

Clinton Water & Sewer East Plant

Annual Report
Permit AR0048836 & 5130-WR-2
January 2020 – December 2020



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 5130-WR-2
Irrigation Water
Calendar Year 2020**

Parameter	Annual Concentration (mg/L)	2020 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
CBOD	< 2.0000	43.296	86.00	503,441.9	8.403	
Sodium Absorption Ratio	45.9537	43.296	86.00	503,441.9	193.071	
Fecal Coliform	< 4.1000	43.296	86.00	503,441.9	17.226	
Total Suspended Solids	2.5000	43.296	86.00	503,441.9	10.504	
Potassium	7.0090	43.296	86.00	503,441.9	29.448	
Total Phosphorus	0.2100	43.296	86.00	503,441.9	0.882	
Total Kjeldahl Nitrogen	11.6500	43.296	86.00	503,441.9	48.947	785.69
Ammonia Nitrogen	4.3400	43.296	86.00	503,441.9	18.234	207.95
Nitrate + Nitrite Nitrogen	2.0150	43.296	86.00	503,441.9	8.466	133.09
BOD-5	14.6600	43.296	86.00	503,441.9	61.593	1,366.03
Arsenic	< 0.0070	43.296	86.00	503,441.9	0.029	0.63
Cadmium	< 0.0064	43.296	86.00	503,441.9	0.027	0.31
Copper	< 0.0070	43.296	86.00	503,441.9	0.029	0.37
Lead	0.0090	43.296	86.00	503,441.9	0.038	0.77
Mercury	< 0.0010	43.296	86.00	503,441.9	0.004	0.11
Selenium	< 0.0109	43.296	86.00	503,441.9	0.046	0.86
Zinc	0.0656	43.296	86.00	503,441.9	0.275	5.63
Conductivity, minimum (mhos/cm)*	138.00					
Conductivity, maximum (mhos/cm)*	188.00					
pH, minimum (SU)*	7.20					
pH, maximum (SU)*	7.80					
Nitrogen Application Rate (lbs N/acre/year)	26.78					

*Current year values

Crop Grown: Bermuda Hay

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2020

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	2003010379							
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	03/23/20	4.13						
Ammonia Nitrogen	03/23/20	3.4430						
PAN	03/23/20	7.57						
Phosphorous	03/23/20	324.8410						
Potassium	03/23/20	102.39						
Arsenic	03/23/20	.914						
Cadmium	03/23/20	1.289						
Copper	03/23/20	1.454						
Lead	03/23/20	3.854						
Magnesium	03/23/20	87.37						
Mercury	03/23/20	.0190						
Nickel	03/23/20	3.303						
Zinc	03/23/20	5.937						
Conductivity (mhos/cm)	03/23/20	64.6						
pH (SU)	03/23/20	5.9						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2020

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	2003010380							
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	03/23/20	6.970						
Ammonia Nitrogen	03/23/20	2.01						
PAN	03/23/20	8.98						
Phosphorous	03/23/20	376.3550						
Potassium	03/23/20	127.94						
Arsenic	03/23/20	1.147						
Cadmium	03/23/20	.716						
Copper	03/23/20	1.410						
Lead	03/23/20	3.243						
Magnesium	03/23/20	127.79						
Mercury	03/23/20	.0250						
Nickel	03/23/20	3.701						
Zinc	03/23/20	7.688						
Conductivity (mhos/cm)	03/23/20	12.9						
pH (SU)	03/23/20	6.6						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2020

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	2003010381							
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	03/23/20	4.22						
Ammonia Nitrogen	03/23/20	< 0.0594						
PAN	03/23/20	4.22						
Phosphorous	03/23/20	337.094						
Potassium	03/23/20	114.34						
Arsenic	03/23/20	.748						
Cadmium	03/23/20	1.172						
Copper	03/23/20	1.267						
Lead	03/23/20	3.517						
Magnesium	03/23/20	78.31						
Mercury	03/23/20	< 0.0140						
Nickel	03/23/20	2.961						
Zinc	03/23/20	4.841						
Conductivity (mhos/cm)	03/23/20	28.70						
pH (SU)	03/23/20	5.7						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2020

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	2003010382							
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	03/23/20	0.553						
Ammonia Nitrogen	03/23/20	3.0480						
PAN	03/23/20	3.60						
Phosphorous	03/23/20	357.1110						
Potassium	03/23/20	109.69						
Arsenic	03/23/20	0.980						
Cadmium	03/23/20	0.900						
Copper	03/23/20	1.285						
Lead	03/23/20	3.196						
Magnesium	03/23/20	97.90						
Mercury	03/23/20	< 0.022						
Nickel	03/23/20	3.074						
Zinc	03/23/20	5.638						
Conductivity (mhos/cm)	03/23/20	15.2						
pH (SU)	03/23/20	5.80						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2020

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	2003010383							
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	03/23/20	0.709						
Ammonia Nitrogen	03/23/20	< 0.0591						
PAN	03/23/20	0.7						
Phosphorous	03/23/20	353.1870						
Potassium	03/23/20	69.99						
Arsenic	03/23/20	0.639						
Cadmium	03/23/20	0.831						
Copper	03/23/20	0.976						
Lead	03/23/20	2.577						
Magnesium	03/23/20	58.51						
Mercury	03/23/20	< 0.009						
Nickel	03/23/20	2.175						
Zinc	03/23/20	3.926						
Conductivity (mhos/cm)	03/23/20	28.100						
pH (SU)	03/23/20	5.7						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2020

Sample ID	Clinton East LA Airport 9							
Control Number	2003010384							
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	03/23/20	2.041						
Ammonia Nitrogen	03/23/20	1.29						
PAN	03/23/20	3.33						
Phosphorous	03/23/20	305.0440						
Potassium	03/23/20	132.43						
Arsenic	03/23/20	0.992						
Cadmium	03/23/20	0.941						
Copper	03/23/20	1.347						
Lead	03/23/20	3.149						
Magnesium	03/23/20	92.25						
Mercury	03/23/20	< 0.0100						
Nickel	03/23/20	3.196						
Zinc	03/23/20	4.523						
Conductivity (mhos/cm)	03/23/20	26.6						
pH (SU)	03/23/20	5.3						

Clinton Water and Sewer Department
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East WWTP - AR0048836
Soil
Calendar Year 2020

Sample ID	Clinton East LA WD 13							
Control Number	2003010385							
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	03/23/20	5.289						
Ammonia Nitrogen	03/23/20	2.2140						
PAN	03/23/20	7.5						
Phosphorous	03/23/20	337.6750						
Potassium	03/23/20	98.36						
Arsenic	03/23/20	0.884						
Cadmium	03/23/20	0.739						
Copper	03/23/20	1.003						
Lead	03/23/20	2.689						
Magnesium	03/23/20	74.44						
Mercury	03/23/20	< 0.009						
Nickel	03/23/20	2.596						
Zinc	03/23/20	4.032						
Conductivity (mhos/cm)	03/23/20	23.4						
pH (SU)	03/23/20	5.1						

Environmental Services Company, Inc.

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

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

Control Number: 2009010455
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 10/02/20

Sample Date : 09/24/20
Sample Time : 1328
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

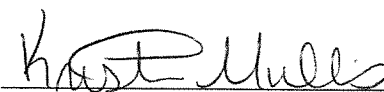
Collected By: NTR
Delivery By : NTR
Work Order :
Purchase Order :

<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>
09/25	0810	MRR	BOD, 5-day	18.70 mg/L			3.51	101.0 *
09/28	1310	BXW	Ammonia as N, (HACH/SM)	0.28 mg/L			3.79	107.0 *
09/29	1017	MRR	Total Kjeldahl Nitrogen	6.0 mg/L			0.84	107.0 *
09/24	1330	NTR	pH	7.2 S.U.			0.00	N/A *
09/29	1726	KNM	Copper	< 0.0070 mg/L			1.18	104.2 *
09/29	1726	KNM	Zinc	0.0915 mg/L			1.20	104.8 *
10/01	1350	KNM	Arsenic	< 0.0070 mg/L			0.60	113.8 *
10/01	1601	KNM	Selenium	< 0.0109 mg/L			1.85	121.0 *
09/24	1330	NTR	Spec. Conductance @ 25 C	164.100 umho/c			0.34	N/A *
09/24	1710	BXW	Fecal Coliform	12976.4 /100ml			0.00	N/A *
09/29	1726	KNM	Cadmium	< 0.0064 mg/L			0.30	101.4 *
09/25	1333	KNM	Mercury	< 0.0010 mg/L			9.73	82.6 *
09/29	1726	KNM	Lead	0.0064 mg/L			1.67	94.7 *
09/28	1441	MRR	Nitrate + Nitrite	3.16 mg/L			2.30	105.0 *

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

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

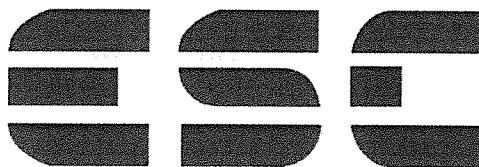
Signature



Environmental Services Co., Inc.

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Environmental Services Company, Inc.
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13715 West Markham P.O. Box 55146
Little Rock, AR 72211 Little Rock, AR 72215
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Springdale, Arkansas
479-750-1170

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					<div style="display: flex; flex-direction: column; align-items: center;"> <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): 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	2009010455	9-24-20	1328	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	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: (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:															
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>															
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:															
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	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), UU.MD		Analyst:		pH:		1330	NTL	7.2	7.2	S.U.													
		Time:		Conduct:		1330	NTL	164.1	164.2	UMHOS													
		Reading:																					
		Units:																					
											This Document is Page 1 of 1												

Environmental Services Company, Inc.

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

Control Number: 2010010320
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 08/02/22

Sample Date : 10/22/20
Sample Time : 1213
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
10/23	0645	KNM	BOD, 5-day	10.6 mg/L			13.57	87.0
10/26	1655	BXW	Ammonia as N, (HACH/SM)	8.40 mg/L			1.98	99.1 *
10/28	0905	KNM	Total Kjeldahl Nitrogen	17.3 mg/L			4.91	106.0
10/29	1254	KNM	Potassium	7.0090 mg/L			1.24	118.8
10/22	1214	NTR	pH	7.8 S.U.			0.00	N/A
10/27	1038	KNM	Copper	< 0.0070 mg/L			4.74	108.2
10/27	1038	KNM	Zinc	0.0396 mg/L			8.96	96.4
10/29	1254	KNM	Arsenic	< 0.0070 mg/L			2.04	97.5
10/29	1254	KNM	Selenium	< 0.0109 mg/L			3.48	96.1
10/22	1213	NTR	Spec. Conductance @ 25 C	265.000 umho/c			1.90	N/A
10/27	1038	KNM	Cadmium	< 0.00640 mg/L			0.86	107.4
10/29	1551	KNM	Mercury	< 0.0010 mg/L			12.26	122.0 *
10/29	1254	KNM	Lead	0.01150 mg/L			1.30	87.9
10/23	1430	EDA	Nitrate + Nitrite	0.87 mg/L			2.06	105.0
10/30	0800	KNM	Sodium Absorption Ratio	45.9537 Ratio				

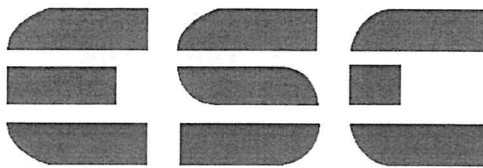
* QA data shown is from a different sample or standard on the same date.

