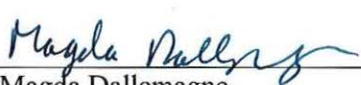


**Region 6 Compliance Assurance and Enforcement Division
INSPECTION REPORT**

Inspection Date(s):	October 19, 2018		
Media:	Water		
Regulatory Program(s)	CWA		
Company Name:	Sierra County Regional Wastewater Treatment Plant		
Facility Name:	Sierra County Regional Wastewater Treatment Plant		
Facility Physical Location:	1001 Sunset Ridge		
(city, state, zip code)	Sierra County, NM 87935		
Mailing address:	P.O. Box 1080		
(city, state, zip code)	Elephant Butte, NM 87935		
County/Parish:	Sierra County		
Facility Contact:	David DuVall	City Manager	
	citymanager@cityofelephantbutte.com		
FRS Number:	110064634560		
Identification/Permit Number:	NM0030864		
Media Number:	N/A		
NAICS:	221320, 541380		
SIC:	4952, 8734		
Personnel participating in inspection:			
Brian Bulage	City of Elephant Butte	City Maintenance Supervisor	575-740-8575
Takoda NewBerry	City of Elephant Butte	City Maintenance Assistant	575-371-3843
Marcus Ortega	City of Elephant Butte	Laboratory Technician	575-740-9211
Paul Chavez	New Mexico Rural Water Association	Wastewater Technician	505-884-1031
Jennifer Foote	NMED	Industrial and Stormwater Team Supervisor	505-827-0596
Magda Dallemagne	USEPA	Inspector (Lead)	214-665-7396
Amy Andrews	USEPA	Inspector	214-907-0638
EPA Lead Inspector Signature/Date	 Magda Dallemagne		12/14/2018 Date
Supervisor Signature/Date	 Robert Houston		12/13/2018 Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

Environmental Protection Agency (EPA) Region 6 inspectors Magda Dallemagne and Amy Andrews arrived at the Sierra County Regional Wastewater Treatment Plant (WWTP) (the Facility) at 10:05 am MNT on October 19, 2018, for an unannounced inspection. We met with Brian Bulage, City Maintenance Supervisor, and Takoda Newberry, City Maintenance Assistant. I presented my credentials to Mr. Bulage and informed him that this was an EPA inspection to determine the Facility's compliance with their National Pollution Discharge Elimination System (NPDES) permit and the Clean Water Act (CWA). The scope of the inspection is to evaluate the compliance of the facility's laboratory and sampling with NPDES operating permits. The Facility's laboratory personnel, Marcus Ortega, Laboratory Technician (full time), and an employee of the New Mexico Rural Water Association Paul Chavez, Wastewater Technician (part time, as needed), were not available at the time of inspection. A conference call was held between the two laboratory personnel and myself at 9am CST on December 3, 2018. The inspection was conducted under the authority of the NPDES permit program, in accordance with the CWA. Samples were collected by the New Mexico Environment Department (NMED), in accordance with the NMED's Quality Assurance Plan, of the Facility's effluent and influent. This report is based on information supplied by facility representatives, observations made by the EPA inspectors, and records and reports maintained by the facility and the EPA.

FACILITY DESCRIPTION

The Facility is not accredited under National or Private programs. The laboratory has one (1) laboratory technician undergoing training from an employee of the New Mexico Rural Water Association to receive his first and subsequent wastewater certifications from the State of New Mexico. The employee of the New Mexico Rural Water Association provides training and onsite technical assistance part time, as needed. The laboratory performs pH and Fecal Coliform (*E. coli*) testing under their NPDES operating permit. The remaining required testing is sampled on site and sent to a contract laboratory, Aqua Environmental Testing Laboratory, in Las Cruces, New Mexico, to satisfy the permit requirements.

Section II - OBSERVATIONS

The inspectors reviewed the equipment and instrumentation available during the on-site inspection and took Total Residual Chlorine (TRC), Total Suspended Solids (TSS), Total Coliform (TC) / *E. coli* samples, including duplicates and blanks, from the effluent and TSS samples from the influent. Further discussion detailed the processes for testing and sampling per their NPDES permit during the conference call.

The following observations were made.

1. The expiration dates on the liquid reagents and standards did not meet the general one (1) year after opening, or stamped manufacturer's expiration if it occurs first, parameter. Some reagents housed in the laboratory were expired per this rule as well as the manufacturer's expiration.
2. No standard operating procedures (SOP) are available at the facility.
3. The main laboratory technician has been working at the facility for eight (8) months and is not a certified laboratory or wastewater technician. The certification program requires a minimum of one (1) year experience before certification at the Wastewater Level 1, and the technician is supervised and undergoing training part time and as needed by a third party with a Wastewater Level 4 certification.
4. The bench sheets showed corrections made with white out instead of the cross out, initial, and date method. Bench sheets also have a former employee listed as the analyst. This employee left the facility several months ago.
5. The control panel at the effluent site was reading that it was at failure. Please see Picture 5 in Appendix 1.
6. During sampling, the effluent was visibly brown with high turbidity. Particulates could be seen collected around the bottom of the finger weirs as well as on the surface of the effluent. Please see Pictures 2-4 in Appendix 1.
7. Not all the documents requested during the inspection were received, for example the bench sheets for the previous three (3) months.
8. The facility has not reported Discharge Monitoring Reports (DMR) for the months of July, August, September, and October of 2018.
9. The results from the samples collected by NMED at time of inspection are shown below in Table I and Table II. The results provided by the facility differ greatly from the results obtained during this inspection. Please see Picture 1 in Appendix 1.

Table 1: Total Suspended Solids and Total Residual Chlorine Results, Sierra County Regional WWTP				
Sample ID	Analysis Method	Collected		Results (mg/L)
		Date	Time	
2506733 (Effluent)	SM2540D TSS	10/19/2018	11:21	5
2506734 (Blank)	SM 2540D TSS	10/19/2018	10:56	<3
2506735 (Effluent Dupe)	SM2540D TSS	10/19/2018	11:19	26
2506739 (Influent)	SM 2540D TSS	10/19/2018	11:48	136
2506740 (Effluent #2)	SM2540D TSS	10/19/2018	11:23	941
2510978 (Effluent)	DPD Total Low Range TRC	10/19/2018	11:01	0.05
2510979 (Effluent)	DPD Total Low Range TRC	10/19/2018	11:09	0.03
2510980 (Blank)	DPD Total Low Range TRC	10/19/2018	11:37	0.02

Notes: mg/L = milligrams per liter
 SM = Standard Method
 DPD = N-diethyl-p-phenylene-diamine method
 < = result was less than the method detection limit (numerically listed)

Table II: <i>E. coli</i> Results, Sierra County Regional WWTP						
Sample ID	Analysis Method	Collected		Positive Wells		MPN
		Date	Time	Large	Small	
2506736 (Effluent)	Colilert- 182000 TC	10/19/2018	11:19	49	48	>2419.6
2506736 (Effluent)	Colilert- 182000 <i>E. coli</i>	10/19/2018	11:19	49	48	>2419.6
2506737 (Blank)	Colilert- 182000 TC	10/19/2018	10:56	0	0	<1
2506737 (Blank)	Colilert- 182000 <i>E. coli</i>	10/19/2018	10:56	0	0	<1
2506738 (Eff Dupe)	Colilert- 182000 TC	10/19/2018	11:19	49	48	>2419.6
2506738 (Eff Dupe)	Colilert- 182000 <i>E. coli</i>	10/19/2018	11:19	49	48	>2419.6
2506741 (Eff #2)	Colilert- 182000 TC	10/19/2018	11:22	49	48	>2419.6
2506741 (Eff #2)	Colilert- 182000 <i>E. coli</i>	10/19/2018	11:22	49	48	>2419.6
2521831 (Eff #2 Dupe)	Colilert- 182000 TC	10/19/2018	11:22	49	48	>2419.6
2521831 (Eff #2 Dupe)	Colilert- 182000 <i>E. coli</i>	10/19/2018	11:22	49	48	>2419.6

Notes: MPN = Most probable number

< = result was less than the method detection limit (numerically listed)

> = result was greater than the method detection limit (numerically listed)

Section III – AREAS OF CONCERN

At the conclusion of the inspection, the inspectors met with the representatives from the Facility for an exit interview at 12:27 pm on October 19, 2018. At that time, the EPA inspectors provided details of the laboratory inspection and reviewed areas of concern (AOC) noted in the inspection that will require additional follow-up or correction. These AOCs include:

1. Expired reagents and standards.
2. Maintenance of documentation.
3. High levels of TSS, TC and *E. coli*.
4. Particulates and turbidity in effluent.
5. Lack of a certified laboratory technician.

Section IV – FOLLOW UP

Additional information regarding bench sheets, personnel certification, and other laboratory documentation was received by EPA on November 8 and December 4, 2018, after exiting the Facility on October 19, 2018. These documents are available in the Appendix. Documents which are considered Confidential Business Information (CBI) are listed in a separate Appendix and are not included in this report.

Section V – LIST OF APPENDICES

Appendix 1 - Photograph Log - 5 photos taken 10/19/2018

Appendix 2 - Results of Inspection Sampling taken 10/19/2018 and Chain of Custody

Appendix 3 - Sierra County Regional WWTP Data

Section VI – LIST OF APPENDICES CBI, NOT INLCUDED

Appendix 4 - Sierra County Regional WWTP Certification and Training Documentation
for Primary Analysts Performing NPDES Testing

Appendix 1

Photograph Log



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 1

Location: Effluent: 33.15572, -107.23076		
City: Sierra County Regional WWTP	County/Parish: Sierra County	State: New Mexico

5961
CITY OF ELEPHANT BUTTE
P. O. Box 1080
Elephant Butte, New Mexico 87935
(575) 744-4892
FAX (575) 744-4493
"New Mexico's Diamond in the Desert"

Sample form and data sheet for E-coli using 22nd edition standards Method 9223-B. Enzyme Substrate Test page 9-93 thru 9-94

System Name City of Elephant Butte- Sierra County Regional WWTP North Area		FWSS/NPDES/DPLWP # NPDES# NM0030864 DP #1594	
Contact person, mailing address, and telephone number (to convey results) Jesse Cole-PO Box 1080 Elephant Butte, NM 87935. wastewater@cityofelephantbutte.com Jezzys@yahoo.com 575-740-8791			
Regulatory Agency, Contact Person, and Address (to receive report) EPA Region 6			
Collection Location* (Physical Address): 1001 Sunset Ridge Rd	Collection Site* (e.g. WWTP Outfall): UV trough- EFFLUENT	Collected By* Mickes C. Orga	Transported By
Collection Date* 10-5-18	Collection Time 8:00		
ENUMERATION RESULTS			
Time in incubator		Time out	
Positive Well Count	Yellow Lg 4	Yellow Sm 6	Fluor. Lg 0
		Fluor. Sm 0	MPN INDEX <1
Analyst M.D.	Confirmed by	Verification	
Notes 749 26 for 27	Sample Temperature 25.6 °C	Sample Turbidity NTU / TRC ppm	

All samples and tests done using 22nd edition standard methods for the examination of water and wastewater. All QA/QC is strictly adhered to and records are on file with the City of Elephant Butte's wastewater department.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 2

Location: Effluent: 33.15572, -107.23076		
City: Sierra County Regional WWTP	County/Parish: Sierra County	State: New Mexico





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 3

Location: Effluent: 33.15572, -107.23076		
City: Sierra County Regional WWTP	County/Parish: Sierra County	State: New Mexico





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 4

Location: Effluent: 33.15572, -107.23076		
City: Sierra County Regional WWTP	County/Parish: Sierra County	State: New Mexico





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 5

Location: Effluent: 33.15572, -107.23076		
City: Sierra County Regional WWTP	County/Parish: Sierra County	State: New Mexico



Appendix 2
Results of Inspection Sampling taken 10/19 /2018 and
Chain of Custody

TRC Record Sheet

Method: DPD Total Low Range

Method: DFD Total Low Range
Location: Sierra County WWTP

[illegible]

Chlorine, Free and Total, LR, continued

Interfering Substance	Interference Levels and Treatments
Monochloramine, LR method	Causes a gradual drift to higher readings. When read within 1 minute after reagent addition, 3 mg/L monochloramine causes less than a 0.1 mg/L increase in the reading.
Ozone	Interferes at all levels.

Method Performance

Estimated Detection Limit (EDL) = 0.02 mg/L

Typical precision (95% confidence interval) = 1.00 ± 0.05 mg/L

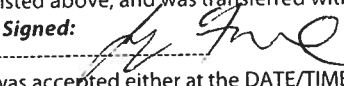
NEW MEXICO DEPARTMENT OF HEALTH		CHEMISTRY BUREAU		ANALYTICAL REQUEST FORM (INTERACTIVE)	
Request ID # Here REQUEST ID Label R#40 2506740		One Form Per Sample		One Form Per Sample	
		Scientific Laboratory Division 1101 Camino de Salud NE Albuquerque, NM 87102 Phone (505) 383-9000			
DATE 10-19-18 PH 2:54		Sample Temperature (°C): 6.8		Remarks:	
USE>>> ONLY		☐ Field preservation confirmed		☐ Preserved to pH < 2 at Lab	
				Date/Initial:	

SUBMITTER CODE/DESCRIPTION: 82 NMED - Surveillance Program			SAMPLE PRIORITY (call lab if 1/2): 3		
☐ USER CODE 30120 (ABCWUA)		☐ 55000 (NMED-DWB)		☐ 55410 (NMED-GWQB)	
☐ 64000 (Individual client fee-for-service)		☒ 55910 (NMED-SWQB)			
☐ OTHER USER CODE (Select one):					
SAMPLER NAME (Last): Foote		(First): Jennifer		SAMPLER ID #:	
				CONTACT PHONE #:	
WSS ID # (xxxxxxxxxx):		WSS NAME:			
FACILITY/LOCATION: Sierra Co Effluent #2		FACILITY ID:		SAMPLING PT. ID:	
☐ New / Change Address for Submitter -----> Name:					
☐ New / Change Address for WSS / Client -----> Address, with ZIP:					
☐ Attention To: ----->					

FIELD DATA AND REMARKS	☒ Non-chlorinated		☐ Chlorinated		Residual (mg/l):		pH:		Conductivity (µS/cm):		Temperature (°C)	
	Field remarks:											
SAMPLING DOCUMENTATION	☒ NMED monitoring		☒ Compliance		☐ Pb & Cu - Compliance		☐ Non-compliance		☐ Split with facility		☐ Grab sample	
	☐ Confirmation		☐ Composite		☐ Other, Describe:							
SAMPLE TYPE	☒ Water		☐ Finished water		☐ Filtered water		☐ Non-filtered water		☐ Raw Water		☐ Soil/Sediment	
	☐ Sludge		☐ Air sample		☐ Blood		☐ Tissue		☐ Urine		☐ Filter	
PRESERVATION OR ACID/BASE ADDED	☐ None		☐ Lab to acidify		☒ Shipped at < 4 C		☐ Hydrochloric acid		☐ Nitric acid		☐ Sulfuric acid	
	☐ Ascorbic acid		☐ Maleic acid		☐ Sodium thiosulfate		☐ Ammonium chloride		☐ Sodium hydroxide		☐ Other, Describe:	

A&M ANALYSES LIST	
WC ANALYSES LIST	TSS (SM 2540D Total Suspended Solids - TSS)
OR ANALYSES LIST	
RC ANALYSES LIST	
CTAR ANALYSES LIST	
ADDITIONAL ANALYSES	

DATE COLLECTED (MM-DD-YY): 10-19-18	TIME COLLECTED (HH:MM 24-hr): 11:23
-------------------------------------	-------------------------------------

Please use this CHAIN OF CUSTODY FORM to record transfer		On Shipping Container	Present & Intact	Not Present	Present & Damaged
The sample identified on this request form & sample container, was collected at the date & time shown in the form fields above; by the sampler listed above, and was transferred with a tamper-proof seal.....		☐	☐	☒	☐
By (print): Jennifer Foote	Signed: 				
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the non-lab person below), and with a tamper-proof seal		☐	☐	☒	☐
By (print): Bruce Casias	Signed:  Date: Time:				
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the person below), and with a tamper-proof seal.....		☐	☐	☐	☐
By (print):	Signed: Date: Time:				

NEW MEXICO DEPARTMENT OF HEALTH		CHEMISTRY BUREAU		ANALYTICAL REQUEST FORM (INTERACTIVE)	
Request ID # Here REQUEST ID Label R#40 2506739		Scientific Laboratory Division 1101 Camino de Salud NE Albuquerque, NM 87102 Phone (505) 383-9000		Lab Accession # Here CHEMISTRY WC 2018029957	
One Form Per Sample		One Form Per Sample			
DATE <<<TIME STAMP		Sample Temperature (°C): 7.8		Remarks:	
USE>>> ONLY		☐ Field preservation confirmed		☐ Preserved to pH < 2 at Lab	
				Date/Initial:	

2018 OCT 19 PM 2:54		SUBMITTER CODE/DESCRIPTION: 82 NMED - Surveillance Program		SAMPLE PRIORITY (call lab if 1/2):	
☐ USER CODE 30120 (ABCWUA)		☐ 55000 (NMED-DWB)		☐ 55410 (NMED-GWQB)	
☐ 64000 (Individual client fee-for-service)		☐ 55910 (NMED-SWQB)			
☐ OTHER USER CODE (Select one):					
SAMPLER NAME (Last): Foote		(First): Jennifer		SAMPLER ID #:	
				CONTACT PHONE #: 5058270596	
WSS ID # (xxxxxxxx):		WSS NAME:			
FACILITY/LOCATION: Sierra Co WWTP Influent		FACILITY ID:		SAMPLING PT. ID:	
☐ New / Change Address for Submitter ----->		Name:			
☐ New / Change Address for WSS / Client ----->		Address, with ZIP:			
☐ Attention To: ----->					

FIELD DATA AND REMARKS	☒ Non-chlorinated		☐ Chlorinated		Residual (mg/l):		pH:		Conductivity (µS/cm):		Temperature (°C)	
	Field remarks:											
SAMPLING DOCUMENTATION	☒ NMED monitoring		☒ Compliance		☐ Pb & Cu - Compliance		☐ Non-compliance		☐ Split with facility		☒ Grab sample	
	☐ Confirmation		☐ Composite		☐ Other, Describe:							
SAMPLE TYPE	☒ Water		☐ Finished water		☐ Filtered water		☐ Non-filtered water		☐ Raw Water		☐ Soil/Sediment	
	☐ Sludge		☐ Swipe/Smear		☐ Air sample		☐ Blood		☐ Tissue		☐ Urine	
PRESERVATION OR ACID/BASE ADDED	☒ None		☐ Lab to acidify		☒ Shipped at < 4 C		☐ Hydrochloric acid		☐ Nitric acid		☐ Sulfuric acid	
	☐ Ascorbic acid		☐ Maleic acid		☐ Sodium thiosulfate		☐ Ammonium chloride		☐ Sodium hydroxide		☐ Other, Describe:	

A&M ANALYSES LIST		▼
WC ANALYSES LIST	TSS (SM 2540D Total Suspended Solids - TSS)	▼
OR ANALYSES LIST		▼
RC ANALYSES LIST		▼
CTAR ANALYSES LIST		▼
ADDITIONAL ANALYSES		▼

DATE COLLECTED (MM-DD-YY): 10/19/18	TIME COLLECTED (HH:MM 24-hr): 11:48
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Please use this CHAIN OF CUSTODY FORM to record transfer				On Shipping Container	Present & Intact	Not Present	Present & Damaged
The sample identified on this request form & sample container, was collected at the date & time shown in the form fields above; by the sampler listed above, and was transferred with a tamper-proof seal.....				☐	☐	☒	☐
By (print): Jennifer Foote Signed: [Signature]							
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the non-lab person below), and with a tamper-proof seal				☐	☐	☒	☐
By (print): Bruce Casias Signed: [Signature] Date: Time:							
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the person below), and with a tamper-proof seal.....				☐	☐	☐	☐
By (print): Signed: Date: Time:							

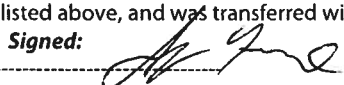
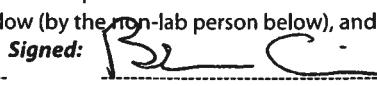
NEW MEXICO DEPARTMENT OF HEALTH		CHEMISTRY BUREAU		ANALYTICAL REQUEST FORM (INTERACTIVE)	
REQUEST ID Label R#40 2506735 		One Form Per Sample		Scientific Laboratory Division 1101 Camino de Salud NE Albuquerque, NM 87102 Phone (505) 383-9000	
		One Form Per Sample		Lab Accession # Here CHEMISTRY WC  2018029956	
LAB USE>>> ONLY		DATE <<<TIME 2018 OCT 19 PM 2: 53		Sample Temperature (°C): 6.3	
		TAMP		Remarks:	
		☐ Field preservation confirmed		☐ Preserved to pH < 2 at Lab	
				Date/Initial:	

SUBMITTER CODE/DESCRIPTION: 82 NMED - Surveillance Program				☐ SAMPLE PRIORITY (call lab if 1 / 2):	
☐ USER CODE 30120 (ABCWUA)		☐ 55000 (NMED-DWB)		☐ 55410 (NMED-GWQB)	
		☐ 64000 (Individual client fee-for-service)		☒ 55910 (NMED-SWQB)	
☐ OTHER USER CODE (Select one):					
SAMPLER NAME (Last): Foote		(First): Jennifer		SAMPLER ID #:	
				CONTACT PHONE #: 5058270596	
WSS ID # (xxxxxxxx):		WSS NAME:			
FACILITY/LOCATION: Sierra Co WWTP / EFF DURE		FACILITY ID:		SAMPLING PT. ID:	
☐ New / Change Address for Submitter -----> Name:					
☐ New / Change Address for WSS / Client -----> Address, with ZIP:					
☐ Attention To: ----->					

FIELD DATA AND REMARKS		☒ Non-chlorinated		☐ Chlorinated		Residual (mg/l):		pH:		Conductivity (µS/cm):		Temperature (°C)	
		Field remarks:											
SAMPLING DOCUMENTATION		☒ NMED monitoring		☒ Compliance		☐ Pb & Cu - Compliance		☐ Non-compliance		☐ Split with facility		☒ Grab sample	
		☐ Confirmation		☐ Composite		☐ Other, Describe:							
SAMPLE TYPE		☒ Water		☐ Finished water		☐ Filtered water		☐ Non-filtered water		☐ Raw Water		☐ Soil/Sediment	
		☐ Sludge		☐ Swipe/Smear		☐ Air sample		☐ Blood		☐ Tissue		☐ Urine	
PRESERVATION OR ACID/BASE ADDED		☒ None		☐ Lab to acidify		☒ Shipped at < 4 C		☐ Hydrochloric acid		☐ Nitric acid		☐ Sulfuric acid	
		☐ Ascorbic acid		☐ Maleic acid		☐ Sodium thiosulfate		☐ Ammonium chloride		☐ Sodium hydroxide		☐ Other, Describe:	

A&M ANALYSES LIST		
WC ANALYSES LIST	TSS (SM 2540D Total Suspended Solids - TSS)	
OR ANALYSES LIST		
RC ANALYSES LIST		
CTAR ANALYSES LIST		
ADDITIONAL ANALYSES		

DATE COLLECTED (MM-DD-YY):	10/19/18	TIME COLLECTED (HH:MM 24-hr):	11:19
----------------------------	-----------------	-------------------------------	--------------

Please use this CHAIN OF CUSTODY FORM to record transfer				On Shipping Container	Present & Intact	Not Present	Present & Damaged
The sample identified on this request form & sample container, was collected at the date & time shown in the form fields above; by the sampler listed above, and was transferred with a tamper-proof seal.....				☐	☐	☒	☐
By (print): Jennifer Foote Signed: 							
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the non-lab person below), and with a tamper-proof seal				☐	☐	☒	☐
By (print): Bruce Casias Signed:  Date: Time:							
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the person below), and with a tamper-proof seal.....				☐	☐	☐	☐
By (print): Signed: Date: Time:							

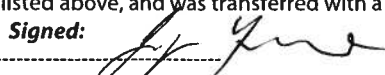
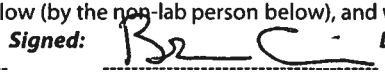
NEW MEXICO DEPARTMENT OF HEALTH		CHEMISTRY BUREAU		ANALYTICAL REQUEST FORM (INTERACTIVE)	
REQUEST ID Label R#40 2506734 		One Form Per Sample		Scientific Laboratory Division 1101 Camino de Salud NE Albuquerque, NM 87102 Phone (505) 383-9000	
		One Form Per Sample		Lab Accession # Here CHEMISTRY WC  2018029955	
LAB USE>>> 2018 OCT 19 PM 2:53 ONLY		DATE <<<TIME STAMP Sample Temperature (°C): 54		Remarks:	
		☐ Field preservation confirmed		☐ Preserved to pH < 2 at Lab	

SUBMITTER CODE/DESCRIPTION: 82 NMED - Surveillance Program				☐ SAMPLE PRIORITY (call lab if 1 / 2):	
☐ USER CODE 30120 (ABCWUA)		☐ 55000 (NMED-DWB)		☐ 55410 (NMED-GWQB)	
☐ 64000 (Individual client fee-for-service)		☒ 55910 (NMED-SWQB)			
☐ OTHER USER CODE (Select one):					
SAMPLER NAME (Last): Foot		(First): Jennifer		SAMPLER ID #:	
CONTACT PHONE #: 5058270596					
WSS ID # (xxxxxxxx):		WSS NAME:			
FACILITY/LOCATION: Sierra Co WWTP		Blank		FACILITY ID:	
SAMPLING PT. ID:					
☐ New / Change Address for Submitter -----> Name:					
☐ New / Change Address for WSS / Client -----> Address, with ZIP:					
☐ Attention To: ----->					

FIELD DATA AND REMARKS		☒ Non-chlorinated		☐ Chlorinated		Residual (mg/l):		pH:		Conductivity (µS/cm):		Temperature (°C):	
		Field remarks:											
SAMPLING DOCUMENTATION		☒ NMED monitoring		☒ Compliance		☐ Pb & Cu - Compliance		☐ Non-compliance		☐ Split with facility		☒ Grab sample	
		☐ Confirmation		☐ Composite		☐ Other, Describe:							
SAMPLE TYPE		☒ Water		☐ Finished water		☐ Filtered water		☐ Non-filtered water		☐ Raw Water		☐ Soil/Sediment	
		☐ Sludge		☐ Swipe/Smear		☐ Air sample		☐ Blood		☐ Tissue		☐ Urine	
PRESERVATION OR ACID/BASE ADDED		☒ None		☐ Lab to acidify		☒ Shipped at < 4 C		☐ Hydrochloric acid		☐ Nitric acid		☐ Sulfuric acid	
		☐ Ascorbic acid		☐ Maleic acid		☐ Sodium thiosulfate		☐ Ammonium chloride		☐ Sodium hydroxide		☐ Other, Describe:	

A&M ANALYSES LIST	
WC ANALYSES LIST	TSS (SM 2540D Total Suspended Solids - TSS)
OR ANALYSES LIST	
RC ANALYSES LIST	
CTAR ANALYSES LIST	
ADDITIONAL ANALYSES	

DATE COLLECTED (MM-DD-YY):	10/19/18	TIME COLLECTED (HH:MM 24-hr):	10:56
----------------------------	-----------------	-------------------------------	--------------

Please use this CHAIN OF CUSTODY FORM to record transfer				On Shipping Container	Present & Intact	Not Present	Present & Damaged
The sample identified on this request form & sample container, was collected at the date & time shown in the form fields above; by the sampler listed above, and was transferred with a tamper-proof seal.....				☐	☐	☒	☐
By (print): Jennifer Foote Signed: 							
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the non-lab person below), and with a tamper-proof seal				☐	☐	☒	☐
By (print): Bruce Casias Signed:  Date: Time:							
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the person below), and with a tamper-proof seal.....				☐	☐	☐	☐
By (print): Signed: Date: Time:							

