

Clinton Water & Sewer East Plant

Annual Report
Permit AR0048836 & 5130-WR-2
January 2019 – December 2019



Environmental Services Company, Inc.

Corporate Office

13715 West Markham

Little Rock, Arkansas 72211

501-221-2565 (p)

501-221-1341 (f)

www.esclabs.com

Carlsbad, New Mexico

575-887-7372 (7ESC)

Albuquerque, New Mexico

888-372-3477

Springdale, Arkansas

479-750-1170

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Irrigation Water
Calendar Year 2019**

Parameter	Annual Concentration (mg/L)	2019 Application Data			
		Million Gallons/ Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre
Total Kjeldahl Nitrogen	7.1500	72.864	2446.22	29,786.4	1.777
Ammonia Nitrogen	1.7600	72.864	2446.22	29,786.4	0.437
Nitrate + Nitrite Nitrogen	1.5575	72.864	2446.22	29,786.4	0.387
BOD-5	18.9000	72.864	2446.22	29,786.4	4.698
Arsenic	< 0.0093	72.864	2446.22	29,786.4	0.002
Cadmium	< 0.0048	72.864	2446.22	29,786.4	0.001
Copper	< 0.0065	72.864	2446.22	29,786.4	0.002
Lead	< 0.0119	72.864	2446.22	29,786.4	0.003
Mercury	< 0.0010	72.864	2446.22	29,786.4	0.000
Selenium	< 0.0103	72.864	2446.22	29,786.4	0.003
Zinc	0.0210	72.864	2446.22	29,786.4	0.005
Conductivity, minimum (mhos/cm)*	138.00				
Conductivity, maximum (mhos/cm)*	188.00				
pH, minimum (SU)*	7.20				
pH, maximum (SU)*	9.40				
Nitrogen Application Rate (lbs N/acre/year)	2.16				

*Current year values

Crop Grown: Bermuda Hay

Total Application Since 2003 Pounds/Acre
637.82
152.34
110.17
1,047.10
0.49
0.23
0.27
0.60
0.09
0.69
4.41

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2019

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	1902010165							
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	02/07/19	1.230						
Ammonia Nitrogen	02/07/19	.1130						
PAN	02/07/19	1.34						
Phosphorous	02/07/19	.6940						
Potassium	02/07/19	45390.98						
Arsenic	02/07/19	305.35						
Cadmium	02/07/19	30.28						
Copper	02/07/19	391.79						
Lead	02/07/19	532.92						
Magnesium	02/07/19	33327.32						
Mercury	02/07/19	<3.501						
Nickel	02/07/19	861.65						
Zinc	02/07/19	2542.81						
Conductivity (mhos/cm)	02/07/19	13.2						
pH (SU)	02/07/19	7.3						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2019

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	1902010166							
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	02/07/19	2.778						
Ammonia Nitrogen	02/07/19	.4690						
PAN	02/07/19	2.24						
Phosphorous	02/07/19	1.26						
Potassium	02/07/19	123382.24						
Arsenic	02/07/19	908.87						
Cadmium	02/07/19	36.08						
Copper	02/07/19	859.09						
Lead	02/07/19	1298.08						
Magnesium	02/07/19	96210.25						
Mercury	02/07/19	<3.622						
Nickel	02/07/19	2227.46						
Zinc	02/07/19	5526.81						
Conductivity (mhos/cm)	02/07/19	7.6						
pH (SU)	02/07/19	7.3						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2019

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	1902010167							
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	02/07/19	0.675						
Ammonia Nitrogen	02/07/19	0.096						
PAN	02/07/19	0.77						
Phosphorous	02/07/19	0.4450						
Potassium	02/07/19	23893.74						
Arsenic	02/07/19	181.60						
Cadmium	02/07/19	21.34						
Copper	02/07/19	219.96						
Lead	02/07/19	296.95						
Magnesium	02/07/19	21734.67						
Mercury	02/07/19	<3.1880						
Nickel	02/07/19	219.96						
Zinc	02/07/19	1003.07						
Conductivity (mhos/cm)	02/07/19	4.00						
pH (SU)	02/07/19	7.30						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2019

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	1902010167							
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	02/07/19	1.146						
Ammonia Nitrogen	02/07/19	0.1940						
PAN	02/07/19	1.34						
Phosphorous	02/07/19	0.712						
Potassium	02/07/19	23868.67						
Arsenic	02/07/19	137.05						
Cadmium	02/07/19	16.83						
Copper	02/07/19	183.95						
Lead	02/07/19	273.95						
Magnesium	02/07/19	22980.57						
Mercury	02/07/19	<3.1640						
Nickel	02/07/19	451.74						
Zinc	02/07/19	1055.91						
Conductivity (mhos/cm)	02/07/19	4.900						
pH (SU)	02/07/19	7.10						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2019

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	1902010169							
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	02/07/19	<0.389						
Ammonia Nitrogen	02/07/19	<0.0030						
PAN	02/07/19	<0.39						
Phosphorous	02/07/19	0.4270						
Potassium	02/07/19	44490.56						
Arsenic	02/07/19	158.14						
Cadmium	02/07/19	12.98						
Copper	02/07/19	178.94						
Lead	02/07/19	411.02						
Magnesium	02/07/19	31937.48						
Mercury	02/07/19	<3.3090						
Nickel	02/07/19	461.26						
Zinc	02/07/19	1689.86						
Conductivity (mhos/cm)	02/07/19	3.600						
pH (SU)	02/07/19	7.00						

Clinton Water and Sewer Department
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East WWTP - AR0048836
Soil
Calendar Year 2019

Sample ID	Clinton East LA Airport 9							
Control Number	1902010170							
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	02/07/19	2.199						
Ammonia Nitrogen	02/07/19	0.5530						
PAN	02/07/19	2.75						
Phosphorous	02/07/19	1.1720						
Potassium	02/07/19	31948.29						
Arsenic	02/07/19	202.87						
Cadmium	02/07/19	11.35						
Copper	02/07/19	176.66						
Lead	02/07/19	386.39						
Magnesium	02/07/19	21768.76						
Mercury	02/07/19	<3.2920						
Nickel	02/07/19	517.33						
Zinc	02/07/19	857.00						
Conductivity (mhos/cm)	02/07/19	3.10						
pH (SU)	02/07/19	7.3						

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Sample ID	Clinton East LA WD 13							
Control Number	1902010171							
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	02/07/19	2.741						
Ammonia Nitrogen	02/07/19	0.7060						
PAN	02/07/19	3.44						
Phosphorous	02/07/19	1.5840						
Potassium	02/07/19	28505.16						
Arsenic	02/07/19	199.58						
Cadmium	02/07/19	12.29						
Copper	02/07/19	166.31						
Lead	02/07/19	293.67						
Magnesium	02/07/19	18737.81						
Mercury	02/07/19	<3.1440						
Nickel	02/07/19	464.33						
Zinc	02/07/19	832.65						
Conductivity (mhos/cm)	02/07/19	4.100						
pH (SU)	02/07/19	7.20						

Environmental Services Company, Inc.

