AMERICAN INTERPLEX CORPORATION
LABORATORIES

City of Hot Springs
ATTN: Mr. Harold Mauldin
320 Davidson Drive
Hot Springs, AR 71901

This report contains the analytical results and supporting information for samples received on March 24, 2022. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Chief Operating Officer or a qualified designee.

John Overbey
Chief Operating Officer

This document has been distributed to the following:

PDF cc: City of Hot Springs
ATTN: Mr. Dennis Brunson
dbrunson@cityhs.net

City of Hot Springs
ATTN: Mr. Harold Mauldin
wwlab@cityhs.net

City of Hot Springs
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Hot Springs, AR 71901

SAMPLE INFORMATION

Project Description:
Three (3) water sample(s) received on March 24, 2022
Manhole 1750
P.O. No. 2022-247

Receipt Details:
A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
264064-1	Site 1	24-Mar-2022 0745	
264064-2	Site 2	24-Mar-2022 0736	
264064-3	Site 3	24-Mar-2022 0804	

Qualifiers:
D Result is from a secondary dilution factor

References:
"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
"Standard Methods for the Examination of Water and Wastewaters", (SM).
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS

AIC No. 264064-1
Sample Identification: Site 1 24-Mar-2022 0745

Analyte		Result	RL	Units	Qualifier
Total Kjeldahl Nitrogen		**< 0.5**	0.5	**mg/l**	D
EPA 351.2	Prep: 28-Mar-2022 1447 by 352	Analyzed: 30-Mar-2022 1108 by 347		Batch: W79072	Dil: 2
Chlorophyll A		**< 0.0050**	0.0050	**mg/l**	
SM 10200 H 2011		Analyzed: 24-Mar-2022 1631 by 45		Batch: W79040	
Total Dissolved Solids		**29**	25	**mg/l**	
SM 2540 C 2011	Prep: 25-Mar-2022 1541 by 100	Analyzed: 29-Mar-2022 0711 by 100		Batch: W79055	
Chloride		**2.9**	0.2	**mg/l**	
EPA 300.0	Prep: 24-Mar-2022 1339 by 330	Analyzed: 26-Mar-2022 0301 by 330		Batch: C25197	
Nitrate + Nitrite as N		**< 0.5**	0.5	**mg/l**	D
EPA 300.0	Prep: 24-Mar-2022 1339 by 330	Analyzed: 26-Mar-2022 0238 by 330		Batch: C25197	Dil: 10

AIC No. 264064-2
Sample Identification: Site 2 24-Mar-2022 0736

Analyte		Result	RL	Units	Qualifier
Total Kjeldahl Nitrogen		**0.89**	0.5	**mg/l**	D
EPA 351.2	Prep: 28-Mar-2022 1447 by 352	Analyzed: 30-Mar-2022 1116 by 347		Batch: W79072	Dil: 2
Chlorophyll A		**< 0.0050**	0.0050	**mg/l**	
SM 10200 H 2011		Analyzed: 24-Mar-2022 1631 by 45		Batch: W79040	
Total Dissolved Solids		**28**	25	**mg/l**	
SM 2540 C 2011	Prep: 25-Mar-2022 1541 by 100	Analyzed: 29-Mar-2022 0711 by 100		Batch: W79055	
Chloride		**3.0**	0.2	**mg/l**	
EPA 300.0	Prep: 24-Mar-2022 1339 by 330	Analyzed: 26-Mar-2022 0347 by 330		Batch: C25197	
Nitrate + Nitrite as N		**< 0.5**	0.5	**mg/l**	D
EPA 300.0	Prep: 24-Mar-2022 1339 by 330	Analyzed: 26-Mar-2022 0324 by 330		Batch: C25197	Dil: 10

AIC No. 264064-3
Sample Identification: Site 3 24-Mar-2022 0804

Analyte		Result	RL	Units	Qualifier
Total Kjeldahl Nitrogen		**0.57**	0.5	**mg/l**	D
EPA 351.2	Prep: 28-Mar-2022 1447 by 352	Analyzed: 30-Mar-2022 1118 by 347		Batch: W79072	Dil: 2
Chlorophyll A		**< 0.0050**	0.0050	**mg/l**	
SM 10200 H 2011		Analyzed: 24-Mar-2022 1631 by 45		Batch: W79040	
Total Dissolved Solids		**31**	25	**mg/l**	
SM 2540 C 2011	Prep: 25-Mar-2022 1541 by 100	Analyzed: 29-Mar-2022 0711 by 100		Batch: W79055	
Chloride		**2.8**	0.2	**mg/l**	
EPA 300.0	Prep: 24-Mar-2022 1339 by 330	Analyzed: 26-Mar-2022 0518 by 330		Batch: C25197	
Nitrate + Nitrite as N		**< 0.5**	0.5	**mg/l**	D
EPA 300.0	Prep: 24-Mar-2022 1339 by 330	Analyzed: 26-Mar-2022 0410 by 330		Batch: C25197	Dil: 10