NEW MEXICO DEPARTMENT OF HEALTH		CHEMISTRY BUREAU		ANALYTICAL REQUEST FORM (INTERACTIVE)	
Request ID # Here REQUEST ID Label R#40 2506733 		One Form Per Sample		One Form Per Sample	
		Scientific Laboratory Division 1101 Camino de Salud NE Albuquerque, NM 87102 Phone (505) 383-9000		CHEMISTRY WC  2018029954	
DATE <<<TIME ONLY 2018 OCT 19 PM 2:53		Sample Temperature (°C): 11.9		Remarks:	
USE>>> ONLY		☐ Field preservation confirmed		☐ Preserved to pH < 2 at Lab	
				Date/Initial:	

SUBMITTER CODE/DESCRIPTION: 82 NMED - Surveillance Program				SAMPLE PRIORITY (call lab if 1 / 2):	
☐ USER CODE 30120 (ABCWUA)		☐ 55000 (NMED-DWB)		☐ 55410 (NMED-GWQB)	
☐ 64000 (Individual client fee-for-service)		☒ 55910 (NMED-SWQB)			
☐ OTHER USER CODE (Select one):					
SAMPLER NAME (Last): Foote		(First): Jennifer		SAMPLER ID #:	
				CONTACT PHONE #: 5058270596	
WSS ID # (xxxxxxxx):		WSS NAME:			
FACILITY/LOCATION: Sierra Co WWTP / Effluent		FACILITY ID:		SAMPLING PT. ID:	
☐ New / Change Address for Submitter -----> Name:					
☐ New / Change Address for WSS / Client -----> Address, with ZIP:					
☐ Attention To: ----->					

FIELD DATA AND REMARKS		☒ Non-chlorinated		☐ Chlorinated		Residual (mg/l):		pH:		Conductivity (µS/cm):		Temperature (°C)	
		Field remarks:											
SAMPLING DOCUMENTATION		☒ NMED monitoring		☒ Compliance		☐ Pb & Cu - Compliance		☐ Non-compliance		☐ Split with facility		☒ Grab sample	
		☐ Confirmation		☐ Composite		☐ Other, Describe:							
SAMPLE TYPE		☒ Water		☐ Finished water		☐ Filtered water		☐ Non-filtered water		☐ Raw Water		☐ Soil/Sediment	
		☐ Sludge		☐ Swipe/Smear		☐ Air sample		☐ Blood		☐ Tissue		☐ Urine	
PRESERVATION OR ACID/BASE ADDED		☒ None		☐ Lab to acidify		☒ Shipped at < 4 C		☐ Hydrochloric acid		☐ Nitric acid		☐ Sulfuric acid	
		☐ Ascorbic acid		☐ Maleic acid		☐ Sodium thiosulfate		☐ Ammonium chloride		☐ Sodium hydroxide		☐ Other, Describe:	

A&M ANALYSES LIST	
WC ANALYSES LIST	TSS (SM 2540D Total Suspended Solids - TSS)
OR ANALYSES LIST	
RC ANALYSES LIST	
CTAR ANALYSES LIST	
ADDITIONAL ANALYSES	

DATE COLLECTED (MM-DD-YY): 10/19/18	TIME COLLECTED (HH:MM 24-hr): 11:21
--	--

Please use this CHAIN OF CUSTODY FORM to record transfer				On Shipping Container	Present & Intact	Not Present	Present & Damaged
The sample identified on this request form & sample container, was collected at the date & time shown in the form fields above; by the sampler listed above, and was transferred with a tamper-proof seal.....				☐	☐	☒	☐
By (print): Jennifer Foote Signed: <i>[Signature]</i>							
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the non-lab person below), and with a tamper-proof seal				☐	☐	☒	☐
By (print): Bruce Casias Signed: <i>[Signature]</i> Date: Time:							
The sample identified on this form & container was accepted either at the DATE/TIME STAMP shown in the top left of this form, or at the date & time shown below (by the person below), and with a tamper-proof seal.....				☐	☐	☐	☐
By (print): Signed: Date: Time:							