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

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

Control Number: 1903010554
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 04/09/19

Sample Date : 03/28/19
Sample Time : 1110
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
03/29	0800	TCF	BOD, 5-day	16.10 mg/L			0.00	93.6 *
04/01	1600	PJC	Ammonia as N, (HACH/SM)	0.09 mg/L			1.36	101.5 *
04/05	1400	TCF	Total Kjeldahl Nitrogen	5.2 mg/L			1.04	98.5 *
03/28	1115	JGK	pH	9.4 S.U.			0.00	N/A *
04/04	1700	PJC	Copper	< 0.00300 mg/L			1.76	92.8
04/04	1700	PJC	Zinc	0.0169 mg/L			1.26	98.3
04/04	1700	PJC	Arsenic	< 0.0100 mg/L			1.68	96.6
04/04	1700	PJC	Selenium	< 0.0100 mg/L			0.59	96.6
03/28	1115	JGK	Spec. Conductance @ 25 C	138.000 umho/c			0.00	N/A
04/04	1700	PJC	Cadmium	< 0.0040 mg/L			0.03	96.3
04/02	1400	PJC	Mercury	< 0.0010 mg/L			1.69	114.3
04/04	1700	PJC	Lead	< 0.0100 mg/L			1.40	98.1
04/01	1600	PJC	Nitrate + Nitrite	1.16 mg/L			2.08	99.4 *

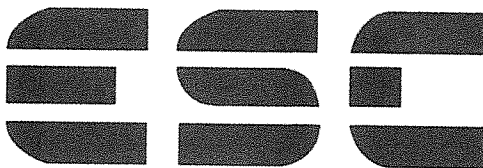
* QA data shown is from a different sample or standard on the same date.

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

Signature

Environmental Services Co., Inc.

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



Carlsbad, New Mexico
575-887-1ESC

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 Clinton, AR 72031				Purchase Order #:														
Phone:		501-745-4320				Work Order #														
Fax:		501-745-2164				Sampler Name(s):		J. Knoernschild												
Contact:		Mr. Phil Graham				and Signature(s):														
ESC Client Number:		619																		
Sample Identification			Sample Collection				Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.C)	Metals (See Comments)							
Irrigation Water	1703010654	3/28/19	1110	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X										
				Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X								
				Grab	Wwater	Plastic	1 Liter	HNO3 to pH <2	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"/> Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/> Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time												
Relinquished By: (Signature and Printed Name) J. Knoernschild		Date 3/28/19	Time 1530	Received for Lab By: (Signature and Printed Name) Dawn Porter Trevor Erdman			Date 3-28-19	Time 1530												
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW) Cd(48.HW), Pb(82.HW), UO.MD				Flow Data		Field Test		Time	Analyst	Result	Result	Units								
				Analyst:		pH:		1115	JK	9.4	9.4	S.U.								
				Time:		Conduct:		1115	JK	138.0	138.0	U MHOS								
				Reading:																
				Units:																
													This Document is Page 1 of 1							

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: 1906010425
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 07/10/19

Sample Date : 06/27/19
Sample Time : 0940
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
06/28	0700	DWC	BOD, 5-day	24.00 mg/L			0.00	95.1 *
07/03	0900	JJM	Ammonia as N, (HACH/SM)	0.06 mg/L			3.04	100.2 *
07/05	0830	PJC	Total Kjeldahl Nitrogen	5.8 mg/L			2.67	99.2
06/27	0945	JGK	pH	7.2 S.U.			0.00	N/A *
06/28	1700	PJC	Copper	0.00900 mg/L			2.36	98.8
06/28	1700	PJC	Zinc	0.0182 mg/L			9.11	114.3
06/28	1700	PJC	Arsenic	< 0.0100 mg/L			4.17	115.0
06/28	1700	PJC	Selenium	< 0.0100 mg/L			1.10	85.3
06/27	0945	JGK	Spec. Conductance @ 25 C	184.600 umho/c			0.00	N/A *
06/28	1700	PJC	Cadmium	< 0.0040 mg/L			3.39	110.7
07/05	1400	PJC	Mercury	< 0.0010 mg/L			9.54	101.1
07/08	1700	PJC	Lead	< 0.0100 mg/L			0.08	96.8
07/05	1030	PJC	Nitrate + Nitrite	2.39 mg/L			3.24	98.9

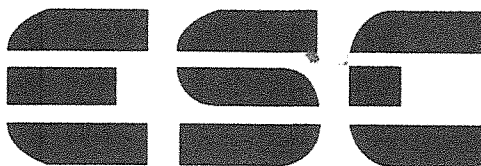
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Signature

Environmental Services Co., Inc.

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



Carlsbad, New Mexico
575-887-1ESC

CHAIN OF CUSTODY

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

Control Number: 1907010248
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 08/07/19

Sample Date : 07/29/19
Sample Time : 1020
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

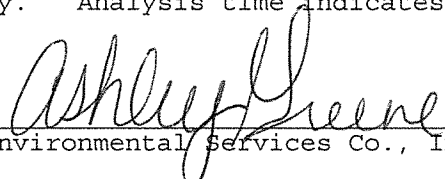
Collected By: TMO
Delivery By : TMO
Work Order :
Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Analysis			Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By						% RPD	% Recovery
07/31	0700	DWC	BOD, 5-day	22.70 mg/L			SM 2011 5210 B	2.61	103.5
07/31	1300	PJC	Ammonia as N, (HACH/SM)	0.14 mg/L			H/SM 11 10205/4500	2.38	100.5 *
08/06	1300	PJC	Total Kjeldahl Nitrogen	7.3 mg/L			02/2014 HACH 10242	1.05	100.8 *
07/29	1024	TMO	pH	7.3 S.U.			SM 2011 4500-H+B	0.00	N/A
08/02	1700	PJC	Copper	0.00630 mg/L			EPA 200.8	1.08	107.8 *
08/02	1700	PJC	Zinc	0.0296 mg/L			EPA 200.8	1.59	97.7 *
08/02	1700	PJC	Arsenic	< 0.0100 mg/L			EPA 200.8	0.66	97.6
08/02	1700	PJC	Selenium	< 0.0100 mg/L			EPA 200.8	4.40	99.3 *
07/29	1024	TMO	Spec. Conductance @ 25 C	181.000 umho/c			SM1997 2510B	0.00	N/A
08/02	1700	PJC	Cadmium	< 0.0040 mg/L			EPA 200.8	1.95	99.5 *
08/05	1400	PJC	Mercury	< 0.0010 mg/L			EPA 245.1	0.27	102.7
08/02	1700	PJC	Lead	< 0.0100 mg/L			EPA 200.8	0.45	102.5 *
07/31	1530	PJC	Nitrate + Nitrite	2.13 mg/L			HACH 10206	0.51	98.8

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Corporate Office

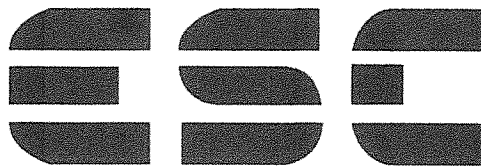
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575-887-1ESC

Phone: 501-221-2565

Fax: 501-221-1341

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters																
Client: Clinton, East IW				Permit/Project #: AR0048836				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BOD(3.)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NH3-N(15.A), NO3 + NO2(91.)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TKN(16.C)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals (See Comments)</div> </div>																
Address: P.O. Box 277				Purchase Order #:																				
Clinton, AR 72031				Work Order #																				
Phone: 501-745-4320				Sampler Name(s): Timothy O'Neal																				
Fax: 501-745-2164				and Signature(s): Timothy O'Neal																				
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	1907010248	7-29-19	1020	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X														
1	1	1	1	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X												
				Grab	Wwater	Plastic	1 Liter	HNO3 to pH <2	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:																
Timothy O'Neal		7-29-19	1425	Phil Graham		7-29-19	1425	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)				Flow Data		Field Test		Time	Analyst	Result	Result	Units												
Cd(48.HW), Pb(82.HW), 00.MD								1024	Tim O	7.3	7.3	S.U.												
								1024	Tim O	181.0	181.0	UMHOS												
This Document is Page 1 of 1																								

