

Clinton Water & Sewer East Plant

Annual Report
Permit AR0048836 & 5130-WR-2
January 2022 – December 2022



Environmental Services Company, Inc.

Corporate Office

13715 West Markham

Little Rock, Arkansas 72211

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Clinton Water and Sewer Department
Clinton, AR
East WWTP 5130-WR-2
Irrigation Water
Calendar Year 2022

Parameter	Annual Concentration (mg/L)	2022 Application Data				Total Application Since 2003 Pounds/Acre	
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre		
CBOD	< 5.5667	9.289	81.00	114,679.0	5.328	18.547	*
Sodium Absorption Ratio	56.1577	9.289	81.00	114,679.0	53.745	395.610	*
Fecal Coliform	< 912.3000	9.289	81.00	114,679.0	873.110	879.720	*
Total Suspended Solids	33.8333	9.289	81.00	114,679.0	32.380	48.904	*
Potassium	5.9793	9.289	81.00	114,679.0	5.722	36.193	*
Total Phosphorus	2.6100	9.289	81.00	114,679.0	2.498	7.237	*
Oil & Grease	< 6.5000	9.289	81.00	114,679.0	6.221	6.221	*
Plant Available Nitrogen	6.1800	9.289	81.00	114,679.0	5.915	5.915	*
Total Solids (%)	< 0.6700	9.289	81.00	114,679.0	0.641	0.641	*
Total Kjeldahl Nitrogen	11.2250	9.289	81.00	114,679.0	10.743	882.140	
Ammonia Nitrogen	< 1.6900	9.289	81.00	114,679.0	1.617	243.413	
Nitrate + Nitrite Nitrogen	0.8350	9.289	81.00	114,679.0	0.799	164.424	
Nitrate Nitrogen	2.0943	9.289	81.00	114,679.0	2.004	2.004	*
Nitrite Nitrogen	< 0.1693	9.289	81.00	114,679.0	0.162	0.162	*
BOD-5	17.2000	9.289	81.00	114,679.0	16.461	1,489.786	
Arsenic	< 0.0113	9.289	81.00	114,679.0	0.011	0.712	
Cadmium	< 0.0110	9.289	81.00	114,679.0	0.011	0.454	
Copper	< 0.0275	9.289	81.00	114,679.0	0.026	0.528	
Lead	< 0.0215	9.289	81.00	114,679.0	0.021	0.859	
Mercury	< 0.0050	9.289	81.00	114,679.0	0.005	0.135	
Molybdenum	< 0.0300	9.289	81.00	114,679.0	0.029	0.029	*
Nickel	< 0.0123	9.289	81.00	114,679.0	0.012	0.012	*
Selenium	< 0.0123	9.289	81.00	114,679.0	0.012	0.973	
Zinc	< 0.0413	9.289	81.00	114,679.0	0.040	6.004	
Conductivity, minimum (mhos/cm)*	109.8000						
Conductivity, maximum (mhos/cm)*	1831.0000						
pH, minimum (SU)*	7.3000						
pH, maximum (SU)*	9.0000						
Nitrogen Application Rate (lbs N/acre/year)	4.34						

*Values not cumulative from 2003.

Crop Grown: Bermuda Hay

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836 / 5130-WR-2
Soil
Calendar Year 2022**

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	2203010597/2210010315							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/28/22	12.706					10/24/22	6.92
Phosphorous	03/28/22	9.43					10/24/22	<0.05
Potassium	03/28/22	1226.24					10/24/22	698.38
Cation Exchange Capacity (meq)	03/28/22						10/24/22	109.62
Conductivity (umhos/cm)	03/28/22	13.79					10/24/22	21.50
Sodium Absorption Ratio	03/28/22						10/24/22	1.59
pH (SU)	03/28/22	5.8					10/24/22	5.70

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836 / 5130-WR-2
Soil
Calendar Year 2022

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	2203010598/2210010316							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/28/22	7.498					10/24/22	8.17
Phosphorous	03/28/22	14.189					10/24/22	16.44
Potassium	03/28/22	831.53					10/24/22	462.98
Cation Exchange Capacity (meq)	03/28/22						10/24/22	163.26
Conductivity (umhos/cm)	03/28/22	13.36					10/24/22	4.60
Sodium Absorption Ratio	03/28/22						10/24/22	1.08
pH (SU)	03/28/22	6.0					10/24/22	6.10

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836 / 5130-WR-2
Soil
Calendar Year 2022**

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	2203010599/2210010317							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/28/22	11.465					10/24/22	9.32
Phosphorous	03/28/22	5.2510					10/24/22	14.64
Potassium	03/28/22	415.64					10/24/22	777.37
Cation Exchange Capacity (meq)	03/28/22						10/24/22	204.21
Conductivity (umhos/cm)	03/28/22	66.7					10/24/22	83.00
Sodium Absorption Ratio	03/28/22						10/24/22	0.99
pH (SU)	03/28/22	5.80					10/24/22	6.00

**Clinton Water and Sewer Department
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Soil
Calendar Year 2022**

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	2203010600/2210010318							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/28/22	22.019					10/24/22	10.73
Phosphorous	03/28/22	5.858					10/24/22	28.97
Potassium	03/28/22	529.17					10/24/22	666.20
Cation Exchange Capacity (meq)	03/28/22						10/24/22	127.06
Conductivity (umhos/cm)	03/28/22	21.3					10/24/22	52.40
Sodium Absorption Ratio	03/28/22						10/24/22	1.69
pH (SU)	03/28/22	6.0					10/24/22	5.90

**Clinton Water and Sewer Department
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Soil
Calendar Year 2022**

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	2203010601/2210010319							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/28/22	44.429					10/24/22	1.00
Phosphorous	03/28/22	4.3510					10/24/22	6.38
Potassium	03/28/22	696.35					10/24/22	738.94
Cation Exchange Capacity (meq)	03/28/22						10/24/22	155.79
Conductivity (umhos/cm)	03/28/22	50.3					10/24/22	16.00
Sodium Absorption Ratio	03/28/22						10/24/22	12.27
pH (SU)	03/28/22	5.8					10/24/22	6.40

**Clinton Water and Sewer Department
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Soil
Calendar Year 2022**

Sample ID	Clinton East LA Airport 9							
Control Number	2203010602							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/28/22	14.892						
Phosphorous	03/28/22	6.927						
Potassium	03/28/22	1544.97						
Cation Exchange Capacity (meq)	03/28/22	148.6352						
Conductivity (umhos/cm)	03/28/22	10.93						
Sodium Absorption Ratio	03/28/22	0.2647						
pH (SU)	03/28/22	6.0						

**Clinton Water and Sewer Department
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Calendar Year 2022**

Sample ID	Clinton East LA WD 13							
Control Number	2203010603							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/28/22	10.817						
Phosphorous	03/28/22	6.199						
Potassium	03/28/22	1620.58						
Cation Exchange Capacity (meq)	03/28/22	154.3155						
Conductivity (umhos/cm)	03/28/22	8.95						
Sodium Absorption Ratio	03/28/22	0.2604						
pH (SU)	03/28/22	6.0						

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Carlsbad, New Mexico
 575-887-1ESC

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CHAIN OF CUSTODY

Client Information						Project Information						Requested Parameters					
Client: Clinton, East IW						Permit/Project #: AR0048836						BOD(3) NH3-N(15.A), NO3 + NO2(91.) TKN(16.C) Metals (See Comments)					
Address: P.O. Box 277						Purchase Order #:											
Clinton, AR 72031						Work Order #:											
Phone: 501-745-4320						Sampler Name(s): Parker Scoggins											
Fax: 501-745-2164						and Signature(s): <i>Parker Scoggins</i>											
Contact: Mr. Phil Graham						ESC Client Number: 619											
Sample Identification			Sample Collection			Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#								
Irrigation Water	2203010592	3/25/22	0905	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X							
	I	I	I	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X					
	I	I	I	Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X				
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: <i>Alison Loftis</i>		3/29/22	0939	Used? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>							
Relinquished By: <i>Parker Scoggins</i>		3/25/22	1705	Received for Lab By: <i>Secure Walk in Cooler</i>		3/25/22	1705	Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>					
								Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>					
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW) Cd(48.HW), Pb(82.HW), 00.MD						Flow Data	Field Test	Time	Analyst	Result	Result	Units					
						Analyst:	pH:	0910	LPS	7.3	7.3	S.U.					
						Time:	Conduct:					UMHOS					
						Reading:											
						Units:											
												This Document is Page 1 of 1					

LRB

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: 2203010626
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 04/06/22

Sample Date : 03/30/22
 Sample Time : 1120
 Sample Type : GRAB/WWATER
 Sample From : IRRIGATION WATER

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

Laboratory Analysis

Analysis			Result	Notes	Quantity	Method
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>			
04/01	1000	ACL	BOD, 5-day	17.2 mg/L		SM 2011 5210 B

Quality Assurance

Precision	Accuracy
<u>% RPD</u>	<u>% Recovery</u>
0.00	113.0 *

* 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.

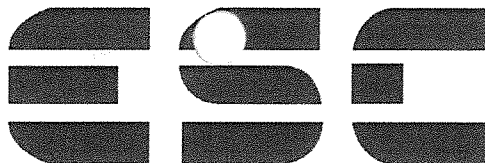
Signature _____

Ashley Greene

Environmental Services Co., Inc.

AK

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CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters						
Client:		Clinton, East IW		Permit/Project #:		AR0048836										
Address:		P.O. Box 277		Purchase Order #:												
		Clinton, AR 72031		Work Order #												
Phone:		501-745-4320		Sampler Name(s):		William Willoughby										
Fax:		501-745-2164		and Signature(s):		<i>William Willoughby</i>										
Contact:		Mr. Phil Graham		ESC Client Number:		619										
Sample Identification			Sample Collection			Sample Containers				BOD(3)						
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#							
Irrigation Water	2203010626	3/30/22	11:45	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X						
Relinquished By: (Signature and Printed Name)			Date	Time	Received By: (Signature and Printed Name)			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	Turnaround:						
										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:						
<i>William Willoughby</i>			3/30/22	1319	<i>Alison Latta</i>			3/30/22	1319	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>			
				Flow	Data	Field Test	Time	Analyst	Result	Result	Units					
Comments:				Analyst:												
				Time:												
				Reading:												
				Units:												
										This Document is Page 1 of 1						

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Control Number: 2206010462
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 07/19/22

Sample Date : 06/30/22
 Sample Time : 1015
 Sample Type : GRAB/WWATER
 Sample From : IRRIGATION WATER

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

Laboratory Analysis

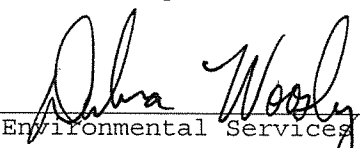
Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/12	2136	JFT	Sodium	14.5049 mg/L			EPA 200.8		
07/13	0140	JFT	Magnesium	1.4222 mg/L			EPA 200.8		
07/07	1046	AAC	Ammonia as N, (HACH/SM)	2.94 mg/L			SM 2011 4500-NH3-G	1.92	106.0 *
07/08	1607	ACL	Total Kjeldahl Nitrogen	19.4 mg/L			02/2014 HACH 10242	1.22	112.0
07/06	1620	ACL	Nitrate Nitrogen	1.1860 mg/L			HACH 10206	6.08	100.0 *
07/06	1527	ACL	Nitrite Nitrogen	0.3540 mg/L			EPA 354.1	14.60	80.0 *
07/13	0140	JFT	Potassium	4.0438 mg/L			EPA 200.8		
07/13	0140	JFT	Calcium	5.2323 mg/L			EPA 200.8		
07/05	1445	ACL	Oil & Grease, Total	< 5.00 mg/L			EPA 1664 B	5.22	98.0 *
06/30	1020	JGK	pH	8.1 S.U.			SM 2011 4500-H+B	0.00	N/A *
07/07	1305	AAC	Phosphorus, Total (as P)	2.780 mg/L			EPA 365.1	0.84	106.0 *
06/30	1504	AAC	Solids, Total Suspended	31.30 mg/L			SM 2011 2540 D	15.34	N/A
07/13	0140	JFT	Copper	0.0586 mg/L			EPA 200.8		
07/13	0140	JFT	Zinc	0.0447 mg/L			EPA 200.8		
07/12	0827	ACL	Nitrogen, Plant Available	9.41 mg/kg			SM1997 4500 N	0.00	100.0
07/13	0140	JFT	Arsenic	0.0142 mg/L			EPA 200.8		
07/13	0140	JFT	Selenium	0.0091 mg/L			EPA 200.8		
07/08	1350	ACL	Electric Conductivity	163.20 umho/c			EPA 9050A(MOD)	0.79	99.0
06/30	1630	JFT	Fecal Coliform	691.0 /100ml			06/2012 Colilert18	0.00	N/A *
07/13	0140	JFT	Cadmium	< 0.00007 mg/L			EPA 200.8		
07/01	1200	AAC	Mercury	< 0.0050 mg/L			EPA 245.1	0.00	82.0

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
07/01	1500	AAC	BOD, Carbonaceous	6.0 mg/L		SM 2011 5210 B	3.77	107.0 *
07/13	0920	AAC	Solids, % Total	< 1.000 %		SM 1997 2540 G	0.00	N/A
07/13	0140	JFT	Lead	0.01952 mg/L		EPA 200.8		
07/12	2133	JFT	Sodium Absorption Ratio	42.8606 Ratio		AGRN 724		

* 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.

PM

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: 2207010292

Sample Date : 07/25/22

Collected By: JTH

Customer Name : CLINTON, EAST IW

Sample Time : 1222

Delivery By : JTH

Customer/Permit No. : 619 / AR0048836 001

Sample Type : GRAB/WWATER

Work Order :

Report Date : 08/02/22

Sample From : IRRIGATION WATER

Purchase Order :

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/29	1800	JFT	Sodium	17.6321 mg/L			EPA 200.8	0.45	86.1 *
07/29	1800	JFT	Magnesium	2.0023 mg/L			EPA 200.8	0.25	115.2 *
07/28	1200	ACL	Ammonia as N, (HACH/SM)	< 0.01 mg/L			SM 2011 4500-NH3-G	1.51	95.0 *
07/29	1100	AAC	Total Kjeldahl Nitrogen	6.2 mg/L			02/2014 HACH 10242	2.74	112.0
07/27	1440	ACL	Nitrate Nitrogen	1.6610 mg/L			HACH 10206	0.00	102.0
07/27	1440	ACL	Nitrite Nitrogen	0.1390 mg/L			EPA 354.1	1.80	102.0
07/29	1800	JFT	Potassium	6.6241 mg/L			EPA 200.8	1.64	109.5 *
07/29	1600	JFT	Calcium	5.6312 mg/L			EPA 200.8	0.81	107.0 *
07/26	0930	ACL	Oil & Grease, Total	< 5.00 mg/L			EPA 1664 B	0.76	98.0 *
07/25	1225	JTH	pH	9.0 S.U.			SM 2011 4500-H+B	1.65	N/A *
07/26	1015	ACL	Phosphorus, Total (as P)	3.020 mg/L			EPA 365.1	0.90	102.0 *
07/27	1018	AAC	Solids, Total Suspended	55.00 mg/L			SM 2011 2540 D	0.00	N/A *
07/29	1800	JFT	Nickel	< 0.02000 mg/L			EPA 200.8	0.62	100.0 *
07/29	1800	JFT	Copper	< 0.0200 mg/L			EPA 200.8	1.40	100.6 *
07/29	1800	JFT	Zinc	0.0447 mg/L			EPA 200.8	0.71	99.5 *
07/29	1800	JFT	Arsenic	0.0109 mg/L			EPA 200.8	0.46	106.3 *
07/30	0600	NTR	Nitrogen, Plant Available	3.66 mg/L			33 MSA 2nd Ed		
07/29	1800	JFT	Selenium	< 0.0150 mg/L			EPA 200.8	0.81	98.5 *
07/26	1458	ACL	Electric Conductivity	1831.00 umho/c			EPA 9050A(MOD)	0.44	99.0
07/29	1800	JFT	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.60	104.6 *
07/25	1326	JFT	Fecal Coliform	1732.9 /100ml			06/2012 Colilert18	0.00	N/A *

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

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/29	1800	JFT	Cadmium	< 0.02000 mg/L			EPA 200.8	0.33	99.9 *
07/28	1214	AAC	Mercury	< 0.0050 mg/L			EPA 245.7	0.00	82.0 *
07/27	1315	ACL	BOD, Carbonaceous	8.7 mg/L			SM 2011 5210 B	22.09	101.0 *
07/27	1440	AAC	Solids, % Total	< 1.000 %			SM 1997 2540 G	0.00	N/A
07/29	1800	JFT	Lead	0.01458 mg/L			EPA 200.8	0.12	96.5 *
07/29	1800	JFT	Sodium Absorption Ratio	51.3731 Ratio			AGRN 724	0.45	86.1 *

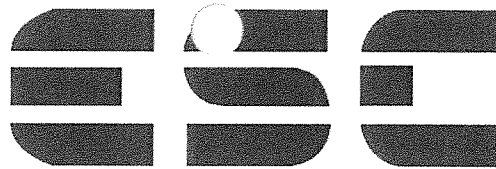
* QA data shown is from a different sample or standard on the same date.

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Signature


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Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters						
Client:		Clinton, East IW				Permit/Project #:		AR0048836			CBOD(70), TSS(28) % Solids (82)	NO3 (18), NO2(19)	TKN(16.C), NH3-N (15.A), Total P (25)	Metals (See Comments)	Oil & Grease (21)	Fecal Coliform (43.IF)	
Address:		P.O. Box 277 Clinton, AR 72031				Purchase Order #:											
Phone:		501-745-4320				Work Order #:											
Fax:		501-745-2164				Sampler Name(s):		James Holden									
Contact:		Mr. Phil Graham				and Signature(s):		James Holden									
ESC Client Number:		619															
Sample Identification			Sample Collection			Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#								
Irrigation Water	2207010202	7-25-22	1202	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X	X						
				Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1			X					
				Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X				
				Grab	Wwater	Glass	250 ml	Cool ≤ 6° C, H2SO4 to pH <2	1					X			
				Grab	Wwater	Plastic	100 ml	Cool ≤ 6° C	1						X		
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special						
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No						
		7-25-22	1550	John Telford		7/25/22	1550			X							
Comments:		Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)		Analyst:	pH:	Time:	Analyst:	Result	Result	Units							
		Cd(48.HW), Pb(82.HW), Mo (42.HW), Ni (28.HW) 00.MD, 00.Hg		Time:	Ele. Cond:	7-25-22	JTH	9.06	9.08	S.U.							
		K (19.HW), Na (11.HW), Mg (12.HW), 20.HW), SAR (99.L), PAN		Reading:			J	126.9	126.9	UMHOS							
		Ca (20.HW)		Units:													
											This Document is Page 1 of 1						

LRB

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: 2208010452
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 09/16/22

Sample Date : 08/23/22
 Sample Time : 1030
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
09/15	1507	JFT	Sodium	28.9400 mg/L			EPA 200.8	5.49	106.8 *
09/15	1507	JFT	Magnesium	2.4053 mg/L			EPA 200.8	2.88	104.4 *
08/29	1530	DWC	Ammonia as N, (HACH/SM)	0.25 mg/L			SM 2011 4500-NH3-G	1.92	98.0 *
08/26	1100	AAC	Total Kjeldahl Nitrogen	7.3 mg/L			02/2014 HACH 10242	6.62	96.0
09/09	1528	ACL	Nitrate Nitrogen	2.5830 mg/L			HACH 10206	2.76	114.0 *
09/09	1610	ACL	Nitrite Nitrogen	0.9970 mg/L			EPA 354.1	0.00	92.0 *
09/15	1507	JFT	Potassium	7.6664 mg/L			EPA 200.8	4.58	104.8 *
09/15	1507	JFT	Calcium	7.7699 mg/L			EPA 200.8	0.40	106.1 *
08/26	1115	ACL	Oil & Grease, Total	< 5.00 mg/L			EPA 1664 B	0.00	100.0 *
08/23	1035	CPS	pH	7.8 S.U.			SM 2011 4500-H+B	0.00	N/A *
09/07	1515	ACL	Phosphorus, Total (as P)	1.800 mg/L			EPA 365.1	1.28	101.0 *
08/29	1010	RRJ	Solids, Total Suspended	11.40 mg/L			SM 2011 2540 D	0.00	N/A *
09/15	1507	JFT	Nickel	< 0.01000 mg/L			EPA 200.8	0.76	102.8 *
09/15	1507	JFT	Copper	< 0.0100 mg/L			EPA 200.8	1.96	103.8 *
09/15	1507	JFT	Zinc	0.0239 mg/L			EPA 200.8	9.21	99.8 *
09/09	1700	AAC	Nitrogen, Plant Available	5.82 mg/kg			SM1997 4500 N		
09/15	1507	JFT	Arsenic	0.0120 mg/L			EPA 200.8	1.15	100.9 *
09/15	1507	JFT	Selenium	< 0.0150 mg/L			EPA 200.8	13.33	97.0 *
08/23	1035	CPS	Electric Conductivity	180.90 umho/c			EPA 9050A(MOD)	2.84	N/A
09/15	1507	JFT	Molybdenum	< 0.0100 mg/L			EPA 200.8	5.63	101.0 *
08/24	1236	SLK	Fecal Coliform	65.6 /100ml			06/2012 Colilert18	0.00	N/A *

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

Analysis			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
09/15	1507	JFT	Cadmium	< 0.00200 mg/L			EPA 200.8	2.63	99.8 *
08/26	1220	NTR	Mercury	< 0.0050 mg/L			EPA 245.7	4.98	89.0 *
08/24	1554	ACL	BOD, Carbonaceous	4.3 mg/L			SM 2011 5210 B	0.00	88.0 *
08/31	1500	DWC	Solids, % Total	0.003 %			SM 1997 2540 G	0.00	N/A *
09/15	1507	JFT	Lead	< 0.01000 mg/L			EPA 200.8	1.14	100.3 *
09/15	1507	JFT	Sodium Absorption Ratio	2.3263 Ratio			AGRN 724	5.49	106.8 *

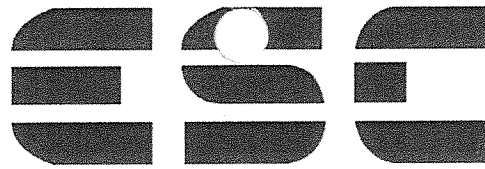
* QA data shown is from a different sample or standard on the same date.

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CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters							
Client:	Clinton, East IW			Permit/Project #:	AR0048836						CBOD(70.), TSS(28) % Solids (82)	NO3 (18), NO2(19.)	TKN(16.C), NH3-N (15.A), Total P (25)	Metals (See Comments)	Oil & Grease (21)	(Fecal Coliform (43.IF)	
Address:	P.O. Box 277			Purchase Order #:													
	Clinton, AR 72031			Work Order #													
Phone:	501-745-4320			Sampler Name(s):	Parker Scammins												
Fax:	501-745-2164			and Signature(s):	<i>Phil King</i>												
Contact:	Mr. Phil Graham																
ESC Client Number:	619																
Sample Identification		Sample Collection				Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#								
Irrigation Water	2208010452	8-23-22	1030	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X	X						
	I	I	I	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1			X					
	I	I	I	Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X				
	I	I	I	Grab	Wwater	Glass	250 ml	Cool ≤ 6° C, H2SO4 to pH <2	1					X			
	I	I	I	Grab	Wwater	Plastic	100 ml	Cool ≤ 6° C	1						X		
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				Date	Time	Custody Seals:							
<i>Phil King Parker Scammins</i>		8-23-22	1340	<i>John Telford</i>				8/23/22	1340	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:							
<i>Phil King Parker Scammins</i>		8-23-22	1340	<i>John Telford</i>				8/23/22	1340	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:							
<i>Phil King Parker Scammins</i>		8-23-22	1340	<i>John Telford</i>				8/23/22	1340	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Comments:		Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)		Analyst:	pH:		1035	CPS	7.81	7.74	S.U.						
		Cd(48.HW), Pb(82.HW), Mo (42.HW), Ni (28.HW) 00.MD, 00.Hg		Time:	Ele. Cond.		1035	CPS	180.9	185.7	UMHOS						
		K (19.HW), Na (11.HW), Mg (12.HW), 20.HW), SAR (99.L), PAN		Reading:													
		Ca (20.HW)		Units:													
		Flow not recorded as per Route Sheet CPS 8-23-22								This Document is Page 1 of 1							

DWP

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

Control Number: 2210010201
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 11/09/22

Sample Date : 10/17/22
 Sample Time : 1135
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

Collected By: JTH
 Delivery By : JTH
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>						<u>Quality Assurance</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
10/27	0002	JFT	Sodium	26.7348 mg/L			EPA 200.8	2.10	99.7 *
10/27	0002	JFT	Magnesium	2.1988 mg/L			EPA 200.8	3.65	101.4 *
10/18	1114	SLK	Ammonia as N, (HACH/SM)	0.48 mg/L			SM 2011 4500-NH3-G	0.00	100.0 *
10/21	1010	ACL	Total Kjeldahl Nitrogen	5.6 mg/L			02/2014 HACH 10242	0.85	102.0 *
10/19	1632	ACL	Nitrate Nitrogen	3.4360 mg/L			HACH 10206	0.00	109.0 *
10/19	1704	ACL	Nitrite Nitrogen	< 0.0150 mg/L			EPA 354.1	0.00	100.0 *
10/27	0002	JFT	Potassium	7.2700 mg/L			EPA 200.8	0.42	96.2 *
10/27	0002	JFT	Calcium	6.2085 mg/L			EPA 200.8	0.17	101.9 *
10/19	1140	ACL	Oil & Grease, Total	9.50 mg/L			EPA 1664 B	6.79	87.0 *
10/17	1137	JTH	pH	8.0 S.U.			SM 2011 4500-H+B	0.00	N/A *
10/19	1300	ACL	Phosphorus, Total (as P)	2.0300 mg/L			EPA 365.1	0.00	103.0 *
10/20	1109	SLK	Solids, Total Suspended	15.20 mg/L			SM 2011 2540 D	0.00	N/A *
10/27	0002	JFT	Nickel	0.00461 mg/L			EPA 200.8	1.00	95.3 *
10/27	0002	JFT	Copper	0.0114 mg/L			EPA 200.8	2.33	99.4 *
10/27	0002	JFT	Zinc	0.0257 mg/L			EPA 200.8	2.09	97.6 *
11/07	1733	JFT	Nitrogen, Plant Available	5.47 mg/kg			SM1997 4500 N	0.00	100.0
10/27	0002	JFT	Arsenic	< 0.0100 mg/L			EPA 200.8	0.18	99.0 *
10/27	0002	JFT	Selenium	< 0.0100 mg/L			EPA 200.8	1.08	97.1 *
10/17	1137	JTH	Electric Conductivity	257.00 umho/c			EPA 9050A(MOD)		
10/27	0002	JFT	Molybdenum	< 0.0100 mg/L			EPA 200.8	1.24	102.1 *
10/17	1610	SLK	Fecal Coliform	313.0 /100ml			06/2012 Colilert18	0.00	N/A *

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

Analysis			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
10/27	0002	JFT	Cadmium	< 0.00400 mg/L			EPA 200.8	0.21	99.4 *
10/19	0530	NTR	Mercury	< 0.0050 mg/L			EPA 245.7	1.08	101.2
10/19	1531	SLK	BOD, Carbonaceous	< 2.0 mg/L			SM 2011 5210 B	0.00	91.0 *
10/24	1059	RRJ	Solids, % Total	0.010 %			SM 1997 2540 G	0.00	N/A
10/27	0002	JFT	Lead	< 0.01000 mg/L			EPA 200.8	0.63	92.3 *
10/27	002	JFT	Sodium Absorption Ratio	74.2393 Ratio			AGRN 724	0.42	96.2 *

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Control Number: 2210010315
 Customer Name : CLINTON, EAST 40.24 LA PB 3
 Customer Number : 3004
 Report Date : 11/10/22

Sample Date : 10/24/22
 Sample Time : 0940
 Sample Type : GRAB SOIL
 Sample From : 40.24 LA PB3

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

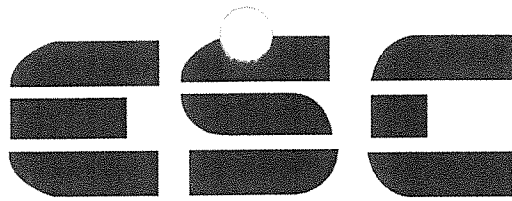
<u>Laboratory Analysis</u>						<u>Quality Assurance</u>		
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
11/07	0900	NTR	Mercury	< 0.1190 mg/Kg		SW846 7474 02/07	4.27	108.5 *
11/08	1630	ACL	Nitrate Nitrogen	6.920 mg/kg		SM 2000 4500-NO3 E	1.01	109.0
11/09	1310	ACL	Nitrite Nitrogen	1.110 mg/kg		EPA 354.1	1.79	91.0
11/08	1600	ACL	Phosphorous, Total (as P)	< 0.0500 mg/kg		EPA 365.3	0.00	100.0 *
11/01	2020	JFT	Sodium	87.49 mg/Kg		SW-846 6020A	0.82	88.6 *
11/01	2020	JFT	Aluminum, total	7850.00 mg/Kg		SW-846 6020A	1.23	91.9
11/01	2020	JFT	Potassium	698.38 mg/Kg		SW-846 6020A	2.85	91.3 *
11/01	2244	JFT	Calcium	634.90 mg/Kg		SW-846 6020A	28.32	94.3
10/31	1045	DWC	pH Soil	5.70 S.U.		SW846 9045C	0.00	N/A
11/01	2244	JFT	Iron	17450.67 mg/KG		SW-846 6020A	1.73	101.2
11/01	2020	JFT	Nickel	19.965 mg/Kg		SW-846 6020A	0.25	93.2
11/01	2244	JFT	Copper	7.343 mg/Kg		SW-846 6020A	0.48	97.5
11/01	2020	JFT	Zinc	56.222 mg/Kg		SW-846 6020A	0.56	99.0 *
11/01	2244	JFT	Arsenic	7.136 mg/Kg		SW-846 6020A	0.93	100.5
11/09	1519	ACL	Electric Conductivity	21.50 umho/c		EPA 9050A(MOD)	2.35	89.0
11/01	2244	JFT	Molybdenum	< 0.111 mg/Kg		SW-846 6020A	0.16	97.7
11/01	2244	JFT	Cadmium	< 0.111 mg/Kg		SW-846 6020A	0.34	99.5
11/03	1440	JTK	Solids, % Total	89.864 %		SM 1997 2540 G	0.00	N/A
11/01	2244	JFT	Lead	11.877 mg/Kg		SW-846 6020A	0.90	98.2
11/01	2020	JFT	Cation Exchange Capacity	109.6170 meq		EPA 9081		
11/01	2020	JFT	Sodium Absorption Ratio	1.5904 Ratio		AGRN 724		

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

CHAIN OF CUSTODY

Client Information						Project Information				Requested Parameters									
Client:		Clinton, City of (East Land App)				Permit/Project #:				Metals (See Comments)	Soil pH (23.1), Phosphorus (01.9)	Elec. Cond(35.R), NO3 (01.3)	NO2 (01.4), % Solids (82)						
Address:		P.O. Box 277				Purchase Order #:													
		Clinton, AR 72031				Work Order #:													
Phone:		501-745-4320				Sampler Name(s):		J. Knorr											
Fax:		501-745-2164				and Signature(s):		[Signature]											
Contact:		Mr. Phil Graham				ESC Client Number:		3004											
Sample Identification		Sample Collection				Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
40.24 LA PB3	2210010315	10/24/22	0940	Grab	Soil	Glass	1 Liter	8 oz	1	X	X	X	X						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No								
All samples cooled to ≤ 6 deg C with ice.								Flow Data	Field Test	Time	Analyst	Result	Result	Units					
Comments: Mg (12.IS), K (19.IS), Ni(28.IS), Cu(29.IS), Zn(30.IS), Mo (43.HS)						Analyst:													
As(33.IS), Cd(48.IS), Pb(82.IS), Hg(01.14), Al (13.HS), Se (34.HS)						Time:													
Fe (26.HS), Ca (20.HS), Na (22.HS), SAR (99.L), CEC/100 (99.F)						Reading:													
00.MS, ...HS						Units:													
						Chlorinated? Y N		Fecal Start:								This Document is Page 1 of 1			

DMP

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Control Number: 2210010316	Sample Date : 10/24/22	Collected By: JGK
Customer Name : CLINTON, EAST 40.24 LA PB 30	Sample Time : 0930	Delivery By : JGK
Customer Number : 3003	Sample Type : GRAB SOIL	Work Order :
Report Date : 11/10/22	Sample From : 40.24 LA PB30	Purchase Order :

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
						Method		
11/07	0900	NTR	Mercury	< 0.1050 mg/Kg		SW846 7474 02/07	4.27	108.5 *
11/08	1630	ACL	Nitrate Nitrogen	8.170 mg/kg		SM 2000 4500-NO3 E	1.27	109.0 *
11/09	1310	ACL	Nitrite Nitrogen	1.500 mg/kg		EPA 354.1	0.00	91.0 *
11/08	1600	ACL	Phosphorous, Total (as P)	16.4400 mg/kg		EPA 365.3	0.91	100.0
11/01	2020	JFT	Sodium	73.00 mg/Kg		SW-846 6020A	0.82	88.6 *
11/01	2020	JFT	Aluminum, total	5398.96 mg/Kg		SW-846 6020A	1.23	91.9 *
11/01	2020	JFT	Potassium	462.98 mg/Kg		SW-846 6020A	2.85	91.3 *
11/01	2244	JFT	Calcium	2626.75 mg/Kg		SW-846 6020A	28.32	94.3 *
10/31	1045	DWC	pH Soil	6.10 S.U.		SW846 9045C	0.00	N/A *
11/01	2244	JFT	Iron	12808.50 mg/KG		SW-846 6020A	1.73	101.2 *
11/01	2020	JFT	Nickel	12.390 mg/Kg		SW-846 6020A	0.25	93.2 *
11/01	2244	JFT	Copper	4.952 mg/Kg		SW-846 6020A	0.48	97.5 *
11/01	2020	JFT	Zinc	36.979 mg/Kg		SW-846 6020A	0.56	99.0 *
11/01	2244	JFT	Arsenic	5.691 mg/Kg		SW-846 6020A	0.93	100.5 *
11/09	1519	ACL	Electric Conductivity	4.60 umho/c		EPA 9050A(MOD)	2.35	89.0 *
11/01	2244	JFT	Molybdenum	< 0.107 mg/Kg		SW-846 6020A	0.16	97.7 *
11/01	2244	JFT	Cadmium	< 0.107 mg/Kg		SW-846 6020A	0.34	99.5 *
11/03	1440	JTK	Solids, % Total	92.194 %		SM 1997 2540 G	0.00	N/A *
11/01	2244	JFT	Lead	10.985 mg/Kg		SW-846 6020A	0.90	98.2 *
11/01	2101	JFT	Cation Exchange Capacity	163.2604 meq		EPA 9081		
11/01	2101	JFT	Sodium Absorption Ratio	1.0817 Ratio		AGRN 724		

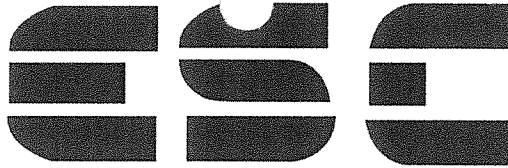
* QA data shown is from a different sample or standard on the same date.

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Signature _____

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 Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters						
Client:		Clinton, City of (East Land App)				Permit/Project #:					Metals (See Comments)	Soil pH (23.1), Phosphorus (01.9)	Elec. Cond(35.R), NO3 (01.3)	NO2 (01.4), % Solids (82)			
Address:		P.O. Box 277				Purchase Order #:											
		Clinton, AR 72031				Work Order #											
Phone:		501-745-4320				Sampler Name(s):		J. Koenrich									
Fax:		501-745-2164				and Signature(s):		[Signature]									
Contact:		Mr. Phil Graham				ESC Client Number:		3003									
Sample Identification		Sample Collection				Sample Containers											
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#								
40.24 LA PB30	2210010 316	10/24/22	0930	Grab	Soil	Glass	1 Liter	8 oz	1	X	X	X	X				
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special						
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No						
All samples cooled to ≤ 6 deg C with ice.						Flow Data	Field Test	Time	Analyst	Result	Result	Units					
Comments: Mg (12.IS), K (19.IS), Ni(28.IS), Cu(29.IS), Zn(30.IS), Mo (43.HS)						Analyst:											
As(33.IS), Cd(48.IS), Pb(82.IS), Hg(01.14), Al (13.HS), Se (34.HS)						Time:											
Fe (26.HS), Ca (20.HS), Na (22.HS), SAR (99.L), CEC/100 (99.F)						Reading:											
00.MS, .HS						Units:											
						Chlorinated? Y N		Fecal Start.		This Document is Page 1 of 1							

DMP

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Northwest Arkansas Branch
 1107 Century Avenue
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Control Number: 2210010317
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 11/10/22

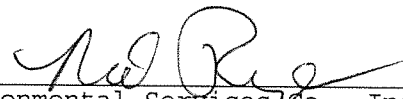
Sample Date : 10/24/22
 Sample Time : 0920
 Sample Type : GRAB SOIL
 Sample From : 55.57 LA PB10

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
Analysis	Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
Mercury	11/07	0900	NTR	Mercury	< 0.1100 mg/Kg			SW846 7474 02/07	4.27	108.5 *
Nitrate Nitrogen	11/08	1630	ACL	Nitrate Nitrogen	9.320 mg/kg			SM 2000 4500-NO3 E	1.27	109.0 *
Nitrite Nitrogen	11/09	1310	ACL	Nitrite Nitrogen	2.190 mg/kg			EPA 354.1	0.00	91.0 *
Phosphorous, Total (as P)	11/08	1600	ACL	Phosphorous, Total (as P)	14.6400 mg/kg			EPA 365.3	0.00	100.0 *
Sodium	11/01	2020	JFT	Sodium	57.51 mg/Kg			SW-846 6020A	0.82	88.6 *
Aluminum, total	11/01	2020	JFT	Aluminum, total	6510.64 mg/Kg			SW-846 6020A	1.23	91.9 *
Potassium	11/01	2020	JFT	Potassium	777.37 mg/Kg			SW-846 6020A	2.85	91.3 *
Calcium	11/01	2244	JFT	Calcium	1675.19 mg/Kg			SW-846 6020A	28.32	94.3 *
pH Soil	10/31	1045	DWC	pH Soil	6.00 S.U.			SW846 9045C	0.00	N/A *
Iron	11/01	2244	JFT	Iron	16657.09 mg/KG			SW-846 6020A	1.73	101.2 *
Nickel	11/01	2020	JFT	Nickel	16.433 mg/Kg			SW-846 6020A	0.25	93.2 *
Copper	11/01	2244	JFT	Copper	7.440 mg/Kg			SW-846 6020A	0.48	97.5 *
Zinc	11/01	2020	JFT	Zinc	59.603 mg/Kg			SW-846 6020A	0.56	99.0 *
Arsenic	11/01	2244	JFT	Arsenic	7.830 mg/Kg			SW-846 6020A	0.93	100.5 *
Electric Conductivity	11/09	1519	ACL	Electric Conductivity	83.00 umho/c			EPA 9050A(MOD)	2.35	89.0 *
Molybdenum	11/01	2244	JFT	Molybdenum	< 0.084 mg/Kg			SW-846 6020A	0.16	97.7 *
Cadmium	11/01	2244	JFT	Cadmium	< 0.084 mg/Kg			SW-846 6020A	0.34	99.5 *
Solids, % Total	11/03	1440	JTK	Solids, % Total	88.906 %			SM 1997 2540 G	0.00	N/A *
Lead	11/01	2244	JFT	Lead	12.366 mg/Kg			SW-846 6020A	0.90	98.2 *
Cation Exchange Capacity	11/01	2114	JFT	Cation Exchange Capacity	204.2414 meq			EPA 9081		
Sodium Absorption Ratio	11/01	2114	JFT	Sodium Absorption Ratio	0.9901 Ratio			AGRN 724		

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Signature 
 Environmental Services Co., Inc.

AEG

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Control Number: 2210010318
 Customer Name : CLINTON, EAST 55.57 LA PB 3
 Customer Number : 3002
 Report Date : 11/10/22

Sample Date : 10/24/22
 Sample Time : 0900
 Sample Type : GRAB SOIL
 Sample From : 55.57 LA PB3

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

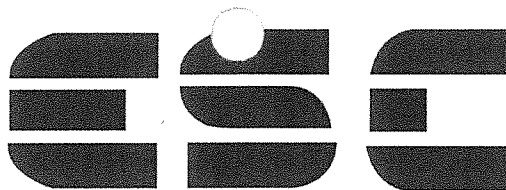
Analysis		Laboratory Analysis					Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
11/07	0900	NTR	Mercury	< 0.1070 mg/Kg			SW846 7474 02/07	4.27	108.5 *
11/08	1630	ACL	Nitrate Nitrogen	10.730 mg/kg			SM 2000 4500-NO3 E	1.01	109.0 *
11/09	1310	ACL	Nitrite Nitrogen	0.687 mg/kg			EPA 354.1	1.79	91.0 *
11/08	1600	ACL	Phosphorous, Total (as P)	28.9700 mg/kg			EPA 365.3	0.00	100.0 *
11/01	2020	JFT	Sodium	102.22 mg/Kg			SW-846 6020A	0.82	88.6 *
11/01	2020	JFT	Aluminum, total	7743.47 mg/Kg			SW-846 6020A	1.23	91.9 *
11/01	2020	JFT	Potassium	666.20 mg/Kg			SW-846 6020A	2.85	91.3 *
11/01	2244	JFT	Calcium	1029.05 mg/Kg			SW-846 6020A	28.32	94.3 *
10/31	1045	DWC	pH Soil	5.90 S.U.			SW846 9045C	0.00	N/A *
11/01	2244	JFT	Iron	17905.39 mg/KG			SW-846 6020A	1.73	101.2 *
11/01	2020	JFT	Nickel	19.132 mg/Kg			SW-846 6020A	0.25	93.2 *
11/01	2244	JFT	Copper	8.545 mg/Kg			SW-846 6020A	0.48	97.5 *
11/01	2020	JFT	Zinc	74.592 mg/Kg			SW-846 6020A	0.56	99.0 *
11/01	2244	JFT	Arsenic	8.184 mg/Kg			SW-846 6020A	1.00	100.5 *
11/09	1519	ACL	Electric Conductivity	52.40 umho/c			EPA 9050A(MOD)	2.35	89.0 *
11/01	2244	JFT	Molybdenum	< 0.112 mg/Kg			SW-846 6020A	0.16	97.7 *
11/01	2244	JFT	Cadmium	< 0.112 mg/Kg			SW-846 6020A	0.54	99.4 *
11/03	1440	JTK	Solids, % Total	87.958 %			SM 1997 2540 G	0.00	N/A *
11/01	2244	JFT	Lead	12.666 mg/Kg			SW-846 6020A	1.61	98.1 *
11/01	2128	JFT	Cation Exchange Capacity	127.0622 meq			EPA 9081		
11/01	2128	JFT	Sodium Absorption Ratio	1.6862 Ratio			AGRN 724		

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CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters								
Client:		Clinton, City of (East Land App)				Permit/Project #:					Metals (See Comments)	Soil pH (23.1), Phosphorus (01.9)	Elec. Cond(35.R), NO3 (01.3)	NO2 (01.4), % Solids (82)					
Address:		P.O. Box 277				Purchase Order #:													
		Clinton, AR 72031				Work Order #													
Phone:		501-745-4320				Sampler Name(s):		J. Kuenrich, Jol											
Fax:		501-745-2164				and Signature(s):		[Signature]											
Contact:		Mr. Phil Graham				ESC Client Number:		3002											
Sample Identification		Sample Collection				Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
55.57 LA PB3	210010378	10/24/22	0900	Grab	Soil	Glass	1 Liter	8 oz	1	X	X	X	X						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No								
All samples cooled to ≤ 6 deg C with ice.										Flow Data	Field Test	Time	Analyst	Result	Result	Units			
Comments: Mg (12.IS), K (19.IS), Ni(28.IS), Cu(29.IS), Zn(30.IS), Mo (43.HS)						Analyst:													
As(33.IS), Cd(48.IS), Pb(82.IS), Hg(01.14), Al (13.HS), Se (34.HS)						Time:													
Fe (26.HS), Ca (20.HS), Na (22.HS), SAR (99.L), CEC/100 (99.F)						Reading:													
00.MS, .HS						Units:													
						Chlorinated? Y N		Fecal Start:											
														This Document is Page 1 of 1					

Environmental Services Company, Inc.

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Control Number: 2210010319	Sample Date : 10/24/22	Collected By: JGK
Customer Name : CLINTON, EAST 55.57 LA PB 30	Sample Time : 0910	Delivery By : JGK
Customer Number : 3001	Sample Type : GRAB SOIL	Work Order :
Report Date : 11/10/22	Sample From : 55.57 LA PB30	Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Analysis							Precision	Accuracy	
Date	Time	By	Parameter	Result	Notes	Quantity	Method	% RPD	% Recovery
11/07	0900	NTR	Mercury	< 0.1220 mg/Kg			SW846 7474 02/07	4.27	108.5 *
11/08	1630	ACL	Nitrate Nitrogen	0.997 mg/kg			SM 2000 4500-NO3 E	1.27	109.0 *
11/09	1310	ACL	Nitrite Nitrogen	12.490 mg/kg			EPA 354.1	0.00	91.0 *
11/08	1600	ACL	Phosphorous, Total (as P)	6.3800 mg/kg			EPA 365.3	0.00	100.0 *
11/01	2020	JFT	Sodium	80.31 mg/Kg			SW-846 6020A	0.82	88.6 *
11/01	2020	JFT	Aluminum, total	8294.46 mg/Kg			SW-846 6020A	1.23	91.9 *
11/01	2020	JFT	Potassium	738.94 mg/Kg			SW-846 6020A	2.85	91.3 *
11/01	2244	JFT	Calcium	1259.85 mg/Kg			SW-846 6020A	28.32	94.3 *
10/31	1045	DWC	pH Soil	6.40 S.U.			SW846 9045C	0.00	N/A *
11/01	2244	JFT	Iron	20662.47 mg/KG			SW-846 6020A	1.73	101.2 *
11/01	2020	JFT	Nickel	21.986 mg/Kg			SW-846 6020A	0.25	93.2 *
11/01	2244	JFT	Copper	8.221 mg/Kg			SW-846 6020A	0.48	97.5 *
11/01	2020	JFT	Zinc	62.210 mg/Kg			SW-846 6020A	0.56	99.0 *
11/01	2244	JFT	Arsenic	9.457 mg/Kg			SW-846 6020A	1.00	100.5 *
11/09	1519	ACL	Electric Conductivity	16.00 umho/c			EPA 9050A(MOD)	2.35	89.0 *
11/01	2244	JFT	Molybdenum	< 0.105 mg/Kg			SW-846 6020A	0.16	97.7 *
11/01	2244	JFT	Cadmium	< 0.105 mg/Kg			SW-846 6020A	0.54	99.4 *
11/03	1440	JTK	Solids, % Total	84.290 %			SM 1997 2540 G	0.00	N/A *
11/01	2244	JFT	Lead	14.079 mg/Kg			SW-846 6020A	1.61	98.1 *
11/01	2141	JFT	Cation Exchange Capacity	155.7889 meq			EPA 9081		
11/01	2141	JFT	Sodium Absorption Ratio	1.2673 Ratio			AGRN 724		

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Control Number: 2203010597
 Customer Name : CLINTON, EAST 40.24 LA PB 3
 Customer Number : 3004
 Report Date : 04/13/22

Sample Date : 03/28/22
 Sample Time : 1245
 Sample Type : GRAB/SOIL
 Sample From : EAST LA 40.24 PB3

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
04/05	1200	AAC	Ammonia Nitrogen	0.0460 mg/kg		SM 1997 4500-NH3 C	0.00	103.0
04/04	1200	AAC	Mercury	< 0.1130 mg/Kg		SW846 7474 02/07	1.75	95.0 *
04/06	1215	AAC	Kjeldahl Nitrogen Total	1.20 mg/kg		SM 1997 4500-NorgB	17.52	112.0
04/04	1520	ACL	Nitrate Nitrogen	12.706 mg/kg		SM 2000 4500-NO3 E	0.00	100.0
04/04	1105	ACL	Phosphorous, Total (as P)	9.4300 mg/kg		EPA 365.3	0.00	100.0
04/04	1605	NTR	Magnesium	963.58 mg/Kg		SW-846 6020A	3.66	93.4 *
04/04	1605	NTR	Potassium	1226.24 mg/Kg		SW-846 6020A	1.79	95.1 *
04/01	1535	ACL	pH Soil	5.80 S.U.		SW846 9045C	0.00	100.0 *
04/04	1605	NTR	Nickel	16.471 mg/Kg		SW-846 6020A	1.59	92.0 *
04/04	1605	NTR	Copper	7.135 mg/Kg		SW-846 6020A	0.32	90.5 *
04/04	1605	NTR	Zinc	105.189 mg/Kg		SW-846 6020A	6.49	96.5 *
04/12	1356	AAC	Nitrogen, Plant Available	17.29 mg/kg		SM1997 4500 N	0.00	100.0
04/04	1605	NTR	Arsenic	6.883 mg/Kg		SW-846 6020A	0.14	91.4 *
04/01	1535	ACL	Specific Conductance	13.7900 umhos		EPA (MOD)9050A	0.11	102.0 *
04/04	1605	NTR	Cadmium	< 0.122 mg/Kg		SW-846 6020A	2.42	87.0 *
04/04	1020	AAC	Solids, % Total	75.500 %		SM 1997 2540 G	1.32	N/A
04/04	1605	NTR	Lead	36.060 mg/Kg		SW-846 6020A	1.95	94.4 *

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Control Number: 2203010598
 Customer Name : CLINTON, EAST 40.24 LA PB 30
 Customer Number : 3003
 Report Date : 04/13/22

Sample Date : 03/28/22
 Sample Time : 1250
 Sample Type : GRAB/SOIL
 Sample From : EAST LA 40.24 PB 30

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
04/05	1200	AAC	Ammonia Nitrogen	< 0.0100 mg/kg		SM 1997 4500-NH3 C	0.00	103.0 *
04/04	1200	AAC	Mercury	< 0.1200 mg/Kg		SW846 7474 02/07	1.75	95.0 *
04/06	1215	AAC	Kjeldahl Nitrogen Total	2.43 mg/kg		SM 1997 4500-NorgB	17.52	112.0 *
04/04	1520	ACL	Nitrate Nitrogen	7.498 mg/kg		SM 2000 4500-NO3 E	0.00	100.0 *
04/04	1105	ACL	Phosphorous, Total (as P)	14.1890 mg/kg		EPA 365.3	0.00	100.0 *
04/04	1605	NTR	Magnesium	553.86 mg/Kg		SW-846 6020A	3.66	93.4 *
04/04	1605	NTR	Potassium	831.53 mg/Kg		SW-846 6020A	1.79	95.1 *
04/01	1535	ACL	pH Soil	6.00 S.U.		SW846 9045C	0.00	100.0 *
04/04	1605	NTR	Nickel	10.453 mg/Kg		SW-846 6020A	1.59	92.0 *
04/04	1605	NTR	Copper	3.818 mg/Kg		SW-846 6020A	0.32	90.5 *
04/04	1605	NTR	Zinc	48.330 mg/Kg		SW-846 6020A	6.49	96.5 *
04/12	1356	AAC	Nitrogen, Plant Available	7.50 mg/kg		SM1997 4500 N	0.00	100.0 *
04/04	1605	NTR	Arsenic	3.284 mg/Kg		SW-846 6020A	0.14	91.4 *
04/01	1535	ACL	Specific Conductance	13.3600 umhos		EPA (MOD)9050A	0.11	102.0 *
04/04	1605	NTR	Cadmium	< 0.085 mg/Kg		SW-846 6020A	2.42	87.0 *
04/04	1020	AAC	Solids, % Total	76.000 %		SM 1997 2540 G	1.32	N/A *
04/04	1605	NTR	Lead	22.786 mg/Kg		SW-846 6020A	1.95	94.4 *

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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: 2203010599
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 04/19/22

Sample Date : 03/28/22
 Sample Time : 1255
 Sample Type : GRAB/SOIL
 Sample From : EAST LA 55.57 PB10

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

Laboratory Analysis

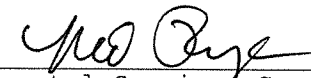
Quality Assurance

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
04/05	1200	AAC	Ammonia Nitrogen	0.0100 mg/kg			SM 1997 4500-NH3 C	0.00	103.0 *
04/04	1200	AAC	Mercury	< 0.0960 mg/Kg			SW846 7474 02/07	1.75	95.0 *
04/06	1215	AAC	Kjeldahl Nitrogen Total	4.25 mg/kg			SM 1997 4500-NorgB	17.52	112.0 *
04/04	1520	ACL	Nitrate Nitrogen	11.465 mg/kg			SM 2000 4500-NO3 E	0.00	100.0 *
04/04	1105	ACL	Phosphorous, Total (as P)	5.2510 mg/kg			EPA 365.3	0.00	100.0 *
04/04	1605	NTR	Magnesium	350.77 mg/Kg			SW-846 6020A	3.66	93.4 *
04/04	1605	NTR	Potassium	415.64 mg/Kg			SW-846 6020A	1.79	95.1 *
04/01	1535	ACL	pH Soil	5.80 S.U.			SW846 9045C	0.00	100.0 *
04/04	1605	NTR	Nickel	5.554 mg/Kg			SW-846 6020A	1.59	92.0 *
04/04	1605	NTR	Copper	3.277 mg/Kg			SW-846 6020A	0.32	90.5 *
04/04	1605	NTR	Zinc	50.632 mg/Kg			SW-846 6020A	6.49	96.5 *
04/12	0900	AAC	Nitrogen, Plant Available	13.44 mg/kg			SM1997 4500 N	0.00	100.0 *
04/04	1605	NTR	Arsenic	1.541 mg/Kg			SW-846 6020A	0.14	91.4 *
04/01	1535	ACL	Specific Conductance	66.7000 umhos			EPA (MOD) 9050A	0.11	102.0 *
04/04	1605	NTR	Cadmium	< 0.088 mg/Kg			SW-846 6020A	2.42	87.0 *
04/04	1020	AAC	Solids, % Total	93.000 %			SM 1997 2540 G	1.32	N/A *
04/04	1605	NTR	Lead	21.342 mg/Kg			SW-846 6020A	1.95	94.4 *

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Control Number: 2203010600
Customer Name : CLINTON, EAST 55.57 LA PB 3
Customer Number : 3002
Report Date : 04/13/22

Sample Date : 03/28/22
Sample Time : 1300
Sample Type : GRAB/SOIL
Sample From : EAST LA 55.57 PB3

Collected By: CPS
Delivery By : CPS
Work Order :
Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Analysis							Precision	Accuracy	
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>% RPD</u>	<u>% Recovery</u>
04/05	1200	AAC	Ammonia Nitrogen	0.0800 mg/kg			SM 1997 4500-NH3 C	0.00	103.0 *
04/04	1200	AAC	Mercury	< 0.1050 mg/Kg			SW846 7474 02/07	1.75	95.0 *
04/06	1215	AAC	Kjeldahl Nitrogen Total	7.79 mg/kg			SM 1997 4500-NorgB	17.52	112.0 *
04/04	1520	ACL	Nitrate Nitrogen	22.019 mg/kg			SM 2000 4500-NO3 E	0.00	100.0 *
04/04	1105	ACL	Phosphorous, Total (as P)	5.8580 mg/kg			EPA 365.3	0.00	100.0 *
04/04	1605	NTR	Magnesium	447.17 mg/Kg			SW-846 6020A	3.66	93.4 *
04/04	1605	NTR	Potassium	529.17 mg/Kg			SW-846 6020A	1.79	95.1 *
04/01	1535	ACL	pH Soil	6.00 S.U.			SW846 9045C	0.00	100.0 *
04/04	1605	NTR	Nickel	7.081 mg/Kg			SW-846 6020A	1.59	92.0 *
04/04	1605	NTR	Copper	4.178 mg/Kg			SW-846 6020A	0.32	90.5 *
04/04	1605	NTR	Zinc	35.267 mg/Kg			SW-846 6020A	6.49	96.5 *
04/12	1356	AAC	Nitrogen, Plant Available	13.44 mg/kg			SM1997 4500 N	0.00	100.0 *
04/04	1605	NTR	Arsenic	1.955 mg/Kg			SW-846 6020A	0.14	91.4 *
04/01	1535	ACL	Specific Conductance	21.3000 umhos			EPA (MOD)9050A	0.11	102.0 *
04/04	1605	NTR	Cadmium	< 0.112 mg/Kg			SW-846 6020A	2.42	87.0 *
04/04	1020	AAC	Solids, % Total	89.000 %			SM 1997 2540 G	1.32	N/A *
04/04	1605	NTR	Lead	27.208 mg/Kg			SW-846 6020A	1.95	94.4 *

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Control Number: 2203010601
 Customer Name : CLINTON, EAST 55.57 LA PB 30
 Customer Number : 3001
 Report Date : 04/13/22

Sample Date : 03/28/22
 Sample Time : 1305
 Sample Type : GRAB/SOIL
 Sample From : EAST LA 55.57 PB30

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Analysis</u>							<u>Precision</u>	<u>Accuracy</u>	
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>% RPD</u>	<u>% Recovery</u>
04/05	1200	AAC	Ammonia Nitrogen	0.0600 mg/kg			SM 1997 4500-NH3 C	0.00	103.0 *
04/04	1200	AAC	Mercury	< 0.1120 mg/Kg			SW846 7474 02/07	1.75	95.0 *
04/06	1215	AAC	Kjeldahl Nitrogen Total	11.26 mg/kg			SM 1997 4500-NorgB	17.52	112.0 *
04/04	1520	ACL	Nitrate Nitrogen	44.429 mg/kg			SM 2000 4500-NO3 E	0.00	100.0 *
04/04	1105	ACL	Phosphorous, Total (as P)	4.3510 mg/kg			EPA 365.3	0.00	100.0 *
04/04	1605	NTR	Magnesium	636.05 mg/Kg			SW-846 6020A	3.66	93.4 *
04/04	1605	NTR	Potassium	696.35 mg/Kg			SW-846 6020A	1.79	95.1 *
04/01	1535	ACL	pH Soil	5.80 S.U.			SW846 9045C	0.00	100.0 *
04/04	1605	NTR	Nickel	12.451 mg/Kg			SW-846 6020A	1.59	92.0 *
04/04	1605	NTR	Copper	5.062 mg/Kg			SW-846 6020A	0.32	90.5 *
04/04	1605	NTR	Zinc	42.389 mg/Kg			SW-846 6020A	6.49	96.5 *
04/12	1356	AAC	Nitrogen, Plant Available	48.65 mg/kg			SM1997 4500 N	0.00	100.0 *
04/04	1605	NTR	Arsenic	4.361 mg/Kg			SW-846 6020A	0.14	91.4 *
04/01	1535	ACL	Specific Conductance	50.3000 umhos			EPA (MOD)9050A	0.11	102.0 *
04/04	1605	NTR	Cadmium	< 0.083 mg/Kg			SW-846 6020A	2.42	87.0 *
04/04	1020	AAC	Solids, % Total	85.000 %			SM 1997 2540 G	1.32	N/A *
04/04	1605	NTR	Lead	24.150 mg/Kg			SW-846 6020A	1.95	94.4 *

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Control Number: 2203010602
 Customer Name : CLINTON, EAST LA AIRPORT9
 Customer Number : 2959
 Report Date : 04/13/22

Sample Date : 03/28/22
 Sample Time : 1310
 Sample Type : GRAB/SOIL
 Sample From : EAST LA AIRPORT 9

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
04/05	1200	AAC	Ammonia Nitrogen	0.0100 mg/kg			SM 1997 4500-NH3 C	0.00	103.0 *
04/04	1200	AAC	Mercury	< 0.1230 mg/Kg			SW846 7474 02/07	1.75	95.0 *
04/06	1215	AAC	Kjeldahl Nitrogen Total	7.88 mg/kg			SM 1997 4500-NorgB	17.52	112.0 *
04/04	1520	ACL	Nitrate Nitrogen	14.892 mg/kg			SM 2000 4500-NO3 E	0.00	100.0 *
04/04	1105	ACL	Phosphorous, Total (as P)	6.9270 mg/kg			EPA 365.3	0.00	100.0 *
04/04	1605	NTR	Magnesium	783.16 mg/Kg			SW-846 6020A	3.66	93.4 *
04/04	1605	NTR	Potassium	1544.97 mg/Kg			SW-846 6020A	1.79	95.1 *
04/01	1535	ACL	pH Soil	6.00 S.U.			SW846 9045C	0.00	100.0
04/04	1605	NTR	Nickel	16.500 mg/Kg			SW-846 6020A	1.59	92.0 *
04/04	1605	NTR	Copper	6.901 mg/Kg			SW-846 6020A	0.32	90.5 *
04/04	1605	NTR	Zinc	74.721 mg/Kg			SW-846 6020A	6.49	96.5 *
04/12	1356	AAC	Nitrogen, Plant Available	19.23 mg/kg			SM1997 4500 N	0.00	100.0 *
04/04	1605	NTR	Arsenic	6.536 mg/Kg			SW-846 6020A	0.14	91.4 *
04/01	1535	ACL	Specific Conductance	10.9300 umhos			EPA (MOD)9050A	0.11	102.0 *
04/04	1605	NTR	Cadmium	< 0.091 mg/Kg			SW-846 6020A	2.42	87.0 *
04/04	1020	AAC	Solids, % Total	81.000 %			SM 1997 2540 G	1.32	N/A *
04/04	1605	NTR	Lead	29.210 mg/Kg			SW-846 6020A	1.95	94.4 *

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Control Number: 2203010603
 Customer Name : CLINTON, EAST LA WD13
 Customer Number : 2960
 Report Date : 04/13/22

Sample Date : 03/28/22
 Sample Time : 1315
 Sample Type : GRAB/SOIL
 Sample From : EAST LA WD13

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
04/05	1200	AAC	Ammonia Nitrogen	0.0100 mg/kg		SM 1997 4500-NH3 C	0.00	103.0 *
04/04	1200	AAC	Mercury	< 0.1100 mg/Kg		SW846 7474 02/07	1.75	95.0 *
04/06	1215	AAC	Kjeldahl Nitrogen Total	20.40 mg/kg		SM 1997 4500-NorgB	17.52	112.0 *
04/04	1520	ACL	Nitrate Nitrogen	10.817 mg/kg		SM 2000 4500-NO3 E	0.00	100.0 *
04/04	1105	ACL	Phosphorous, Total (as P)	6.1990 mg/kg		EPA 365.3	0.00	100.0 *
04/04	1605	NTR	Magnesium	811.47 mg/Kg		SW-846 6020A	1.38	93.4
04/04	1605	NTR	Potassium	1620.58 mg/Kg		SW-846 6020A	1.20	72.5
04/01	1535	ACL	pH Soil	6.00 S.U.		SW846 9045C	0.00	100.0 *
04/04	1605	NTR	Nickel	19.192 mg/Kg		SW-846 6020A	1.59	92.0 *
04/04	1605	NTR	Copper	12.606 mg/Kg		SW-846 6020A	0.32	90.5 *
04/04	1605	NTR	Zinc	60.818 mg/Kg		SW-846 6020A	7.18	96.5
04/12	1356	AAC	Nitrogen, Plant Available	18.41 mg/kg		SM1997 4500 N	0.00	100.0 *
04/04	1605	NTR	Arsenic	6.512 mg/Kg		SW-846 6020A	0.14	91.4 *
04/01	1535	ACL	Specific Conductance	8.9500 umhos		EPA (MOD)9050A	0.11	102.0 *
04/04	1605	NTR	Cadmium	< 0.092 mg/Kg		SW-846 6020A	2.42	87.0 *
04/04	1020	AAC	Solids, % Total	78.000 %		SM 1997 2540 G	1.32	N/A *
04/04	1605	NTR	Lead	32.104 mg/Kg		SW-846 6020A	1.95	94.4 *

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 website: www.esclabs.com



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Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters												
Client:		Clinton, City of (East Land App)				Permit/Project #:					Metals (See Comments)	Nitrate Nitrogen(01.3), Phos(01.9)	Soil pH(23.S), Spec Cond(35.M)	Ammonia(01.1), PAN(33.AN)									
Address:		P.O. Box 277				Purchase Order #:																	
		Clinton, AR 72031				Work Order #:																	
Phone:		501-745-4320				Sampler Name(s):																	
Fax:		Mr. Phil Graham				Parker Scoggins																	
Contact:		501-745-2164				and Signature(s):																	
ESC Client Number:		Various				Parker Scoggins																	
Sample Identification			Sample Collection			Sample Containers																	
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#														
East LA 40.24 PB3 (3004)	2203010597	3-28-22	1245	Grab	Soil	Glass	8 oz	Cool ≤ 6° C	1	X	X	X	X										
East LA 40.24 PB30 (3003)	2203010598	3-29-22	1250	Grab	Soil	Glass	8 oz	Cool ≤ 6° C	1	X	X	X	X										
East LA 55.57 PB10 (511)	2203010599	3-29-22	1255	Grab	Soil	Glass	8 oz	Cool ≤ 6° C	1	X	X	X	X										
East LA 55.57 PB3 (3002)	2203010600	3-28-22	0100	Grab	Soil	Glass	8 oz	Cool ≤ 6° C	1	X	X	X	X										
East LA 55.57 PB30 (3001)	2203010601	3-28-22	0105	Grab	Soil	Glass	8 oz	Cool ≤ 6° C	1	X	X	X	X										
East LA Airport9 (2959)	2203010602	3-28-22	0110	Grab	Soil	Glass	8 oz	Cool ≤ 6° C	1	X	X	X	X										
East LA WD13 (2960)	2203010603	3-28-22	0115	Grab	Soil	Glass	8 oz	Cool ≤ 6° C	1	X	X	X	X										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:															
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Used? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>													
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>											
Parker Scoggins Parker Scoggins		3-28-22	1530	ASTRENA CLARKE		3/28/22	1530	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>											
Comments:						Flow Data	Field Test	Time	Analyst	Result	Result	Units											
Hg(01.14), Mn(12.HS), K(19.HS), Ni(28.HS), Cu(29.HS), Zn(30.HS)						Analyst:																	
As(33.HS), Cd(48.HS), Pb(82.HS), 00.MS						Time:																	
						Reading:																	
						Units:																	
													This Document is Page 1 of 1										

LRB

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Control Number: 2207010288
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 07/29/22

Sample Date : 07/25/22
 Sample Time : 1100
 Sample Type : GRAB/WATER
 Sample From : WELL #13

Collected By: JTH
 Delivery By : JTH
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>						<u>Quality Assurance</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/28	1550	ACL	Chloride (as Cl)	19.9 mg/L			SM 2011 4500 Cl C	0.00	90.0
07/25	1102	JTH	pH	6.1 S.U.			SM 2011 4500-H+B	1.65	N/A *
07/26	1450	AAC	Solids, Total Dissolved	126.0 mg/L			SM 2011 2540 C	4.03	N/A *
07/25	1530	JTH	Spec. Conductance @ 25 C	152.500 umho/c			EPA 120.1	0.13	N/A *
07/27	1305	ACL	Nitrate + Nitrite	0.45 mg/L			HACH 10206	11.54	114.0
07/25	1102	JTH	Well Depth, Total	15.60 Feet				N/A	N/A
07/25	1102	JTH	Depth to Water	10.40 Feet				N/A	N/A

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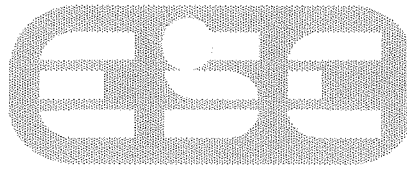
Signature



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



Environmental Services Company, Inc.
 Northwest Branch
 1107 Century
 Springdale, AR 72764

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

CHAIN OF CUSTODY

Phone 479-750-1170 Fax 479-750-1172

Client Information				Project Information						Requested Parameters										
Company Name: Clinton, East GW13				Permit/Project #: AR0048836						TDS(27), Chloride(7), NO2 +NO3(91)										
Address: P.O. Box 277				Purchase Order #:																
Clinton, AR 72031				Work Order #:																
Telephone: 501-745-4320				Sampler Name(s): James Holden																
Contact: Mr. Phil Graham				and Signature(s): James Holden																
FAX: 501-745-2164																				
ESC Client Number: 507																				
Sample Identification		Sample Collection				Sample Containers														
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Well #13	2207010 258	7/25/02	1100	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X										
	↓	↓		Grab	Water	Plastic	1 Liter	H2SO4	1	X										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:												
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>												
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>												
James Holden / James Holden		7/25/02	1550	John Telford		7/25/02	1550	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		Time	Analyst	Result	Result	Units								
Comments: Conductivity				Analyst:		pH:		1100	JTH	6.15	6.16	SM								
				Time:		Sp Cond:		1520	↓	152.5	152.3	115								
				Reading:																
				Units:																
Total Depth-99.10:		151.411																		
H2O Depth - 99.9:		10.4 FT																		
				Chlorinated? Y N		Fecal Start:				This Document is Page 1 of 1										

RecB

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: 2207010289
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 07/29/22

Sample Date : 07/25/22
 Sample Time : 1030
 Sample Type : GRAB/WATER
 Sample From : WELL#14

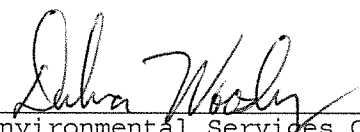
Collected By: JTH
 Delivery By : JTH
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/28	1550	ACL	Chloride (as Cl)	19.9 mg/L			SM 2011 4500 Cl C	0.00	90.0 *
07/25	1035	JTH	pH	5.6 S.U.			SM 2011 4500-H+B	1.65	N/A *
07/26	1450	AAC	Solids, Total Dissolved	62.0 mg/L			SM 2011 2540 C	4.03	N/A *
07/25	1530	JTH	Spec. Conductance @ 25 C	76.800 umho/c			EPA 120.1	0.13	N/A
07/27	1305	ACL	Nitrate + Nitrite	0.25 mg/L			HACH 10206	11.54	114.0 *
07/25	1035	JTH	Well Depth, Total	12.90 Feet				N/A	N/A
07/25	1035	JTH	Depth to Water	10.30 Feet				N/A	N/A

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

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Signature 
 Environmental Services Co., Inc.

WJ

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

Control Number: 2207010290
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 07/27/22

Sample Date : 07/25/22
 Sample Time :
 Sample Type : DRY WELL
 Sample From :

Collected By:
 Delivery By :
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Result	Notes	Quantity	Method
Date	Time	By	Parameter			
07/25	1130	JTH	Dry Well		0.00	

<u>Quality Assurance</u>	
Precision	Accuracy
% RPD	% Recovery
N/A	N/A

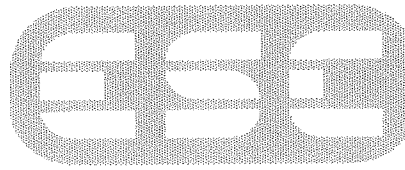
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Signature 
 Environmental Services Co. Inc.

RL

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Environmental Services Company, Inc.
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CHAIN OF CUSTODY

Phone 479-750-1170 Fax 479-750-1172

Client Information				Project Information						Requested Parameters						
Company Name:		Clinton, East GW16		Permit/Project #:		AR0048836				TDS(27-), Chloride(7-) NO2 + NO3(91-)						
Address:		P.O. Box 277		Purchase Order #:												
		Clinton, AR 72031		Work Order #:												
Telephone:		501-745-4320		Sampler Name(s):		James Holder										
Contact:		Mr. Todd Burgess		and Signature(s):		James Holder										
FAX:		501-745-2164														
ESC Client Number:		509														
Sample Identification			Sample Collection			Sample Containers										
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#							
Well #16	1007010290			Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X						
				Grab	Water	Plastic	302 274 7 liter	H2SO4	1		X					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used? <input type="checkbox"/>		Intact? <input type="checkbox"/>				
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular <input 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:		Yes <input type="checkbox"/>		No <input type="checkbox"/>				
Cool all samples to ≤ 6 degrees C with ice.																
Comments:				Flow Data	Field Test	Time	Analyst	Result	Result	Units						
Day Well				Analyst:	pH:											
				Time:	Sp Cond:											
				Reading:												
				Units:												
Total Depth-99.10:				Chlorinated? Y N		Fecal Start:				This Document is Page 1 of 2						
H2O Depth - 99.9:																

P. 1 of 1

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Control Number: 2207010291
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 08/02/22

Sample Date : 07/25/22
 Sample Time : 0958
 Sample Type : GRAB/WATER
 Sample From : WELL #17

Collected By: JTH
 Delivery By : JTH
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/28	1550	ACL	Chloride (as Cl)	9.9 mg/L		SM 2011 4500 Cl C	0.00	90.0 *
07/25	1000	JTH	pH	5.0 S.U.		SM 2011 4500-H+B	1.65	N/A *
08/02	1603	AAC	Solids, Total Dissolved	26.0 mg/L		SM 2011 2540 C	15.38	N/A
07/25	1530	JTH	Spec. Conductance @ 25 C	47.700 umho/c		EPA 120.1	0.13	N/A *
07/27	1305	ACL	Nitrate + Nitrite	5.30 mg/L		HACH 10206	11.54	114.0 *
07/25	1000	JTH	Well Depth, Total	17.70 Feet			N/A	N/A
07/25	1000	JTH	Depth to Water	13.70 Feet			N/A	N/A

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

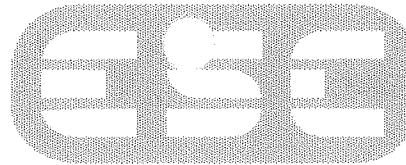
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of 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.

RF

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CHAIN OF CUSTODY

Phone 479-750-1170 Fax 479-750-1172

Client Information				Project Information							Requested Parameters						
Company Name: Clinton, East GW17				Permit/Project #: AR0048747							TDS(27.), Chloride(7.) NO2 + NO3(91.)						
Address: P.O. Box 277				Purchase Order #:													
Clinton, AR 72031				Work Order #:													
Telephone: 501-745-4320				Sampler Name(s): James Holden													
Contact: Mr. Todd Burgess				and Signature(s): James Holden													
FAX: 501-745-2164																	
ESC Client Number: 649																	
Sample Identification		Sample Collection				Sample Containers											
Well #	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#								
Vell # 17	2207010 291	7-25-22	0958	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X							
	I	I	I	Grab	Water	Plastic	502 JFA 4 Liter 7-25-22	H2SO4	1	X							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:								
									Used? <input type="checkbox"/> Intact? <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Turnaround:								
									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:								
James Holden/James Holden		7-25-22	1550	John Te Ford			7/25/22	1550	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
Cool all samples to < 6 degrees C with ice.				Flow Data	Field Test	Time	Analyst	Result	Result	Units							
Comments: Conductivity?				Analyst:	pH:	1060	JFH	5.06	5.07	5.1							
				Time:	Sp Cond:	1230 JFH	I	47.7	47.7	115							
				Reading:													
				Units:													
Total Depth-99.10: 109' 5m 40 / 17.7 FT																	
H2O Depth - 99.9: 109' 4m 15 / 13.7 FT																	
				Chlorinated? Y N	Fecal Start:				This Document is Page 1 / 1								

JFH

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Control Number: 2203010593
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 04/06/22

Sample Date : 03/25/22
 Sample Time :
 Sample Type : DRY WELL
 Sample From :

Collected By:
 Delivery By :
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Parameter	Result	Notes	Quantity	Method
Date	Time	By					
03/25	0930	CPS	Dry Well	0.00			

Quality Assurance	
Precision	Accuracy
% RPD	% Recovery
N/A	N/A

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Signature

Ashley Greene
 Environmental Services Co., Inc.

RW

Environmental Services Company, Inc.

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Control Number: 2203010594
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 04/06/22

Sample Date : 03/25/22
 Sample Time : 0950
 Sample Type : GRAB/WELL WATER
 Sample From : #14 508

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
04/04	1153	ACL	Chloride (as Cl)	19.0 mg/L			SM 2011 4500 Cl C	0.00	96.0 *
03/25	1020	CPS	pH	6.4 S.U.			SM 2011 4500-H+B		
03/31	1510	AAC	Solids, Total Dissolved	266.0 mg/L			SM 2011 2540 C	26.80	N/A *
04/04	1327	ACL	Spec. Conductance @ 25 C	79.700 umho/c			EPA 120.1	0.00	N/A *
03/25	1020	CPS	Temperature	12.60 °C			SM 2000 2550 B	0.00	N/A *
04/04	1520	ACL	Nitrate + Nitrite	0.62 mg/L			HACH 10206	0.00	100.0 *
03/25	1020	CPS	Well Depth, Total	13.10 Feet				N/A	N/A
03/25	1020	CPS	Depth to Water	8.82 Feet				N/A	N/A

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Signature _____

Ashley Greene
 Environmental Services Co., Inc.

AW

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Control Number: 2203010595
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 04/06/22

Sample Date : 03/25/22
 Sample Time : 0940
 Sample Type : GRAB/WELL WATER
 Sample From : #16 509

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
04/04	1153	ACL	Chloride (as Cl)	39.0 mg/L			SM 2011 4500 Cl C	0.00	96.0
03/25	1040	CPS	pH	6.4 S.U.			SM 2011 4500-H+B		
03/31	1510	AAC	Solids, Total Dissolved	84.0 mg/L			SM 2011 2540 C	26.80	N/A *
04/04	1327	ACL	Spec. Conductance @ 25 C	168.100 umho/c			EPA 120.1	0.00	N/A *
03/25	1040	CPS	Temperature	12.60 °C			SM 2000 2550 B	0.00	N/A *
04/04	1520	ACL	Nitrate + Nitrite	2.19 mg/L			HACH 10206	0.00	100.0 *
03/25	1040	CPS	Well Depth, Total	14.00 Feet				N/A	N/A
03/25	1040	CPS	Depth to Water	9.08 Feet				N/A	N/A

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Signature

Ashley Greene
 Environmental Services Co., Inc.

AW

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Northwest Arkansas Branch
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 Springdale, AR 72762
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Control Number: 2203010596
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 04/06/22

Sample Date : 03/25/22
 Sample Time : 0930
 Sample Type : GRAB/WELL WATER
 Sample From : #17 649

Collected By: CPS
 Delivery By : CPS
 Work Order :
 Purchase Order :

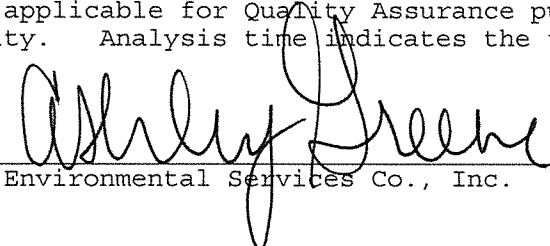
Laboratory Analysis

<u>Analysis</u>						<u>Quality Assurance</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
04/04	1153	ACL	Chloride (as Cl)	19.0 mg/L			SM 2011 4500 Cl C	0.00	96.0 *
03/25	0935	CPS	pH	6.0 S.U.			SM 2011 4500-H+B		
03/31	1510	AAC	Solids, Total Dissolved	76.0 mg/L			SM 2011 2540 C	26.80	N/A *
04/04	1327	ACL	Spec. Conductance @ 25 C	57.200 umho/c			EPA 120.1	0.70	N/A
03/25	0935	CPS	Temperature	11.60 °C			SM 2000 2550 B	0.00	N/A *
04/04	1520	ACL	Nitrate + Nitrite	5.60 mg/L			HACH 10206	0.00	100.0 *
03/25	0935	CPS	Well Depth, Total	17.60 Feet				N/A	N/A
03/25	0935	CPS	Depth to Water	10.66 Feet				N/A	N/A

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Signature


 Environmental Services Co., Inc.

RW

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Control Number: 2206010463
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 07/07/22

Sample Date : 06/30/22
 Sample Time : 1115
 Sample Type : GRAB/WELL WATER
 Sample From : #13 (507)

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/05	1226	ACL	Chloride (as Cl)	24.9 mg/L		SM 2011 4500 Cl C	0.00	97.0
06/30	1115	JGK	pH	5.9 S.U.		SM 2011 4500-H+B	0.00	N/A *
07/05	1022	AAC	Solids, Total Dissolved	68.0 mg/L		SM 2011 2540 C	0.71	N/A *
06/30	1115	JGK	Spec. Conductance @ 25 C	156.000 umho/c		EPA 120.1	0.19	N/A
06/30	1115	JGK	Temperature	22.30 °C		SM 2000 2550 B	1.35	N/A
07/06	1620	ACL	Nitrate + Nitrite	0.60 mg/L		HACH 10206	0.00	100.0 *
06/30	1115	JGK	Well Depth, Total	15.40 Feet			N/A	N/A
06/30	1115	JGK	Depth to Water	9.90 Feet			N/A	N/A

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Signature _____


 Environmental Services Co., Inc.

AS

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: 2206010464
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 07/07/22

Sample Date : 06/30/22
 Sample Time : 1100
 Sample Type : GRAB/WELL WATER
 Sample From : #14 (508)

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/05	1226	ACL	Chloride (as Cl)	24.9 mg/L		SM 2011 4500 Cl C	0.00	97.0 *
06/30	1105	JGK	pH	5.6 S.U.		SM 2011 4500-H+B	0.00	N/A *
07/05	1022	AAC	Solids, Total Dissolved	< 10.0 mg/L		SM 2011 2540 C	0.71	N/A *
06/30	1100	JGK	Spec. Conductance @ 25 C	66.600 umho/c		EPA 120.1	0.19	N/A *
06/30	1105	JGK	Temperature	19.00 °C		SM 2000 2550 B	1.35	N/A *
07/06	1620	ACL	Nitrate + Nitrite	0.64 mg/L		HACH 10206	0.00	100.0 *
06/30	1100	JGK	Well Depth, Total	13.10 Feet			N/A	N/A
06/30	1100	JGK	Depth to Water	9.60 Feet			N/A	N/A

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Signature _____


 Environmental Services Co., Inc.

JA

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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: 2206010465
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 07/05/22

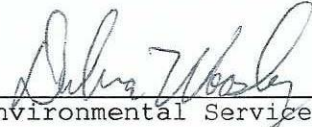
Sample Date : 06/30/22
 Sample Time : 1130
 Sample Type : DRY WELL
 Sample From : #16 (509)

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
06/30	1130	JGK	Dry Well	0.00			N/A	N/A

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Control Number: 2206010466
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 07/07/22

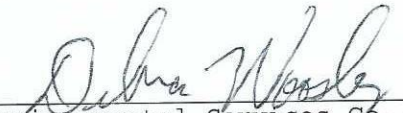
Sample Date : 06/30/22
 Sample Time : 1030
 Sample Type : GRAB/WELL WATER
 Sample From : #17 (649)

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/05	1226	ACL	Chloride (as Cl)	24.9 mg/L		SM 2011 4500 Cl C	0.00	97.0 *
06/30	1035	JGK	pH	5.3 S.U.		SM 2011 4500-H+B	0.00	N/A *
07/05	1022	AAC	Solids, Total Dissolved	< 10.0 mg/L		SM 2011 2540 C	0.71	N/A *
06/30	1030	JGK	Spec. Conductance @ 25 C	45.100 umho/c		EPA 120.1	0.19	N/A *
06/30	1035	JGK	Temperature	18.00 °C		SM 2000 2550 B	1.35	N/A *
07/06	1620	ACL	Nitrate + Nitrite	6.15 mg/L		HACH 10206	0.00	100.0 *
06/30	1030	JGK	Well Depth, Total	17.60 Feet			N/A	N/A
06/30	1030	JGK	Depth to Water	9.11 Feet			N/A	N/A

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DW

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

Control Number: 2210010202
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 10/27/22

Sample Date : 10/17/22
 Sample Time : 1224
 Sample Type : GRAB WATER
 Sample From : WELL #13

Collected By: JTH
 Delivery By : JTH
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
10/20	1141	SLK	Chloride (as Cl)	30.0 mg/L			SM 2011 4500 Cl C	0.00	98.0 *
10/17	1240	JTH	pH	6.3 S.U.			SM 2011 4500-H+B	0.00	N/A *
10/25	1112	RRJ	Solids, Total Dissolved	28.3 mg/L			SM 2011 2540 C	0.00	N/A *
10/17	1240	JTH	Spec. Conductance @ 25 C	255.000 umho/c			EPA 120.1	0.07	N/A *
10/17	1240	JTH	Temperature	18.50 °C			SM 2000 2550 B	1.09	N/A
10/19	1632	ACL	Nitrate + Nitrite	0.48 mg/L			HACH 10206	0.00	109.0 *
10/17	1224	JTH	Well Depth, Total	15.33 Feet				N/A	N/A
10/17	1224	JTH	Depth to Water	10.46 Feet				N/A	N/A

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Control Number: 2210010203
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 10/27/22

Sample Date : 10/17/22
 Sample Time : 1218
 Sample Type : GRAB WATER
 Sample From : WELL #14

Collected By: JTH
 Delivery By : JTH
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/20	1141	SLK	Chloride (as Cl)	10.0 mg/L			SM 2011 4500 Cl C	0.00	98.0 *
10/17	1222	JTH	pH	6.2 S.U.			SM 2011 4500-H+B	0.00	N/A *
10/25	1112	RRJ	Solids, Total Dissolved	< 10.0 mg/L			SM 2011 2540 C	0.00	N/A *
10/17	1222	JTH	Spec. Conductance @ 25 C	139.500 umho/c			EPA 120.1	0.07	N/A
10/17	1222	JTH	Temperature	18.20 °C			SM 2000 2550 B	1.09	N/A *
10/19	1632	ACL	Nitrate + Nitrite	0.30 mg/L			HACH 10206	0.00	109.0 *
10/17	1218	JTH	Well Depth, Total	13.08 Feet				N/A	N/A
10/17	1218	JTH	Depth to Water	10.33 Feet				N/A	N/A

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Control Number: 2210010204
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 11/07/22

Sample Date : 10/17/22
 Sample Time :
 Sample Type : DRY WELL
 Sample From :

Collected By:
 Delivery By :
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By	Parameter				% RPD	% Recovery
10/17	1250	JTH	Dry Well	0.00			N/A	N/A

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

Control Number: 2210010205
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 10/27/22

Sample Date : 10/17/22
 Sample Time : 1200
 Sample Type : GRAB WATER
 Sample From : WELL #17

Collected By: JTH
 Delivery By : JTH
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
10/20	1141	SLK	Chloride (as Cl)	20.0 mg/L		SM 2011 4500 Cl C	0.00	98.0 *
10/17	1202	JTH	pH	6.1 S.U.		SM 2011 4500-H+B	0.00	N/A *
10/25	1112	RRJ	Solids, Total Dissolved	< 10.0 mg/L		SM 2011 2540 C	0.00	N/A *
10/17	1202	JTH	Spec. Conductance @ 25 C	86.000 umho/c		EPA 120.1	0.07	N/A *
10/17	1202	JTH	Temperature	18.70 °C		SM 2000 2550 B	1.09	N/A *
10/19	1632	ACL	Nitrate + Nitrite	5.46 mg/L		HACH 10206	0.00	109.0 *
10/17	1200	JTH	Well Depth, Total	17.50 Feet			N/A	N/A
10/17	1200	JTH	Depth to Water	13.79 Feet			N/A	N/A

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AEG

CITY OF CLINTON CLINTON WATER AND SEWER DEPARTMENT

P.O. BOX 277
CLINTON, AR 72031
TELEPHONE (501) 745-4320
FAX (501) 745-2164

TO: _____ ESC _____

ATTN: _____

FAX#: _____ 501-221-1341 _____

FROM: Phil _____

PAGES INCLUDING COVER PAGE: 1 _____

MESSAGE: Yearly Report 2022 ..

East Plant: 9289 MGO 19 inches 326.44 acres (81 total acres)

West Plant: No Spray

Crops Grown

East Plant Owners: Steve Bone + Will Dawson

West Plant Owners: Danny Boone, Roy Jennings, Virginia Stevens

Clinton East Plant only has (81) total acres of land. The 326.44 acres is a total of each time I have sprayed this year.

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