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			<div>BOD(3.) NH3-N(15.A), NO3 + NO2(91.) TKN(16.C) Metals (See Comments)</div>								
Address:		P.O. Box 277 Clinton, AR 72031				Purchase Order #:													
Phone:		501-745-4320				Work Order #													
Fax:		501-745-2164				Sampler Name(s):		Ned Ryerson											
Contact:		Mr. Phil Graham				and Signature(s):		[Signature]											
ESC Client Number:		619																	
Sample Identification		Sample Collection				Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Irrigation Water	2010010320	10-22-20	1213	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X									
[Signature]	[Signature]	[Signature]	[Signature]	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X							
				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:											
								Used? [X] Intact? []											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:											
								Regular [X] Special []											
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:											
[Signature]		10-22-20	1710	Benjamin Way		10/22/20	1710	Yes [X] No []											
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), UU.MD						1214	NAL	7.8	7.8	S.U.									
						1214	NAL	26.5	26.0	U MHOS									
													This Document is Page 1 of 1						

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

Control Number: 2001010093
Customer Name : CLINTON, EAST 001
Customer/Permit No. : 495 / AR0048836 001
Report Date : 01/20/20

Composite Date:01/05/20 -01/06/20
Sample Time : 0800-0800
Sample Type : 24HRC
Sample From : FINAL EFFLUENT

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

Laboratory Analysis							Quality Assurance	
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>
01/09	0930	TCF	Phosphorous, Total (as P)	0.210 mg/L			0.49	96.9 *
01/17	1500	NTR	Nitrate + Nitrite	0.87 mg/L			0.41	98.9 *

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

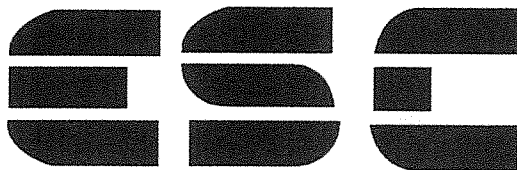
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of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

Signature


Environmental Services Co., Inc.




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Carlsbad, New Mexico
575-887-1ESC

CHAIN OF CUSTODY

Client Information						Project Information							Requested Parameters									
Client: Clinton, East 001						Permit/Project #: AR0048836							NO3+NO2(91), Total P(25)									
Address: P.O. Box 277 Clinton, AR 72031						Purchase Order #:																
Phone: 501-745-4320						Work Order #																
Fax: 501-745-2164						Sampler Name(s): Josh Miller																
Contact: Mr. Phil Graham						and Signature(s): [Signature]																
ESC Client Number: 495 (3X per week)																						
Sample Identification				Sample Collection				Sample Containers														
Identification		ESC Control #		Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Final Effluent		2001010093		11/5/25	0800	24Hr. Comp	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 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: (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"/>										
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"/>										
Comments:						Flow Data		Field Test		Time	Analyst	Result	Result	Units								
						Analyst:		Grab pH:						S.U.								
						Time:		Grab DO:						mg/L								
						Reading:																
						Units:		E Coli Start														
								Fecal Start:				This Document is Page 1 of 1										

Environmental Services Company, Inc.

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Control Number: 2001010090
Customer Name : CLINTON, EAST 001
Customer/Permit No. : 495 / AR0048836 001
Report Date : 01/24/20

Composite Date:01/05/20 -01/06/20
Sample Time : 0800-0800/1244(1-6)
Sample Type : 24HRC/GRAB WWATER
Sample From : FINAL EFFLUENT

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
01/06	1252	JJM	Dissolved Oxygen	10.30 mg/L		96.13 #/day	0.00	N/A *
01/09	1100	TCF	Ammonia as N, (HACH/SM)	4.67 mg/L		43.59 #/day	2.85	101.4 *
01/06	1252	JJM	pH	7.4 S.U.			0.00	N/A *
01/07	0800	PJC	Solids, Total Suspended	< 2.50 mg/L		23.33 #/day	2.25	N/A *
01/06	1600	HMK	E. Coliforms	3.1 /100ml			0.00	N/A
01/06	1600	HMK	Fecal Coliform	4.1 /100ml			0.00	N/A *
01/20	1029	NTR	Cadmium	< 0.10 ug/L		0.00 #/day	2.24	86.6 *
01/08	0730	DWC	BOD, Carbonaceous	< 2.00 mg/L		18.67 #/day	5.03	102.4 *
01/16	1100	PJC	Mercury, ug/L	< 1.00000 ug/L		0.01 #/day	2.20	98.0
Flow				1.120000	MGD			

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Signature


Environmental Services Co., Inc.

752

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 001				Permit/Project #: AR0048836				CBOD(70.), TSS(28.) NH3-N(15.A), NO3+NO2(91), TotalP(25) Fecal Coliform (43.IF), E. Coli(43.IE)												
Address: P.O. Box 277				Purchase Order #:																
Clinton, AR 72031				Work Order #																
Phone: 501-745-4320				Sampler Name(s): Josh Miller																
Fax: 501-745-2164				and Signature(s): Josh Miller																
Contact: Mr. Phil Graham																				
ESC Client Number: 495																				
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Final Effluent	2001010090	5/6/20	0800	24Hr. Comp	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X										
	↓	↓	↓	24Hr. Comp	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1	X										
	↓	5/6/20	1244	Grab	Wwater	Plastic	100mls	Cool <10° C, Na2S2O3	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"/>										
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"/>										
Comments:				Flow Data		Field Test		Time	Analyst	Result	Result	Units								
				Analyst: JSM		Grab pH:		1252	JSM	7.4		S.U.								
				Time: 1246		Grab DO:		1292	JSM	10.3		mg/L								
				Reading: 1.12		E Coli Start		1600	HMK											
				Units: MGD		Fecal Start:		1600	HMK											

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Control Number: 2003010379
Customer Name : CLINTON, EAST 40.24 LA PB 3
Customer Number : 3004
Report Date : 04/13/20

Sample Date : 03/23/20
Sample Time : 1050
Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB3

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
03/24	0845	NTR	Ammonia Nitrogen	3.4430 mg/kg		SM 1997 4500-NH3 C	0.56	100.6
04/10	1524	KNM	Mercury	0.0190 mg/Kg		SW-846 7474 02/07	8.38	88.6
03/24	0630	NTR	Nitrate Nitrogen	4.130 mg/kg		SM 2000 4500-NO3 E	1.75	100.2
03/24	1250	NTR	Phosphorous, Total (as P)	324.8410 mg/kg		EPA 365.3	0.12	99.0
04/02	2226	KNM	Magnesium	87.37 mg/Kg		SW-846 6020A	7.68	102.4
04/02	2226	KNM	Potassium	102.39 mg/Kg		SW-846 6020A	6.77	110.7
03/31	1536	KNM	pH Soil	5.90 S.U.		SW846 9045C	1.68	N/A
04/02	2226	KNM	Nickel	3.303 mg/Kg		SW-846 6020A	0.88	98.5
04/02	2226	KNM	Copper	1.454 mg/Kg		SW-846 6020A	0.93	98.2
04/02	2226	KNM	Zinc	5.937 mg/Kg		SW-846 6020A	0.89	103.0
03/24	0800	NTR	Nitrogen, Plant Available	7.57 mg/kg		33 MSA 2nd Ed		
04/02	2226	KNM	Arsenic	0.914 mg/Kg		SW-846 6020A	1.70	106.1
03/24	1135	NTR	Specific Conductance	64.6000 umhos		EPA (MOD)9050A	0.47	N/A
04/02	2226	KNM	Cadmium	1.289 mg/Kg		SW-846 6020A	1.46	98.7
03/25	0945	KNM	Solids, % Total	79.885 %		SM 1997 2540 G	0.49	N/A *
04/02	2226	KNM	Lead	3.854 mg/Kg		SW-846 6020A	0.58	98.5

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Control Number: 2003010380
Customer Name : CLINTON, EAST 40.24 LA PB 30
Customer Number : 3003
Report Date : 04/13/20

Sample Date : 03/23/20
Sample Time : 1105
Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB30

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
03/24	0845	NTR	Ammonia Nitrogen	2.0100 mg/kg		SM 1997 4500-NH3 C	0.56	100.6 *
04/10	1524	KNM	Mercury	0.0250 mg/Kg		SW-846 7474 02/07	8.38	88.6 *
03/24	0630	NTR	Nitrate Nitrogen	6.970 mg/kg		SM 2000 4500-NO3 E	1.75	100.2 *
03/24	1250	NTR	Phosphorous, Total (as P)	376.3550 mg/kg		EPA 365.3	0.12	99.0 *
04/02	2258	KNM	Magnesium	127.79 mg/Kg		SW-846 6020A	7.68	102.4 *
04/02	2258	KNM	Potassium	127.94 mg/Kg		SW-846 6020A	6.77	110.7 *
03/31	1539	KNM	pH Soil	6.60 S.U.		SW846 9045C	1.68	N/A *
04/02	2258	KNM	Nickel	3.701 mg/Kg		SW-846 6020A	0.88	98.5 *
04/02	2258	KNM	Copper	1.410 mg/Kg		SW-846 6020A	0.93	98.2 *
04/02	2258	KNM	Zinc	7.688 mg/Kg		SW-846 6020A	0.89	103.0 *
03/25	0800	NTR	Nitrogen, Plant Available	8.98 mg/kg		33 MSA 2nd Ed		
04/02	2258	KNM	Arsenic	1.147 mg/Kg		SW-846 6020A	1.70	106.1 *
03/24	1135	NTR	Specific Conductance	12.9000 umhos		EPA (MOD)9050A	0.47	N/A *
04/02	2258	KNM	Cadmium	0.716 mg/Kg		SW-846 6020A	1.46	98.7 *
03/25	0945	KNM	Solids, % Total	79.579 %		SM 1997 2540 G	0.49	N/A *
04/02	2258	KNM	Lead	3.243 mg/Kg		SW-846 6020A	0.58	98.5 *

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Control Number: 2003010381
Customer Name : CLINTON, EAST 55.57 LA PB 10
Customer/Permit No. : 511 / AR0048836 001
Report Date : 04/13/20

Sample Date : 03/23/20
Sample Time : 1120
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB10

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
03/24	0845	NTR	Ammonia Nitrogen	< 0.0594 mg/kg			SM 1997 4500-NH3 C	0.56	100.6 *
04/10	1524	KNM	Mercury	< 0.0140 mg/Kg			SW-846 7474 02/07	8.38	88.6 *
03/24	0630	NTR	Nitrate Nitrogen	4.220 mg/kg			SM 2000 4500-NO3 E	1.75	100.2 *
03/24	1250	NTR	Phosphorous, Total (as P)	337.0940 mg/kg			EPA 365.3	0.12	99.0 *
04/02	2309	KNM	Magnesium	78.31 mg/Kg			SW-846 6020A	7.68	102.4 *
04/02	2309	KNM	Potassium	114.34 mg/Kg			SW-846 6020A	6.77	110.7 *
03/31	1540	KNM	pH Soil	5.70 S.U.			SW846 9045C	1.68	N/A *
04/02	2309	KNM	Nickel	2.961 mg/Kg			SW-846 6020A	0.88	98.5 *
04/02	2309	KNM	Copper	1.267 mg/Kg			SW-846 6020A	0.93	98.2 *
04/02	2309	KNM	Zinc	4.841 mg/Kg			SW-846 6020A	0.89	103.0 *
03/25	0800	NTR	Nitogen, Plant Available	4.22 mg/kg			33 MSA 2nd Ed		
04/02	2309	KNM	Arsenic	0.748 mg/Kg			SW-846 6020A	1.70	106.1 *
03/24	1135	NTR	Specifcic Conductance	28.7000 umhos			EPA (MOD)9050A	0.47	N/A *
04/02	2309	KNM	Cadmium	1.172 mg/Kg			SW-846 6020A	1.46	98.7 *
03/25	0945	KNM	Solids, % Total	84.101 %			SM 1997 2540 G	0.49	N/A *
04/02	2309	KNM	Lead	3.517 mg/Kg			SW-846 6020A	0.58	98.5 *

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Control Number: 2003010382
Customer Name : CLINTON, EAST 55.57 LA PB 3
Customer Number : 3002
Report Date : 04/13/20

Sample Date : 03/23/20
Sample Time : 1140
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB3

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
03/24	0845	NTR	Ammonia Nitrogen	3.0480 mg/kg		SM 1997 4500-NH3 C	0.56	100.6 *
04/10	1524	KNM	Mercury	< 0.0220 mg/Kg		SW-846 7474 02/07	8.38	88.6 *
03/24	0630	NTR	Nitrate Nitrogen	0.553 mg/kg		SM 2000 4500-NO3 E	1.75	100.2 *
03/24	1250	NTR	Phosphorous, Total (as P)	357.1110 mg/kg		EPA 365.3	0.12	99.0 *
04/02	2320	KNM	Magnesium	97.90 mg/Kg		SW-846 6020A	7.68	102.4 *
04/02	2320	KNM	Potassium	109.69 mg/Kg		SW-846 6020A	6.77	110.7 *
03/31	1542	KNM	pH Soil	5.80 S.U.		SW846 9045C	1.68	N/A *
04/02	2320	KNM	Nickel	3.074 mg/Kg		SW-846 6020A	0.88	98.5 *
04/02	2320	KNM	Copper	1.285 mg/Kg		SW-846 6020A	0.93	98.2 *
04/02	2320	KNM	Zinc	5.638 mg/Kg		SW-846 6020A	0.89	103.0 *
03/25	0800	NTR	Nitrogen, Plant Available	3.60 mg/kg		33 MSA 2nd Ed		
04/02	2320	KNM	Arsenic	0.980 mg/Kg		SW-846 6020A	1.70	106.1 *
03/24	1135	NTR	Specific Conductance	15.2000 umhos		EPA (MOD)9050A	0.47	N/A *
04/02	2320	KNM	Cadmium	0.900 mg/Kg		SW-846 6020A	1.46	98.7 *
03/25	0945	KNM	Solids, % Total	80.367 %		SM 1997 2540 G	0.49	N/A *
04/02	2320	KNM	Lead	3.196 mg/Kg		SW-846 6020A	0.58	98.5 *

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Control Number: 2003010383
Customer Name : CLINTON, EAST 55.57 LA PB 30
Customer Number : 3001
Report Date : 04/13/20

Sample Date : 03/23/20
Sample Time : 1150
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB30

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
03/24	0845	NTR	Ammonia Nitrogen	< 0.0591 mg/kg		SM 1997 4500-NH3 C	0.56	100.6 *
04/10	1524	KNM	Mercury	< 0.0090 mg/Kg		SW-846 7474 02/07	8.38	88.6 *
03/24	0630	NTR	Nitrate Nitrogen	0.709 mg/kg		SM 2000 4500-NO3 E	1.75	100.2 *
03/24	1250	NTR	Phosphorous, Total (as P)	353.1870 mg/kg		EPA 365.3	0.12	99.0 *
04/02	2331	KNM	Magnesium	58.51 mg/Kg		SW-846 6020A	7.68	102.4 *
04/02	2331	KNM	Potassium	69.99 mg/Kg		SW-846 6020A	6.77	110.7 *
03/31	1543	KNM	pH Soil	5.70 S.U.		SW846 9045C	1.68	N/A *
04/02	2331	KNM	Nickel	2.175 mg/Kg		SW-846 6020A	0.88	98.5 *
04/02	2331	KNM	Copper	0.976 mg/Kg		SW-846 6020A	0.93	98.2 *
04/02	2331	KNM	Zinc	3.926 mg/Kg		SW-846 6020A	0.89	103.0 *
03/25	0800	NTR	Nitrogen, Plant Available	0.70 mg/kg		33 MSA 2nd Ed		
04/02	2331	KNM	Arsenic	0.639 mg/Kg		SW-846 6020A	1.70	106.1 *
03/24	1135	NTR	Specific Conductance	28.1000 umhos		EPA (MOD)9050A	0.47	N/A *
04/02	2331	KNM	Cadmium	0.831 mg/Kg		SW-846 6020A	1.46	98.7 *
03/25	0945	KNM	Solids, % Total	84.516 %		SM 1997 2540 G	0.49	N/A *
04/02	2331	KNM	Lead	2.577 mg/Kg		SW-846 6020A	0.58	98.5 *

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Control Number: 2003010384

Customer Name : CLINTON, EAST LA AIRPORT9

Customer Number : 2959

Report Date : 04/13/20

Sample Date : 03/23/20

Sample Time : 1200

Sample Type : GRAB SOIL

Sample From : EAST LA AIRPORTS

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
03/24	0845	NTR	Ammonia Nitrogen	1.2990 mg/kg			SM 1997 4500-NH3 C	0.56	100.6 *
04/10	1524	KNM	Mercury	< 0.0100 mg/Kg			SW-846 7474 02/07	8.38	88.6 *
03/24	0630	NTR	Nitrate Nitrogen	2.041 mg/kg			SM 2000 4500-NO3 E	1.75	100.2 *
03/24	1250	NTR	Phosphorous, Total (as P)	305.0440 mg/kg			EPA 365.3	0.12	99.0 *
04/02	2341	KNM	Magnesium	92.25 mg/Kg			SW-846 6020A	7.68	102.4 *
04/02	2341	KNM	Potassium	132.43 mg/Kg			SW-846 6020A	6.77	110.7 *
03/31	1544	KNM	pH Soil	5.30 S.U.			SW846 9045C	1.68	N/A *
04/02	2341	KNM	Nickel	3.196 mg/Kg			SW-846 6020A	0.88	98.5 *
04/02	2341	KNM	Copper	1.347 mg/Kg			SW-846 6020A	0.93	98.2 *
04/02	2341	KNM	Zinc	4.523 mg/Kg			SW-846 6020A	0.89	103.0 *
03/25	0800	NTR	Nitogen, Plant Available	3.33 mg/kg			33 MSA 2nd Ed		
04/02	2341	KNM	Arsenic	0.992 mg/Kg			SW-846 6020A	1.70	106.1 *
03/24	1135	NTR	Specific Conductance	26.6000 umhos			EPA (MOD)9050A	0.47	N/A *
04/02	2341	KNM	Cadmium	0.941 mg/Kg			SW-846 6020A	1.46	98.7 *
03/25	0945	KNM	Solids, % Total	80.808 %			SM 1997 2540 G	0.49	N/A *
04/02	2341	KNM	Lead	3.149 mg/Kg			SW-846 6020A	0.58	98.5 *

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Control Number: 2003010385

Customer Name : CLINTON, EAST LA WD13

Customer Number : 2960

Report Date : 04/13/20

Sample Date : 03/23/20

Sample Time : 1225

Sample Type : GRAB SOIL

Sample From : EAST LA WD13

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
03/24	0845	NTR	Ammonia Nitrogen	2.2140 mg/kg			SM 1997 4500-NH3 C	0.56	100.6 *
04/10	1524	KNM	Mercury	< 0.0090 mg/Kg			SW-846 7474 02/07	8.38	88.6 *
03/24	0630	NTR	Nitrate Nitrogen	5.289 mg/kg			SM 2000 4500-NO3 E	1.75	100.2 *
03/24	1250	NTR	Phosphorous, Total (as P)	337.6750 mg/kg			EPA 365.3	0.12	99.0 *
04/02	2352	KNM	Magnesium	74.44 mg/Kg			SW-846 6020A	7.68	102.4 *
04/02	2352	KNM	Potassium	98.36 mg/Kg			SW-846 6020A	6.77	110.7 *
03/31	1545	KNM	pH Soil	5.10 S.U.			SW846 9045C	1.68	N/A *
04/02	2352	KNM	Nickel	2.596 mg/Kg			SW-846 6020A	0.88	98.5 *
04/02	2352	KNM	Copper	1.003 mg/Kg			SW-846 6020A	0.93	98.2 *
04/02	2352	KNM	Zinc	4.032 mg/Kg			SW-846 6020A	0.89	103.0 *
03/25	0800	NTR	Nitrogen, Plant Available	7.50 mg/kg			33 MSA 2nd Ed		
04/02	2352	KNM	Arsenic	0.884 mg/Kg			SW-846 6020A	1.70	106.1 *
03/24	1135	NTR	Specific Conductance	23.4000 umhos			EPA (MOD)9050A	0.47	N/A *
04/02	2352	KNM	Cadmium	0.739 mg/Kg			SW-846 6020A	1.46	98.7 *
03/25	0945	KNM	Solids, % Total	81.291 %			SM 1997 2540 G	0.49	N/A *
04/02	2352	KNM	Lead	2.689 mg/Kg			SW-846 6020A	0.58	98.5 *

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

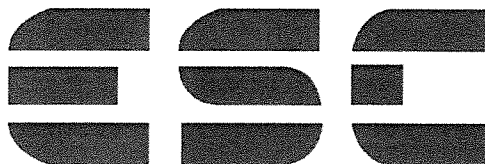
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of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

Signature


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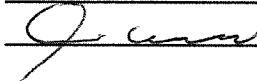
KNM

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 style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals (See Comments)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Nitrate Nitrogen(01.3), Phos(01.9)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Soil pH(23.S), Spec Cond(35.M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Ammonia(01.1), PAN(33.AN)</div> </div>									
Address:		P.O. Box 277				Purchase Order #:														
		Clinton, AR 72031				Work Order #														
Phone:		501-745-4320				Sampler Name(s): J. Kromschid														
Fax:		Mr. Phil Graham																		
Contact:		501-745-2164				and Signature(s): 														
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)	2003010379	3/23/20	1050	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 40.24 PB30 (3003)	2003010380	3/23/20	1105	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB10 (511)	2003010381	3/23/20	1120	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB3 (3002)	2003010382	3/23/20	1140	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB30 (3001)	2003010383	3/23/20	1150	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA Airport9 (2959)	2003010384	3/23/20	1200	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA WD13 (2960)	2003010385	3/23/20	1225	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:										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)				Date	Time	Used? <input 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:										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)				Date	Time	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:										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)				Date	Time	Yes <input type="checkbox"/> No <input type="checkbox"/>										
Comments: Hg(01.14), Mn(12.HS), K(19.HS), Ni(28.HS), Cu(29.HS), Zn(30.HS) As(33.HS), Cd(48.HS), Pb(82.HS), 00.MS						Flow Data		Field Test	Time	Analyst	Result	Result	Units							
						Analyst:														
						Time:														
						Reading:														
						Units:														
						Fecal Start:														

Environmental Services Company, Inc.

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

Control Number: 2003010539
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 04/02/20

Sample Date : 03/23/20
Sample Time : 1130
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
04/01	0915	DWC	Chloride (as Cl)	20.0 mg/L			0.00	93.0 *
03/23	1130	JGK	pH	6.5 S.U.			0.00	N/A *
03/27	1030	NTR	Solids, Total Dissolved	258.0 mg/L			0.34	N/A *
03/23	1135	JGK	Spec. Conductance @ 25 C	238.000 umho/c			0.42	N/A
03/23	1135	JGK	Temperature	14.60 °C			0.00	N/A
03/25	1450	KNM	Nitrate + Nitrite	0.16 mg/L			4.20	99.8 *
03/23	1130	JGK	Well Depth, Total	15.40 Feet			N/A	N/A
03/23	1130	JGK	Depth to Water	5.60 Feet			N/A	N/A

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

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Signature


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

Control Number: 2003010540
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 04/02/20

Sample Date : 03/23/20
Sample Time : 1115
Sample Type : GRAB WWATER
Sample From : WELL 14

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

Analysis							Quality Assurance		
<u>Laboratory Analysis</u>							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>
04/01	0915	DWC	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	93.0 *
03/23	1115	JGK	pH	6.6 S.U.			SM 2011 4500-H+B	0.00	N/A *
03/27	1030	NTR	Solids, Total Dissolved	110.0 mg/L			SM1997 2540 C	0.34	N/A *
03/23	1120	JGK	Spec. Conductance @ 25 C	99.900 umho/c			SM1997 2510B	0.42	N/A *
03/23	1120	JGK	Temperature	14.70 °C			SM 2000 2550 B	0.00	N/A *
03/25	1450	KNM	Nitrate + Nitrite	4.51 mg/L			HACH 10206	4.20	99.8 *
03/23	1115	JGK	Well Depth, Total	13.10 Feet				N/A	N/A
03/23	1115	JGK	Depth to Water	4.10 Feet				N/A	N/A

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

Control Number: 2003010542
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 04/13/20

Sample Date : 03/23/20
Sample Time : 1020
Sample Type : GRAB WWATER
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
04/01	0915	DWC	Chloride (as Cl)	< 0.1 mg/L			0.00	93.0 *
03/23	1020	JGK	pH	6.1 S.U.			0.00	N/A *
03/27	1030	NTR	Solids, Total Dissolved	142.0 mg/L			0.34	N/A *
03/23	1025	JGK	Spec. Conductance @ 25 C	76.600 umho/c			0.42	N/A *
03/23	1025	JGK	Temperature	15.20 °C			0.00	N/A *
03/25	1450	KNM	Nitrate + Nitrite	6.46 mg/L			4.20	99.8 *
03/23	1020	JGK	Well Depth, Total	17.60 Feet			N/A	N/A
03/23	1020	JGK	Depth to Water	7.20 Feet			N/A	N/A

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Signature


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Sample Date: 3/23/20

Relinquished by: <i>G. K. J. Kwonchik</i>	Time: <i>1415</i>	Received By Lab: <i>Rand Pittman</i>	Date: <i>3/23/20</i>	Time: <i>1415</i>
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Comments:

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Control Number: 2009010451
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 09/30/20

Sample Date : 09/24/20
Sample Time : 1449
Sample Type : GRAB WATER
Sample From : #13 (507)

Collected By: NTR
Delivery By : NTR
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>
09/25	1446	MRR	Chloride (as Cl)	29.9 mg/L			0.00	99.9 *
09/24	1450	NTR	pH	6.2 S.U.			0.00	N/A
09/28	1439	BXW	Solids, Total Dissolved	< 2.5 mg/L			0.00	N/A *
09/24	1450	NTR	Spec. Conductance @ 25 C	145.400 umho/c			0.57	N/A *
09/24	1450	NTR	Temperature	18.50 °C			0.00	N/A
09/28	1441	MRR	Nitrate + Nitrite	1.91 mg/L			2.30	105.0 *
09/24	1449	NTR	Well Depth, Total	15.33 Feet			N/A	N/A
09/24	1411	NTR	Depth to Water	9.33 Feet			N/A	N/A

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Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
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Control Number: 2009010452
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 09/30/20

Sample Date : 09/24/20
Sample Time : 1411
Sample Type : GRAB WATER
Sample From : #14 (508)

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
09/25	1446	MRR	Chloride (as Cl)	9.9 mg/L			0.00	99.9 *
09/24	1413	NTR	pH	6.3 S.U.			0.00	N/A *
09/28	1439	BXW	Solids, Total Dissolved	150.0 mg/L			0.00	N/A *
09/24	1413	NTR	Spec. Conductance @ 25 C	119.600 umho/c			0.34	N/A
09/24	1413	NTR	Temperature	18.90 °C			0.00	N/A *
09/28	1441	MRR	Nitrate + Nitrite	1.20 mg/L			2.30	105.0 *
09/24	1411	NTR	Well Depth, Total	13.08 Feet			N/A	N/A
09/24	1411	NTR	Depth to Water	8.25 Feet			N/A	N/A

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1107 Century Avenue
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Control Number: 2009010453
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 09/29/20