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

Control Number: 1910010350
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 11/15/19

Sample Date : 10/24/19
Sample Time : 1506
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
10/25	0700	DWC	BOD, 5-day	12.80 mg/L			0.00	106.6 *
10/28	0845	DWC	Ammonia as N, (HACH/SM)	6.75 mg/L			2.45	99.2 *
11/12	0900	TCF	Total Kjeldahl Nitrogen	10.3 mg/L			3.77	103.9
10/24	1507	NTR	pH	7.6 S.U.			0.00	N/A *
10/31	1700	PJC	Copper	0.00750 mg/L			3.06	89.1 *
10/31	1700	PJC	Zinc	0.0194 mg/L			1.01	91.5 *
10/31	1700	PJC	Arsenic	< 0.0070 mg/L			4.44	89.8 *
10/31	1700	PJC	Selenium	< 0.0110 mg/L			4.72	89.7 *
10/24	1507	NTR	Spec. Conductance @ 25 C	188.000 umho/c			0.33	N/A *
10/31	1700	PJC	Cadmium	< 0.0070 mg/L			2.23	89.1 *
11/06	1400	PJC	Mercury	< 0.0010 mg/L			4.62	88.9
10/31	1700	PJC	Lead	0.0174 mg/L			1.93	90.2 *
10/30	1230	PJC	Nitrate + Nitrite	0.55 mg/L			0.35	98.0 *

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

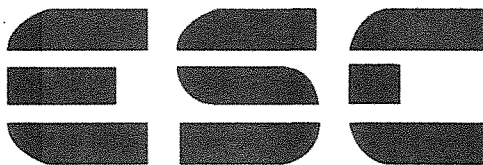
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Signature

Environmental Services Co., Inc.

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



Carlsbad, New Mexico
575-887-1ESC

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):		Ned Ryerson														
Fax:		501-745-2164		and Signature(s):		Ned Ryerson														
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	1910010350	10-24-19	1506	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X										
I	I	I	I	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X								
I	I	I	I	Grab	Wwater	Plastic	1 Liter	HNO3 to pH <2	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:												
Ned Ryerson - Ned Ryerson		10-24-19	1745	JWS Oshkosh		10-24-19	1745	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>										
				Flow Data		Field Test		Time	Analyst	Result	Result	Units								
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)				Analyst:		pH:		1507	NRL	7.6	7.6	S.U.								
Cd(48.HW), Pb(82.HW), UU.MD				Time:		Conduct:		1507	NRL	158	190	U MHOS								
				Reading:																
				Units:																
													This Document is Page 1 of 1							

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
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Control Number: 1902010165
Customer Name : CLINTON, EAST 40.24 LA PB 3
Customer Number : 3004
Report Date : 02/28/19

Sample Date : 02/07/19
Sample Time : 1241
Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB3

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/21	1600	PJC	Ammonia Nitrogen	0.1130 mg/kg			0.20	99.6
02/20	1400	PJC	Mercury	< 3.5010 mg/Kg			7.37	95.0
02/22	1500	PJC	Nitrate Nitrogen	1.230 mg/kg			0.19	98.4
02/22	1300	PJC	Phosphorous, Total (as P)	0.6940 mg/kg			0.63	98.6
02/13	1700	PJC	Magnesium	33327.32 mg/Kg			0.71	98.9
02/13	1700	PJC	Potassium	45390.98 mg/Kg			8.61	106.9
02/22	1700	PJC	pH Soil	7.30 S.U.			1.38	N/A
02/13	1700	PJC	Nickel	861.65 mg/Kg			1.01	100.7
02/13	1700	PJC	Copper	391.79 mg/Kg			4.60	101.5
02/13	1700	PJC	Zinc	2542.81 mg/Kg			3.73	101.2
02/22	1600	NTR	Nitrogen, Plant Available	1.34 mg/kg				
02/13	1700	PJC	Arsenic	305.35 mg/Kg			1.74	106.0
02/22	1100	PJC	Specific Conductance	13.2000 umhos			0.47	100.9 *
02/13	1700	PJC	Cadmium	30.28 mg/Kg			1.21	99.1
02/12	1200	PJC	Solids, % Total	71.409 %			3.92	N/A *
02/13	1700	PJC	Lead	532.92 mg/Kg			0.04	100.6

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Control Number: 1902010166
Customer Name : CLINTON, EAST 40.24 LA PB 30
Customer Number : 3003
Report Date : 02/28/19

Sample Date : 02/07/19
Sample Time : 1252
Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB30


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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/21	1600	PJC	Ammonia Nitrogen	0.4690 mg/kg			0.20	99.6 *
02/20	1400	PJC	Mercury	< 3.6220 mg/Kg			7.37	95.0 *
02/22	1500	PJC	Nitrate Nitrogen	2.778 mg/kg			0.19	98.4 *
02/22	1300	PJC	Phosphorous, Total (as P)	1.2600 mg/kg			0.63	98.6 *
02/13	1700	PJC	Magnesium	96210.25 mg/Kg			0.71	98.9 *
02/13	1700	PJC	Potassium	123382.24 mg/Kg			8.61	106.9 *
02/22	1700	PJC	pH Soil	7.30 S.U.			1.38	N/A *
02/13	1700	PJC	Nickel	2227.46 mg/Kg			1.01	100.7 *
02/13	1700	PJC	Copper	859.09 mg/Kg			4.60	101.5 *
02/13	1700	PJC	Zinc	5526.81 mg/Kg			3.73	101.2 *
02/22	1600	NTR	Nitrogen, Plant Available	2.24 mg/kg				
02/13	1700	PJC	Arsenic	908.87 mg/Kg			1.74	106.0 *
02/22	1100	PJC	Specific Conductance	7.6000 umhos			0.47	100.9 *
02/13	1700	PJC	Cadmium	36.08 mg/Kg			1.21	99.1 *
02/12	1200	PJC	Solids, % Total	69.027 %			3.92	N/A *
02/13	1700	PJC	Lead	1298.08 mg/Kg			0.04	100.6 *

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Control Number: 1902010167
Customer Name : CLINTON, EAST 55.57 LA PB 10
Customer/Permit No. : 511 / AR0048836 001
Report Date : 02/28/19

Sample Date : 02/07/19
Sample Time : 1310
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB10

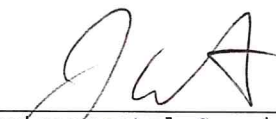
Collected By: NTR
Delivery By : NTR
Work Order :
Purchase Order :