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DUPLICATE RESULTS

Analyte		AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Chlorophyll A		264064-1	< 0.0050 mg/l				24Mar22 1631 by 45		
	Batch: W79040	Duplicate	< 0.0050 mg/l	0.00	10.0		24Mar22 1631 by 45		
Total Dissolved Solids		263982-2	1100 mg/l			25Mar22 1541 by 100	29Mar22 0711 by 100		
	Batch: W79055	Duplicate	1100 mg/l	0.368	10.0	25Mar22 1542 by 100	29Mar22 0711 by 100		

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Kjeldahl Nitrogen	1 mg/l	126	102-150			W79072	28Mar22 1447 by 352	30Mar22 1106 by 347		
Total Dissolved Solids	2000 mg/l	99.4	85.0-115			W79055	25Mar22 1542 by 100	29Mar22 0711 by 100		
Chloride	25 mg/l	99.1	90.0-110			C25197	24Mar22 1340 by 330	25Mar22 1622 by 330		
Nitrate + Nitrite as N	10 mg/l	98.4	90.0-110			C25197	24Mar22 1340 by 330	25Mar22 1622 by 330		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Kjeldahl Nitrogen	264064-1	1 mg/l	115	44.7-152	W79072	28Mar22 1447 by 352	30Mar22 1109 by 347		
	264064-1	1 mg/l	123	44.7-152	W79072	28Mar22 1447 by 352	30Mar22 1111 by 347		
	Relative Percent Difference:		5.88	11.6	W79072				
Chloride	263997-5	25 mg/l	89.7	80.0-120	C25197	24Mar22 1340 by 330	25Mar22 1040 by 330		
	263997-5	25 mg/l	90.3	80.0-120	C25197	24Mar22 1340 by 330	25Mar22 1102 by 330		
	Relative Percent Difference:		0.517	10.0	C25197				
Nitrate + Nitrite as N	263997-5	10 mg/l	99.0	80.0-120	C25197	24Mar22 1340 by 330	25Mar22 1040 by 330		
	263997-5	10 mg/l	99.0	80.0-120	C25197	24Mar22 1340 by 330	25Mar22 1102 by 330		
	Relative Percent Difference:		0.0502	10.0	C25197				

LABORATORY BLANK RESULTS

Analyte	Result	RL	LOQ	QC Sample	Preparation Date	Analysis Date	Qual
Total Kjeldahl Nitrogen	< 0.5 mg/l	0.5	0.5	W79072-1	28Mar22 1447 by 352	30Mar22 1104 by 347	D
Chlorophyll A	< 0.0050 mg/l	0.0050	0.005	W79040-1		24Mar22 1631 by 347	
Total Dissolved Solids	< 25 mg/l	25	25	W79055-1	25Mar22 1542 by 100	29Mar22 0711 by 100	
Chloride	< 0.1 mg/l	0.1	0.2	C25197-1	24Mar22 1340 by 330	25Mar22 0954 by 330	
Nitrate + Nitrite as N	< 0.03 mg/l	0.03	0.05	C25197-1	24Mar22 1340 by 330	25Mar22 0954 by 330	

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LABORATORIES

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

2022-247

PAGE OF

Client: City of Hot Springs
Project Reference: Manhole 1750
Project Manager: Harold Mauldin
Sampled By: TM

PO No. 2022-247

AIC CONTROL NO: 264064
AIC PROPOSAL NO:
Carrier: BILL G
Received Temperature C: 0.7

AIC No.	Sample Identification	Date/Time Collected	GRAB	COMP	SAMPLE MATRIX: WATER	SOIL		NO OF BOTTLES	Total Dissolved Solids	Chloride	Nitrate+Nitrite	TKN	Chlorophyll A							Remarks
1	Site 1	3-24-22 @ 0745	✓		✓			3	✓	✓	✓	✓	✓							
2	Site 2	3-24-22 @ 0736	✓		✓			3	✓	✓	✓	✓	✓							
3	Site 3	3-24-22 @ 0804	✓		✓			3	✓	✓	✓	✓	✓							
		Container Type																		Field pH calibration
		Preservative																		on _____ @ _____ Buffer:

G = Glass P = Plastic V = VOA vials H = HCl to pH2 T = Sodium Thiosulfate
NO = none S = Sulfuric acid pH2 N = Nitric acid pH2 B = NaOH to pH12 Z = Zinc acetate

Turnaround Time Requested: (Please circle)
NORMAL or (EXPEDITED) IN 9 DAYS
Expedited results requested by: 4-2-22
Who should AIC contact with questions:
Phone: 501-621-5899 Fax:
Report Attention to:
Report Address to:

Relinquished By:	Date/Time	Received By:	Date/Time
A. Cates	3-24-22 @ 0907	B. Garner	3-24-22 @ 0907
B. Garner	3-24-22 @ 1025	D. Brown	3-24-22 1025

Comments: