properly preserved: Yes <input type="checkbox"/> No <input type="checkbox"/>			
End Date & Time: 10/26/22 at 0915				Units: _____				Time: _____				Result _____			
				Chlorinated? Y N				Time: _____				Result _____			
This Document is Page 1 of 1															



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

January 19, 2022

Permit Number: 2024080213

CERTIFIED MAIL: 7018 0680 0000 3868 2962

Blue Beacon of Little Rock
Attn: Jonathan Burgess
3210 Hwy. 391
North Little Rock, AR 72117

Blue Beacon is hereby notified that they are in noncompliance with the Wastewater Discharge Permit listed above for the month of December 2021 for the following reason:

TSS OVER PERMIT LIMITS OF 2500.0mg/L – (12/15/21) 6800.0mg/L

Please respond in writing within 15 days to this office with an assessment of cause and corrective action plan. Further non-compliance will cause additional enforcement actions.

If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

Ed Toland
Pretreatment Supervisor

Cc:
Tina Price
Director, Environmental Compliance

January 31, 2022

Mr. Ed. Toland
Pretreatment Supervisor
7400 Baucum Pike
P. O. Box 17898
N. Little Rock, AR 72117-0898

RE: Blue Beacon Truck Wash of Little Rock
December 2021 TSS - N.O.V. – 15-day response
Permit Number 2024080213

Mr. Toland,

This letter is in response to the N.O.V. letter dated January 19, 2022, from the City, as attached.

In response to the lab’s TSS result of 6800.0 mg/L (permit limit of 2500.0 mg/L), for sample date December 15, 2021. Blue Beacon suspect’s cleaning of the pits the day before sampling is the source of this exceedance. I have instructed the truck wash personnel to clean the sample station weekly and after every pit cleaning.

If you have any questions or concerns, please feel free to call me at 501-945-7023 or Tina Price, Director of Environmental Compliance at 785-825-2221.

Sincerely,

Jonathan Burgess
General Manager



CC: Tina Price – Director of Environmental Compliance – Blue Beacon
Charles Nolan – Field Representative – Blue Beacon



TRUCK WASH

500 Graves Blvd | PO Box 856
Salina, KS 67402-0856

785-825-2221
bluebeacon.com



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

August 16, 2021

Permit Number: 2024080213

CERTIFIED MAIL: 7018 0680 0000 3868 2665

Blue Beacon of Little Rock
Attn: Jonathan Burgess
3210 Hwy. 391
North Little Rock, AR 72117

Blue Beacon is hereby notified that they are in noncompliance with the Wastewater Discharge Permit listed above for the month of July 2021 for the following reason:

FOG OVER PERMIT LIMITS OF 200.0mg/L – self-monitoring (7/1/21) 352.7mg/L

Please respond in writing within 15 days to this office with an assessment of cause and corrective action plan. Further non-compliance will cause additional enforcement actions.

If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

A handwritten signature in blue ink that reads 'Ed Toland'.

Ed Toland
Pretreatment Supervisor

Cc: Tina Price
Director, Environmental Compliance

August 24, 2021

Mr. Ed Toland
Pretreatment Supervisor
7400 Baucum Pike
P.O. Box 17898
N. Little Rock, AR 72117-0898

Re: Blue Beacon Truck Wash of Little Rock
July 2021 Oil & Grease N.O.V 15 -day Response
Permit Number 2024080213

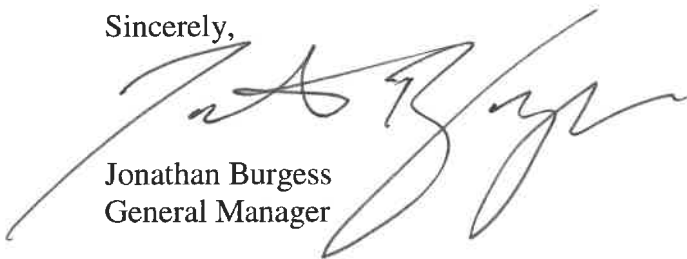
Mr. Toland,

This letter is in response to the N.O.V. letter dated 8/16/21, from the City, as attached. Please note all lab reports were previously submitted.

In response to the lab's Oil & Grease result of 352.7 mg/L (permit limit 200.0 mg/L), for sample date of 07/01/21, as initially reported, we suspect contamination as we have no source for such an anomaly. As nothing out of the ordinary appears to have occurred, we did clean the sample area and re-sampled for Oil & Grease on 07/23/21. The re-sample yielded a result of 61.90 mg/L, as reported on the July 2021 DMR. The City samples to date have also been well within permit limits.

If you have any questions or concerns please feel free to call me at 501-945-7023 or Tina Price, Environmental Compliance Senior Manager at 785-825-2221.

Sincerely,



Jonathan Burgess
General Manager

cc: Tina Price – Environmental Compliance Senior Manager Blue Beacon
Charles Nolan – Field Representative Blue Beacon



TRUCK WASH

500 Graves Blvd | PO Box 856
Salina, KS 67402-0856

785-825-2221
bluebeacon.com



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

July 19, 2021

Permit Number: 2024080219

CERTIFIED MAIL: 7007 0710 0000 0749 7492

J B Hunt Transport
Attn: Ronald Watson
2901 Hwy 161 North
North Little Rock, AR 72117

J B Hunt is hereby notified that they are in noncompliance with the Wastewater Discharge Permit listed above for the month of June 2021 for the following reason:

FOG OVER PERMIT LIMITS OF 200.0mg/L – (6/22/21) 759.4mg/L

Please respond in writing within 15 days to this office with an assessment of cause and corrective action plan. Further non-compliance will cause additional enforcement actions.

If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

Ed Toland
Pretreatment Supervisor



July 22, 2021

Permit Number 2024080219

North Little Rock Waste Water
Attn: Ed Toland
P.O. Box 17898
7400 Baucum Pike
North Little Rock, Ar. 72117

We had an issue where the oil gun valve was accidently bumped and turned on. A tech turned the meter box on not knowing the valve was on and it pumped oil into the shop drain. When we learned of the incident we washed out the drains and I called ASI out to vacuum out the sumps

J.B. Hunt Transport

Ronald Watson
Shop Foreman



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

October 19, 2021

Permit Number: 2024080219

CERTIFIED MAIL: 7018 0680 0000 3868 2955

J B Hunt Transport
Attn: Ronald Watson
2901 Hwy 161 North
North Little Rock, AR 72117

J B Hunt Transport is hereby notified that they are in noncompliance with the Wastewater Discharge Permit listed above for the month of September 2021 for the following reason:

FOG OVER PERMIT LIMITS OF 200.0mg/L – self-monitoring (9/2/21) 922.1mg/L

Please respond in writing within 15 days to this office with an assessment of cause and corrective action plan. Further non-compliance will cause additional enforcement actions.

If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

A handwritten signature in blue ink that reads 'Ed Toland'.

Ed Toland
Pretreatment Supervisor



Oct. 22, 2021

Permit Number 2024080219

North Little Rock Waste Water
Attn: Ed Toland
P.O. Box 17898
7400 Baucum Pike
North Little Rock, Ar. 72117

We had a previous issue with oil in our waste water sumps we may not have gotten them cleaned good enough and had some residual oil still in the system.

J.B. Hunt Transport

Ronald Watson
Shop Foreman

A handwritten signature in blue ink that reads "Ronnie Watson". The signature is written in a cursive style and is positioned to the right of the printed name "Ronald Watson".



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

July 19, 2021

Permit Number: 2024080223

CERTIFIED MAIL: 7007 0710 0000 0749 7485

Maverick Transportation, LLC
Attn: Debbie Mitchell
P.O. Box 15428
Little Rock, AR 72231

Maverick Transportation is hereby notified that they are in noncompliance with the Wastewater Discharge Permit listed above for the month of June 2021 for the following reason:

TSS OVER PERMIT LIMITS OF 2500.0mg/L – self-monitoring (6/3/21) 3640.0mg/L.
FOG OVER PERMIT LIMITS OF 200.0mg/L – self-monitoring (6/3/21) 432.4mg/L

Please respond in writing within 15 days to this office with an assessment of cause and corrective action plan. Further non-compliance will cause additional enforcement actions.

If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

Ed Toland
Pretreatment Supervisor



July 21 2021

North Little Rock Waste Water Utility
P.O. Box 17898
North Little Rock, AR 72117-0898

REF: Permit Number: 2024080223
Notice of Noncompliance Letter
sent July 19 2021

Attn: Ed Toland

Response: Maverick Transportation, LLC

Problem: TSS over permit of 2500.mg/L (self-monitoring) – (06/03/21) 3640.0mg/L
FOG over permit of 200.0mg/L (self-monitoring)-06/03/21) 432.4 mg/l

Reason: Sumps and Sump Skimmers required cleaning due to higher than normal volume in the truck wash.