Laboratory Analysis							Quality Assurance		
Analysis							Precision	Accuracy	
Date	Time	By	Parameter	Result	Notes	Quantity	Method	% RPD	% Recovery
02/21	1600	PJC	Ammonia Nitrogen	0.0960 mg/kg			SM 1997 4500-NH3 C	0.20	99.6 *
02/20	1400	PJC	Mercury	< 3.1880 mg/Kg			SW-846 7474 02/07	7.37	95.0 *
02/22	1500	PJC	Nitrate Nitrogen	0.675 mg/kg			SM 2000 4500-NO3 E	0.19	98.4 *
02/22	1300	PJC	Phosphorous, Total (as P)	0.4450 mg/kg			EPA 365.3	0.63	98.6 *
02/13	1700	PJC	Magnesium	21734.67 mg/Kg			SW-846 6020A	0.71	98.9 *
02/13	1700	PJC	Potassium	23893.74 mg/Kg			SW-846 6020A	8.61	106.9 *
02/22	1700	PJC	pH Soil	7.30 S.U.			SW846 9045C	1.38	N/A *
02/13	1700	PJC	Nickel	452.05 mg/Kg			SW-846 6020A	1.01	100.7 *
02/13	1700	PJC	Copper	219.96 mg/Kg			SW-846 6020A	4.60	101.5 *
02/13	1700	PJC	Zinc	1003.07 mg/Kg			SW-846 6020A	3.73	101.2 *
02/22	1600	NTR	Nitogen, Plant Available	0.77 mg/kg			33 MSA 2nd Ed		
02/13	1700	PJC	Arsenic	181.60 mg/Kg			SW-846 6020A	1.74	106.0 *
02/22	1100	PJC	Specific Conductance	4.0000 umhos			EPA (MOD)9050A	0.47	100.9 *
02/13	1700	PJC	Cadmium	21.34 mg/Kg			SW-846 6020A	1.21	99.1 *
02/12	1200	PJC	Solids, % Total	78.410 %			SM 1997 2540 G	3.92	N/A *
02/13	1700	PJC	Lead	296.95 mg/Kg			SW-846 6020A	0.04	100.6 *

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Control Number: 1902010168
Customer Name : CLINTON, EAST 55.57 LA PB 3
Customer Number : 3002
Report Date : 02/28/19

Sample Date : 02/07/19
Sample Time : 1318
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB3

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/21	1600	PJC	Ammonia Nitrogen	0.1940 mg/kg			0.20	99.6 *
02/20	1400	PJC	Mercury	< 3.1640 mg/Kg			7.37	95.0 *
02/22	1500	PJC	Nitrate Nitrogen	1.146 mg/kg			0.19	98.4 *
02/22	1300	PJC	Phosphorous, Total (as P)	0.7120 mg/kg			0.63	98.6 *
02/13	1700	PJC	Magnesium	22980.57 mg/Kg			0.71	98.9 *
02/13	1700	PJC	Potassium	23868.67 mg/Kg			8.61	106.9 *
02/22	1700	PJC	pH Soil	7.10 S.U.			1.38	N/A *
02/13	1700	PJC	Nickel	451.74 mg/Kg			1.01	100.7 *
02/13	1700	PJC	Copper	183.95 mg/Kg			4.60	101.5 *
02/13	1700	PJC	Zinc	1055.91 mg/Kg			3.73	101.2 *
02/22	1600	NTR	Nitrogen, Plant Available	1.34 mg/kg				
02/13	1700	PJC	Arsenic	137.05 mg/Kg			1.74	106.0 *
02/22	1100	PJC	Specific Conductance	4.9000 umhos			0.47	100.9 *
02/13	1700	PJC	Cadmium	16.83 mg/Kg			1.21	99.1 *
02/12	1200	PJC	Solids, % Total	79.011 %			3.92	N/A *
02/13	1700	PJC	Lead	273.95 mg/Kg			0.04	100.6 *
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Control Number: 1902010169
Customer Name : CLINTON, EAST 55.57 LA PB 30
Customer Number : 3001
Report Date : 02/28/19

Sample Date : 02/07/19
Sample Time : 1331
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB30


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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/21	1600	PJC	Ammonia Nitrogen	< 0.0030 mg/kg		SM 1997 4500-NH3 C	0.20	99.6 *
02/20	1400	PJC	Mercury	< 3.3090 mg/Kg		SW-846 7474 02/07	7.37	95.0 *
02/22	1500	PJC	Nitrate Nitrogen	< 0.389 mg/kg		SM 2000 4500-NO3 E	0.19	98.4 *
02/22	1300	PJC	Phosphorous, Total (as P)	0.4270 mg/kg		EPA 365.3	0.63	98.6 *
02/13	1700	PJC	Magnesium	31937.48 mg/Kg		SW-846 6020A	0.71	98.9 *
02/13	1700	PJC	Potassium	44490.56 mg/Kg		SW-846 6020A	8.61	106.9 *
02/22	1700	PJC	pH Soil	7.00 S.U.		SW846 9045C	1.38	N/A *
02/13	1700	PJC	Nickel	461.26 mg/Kg		SW-846 6020A	1.01	100.7 *
02/13	1700	PJC	Copper	178.94 mg/Kg		SW-846 6020A	4.60	101.5 *
02/13	1700	PJC	Zinc	1689.86 mg/Kg		SW-846 6020A	3.73	101.2 *
02/11	1600	NTR	Nitrogen, Plant Available	< 0.39 mg/kg		33 MSA 2nd Ed		
02/13	1700	PJC	Arsenic	158.14 mg/Kg		SW-846 6020A	1.74	106.0 *
02/22	1100	PJC	Specific Conductance	3.6000 umhos		EPA (MOD)9050A	0.47	100.9 *
02/13	1700	PJC	Cadmium	12.98 mg/Kg		SW-846 6020A	1.21	99.1 *
02/12	1200	PJC	Solids, % Total	75.553 %		SM 1997 2540 G	3.92	N/A *
02/13	1700	PJC	Lead	411.02 mg/Kg		SW-846 6020A	0.04	100.6 *

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

Control Number: 1902010170
Customer Name : CLINTON, EAST LA AIRPORT9
Customer Number : 2959
Report Date : 03/01/19

Sample Date : 02/07/19
Sample Time : 1353
Sample Type : GRAB SOIL
Sample From : EAST LA AIRPORT9

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/21	1600	PJC	Ammonia Nitrogen	0.5530 mg/kg			0.20	99.6 *
02/20	1400	PJC	Mercury	< 3.2920 mg/Kg			7.37	95.0 *
02/22	1500	PJC	Nitrate Nitrogen	2.199 mg/kg			0.19	98.4 *
02/22	1300	PJC	Phosphorous, Total (as P)	1.1720 mg/kg			0.63	98.6 *
02/13	1700	PJC	Magnesium	21768.76 mg/Kg			0.71	98.9 *
02/13	1700	PJC	Potassium	31948.29 mg/Kg			8.61	106.9 *
02/22	1700	PJC	pH Soil	7.30 S.U.			1.38	N/A *
02/13	1700	PJC	Nickel	517.33 mg/Kg			1.01	100.7 *
02/13	1700	PJC	Copper	176.66 mg/Kg			4.60	101.5 *
02/13	1700	PJC	Zinc	857.00 mg/Kg			3.73	101.2 *
02/22	1600	NTR	Nitrogen, Plant Available	2.75 mg/kg				
02/13	1700	PJC	Arsenic	202.87 mg/Kg			1.74	106.0 *
02/22	1100	PJC	Specific Conductance	3.1000 umhos			0.47	100.9 *
02/13	1700	PJC	Cadmium	11.35 mg/Kg			1.21	99.1 *
02/12	1200	PJC	Solids, % Total	75.933 %			3.92	N/A *
02/13	1700	PJC	Lead	386.39 mg/Kg			0.04	100.6 *

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Control Number: 1902010171
Customer Name : CLINTON, EAST LA WD13
Customer Number : 2960
Report Date : 03/01/19

Sample Date : 02/07/19
Sample Time : 1419
Sample Type : GRAB SOIL
Sample From : EAST LA WD13

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/21	1600	PJC	Ammonia Nitrogen	0.7060 mg/kg			0.20	99.6
02/20	1400	PJC	Mercury	< 3.1440 mg/Kg			7.37	95.0 *
02/22	1500	PJC	Nitrate Nitrogen	2.741 mg/kg			0.19	98.4 *
02/22	1300	PJC	Phosphorous, Total (as P)	1.5840 mg/kg			0.63	98.6 *
02/13	1700	PJC	Magnesium	18737.81 mg/Kg			0.71	98.9 *
02/13	1700	PJC	Potassium	28505.16 mg/Kg			8.61	106.9 *
02/22	1700	PJC	pH Soil	7.20 S.U.			1.38	N/A *
02/13	1700	PJC	Nickel	464.33 mg/Kg			1.01	100.7 *
02/13	1700	PJC	Copper	166.31 mg/Kg			4.60	101.5 *
02/13	1700	PJC	Zinc	832.65 mg/Kg			3.73	101.2 *
02/22	1600	NTR	Nitrogen, Plant Available	3.44 mg/kg				
02/13	1700	PJC	Arsenic	199.58 mg/Kg			1.74	106.0 *
02/22	1100	PJC	Specific Conductance	4.1000 umhos			0.47	100.9 *
02/13	1700	PJC	Cadmium	12.29 mg/Kg			1.21	99.1 *
02/12	1200	PJC	Solids, % Total	79.517 %			3.92	N/A *
02/13	1700	PJC	Lead	293.67 mg/Kg			0.04	100.6 *

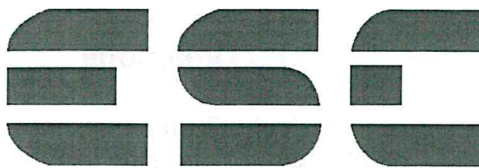
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Signature

Environmental Services Co., Inc.

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



Carlsbad, New Mexico
575-887-1ESC

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters									
Client:		Clinton, City of (East Land App)				Permit/Project #:					<div>Metals (See Comments)</div> <div>Nitrate Nitrogen(01.3), Phos(01.9)</div> <div>Soil pH(23.S), Spec Cond(35.M)</div> <div>Ammonia(01.1), PAN(33.AN)</div>									
Address:		P.O. Box 277				Purchase Order #:														
		Clinton, AR 72031				Work Order #														
Phone:		501-745-4320				Sampler Name(s):		Ned Ryerson												
Fax:		Mr. Phil Graham				and Signature(s):		Ned Ryerson												
Contact:		501-745-2164																		
ESC Client Number:		Various																		
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
East LA 40.24 PB3 (3004)	1902010165	2-7-19	1241	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 40.24 PB30 (3003)	1902010166	2-7-19	1252	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB10 (511)	1902010167	2-7-19	1310	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB3 (3002)	1902010168	2-7-19	1318	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB30 (3001)	1902010169	2-7-19	1331	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA Airport9 (2959)	1902010170	2-7-19	1353	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA WD13 (2960)	1902010171	2-7-19	1419	Grab	Soil	Glass	1 Liter	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:										
										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:										
Ned Ryerson Ned Ryerson		2-7-19	1630	Socore walkin Cooper				2-7-19	1630	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
						Flow Data	Field Test	Time	Analyst	Result	Result	Units								
Comments: 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:														
Ned Ryerson 2/8/19 @ 0820						Fecal Start:						This Document is Page 1 of 1								

Environmental Services Company, Inc.

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

Control Number: 1903010555
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 04/05/19

Sample Date : 03/28/19
Sample Time : 1205
Sample Type : GRAB WATER
Sample From : EAST WELL #13

Collected By: JGK
Delivery By : JGK
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>% RPD</u>	<u>% Recovery</u>
04/01	0900	DWC	Chloride (as Cl)	16.0 mg/L			0.00	96.9 *
03/28	1205	JGK	pH	6.6 S.U.			0.00	N/A *
04/02	1300	PJC	Solids, Total Dissolved	124.0 mg/L			1.80	N/A *
03/28	1205	JGK	Spec. Conductance @ 25 C	313.000 umho/c			0.00	N/A *
03/28	1205	JGK	Temperature	17.40 °C			0.58	N/A
04/01	1600	PJC	Nitrate + Nitrite	2.12 mg/L			2.08	99.4 *
03/28	1205	JGK	Well Depth, Total	15.40 Feet			N/A	N/A
03/28	1205	JGK	Depth to Water	10.00 Feet			N/A	N/A

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

Control Number: 1903010556
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 04/05/19

Sample Date : 03/28/19
Sample Time : 1230
Sample Type : GRAB WATER
Sample From : EAST WELL #14

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

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>
04/01	0900	DWC	Chloride (as Cl)	12.0 mg/L			SM1997 4500ClC	0.00	96.9 *
03/28	1230	JGK	pH	6.3 S.U.			SM 2000 4500-H+B	0.00	N/A *
04/02	1300	PJC	Solids, Total Dissolved	28.0 mg/L			SM1997 2540 C	1.80	N/A *
03/28	1230	JGK	Spec. Conductance @ 25 C	132.100 umho/c			SM1997 2510B	0.00	N/A *
03/28	1230	JGK	Temperature	13.90 °C			SM 2000 2550 B	0.58	N/A *
04/01	1600	PJC	Nitrate + Nitrite	0.61 mg/L			HACH 10206	2.08	99.4 *
03/28	1230	JGK	Well Depth, Total	13.10 Feet				N/A	N/A
03/28	1230	JGK	Depth to Water	9.00 Feet				N/A	N/A

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Control Number: 1903010557
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 04/05/19

Sample Date : 03/28/19
Sample Time : 1300
Sample Type : GRAB WATER
Sample From : EAST WELL #16

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

Laboratory Analysis							Quality Assurance		
Analysis			Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By						% RPD	% Recovery
04/01	0900	DWC	Chloride (as Cl)	4.0 mg/L			SM1997 4500ClC	0.00	96.9 *
03/28	1300	JGK	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
04/02	1300	PJC	Solids, Total Dissolved	64.0 mg/L			SM1997 2540 C	1.80	N/A *
03/28	1300	JGK	Spec. Conductance @ 25 C	70.500 umho/c			SM1997 2510B	0.00	N/A *
03/28	1300	JGK	Temperature	15.20 °C			SM 2000 2550 B	0.58	N/A *
04/01	1600	PJC	Nitrate + Nitrite	1.86 mg/L			HACH 10206	2.08	99.4
03/28	1300	JGK	Well Depth, Total	14.00 Feet				N/A	N/A
03/28	1300	JGK	Depth to Water	8.80 Feet				N/A	N/A

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

Control Number: 1903010558
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 04/05/19

Sample Date : 03/28/19
Sample Time : 1134
Sample Type : GRAB WATER
Sample From : EAST WELL #17

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

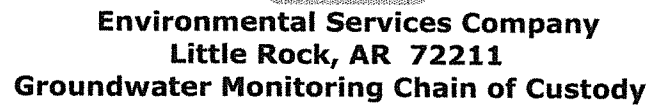
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>% RPD</u>	<u>% Recovery</u>
04/01	0900	DWC	Chloride (as Cl)		4.0 mg/L	SM1997 4500ClC	0.00	96.9 *
03/28	1134	JGK	pH		6.5 S.U.	SM 2000 4500-H+B	0.00	N/A *
04/02	1300	PJC	Solids, Total Dissolved		76.0 mg/L	SM1997 2540 C	6.45	N/A *
03/28	1134	JGK	Spec. Conductance @ 25 C		93.300 umho/c	SM1997 2510B	0.00	N/A *
03/28	1134	JGK	Temperature		16.30 °C	SM 2000 2550 B	0.58	N/A *
04/01	1600	PJC	Nitrate + Nitrite		6.48 mg/L	HACH 10206	2.08	99.4 *
03/28	1134	JGK	Well Depth, Total		17.60 Feet		N/A	N/A
03/28	1134	JGK	Depth to Water		12.00 Feet		N/A	N/A

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Signature

Environmental Services Co., Inc.



Sampler Name(s): J. Knoernschild
and Signature: [Signature]

Sample Date: 3-28-19

Relinquished by: <u>Le JT-Kuenschi, G</u>	Time: <u>1530</u>	Received By Lab: <u>Dr. Beth J. Fierro, Forth</u>	Date: <u>3-28-19</u>	Time: <u>1530</u>
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Comments:

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: 1906010426
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 07/09/19

Sample Date : 06/27/19
Sample Time : 1045
Sample Type : GRAB WWATER
Sample From : WELL #13

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
06/28	0800	DWC	Chloride (as Cl)	20.0 mg/L			0.00	98.5 *
06/27	1045	JGK	pH	6.3 S.U.			0.00	N/A *
07/02	0900	PJC	Solids, Total Dissolved	40.0 mg/L			4.44	N/A *
06/27	1045	JGK	Spec. Conductance @ 25 C	210.000 umho/c			0.00	N/A
06/27	1045	JGK	Temperature	24.50 °C			0.00	N/A
07/05	1030	PJC	Nitrate + Nitrite	0.90 mg/L			3.24	98.9 *
06/27	1045	JGK	Well Depth, Total	15.40 Feet			N/A	N/A
06/27	1045	JGK	Depth to Water	8.20 Feet			N/A	N/A

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Springdale, AR 72762
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Control Number: 1906010427
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 07/09/19

Sample Date : 06/27/19
Sample Time : 1110
Sample Type : GRAB WATER
Sample From : WELL #14

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
06/28	0800	DWC	Chloride (as Cl)	< 0.1 mg/L			0.00	98.5 *
06/27	1110	JGK	pH	6.4 S.U.			0.00	N/A *
07/02	0900	PJC	Solids, Total Dissolved	24.0 mg/L			4.44	N/A *
06/27	1110	JGK	Spec. Conductance @ 25 C	132.700 umho/c			0.00	N/A *
06/27	1110	JGK	Temperature	33.40 °C			0.00	N/A *
07/05	1030	PJC	Nitrate + Nitrite	0.43 mg/L			3.24	98.9 *
06/27	1110	JGK	Well Depth, Total	13.10 Feet			N/A	N/A
06/27	1110	JGK	Depth to Water	9.10 Feet			N/A	N/A

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Control Number: 1906010428
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 06/28/19

Sample Date : 06/27/19
Sample Time :
Sample Type : DRY WELL
Sample From : WELL #16


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

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>
06/27	1130	JGK	Dry Well	0.00				% RPD	% Recovery
								N/A	N/A

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1107 Century Avenue
Springdale, AR 72762
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Control Number: 1906010429
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 07/09/19

Sample Date : 06/27/19
Sample Time : 1005
Sample Type : GRAB WATER
Sample From : WELL #17

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

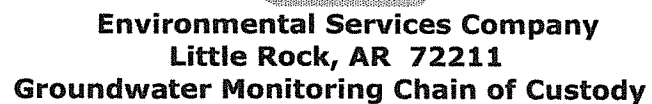
Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
06/28	0800	DWC	Chloride (as Cl)	< 0.1 mg/L			0.00	98.5 *
06/27	1005	JGK	pH	5.8 S.U.			0.00	N/A *
07/02	0900	PJC	Solids, Total Dissolved	64.0 mg/L			4.44	N/A *
06/27	1005	JGK	Spec. Conductance @ 25 C	105.100 umho/c			0.00	N/A *
06/27	1005	JGK	Temperature	18.40 °C			0.00	N/A *
07/05	1030	PJC	Nitrate + Nitrite	6.78 mg/L			3.24	98.9 *
06/27	1005	JGK	Well Depth, Total	17.60 Feet			N/A	N/A
06/27	1005	JGK	Depth to Water	11.60 Feet			N/A	N/A

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Sample Date: 0-27-19

Comments:

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Control Number: 1907010249
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 08/09/19

Sample Date : 07/29/19
Sample Time : 1122
Sample Type : GRAB WATER
Sample From : WELL #13

Collected By: TMO
Delivery By : TMO
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>% RPD</u>	<u>% Recovery</u>
07/29	1500	DWC	Chloride (as Cl)	9.0 mg/L			0.00	99.9 *
07/29	1125	TMO	pH	6.8 S.U.			0.00	N/A *
07/30	0900	PJC	Solids, Total Dissolved	196.0 mg/L			1.06	N/A *
07/29	1125	TMO	Spec. Conductance @ 25 C	275.000 umho/c			0.00	N/A *
07/31	1530	PJC	Nitrate + Nitrite	6.12 mg/L			0.51	98.8 *
07/29	1122	TMO	Well Depth, Total	15.40 Feet			N/A	N/A
07/29	1122	TMO	Depth to Water	10.20 Feet			N/A	N/A

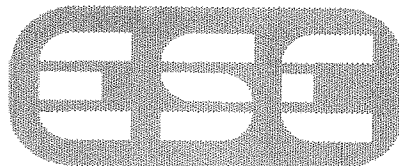
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Signature

Environmental Services Co., Inc.

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



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

CHAIN OF CUSTODY

[illegible]

Environmental Services Company, Inc.

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

Control Number: 1907010250
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 08/09/19

Sample Date : 07/29/19
Sample Time : 1132
Sample Type : GRAB WATER
Sample From : WELL #14

Collected By: TMO
Delivery By : TMO
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>% RPD</u>	<u>% Recovery</u>
07/29	1500	DWC	Chloride (as Cl)	13.0 mg/L			0.00	99.9 *
07/29	1136	TMO	pH	7.3 S.U.			0.00	N/A *
07/30	0900	PJC	Solids, Total Dissolved	188.0 mg/L			1.06	N/A *
07/29	1136	TMO	Spec. Conductance @ 25 C	281.000 umho/c			0.00	N/A *
07/31	1530	PJC	Nitrate + Nitrite	6.56 mg/L			0.51	98.8 *
07/29	1132	TMO	Well Depth, Total	13.10 Feet			N/A	N/A
07/29	1132	TMO	Depth to Water	8.70 Feet			N/A	N/A

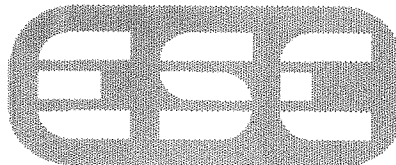
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Signature

Environmental Services Co., Inc.

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



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

CHAIN OF CUSTODY

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

Client Information						Project Information							Requested Parameters							
Company Name: Clinton, East GW14						Permit/Project #: AR0048836							TDS(27.), Chloride(7.) NO2 +NO3(91.)							
Address: P.O. Box 277 Clinton, AR 72031						Purchase Order #:														
Telephone: 501-745-4320						Work Order #														
Contact: P.O. Box 277						Sampler Name(s): Timothy O'Neal														
FAX: 501-745-2164						and Signature(s): Timothy O'Neal														
ESC Client Number: 508																				
Sample Identification			Sample Collection				Sample Containers													
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Well # 14	1907010250	7-29-19	1132	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X										
	1	1	1	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"/>											
Cool all samples to ≤ 6 degrees C with ice.									Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Comments:				Flow Data		Field Test		Time	Analyst	Result	Result	Units								
				Analyst:		pH:		1136	TMO	73	73	SU								
				Time:		Sp Cond:		1136	TMO	2860	2860									
				Reading:																
				Units:																
Total Depth-99.10:		131																		
H2O Depth - 99.9:		8.7																		
				Chlorinated? Y N		Fecal Start:				This Document is Page 1										

Environmental Services Company, Inc.

Corporate Office
13715 West Markham
Little Rock, AR 72211
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1107 Century Avenue
Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1907010251
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 08/09/19

Sample Date : 07/29/19
Sample Time : 1100
Sample Type : GRAB WATER
Sample From : WELL #16

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
07/29	1500	DWC	Chloride (as Cl)	14.0 mg/L			0.00	99.9 *
07/29	1104	TMO	pH	6.7 S.U.			0.00	N/A *
07/30	0900	PJC	Solids, Total Dissolved	176.0 mg/L			1.06	N/A *
07/29	1104	TMO	Spec. Conductance @ 25 C	90.100 umho/c			0.00	N/A *
07/31	1530	PJC	Nitrate + Nitrite	2.27 mg/L			0.51	98.8 *
07/29	1100	TMO	Well Depth, Total	17.70 Feet			N/A	N/A
07/29	1100	TMO	Depth to Water	12.30 Feet			N/A	N/A

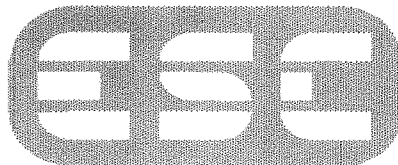
* QA data shown is from a different sample or standard on the same date.

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Signature

Environmental Services Co., Inc.

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



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

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): Timothy O'Neal														
Contact: Mr. Todd Burgess						and Signature(s): Timothy O'Neal														
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	1907010251	7-29-19	1100	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X										
		7-29-19		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 By: (Signature and Printed Name)			Date	Time	Turnaround: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Special <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Were samples properly preserved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											
Cool all samples to ≤ 6 degrees C with ice.					Flow Data		Field Test	Time	Analyst	Result	Result	Units								
Comments:					Analyst:		pH:	110.4	TMO	6.8	6.8	SU								
					Time:		Sp Cond:	110.1	TMO	90.1	90.1									
					Reading:															
					Units:															
Total Depth-99.10:		17.7																		
H2O Depth - 99.9:		12.3					Chlorinated? Y N	Fecal Start:		This Document is Page 1 of 1										

Environmental Services Company, Inc.

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

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

Control Number: 1907010252
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 08/09/19

Sample Date : 07/29/19
Sample Time : 1040
Sample Type : GRAB WATER
Sample From : WELL #17

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Analysis</u>			<u>Parameter</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>% RPD</u>	<u>% Recovery</u>
07/29	1500	DWC	Chloride (as Cl)	3.0 mg/L			SM1997 4500ClC	0.00	99.9 *
07/29	1044	TMO	pH	5.9 S.U.			SM 2011 4500-H+B	0.00	N/A *
07/30	0900	PJC	Solids, Total Dissolved	216.0 mg/L			SM1997 2540 C	1.06	N/A *
07/29	1044	TMO	Spec. Conductance @ 25 C	86.900 umho/c			SM1997 2510B	0.00	N/A *
07/31	1530	PJC	Nitrate + Nitrite	5.44 mg/L			HACH 10206	0.51	98.8 *
07/29	1040	TMO	Well Depth, Total	17.60 Feet				N/A	N/A
07/29	1040	TMO	Depth to Water	11.60 Feet				N/A	N/A

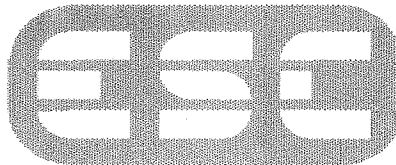
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Signature

Environmental Services Co., Inc.

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



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

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 Clinton, AR 72031						Purchase Order #:															
Telephone: 501-745-4320						Work Order #															
Contact: Mr. Todd Burgess						Sampler Name(s): Timothy O'Neal															
FAX: 501-745-2164						and Signature(s): [Signature]															
ESC Client Number: 649																					
Sample Identification		Sample Collection				Sample Containers															
Vell #	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Vell # 17	1907010252	7-29-19	1040	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: 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) Timothy O'Neal		Date 7-29-19	Time 1420	Received for Lab By: (Signature and Printed Name) Dad Cant Dad Contact			Date 7-29-19	Time 1425	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:						Analyst:	pH:	1044	TMO	8.9	5.9	SH									
						Time:	Sp Cond:	1044	TMO	86.9	86.9										
						Reading:															
						Units:															
Total Depth-99.10:		17' 2"																			
H2O Depth - 99.9:		11' 4"																			
						Chlorinated? Y N	Fecal Start:	This Document is Page 1													

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Corporate Office
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1107 Century Avenue
Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1910010351
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 11/01/19

Sample Date : 10/24/19
Sample Time : 1321
Sample Type : GRAB WATER
Sample From : WELL #13

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

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>
10/25	1000	DWC	Chloride (as Cl)	20.0 mg/L			SM1997 4500ClC	0.00	100.0 *
10/24	1324	NTR	pH	6.7 S.U.			SM 2011 4500-H+B	0.00	N/A
10/25	1545	PJC	Solids, Total Dissolved	204.0 mg/L			SM1997 2540 C	1.98	N/A
10/24	1324	NTR	Spec. Conductance @ 25 C	300.000 umho/c			SM1997 2510B	0.33	N/A
10/30	1230	PJC	Nitrate + Nitrite	0.53 mg/L			HACH 10206	0.35	98.0 *
10/24	1321	NTR	Well Depth, Total	15.40 Feet				N/A	N/A
10/24	1321	NTR	Depth to Water	10.10 Feet				N/A	N/A

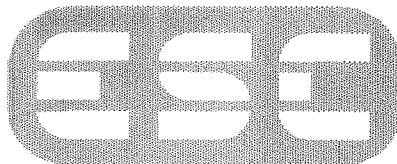
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Signature

Environmental Services Co., Inc.

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



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

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): Ned Ryerson														
Contact: Mr. Phil Graham						and Signature(s): Ned Ryerson														
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	1910010351	10-24-19	1321	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X										
I	I	I	I	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 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 By: (Signature and Printed Name)			Date	Time	Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Comments:		Flow Data				Field Test		Time	Analyst	Result	Result	Units								
						pH:		1324	NTR	6.7	6.7	SU								
						Sp Cond:		1324	NTR	300	299	µM/S/cm								
						Reading:														
						Units:														
Total Depth-99.10:		15' 4"																		
H2O Depth - 99.9:		10' 1"																		
						Chlorinated? Y N		Fecal Start:		This Document is Page 1 of 1										

Environmental Services Company, Inc.

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

Control Number: 1910010352
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 11/01/19

Sample Date : 10/24/19
Sample Time : 1356
Sample Type : GRAB WATER
Sample From : WELL #14

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

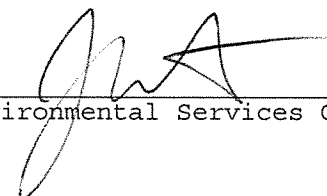
Analysis			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
10/25	1000	DWC	Chloride (as Cl)	20.0 mg/L			SM1997 4500ClC	0.00	100.0 *
10/24	1358	NTR	pH	6.8 S.U.			SM 2011 4500-H+B	0.00	N/A *
10/25	1545	PJC	Solids, Total Dissolved	120.0 mg/L			SM1997 2540 C	1.98	N/A *
10/24	1358	NTR	Spec. Conductance @ 25 C	198.000 umho/c			SM1997 2510B	0.33	N/A *
10/30	1230	PJC	Nitrate + Nitrite	0.31 mg/L			HACH 10206	0.35	98.0 *
10/24	1356	NTR	Well Depth, Total	13.10 Feet				N/A	N/A
10/24	1356	NTR	Depth to Water	8.90 Feet				N/A	N/A


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Signature

Environmental Services Co., Inc.





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 GW14						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): Ned Rycison															
Contact: Mr. Todd Burgess						and Signature(s): Ned Rycison															
FAX: 501-745-2164																					
ESC Client Number: 508																					
Sample Identification		Sample Collection				Sample Containers															
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Well # 14	1910010352	10-24-19	1356	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X											
I	f	f	f	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 By: (Signature and Printed Name)			Date	Time	Turnaround: <input checked="" type="checkbox"/> Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>												
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Were samples properly preserved:												
Cool all samples to ≤ 6 degrees C with ice.		10-24-19	1745	J. W. S. Ogle			10-24-19	1745	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
Comments:		Flow Data				Field Test		Time	Analyst	Result	Result	Units									
						pH:		1358	NTR	6.8	6.9	SW									
						Sp Cond:		1358	NTR	198	201	µmhos/cm									
						Reading:															
						Units:															
Total Depth-99.10:		13' 1"																			
H2O Depth - 99.9:		8' 9"																			
						Chlorinated? Y N		Fecal Start:		This Document is Page 1											

Environmental Services Company, Inc.

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Springdale, AR 72762
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Control Number: 1910010353
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 11/01/19

Sample Date : 10/24/19
Sample Time : 1424
Sample Type : GRAB WATER
Sample From : WELL #16

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
10/25	1000	DWC	Chloride (as Cl)	20.0 mg/L			0.00	100.0 *
10/24	1430	NTR	pH	6.0 S.U.			0.00	N/A *
10/25	1545	PJC	Solids, Total Dissolved	136.0 mg/L			1.98	N/A *
10/24	1430	NTR	Spec. Conductance @ 25 C	83.800 umho/c			0.33	N/A *
10/30	1230	PJC	Nitrate + Nitrite	2.82 mg/L			0.35	98.0 *
10/24	1424	NTR	Well Depth, Total	14.00 Feet			N/A	N/A
10/24	1424	NTR	Depth to Water	8.70 Feet			N/A	N/A


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Signature

Environmental Services Co., Inc.

AVV



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 GW16						Permit/Project #: AR0048836					TDS(27.), Chloride(7.) NO2 +NO3(91.)								
Address: P.O. Box 277 Clinton, AR 72031						Purchase Order #:													
Telephone: 501-745-4320						Work Order #													
Contact: Mr. Todd Burgess						Sampler Name(s): Ned Ryerson													
FAX: 501-745-2164						and Signature(s): [Signature]													
ESC Client Number: 509																			
Sample Identification		Sample Collection				Sample Containers													
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Well #16	1910010353	10-24-19	1744	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X									
T	L	L	L	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: 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) [Signature] Ned Ryerson		Date	Time	Received for Lab By: (Signature and Printed Name) [Signature] Gabe Carr			Date	Time	Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
Cool all samples to 5 degrees C with ice.						Flow Data		Field Test	Time	Analyst	Result	Result	Units						
Comments:						Analyst:		pH:	1430	NRL	6.0	6.0	SU						
						Time:		Sp Cond:	1430	NRL	83.8	83.5	uhopkn						
						Reading:													
						Units:													
Total Depth-99.10:		14' 0"																	
H2O Depth - 99.9:		8' 7"																	
						Chlorinated? Y N		Fecal Start:	This Document is Page 1 of 1										

Environmental Services Company, Inc.

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

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

Control Number: 1910010354
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 11/01/19

Sample Date : 10/24/19
Sample Time : 1246
Sample Type : GRAB WATER
Sample From : WELL #17

Collected By: NTR
Delivery By : NTR
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>% RPD</u>	<u>% Recovery</u>
10/25	1000	DWC	Chloride (as Cl)	< 0.1 mg/L			0.00	100.0 *
10/24	1248	NTR	pH	6.6 S.U.			0.00	N/A *
10/25	1545	PJC	Solids, Total Dissolved	80.0 mg/L			1.98	N/A *
10/24	1248	NTR	Spec. Conductance @ 25 C	92.900 umho/c			0.33	N/A *
10/30	1230	PJC	Nitrate + Nitrite	6.32 mg/L			0.35	98.0 *
10/24	1246	NTR	Well Depth, Total	17.60 Feet			N/A	N/A
10/24	1246	NTR	Depth to Water	12.10 Feet			N/A	N/A

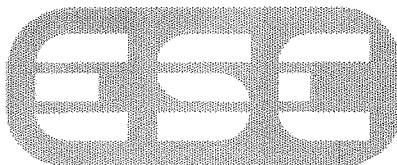
* QA data shown is from a different sample or standard on the same date.

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.

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 GW17						Permit/Project #: AR0048747				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TDS(27.), Chloride(7.)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NO2 +NO3(91.)</div> </div>												
Address: P.O. Box 277						Purchase Order #:																
Clinton, AR 72031						Work Order #																
Telephone: 501-745-4320						Sampler Name(s): Ned Ryerson																
Contact: Mr. Todd Burgess						and Signature(s): Ned Ryerson																
FAX: 501-745-2164																						
ESC Client Number: 649																						
Sample Identification		Sample Collection				Sample Containers																
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#													
Vell # 17	1910010354	10-24-09	1246	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X												
I	I	I	I	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 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: 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:						Analyst:	pH:	Time:	Analyst	Result	Result	Units										
						Time:	Sp Cond:	Time:	Analyst	Result	Result	Units										
						Reading:		Time:	Analyst	Result	Result	Units										
						Units:		Time:	Analyst	Result	Result	Units										
Total Depth-99.10:		17'6"																				
H2O Depth - 99.9:		13'1"																				
						Chlorinated? Y N	Fecal Start:			This Document is Page 1												

actions

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: _____ JOYCE _____

FAX#: _____ 501-221-1341 _____

FROM: _____ DONNA _____

PAGES INCLUDING COVER PAGE: _____ 1 _____

MESSAGE: Yearly Report 2019

East Plant: 72.864 mg, 201 inches, 2446.22 Acres

West Plant: No spray

Crops Grown: Bermuda Hay

East side Owners: Steve Bone + Will Dawson

West side Owners: Danny Boone + Roy Gray Jennings, Virginia Stevens

IF ALL PAGES ARE NOT RECEIVED PLEASE NOTIFY AT ONCE!