Sample Date : 09/24/20
Sample Time : 1347
Sample Type : GRAB WATER
Sample From : #16 (509)

Collected By: NTR
Delivery By : NTR
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>
09/24	1347	NTR	Dry Well	0.00			N/A	N/A
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Signature



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Springdale, AR 72762
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Control Number: 2009010454
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 10/05/20

Sample Date : 09/24/20
Sample Time : 1352
Sample Type : GRAB WATER
Sample From : #17 (649)

Collected By: NTR
Delivery By : NTR
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>
09/25	1446	MRR	Chloride (as Cl)	< 0.1 mg/L			0.00	99.9
09/24	1353	NTR	pH	6.1 S.U.			0.00	N/A *
10/01	0825	KNM	Solids, Total Dissolved	191.6 mg/L			0.00	N/A *
09/24	1353	NTR	Spec. Conductance @ 25 C	76.300 umho/c			0.34	N/A *
09/24	1353	NTR	Temperature	19.30 °C			0.00	N/A *
09/28	1441	MRR	Nitrate + Nitrite	6.02 mg/L			2.30	105.0 *
09/24	1352	NTR	Well Depth, Total	17.50 Feet			N/A	N/A
09/24	1352	NTR	Depth to Water	12.38 Feet			N/A	N/A

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Signature


Environmental Services Co., Inc.

24



Sampler Name(s): Ned Ryerson
and Signature: Ned Ryerson

Sample Date: 9-24-2020

Relinquished by: <u>Ned Ryers - Ned Ryers</u>	Time:	Received By Lab: <u>[Signature] Ben Wong</u>	Date: <u>7/24/70</u>	Time: <u>1645</u>
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Comments:

Environmental Services Company, Inc.

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

Control Number: 2010010322
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 10/30/20

Sample Date : 10/22/20
Sample Time : 1307
Sample Type : GRAB WATER
Sample From : 13 (507)

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
10/29	1450	BXW	Chloride (as Cl)	10.0 mg/L			0.00	90.0
10/22	1307	NTR	pH	6.2 S.U.			0.00	N/A *
10/23	1530	EDA	Solids, Total Dissolved	80.0 mg/L			4.45	N/A *
10/22	1307	NTR	Spec. Conductance @ 25 C	188.400 umho/c			1.90	N/A *
10/23	1430	EDA	Nitrate + Nitrite	1.12 mg/L			2.06	105.0 *
10/22	1307	NTR	Well Depth, Total	15.33 Feet			N/A	N/A
10/22	1307	NTR	Depth to Water	8.13 Feet			N/A	N/A

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Signature


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Springdale, AR 72762
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Control Number: 2010010323
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 10/30/20

Sample Date : 10/22/20
Sample Time : 1250
Sample Type : GRAB WATER
Sample From : 14 (508)

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

Laboratory Analysis

Analysis							Precision	Accuracy	
Date	Time	By	Parameter	Result	Notes	Quantity	Method	% RPD	% Recovery
10/29	1450	BXW	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	90.0 *
10/22	1250	NTR	pH	5.8 S.U.			SM 2011 4500-H+B	0.00	N/A *
10/23	1530	EDA	Solids, Total Dissolved	< 2.5 mg/L			SM1997 2540 C	4.45	N/A *
10/22	1250	NTR	Spec. Conductance @ 25 C	129.200 umho/c			SM1997 2510B	1.90	N/A *
10/23	1430	EDA	Nitrate + Nitrite	< 0.23 mg/L			HACH 10206	2.06	105.0 *
10/22	1250	NTR	Well Depth, Total	13.08 Feet				N/A	N/A
10/22	1250	NTR	Depth to Water	9.66 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.

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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: 2010010324
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 10/26/20

Sample Date : 10/22/20
Sample Time : NA
Sample Type : GRAB WATER
Sample From : 16 DRY WELL

Collected By: NTR
Delivery By : NTR
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>
10/22	1200	NTR	Dry Well	0.00				N/A	N/A

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

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Signature


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Corporate Office
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Little Rock, AR 72211
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Control Number: 2010010325
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 10/30/20

Sample Date : 10/22/20
Sample Time : 1236
Sample Type : GRAB WATER
Sample From : 17 (649)

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

Laboratory Analysis

Analysis							<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>Precision</u>	<u>Accuracy</u>
							<u>% RPD</u>	<u>% Recovery</u>
10/29	1450	BXW	Chloride (as Cl)	10.0 mg/L			0.00	90.0 *
10/22	1236	NTR	pH	5.5 S.U.			0.00	N/A *
10/23	1530	EDA	Solids, Total Dissolved	146.7 mg/L			4.45	N/A *
10/22	1236	NTR	Spec. Conductance @ 25 C	93.900 umho/c			1.90	N/A *
10/23	1430	EDA	Nitrate + Nitrite	5.86 mg/L			2.06	105.0 *
10/22	1236	NTR	Well Depth, Total	17.50 Feet			N/A	N/A
10/22	1236	NTR	Depth to Water	12.58 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.

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Sampler Name(s): Ned Kyerson
and Signature: Ned Kyerson

Sample Date: October 22, 2020

Relinquished by: <i>Reddy -</i>	Time: <i>1710</i>	Received By Lab: <i>Joseph Benjamin</i>	Date: <i>10/22/20</i>	Time: <i>1710</i>
Comments:				

page 1 of 1

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 2020East Plant: 43.296 mg 123 inches 1437.28 AcresWest Plant: No SprayCrops Grown: Bermuda HayEast Plant Owners : Steve Bone + Will DawsonWest Plant Owners : Danny Boone, Roy Gray Jennings, Virginia Stevens

IF ALL PAGES ARE NOT RECEIVED PLEASE NOTIFY AT ONCE!