Solution: We are working with Badger Daylighting to have them vacuum/clean sumps and replace all sump skimmers.
We have increased the quantity of sump skimmers and also changed our washing procedures.

If you should need additional information, contact Justin Williams at 501-955-1451

Maverick Transportation LLC

Debbie Mitchell
Executive Vice President/CFO

13301 VALENTINE ROAD
NORTH LITTLE ROCK, AR 72117

RECEIVED
JUL 27 2021
NLR WASTEWATER



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

April 19, 2021

Permit Number: 2024080214

CERTIFIED MAIL: 7007 0710 0000 0749 7478

Bruce Oakley Inc.
Attn: Toby Bishop
P.O. Box 17880
North Little Rock, AR 72117

Oakley Inc. is hereby notified that they are in noncompliance with Wastewater Discharge Permit listed above for the month of March, 2021 for the following reason:

TSS OVER PERMIT LIMITS OF 2500.0mg/L – (3/11/21) 4919.4mg/L.

Please respond in writing within 15 days to this office with a corrective action plan.
Further non-compliance will cause additional enforcement actions.

If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

A handwritten signature in blue ink that reads 'Ed Toland'.

Ed Toland
Pretreatment Supervisor

To whom,

Oakley Inc has been notified of noncompliance with Wastewater Discharge Permit over limits during the month of March 2021. We are confident that the TSS Over Permit Limits of 4919.4mg/L was due to our wash facilities monthly maintenance cleaning of traps and pits. Our crew failed to close outflow valves before beginning cleanup. We have made adjustments to our JSA and cleaning procedure to help prevent this in the future.

Best Regards,

Toby Bishop

A handwritten signature in blue ink, appearing to read "Toby Bishop". The signature is written in a cursive style with a large initial "T" and "B".



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

June 15, 2022

Permit Number: 2024080228

CERTIFIED MAIL: 7006 0100 0003 3756 5525

Union Pacific Railroad
Attn: Cassidy Meis
1000 W. 4th St.
North Little Rock, AR 72114

Union Pacific Railroad is hereby notified that they are in noncompliance with the Wastewater Discharge Permit listed above for the period of May 2022 for the following reason:

FAILURE TO SUBMIT BIOCHEMICAL OXYGEN DEMAND (B.O.D.) ANALYSIS FOR MAY-2022. (Submitted invalid B.O.D. analysis, exceeded EPA holding time.)

Respond within 15 days to this office an assessment of cause and as to the corrective action taken. Further non-compliance will cause additional enforcement actions.
If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

A handwritten signature in blue ink that reads 'Ed Toland'.

Ed Toland
Pretreatment Supervisor



BUILDING AMERICA®

June 28, 2022

Ed Toland
Pretreatment Supervisor
North Little Rock Wastewater
7400 Baucum Pike
North Little Rock, AR 72117

RE: UPRR North Little Rock IWTP 6/15/2022 Notice of Violation

Mr. Toland:

In May of 2022, Union Pacific Railroad (UPRR) allegedly failed to submit a valid Biochemical Oxygen Demand (B.O.D.) analysis within EPA holding time of 48 hours. UPRR sent these samples standard overnight via FedEx on May 11, 2022 and the samples arrived on May 12, 2022. Note also that the Utility took samples at the UPRR NLR discharge point on May 5, 2022 and May 12, 2022 and each of those samples complied for B.O.D. effluent limits.

UPRR fully investigated the sample delays noted above and has done the following to ensure that this will not happen again. UPRR will send out all samples on the day they were taken, change the standard overnight shipping to priority overnight and requested follow-up emails for out of time samples. UPRR is also exploring local laboratories that could perform this analysis that will not have shipping requirements.

UPRR already implemented these corrective actions for future samplings. Please contact me if there are any questions regarding this NOV.

Regards,

Cassidy Meis



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

April 15, 2022

Permit # 2024080228

Cert # 7018 0680 0000 3868 3099

Union Pacific Railroad
Attn: Cassidy Meis
1000 W. 4th St.
North Little Rock, AR 72114

Union Pacific Railroad is hereby notified that they are in noncompliance with the Wastewater Discharge Permit listed above for the period of March 2022 for the following reason:

EXCEEDED DISCHARGE FLOW MAXIMUMS OF 350 GPM – 3/22/2022 491 GPM.

Respond within 15 days to this office an assessment of cause and as to the corrective action taken. Further non-compliance will cause additional enforcement actions.
If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

Ed Toland
Pretreatment Supervisor

Company Name: Union Pacific Railroad
 Sic Number: 4011
 Classification: Railroad, Line-Hauling Operation
 Permit number: 2024080228

SECTION 4 – EFFLUENT LIMITATIONS

This Permittee/User is authorized to discharge process wastewater to the North Little Rock Wastewater Sewer System from the outfall listed below:

Description and location of permitted discharge outfall: Monitoring/Sampling Point is the parshall flume located next to the sampling station at the wastewater treatment plant on the corner of Pike AV. & W. Broadway.

During the duration of this permit the discharge from the outfall shall not exceed the following effluent limitations. In addition, the discharge shall comply with all other applicable Federal, State and Local Pretreatment Standards or Requirements.

<u>PARAMETER</u>	<u>MAXIMUMS</u>
(REVISED: EFFECTIVE DATE; JULY 20, 2021)	
Discharge Flow Maximums	325,000 gallons per day (GPD) 350 gallons per minute (GPM)

<u>PARAMETER</u>	<u>MAXIMUMS</u>
pH	5.0 - 11.0
Temperature	65 C
BOD5	2500.0 mg/L
TSS	2500.0 mg/L
O&G	200.0 mg/L
Arsenic	Report
Cadmium	Report
Chromium	Report
Copper	Report
Lead	Report
Mercury	Report
Nickel	Report
Silver	Report
Thallium	Report
Zinc	Report



BUILDING AMERICA®

5/2/22

Ed Toland
Pretreatment Supervisor
North Little Rock Wastewater
7400 Baucum Pike
North Little Rock, AR 72117

RE: UPRR North Little Rock IWTP Notice of Violation

Mr. Toland:

On March 22, 2022, North Little Rock, AR experienced an extremely large storm event that dumped approximately 3 inches in the afternoon. The excessive amount of rainwater flooded our system and may have caused a valve failure in our secondary containment pond at the Union Pacific Railroad Industrial Wastewater Treatment Plant (UPRR IWTP). This event caused a surge in our gallons per minute (GPM) with a known high of 491 GPM. Our daily limit was not exceeded with a final discharge of 324,906 gallons per day. By approximately 4 pm on March 22, we contained the pond overflow and no longer discharged. At that time, we returned to our GPM limit of 325.

On March 23, 2022, during a phone call between yourself and I, the North Little Rock Wastewater Utility verbally approved processing the pond water through the UPRR IWTP and discharging to the City. UPRR will not exceed its permitted limits with this discharge, and the water will go through our normal treatment process. This will decrease the risk associated with a future pond overflow from unforeseen weather events.

On April 15, 2022, the North Little Rock Wastewater Utility sent a Notice of Violation for the flow exceedance described above from the UPRR notification letter sent on March 25, 2022. UPRR has continued to keep the pond at a maintainable level to ensure that the chance of the pond overflowing is extremely unlikely and will follow weather patterns associated with current discharge practices. All corrective actions have taken place and will continue until further notice.

Please contact me with any questions or concerns regarding this incident.

Regards,

Cassidy Meis



NORTH LITTLE ROCK WASTE WATER UTILITY

NOTICE OF VIOLATION

February 16, 2022

Permit Number: 2024080221

CERTIFIED MAIL: 7018 0680 0000 3868 3235

Koppers Inc.
Attn: Chris Martin
P.O. Box 15490
Little Rock, AR 72231

Koppers Inc. is hereby notified that they are in noncompliance with the Wastewater Discharge Permit listed above for the month of January 2022 for the following reason:

FOG OVER PERMIT LIMITS OF 100.0mg/L – (1/19/22) 123.0mg/L

Please respond in writing within 15 days to this office with an assessment of cause and corrective action plan. Further non-compliance will cause additional enforcement actions.

If you should need additional information, contact me or a member of my staff at (501) 945-7186.

NORTH LITTLE ROCK WASTEWATER UTILITY

A handwritten signature in blue ink, appearing to read 'Ed Toland', is written over a light blue horizontal line.

Ed Toland
Pretreatment Supervisor

Chris Martin
Plant Manager



March 2, 2022

Koppers Inc.
Railroad Products and Services
P. O. Box 15490
North Little Rock, AR 72231-5490
Tel 501 945 6414
Fax 501 955 9574
martincm@koppers.com
www.koppers.com

Ms. Beth Caipen
Pretreatment Clerk
City of North Little Rock Waste-Water Utility
7400 Baucum Pike
P.O. Box 17898
North Little Rock, AR 72117

RE: Koppers Inc. Permit Number 2024080221 - Notice of Violation 1/29/2022 Report

Dear Ms. Caipen,

We received your *NOTICE OF VIOLATION* letter dated February 16, 2022, concerning the NLRWU sample collected on January 19, 2022, yielding results over the FOG permit limits. Please find our response to this letter below:

We believe the increase in observed FOG concentrations were associated with a steam leak within our oil/water separator, resulting in agitation, and leading to increased FOG concentrations within the effluent. The aforementioned leak was repaired in late January 2022. Since completion of the repair, Koppers has conducted sampling on February 15, 2022, for our discharge monitoring report (DMR) for the month of February 2022. While the laboratory report from the February 15, 2022, sampling is still preliminary, a result of 28.1 mg/L HEM (Oil & Grease) was observed. This preliminary report is included as an attachment to this letter. Please note, the finalized version of this report, including remaining analytes sampled, and corresponding results, will be included in the Koppers DMR for the month of February 2022. The DMR is scheduled to be delivered to NLRWU on or before March 15, 2022.

If you require additional information, please contact Chris Martin at (501) 945-6414.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Martin".

Chris Martin
Plant Manager
Koppers Inc.

Attachment: Eurofins Analytical Report



Environment Testing
America

ANALYTICAL REPORT

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-133755-1
Client Project/Site: Koppers, NLR, Monthly

For:
Koppers Inc.
2201 Edmonds Street
North Little Rock, Arkansas 72231

Attn: Chris Martin

Authorized for release by:
2/23/2022 4:47:47 PM

David Dunlap, Senior Project Manager
(412)963-2432
David.Dunlap@Eurofinset.com

LINKS

Review your project
results through
Total Access

Have a Question?

**Ask
The
Expert**

Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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Preliminary Data



Action Limit Summary

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

Client Sample ID: WW GRAB

Lab Sample ID: 180-133755-2

Action Limits

Results have been compared against the following action or regulatory limits. Any results or detection limits which exceed the limit are highlighted in bold.

Analyte	Result	Qualifier	Unit	Daily Max. Limit	RL	Method	Prep Type
HEM (Oil & Grease)	28.1	F1	mg/L	100	4.2	1664A	Total/NA

Preliminary Data

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Definitions/Glossary

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

Laboratory: Eurofins Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0689	09-01-22

Preliminary Data

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Sample Summary

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-133755-2	WW GRAB	Water	02/15/22 11:40	02/16/22 09:45

Preliminary Data

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Method Summary

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	TAL PEN
1664A	HEM and SGT-HEM (Aqueous)	1664A	TAL PEN

Protocol References:

1664A = EPA-821-98-002

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Preliminary Data



Lab Chronicle

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

Client Sample ID: WW GRAB

Lab Sample ID: 180-133755-2

Date Collected: 02/15/22 11:40

Matrix: Water

Date Received: 02/16/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			961 mL	1000 mL	567211	02/21/22 09:02	ARE	TAL PEN
Total/NA	Analysis	1664A		1			567296	02/21/22 13:53	ARE	TAL PEN

Instrument ID: J.T. Baker 1&2

Laboratory References:

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Analyst References:

Lab: TAL PEN

Batch Type: Prep

ARE = Andrew Ellett

Batch Type: Analysis

ARE = Andrew Ellett

Preliminary Data



Client Sample Results

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

Client Sample ID: WW GRAB

Lab Sample ID: 180-133755-2

Date Collected: 02/15/22 11:40

Matrix: Water

Date Received: 02/16/22 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	28.1	F1	4.2	1.5	mg/L		02/21/22 09:02	02/21/22 13:53	1

Preliminary Data

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

QC Sample Results

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 400-567211/1-A
Matrix: Water
Analysis Batch: 567296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		4.0	1.4	mg/L		02/21/22 09:01	02/21/22 13:53	1

Lab Sample ID: LCS 400-567211/2-A
Matrix: Water
Analysis Batch: 567296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	41.9	33.30		mg/L		79	78 - 114

Lab Sample ID: LCSD 400-567211/3-A
Matrix: Water
Analysis Batch: 567296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 567211

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	41.9	38.80		mg/L		93	78 - 114	15	18

Lab Sample ID: 180-133755-2 MS
Matrix: Water
Analysis Batch: 567296

Client Sample ID: WW GRAB
Prep Type: Total/NA
Prep Batch: 567211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	28.1	F1	108	66.18	F1	mg/L		35	78 - 114

Preliminary Data

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

QC Association Summary

Client: Koppers Inc.
Project/Site: Koppers, NLR, Monthly

Job ID: 180-133755-1

General Chemistry

Prep Batch: 567211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133755-2	WW GRAB	Total/NA	Water	1664A	
MB 400-567211/1-A	Method Blank	Total/NA	Water	1664A	
LCS 400-567211/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 400-567211/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
180-133755-2 MS	WW GRAB	Total/NA	Water	1664A	

Analysis Batch: 567296


Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-133755-2	WW GRAB	Total/NA	Water	1664A	567211
MB 400-567211/1-A	Method Blank	Total/NA	Water	1664A	567211
LCS 400-567211/2-A	Lab Control Sample	Total/NA	Water	1664A	567211
LCSD 400-567211/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	567211
180-133755-2 MS	WW GRAB	Total/NA	Water	1664A	567211

Preliminary Data

KOPPERS INC. Chain of Custody Record

TA Laboratory location: Eurofins Pittsburgh, 301 Alpha Drive, Pittsburgh, PA 15238

Regulatory program: DW NPDES RCRA Other

Company Name: Koppers Address: 1005 William Pitt Way City/State/Zip: Pittsburgh, PA 15238 Phone: 412-828-3978 Project Name: NLR Wastewater February/August Permit#: 2024080221 PO #	Client Project Manager: Katie Ottaviani / John Flaherty Telephone: 412-828-3882 / 512-528-7680 Email: ottaviani@koppers.com john.flaherty@solutions-by-ees.com Method of Shipment/Carrier: FEDEX Shipping/Tracking No:	Site Contact: Chris Martin Telephone: 501-945-6414 Analysis Turnaround Time TAT if different from below <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 7 work days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day	Lab Contact: David Dunlap Telephone: 412-863-2432	COC No: For lab use only 1 of 1 COCs For lab use only Walk-in client Lab sampling Job/SDG No: Sample Specific Notes / Special Instructions: METALS 200.8 : As, Cd, Cr, Cu, Pb, Ni, Ag, Ti, Zn 245.1: Hg Field pH/Temp (°C) 6.45 @ 31.8°C																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Sample Identification</th> <th rowspan="2">Sample Date</th> <th rowspan="2">Sample Time</th> <th colspan="6">Matrix</th> <th rowspan="2">Other</th> <th rowspan="2">Filtered Sample (Y/N)</th> <th rowspan="2">Composite C/Grab/G</th> <th rowspan="2">SM 5210B: BOD5</th> <th rowspan="2">SM 2540D: TSS</th> <th rowspan="2">EPA 1664A: HEM (Oil & Grease)</th> <th rowspan="2">EPA 200.8 / 245.1: Metals</th> </tr> <tr> <th>Air</th> <th>Aqueous</th> <th>Sediment</th> <th>Solid</th> <th>H3SO4</th> <th>HNO3</th> <th>HCl</th> <th>NaOH</th> <th>ZnAc</th> <th>NaOH</th> <th>Vapors</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td>WW Composite</td> <td>2/15/22</td> <td>10:54</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>N</td> <td>C</td> <td>X</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>WW Grab</td> <td>2/15/22</td> <td>11:40</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>N</td> <td>G</td> <td></td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>		Sample Identification	Sample Date	Sample Time	Matrix						Other	Filtered Sample (Y/N)	Composite C/Grab/G	SM 5210B: BOD5	SM 2540D: TSS	EPA 1664A: HEM (Oil & Grease)	EPA 200.8 / 245.1: Metals	Air	Aqueous	Sediment	Solid	H3SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Vapors	Other	WW Composite	2/15/22	10:54	X								N	C	X		X		WW Grab	2/15/22	11:40	X								N	G		X			 180-133755 Chain of Custody			
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WW Grab	2/15/22	11:40	X								N	G		X																																																					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Irritant <input type="checkbox"/> Corrosive Special Instructions/QC Requirements & Comments: Analyze Matrix Spikes for O/G. Analyze Duplicates for TSS. Analyze Matrix Spikes and Duplicates for Metals.		Return to Client <input type="checkbox"/> Spinal By Lab <input type="checkbox"/> Give For <input type="checkbox"/> xmbx																																																																	
TEMPERATURE WHEN RECEIVED		Field pH: 6.45 @ 31.8°C																																																																	
Relinquished by: <i>Marty</i>	Company: <i>PMI</i>	Date/Time: 2/15/2022 1300	Received by: <i>P. Hutton</i>	Company:	Date/Time: 2-16-22																																																														
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9, 2022																																																														
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:																																																														

NLR, POTW-February & August rev 01/14/22

CHAIN OF CUSTODY

North Little Rock Wastewater Utility P.O. BOX 17898 N.L.R, AR. 72117-0898 (501) 945-7186 Fax: (501) 945-2367

Sample Collection & Preservation Methods taken from 40CFR:PART 136



SAMPLING SITE / LOCATION:

Koppers

Sample Collected By:	Start Date:	Start Time:	End Date:	End Time:	Sample Type:	# & Type Container:	Preservation:	Type of Analysis:
Phillip Spencer	2-14-22	1059	2-15-22	1054	C	2P	C4	
Phillip Spence	2-14-22	1059	2-15-22	1054	C	1P	NL2	metals

Remarks:

Preservation & Container Codes: N=2 = Nitric Acid to pH<2, S=2= Sulfuric Acid to pH<2, C4= Cooled to 4 deg C, Na= NaOH to pH>12, P= Plastic, G= Glass. Sample Type: C= Composite, G= Grab.

Relinquished By:	Relinquished By:	Relinquished By:
Phillip Spence Date / Time: 2-15-22 / 1056	Wester Date / Time: 2/15/22 1300	
Wester Date / Time: 2/15/22 1150	Wester Date / Time:	

Revised April 2001

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab RM: Duniap, David A	Carrier Tracking Notis: 180-455134-1
Client Contact: Shipping/Receiving		E-Mail: David.Duniap@Eurofinsnet.com	State of Origin: Arkansas
Company: Eurofins Environment Testing Southeast		Accreditations Required (See note): State Program - Arkansas DEQ	Page: Page 1 of 1
Address: 3355 McLemore Drive, Pensacola, FL, 32514		PO #: 850-474-1001(Tel) 850-478-2671(Fax)	Job #: 180-133755-1
City: Pensacola		Project #: 18014049	Preservation Codes: A - HCL M - Hexane B - NaOH N - None O - AsNaO2 C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid I - Ice J - DI Water U - Acetone V - MCAA K - EDTA W - pH 4.5 L - EDTA Z - other (specify) Other:
Date Requested: 2/24/2022		TAT Requested (days):	Analysis Requested
Sample Date: 2/15/22		Sample Time: 11:40 Central	Field Filtered Sample (Yes or No)
Sample Type: MS		Matrix: Water	Perform MS/MSD (Yes or No)
Sample ID (Lab ID): WW GRAB (180-133755-2)		Preservation Code:	Total Number of Containers
Sample ID (Lab ID): WW GRAB (180-133755-2MS)		MS	2
Special Instructions/Note:		logged in MS must be spiked at 100 mg/L (2.5 ml spike solution) based on sample	
Special Instructions/Note:		logged in MS must be spiked at 100 mg/L (2.5 ml spike solution) based on sample	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/leak/matrix being analyzed, the sample must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Empty Kit Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____
 Custody Seals Intact: _____
 Δ Yes Δ No

Primary Deliverable Rank: 2
 Date: 2-17-22 17:00
 Received by: _____
 Company: _____
 Date/Time: _____
 Received by: _____
 Company: _____
 Date/Time: _____
 Received by: _____
 Company: _____
 Date/Time: 2-18-22 09:33
 Cooler Temperature(s) °C and Other Remarks: 0.0°C 1.6°C IR10

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Method of Shipment: _____
 Date/Time: _____
 Company: _____
 Date/Time: _____
 Company: _____
 Date/Time: _____
 Company: _____