Bacteria Record Sheet

Method: MPN

SWQB Contact: Jennifer Foote

SWQB Survey: Sierra Co WWTP

Unit (SWQB Lab or Mobile Unit)	RID	Station	Collection Date/Time/sampler	18 or 24	Initiate Incubation Date/time/analyst	Count Date/time/analyst	Temp @Start/@Count	Analyte	Large	Small
Lab	REQUEST ID Label R#40 2506736	EFFLUENT	10/19/18 11:19 Foote	18	10-19-18 4:52 Foote	10-20-18 1230 Dentino	34.5 34.9	Total Coliforms	49	48
								E. coli	49	48
Lab	REQUEST ID Label R#40 2506737	BLANK	10-19-18 10:56 Foote	18	10-19-18 4:46 P Foote	10-20-18 1230 Dentino	34.5 34.9	Total Coliforms	0	0
								E. coli	0	0
Lab	REQUEST ID Label R#40 2506738	EFF DUPE	10/19/18 11:19 Foote	18	10-19-18 4:52 Foote	10-20-18 1230 Dentino	34.5 34.9	Total Coliforms	49	48
								E. coli	49	48
Lab	REQUEST ID Label R#40 2506741	EFF #2	10-19-18 11:22 Foote	18	10-19-18 4:52 Foote	10-20-18 1230 Dentino	34.5 34.9	Total Coliforms	49	48
								E. coli	49	48
Lab	REQUEST ID Label R#179 2521831	EFF #2 DUPE	10-19-18 11:22 Foote	18	10-19-18 4:52 Foote	10-20-18 1230 Dentino	34.5 34.9	Total Coliforms	49	48
								E. coli	49	48
								Total Coliforms		
								E. coli		
								Total Coliforms		
								E. coli		
								Total Coliforms		
								E. coli		
								Total Coliforms		
								E. coli		
								Total Coliforms		
								E. coli		

Instructions: 1) Copy data from Bacteria Record Sheet to the form below. 2) Calculate MPN. 3) Review Qualifier Codes
 4) Press Format Upload File Key. 5) Save File Upload worksheet as a .CSV in upload directory.

Calculat

Forma

Lab ID	RID	Method	Collection Date/Time	Incubation Start Date/Time	Date of Analysis	Analyte Name	Start Ter	End Ter	Quanti-Tray/2000 Positive Large Wells	Quanti-Tray/2000 Positive Small Wells	MPN	Lower95 /Tray	Upper95 /Tray	Qualifier	Comments	Analyst
SWQB Lab Unit	2506736	Colilert-182000	10/19/18 11:19	10/19/18 16:52	10/20/18 12:30	Total Coliform	34.5	34.9	49	48	>2419.6	>1630.4	>4716.10	E		
SWQB Lab Unit	2506736	Colilert-182000	10/19/18 11:19	10/19/18 16:52	10/20/18 12:30	Escherichia coli	34.5	34.9	49	48	>2419.6	>1630.4	>4716.10	E		
SWQB Lab Unit	2506737	Colilert-182000	10/19/18 10:56	10/19/18 16:46	10/20/18 12:30	Total Coliform	34.5	34.9	0	0	<1	<1	<1	U		
SWQB Lab Unit	2506737	Colilert-182000	10/19/18 10:56	10/19/18 16:46	10/20/18 12:30	Escherichia coli	34.5	34.9	0	0	<1	<1	<1	U		
SWQB Lab Unit	2506738	Colilert-182000	10/19/18 11:19	10/19/18 16:52	10/20/18 12:30	Total Coliform	34.5	34.9	49	48	>2419.6	>1630.4	>4716.10	E		
SWQB Lab Unit	2506738	Colilert-182000	10/19/18 11:19	10/19/18 16:52	10/20/18 12:30	Escherichia coli	34.5	34.9	49	48	>2419.6	>1630.4	>4716.10	E		
SWQB Lab Unit	2506741	Colilert-182000	10/19/18 11:22	10/19/18 16:52	10/20/18 12:30	Total Coliform	34.5	34.9	49	48	>2419.6	>1630.4	>4716.10	E		
SWQB Lab Unit	2506741	Colilert-182000	10/19/18 11:22	10/19/18 16:52	10/20/18 12:30	Escherichia coli	34.5	34.9	49	48	>2419.6	>1630.4	>4716.10	E		
SWQB Lab Unit	2521831	Colilert-182000	10/19/18 11:22	10/19/18 16:52	10/20/18 12:30	Total Coliform	34.5	34.9	49	48	>2419.6	>1630.4	>4716.10	E		
SWQB Lab Unit	2521831	Colilert-182000	10/19/18 11:22	10/19/18 16:52	10/20/18 12:30	Escherichia coli	34.5	34.9	49	48	>2419.6	>1630.4	>4716.10	E		

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2017

RECEIVED

NOV 05 2018

SURFACE WATER
QUALITY BUREAU



LIMS Report #: 457216

Request Id:

2506733

Submitter: NMED - Surveillance Program
Surface Water Quality Bureau
P.O. Box 5489
Santa Fe, NM 87502

Submitter Code:

82

Collector:

JENNIFER FOOTE

User Code:

55910

CC Recipient(s):

Sample Location:

SIERRA CO WWTP/ EFFLUENT

COC Initiated:

Yes

Condition of Seal:

Not Present

Sample #: 2018029954

Date Collected: 10/19/2018

Sample Type: Water

Date Received: 10/19/2018

Date Reported: 10/24/2018

Sample Note:

Lab: WC

SM 2540D Total Suspended Solids - TSS

FRDS#	Analysis Date: 10/19/2018 14:52	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
1930	Total Suspended Solids	5	mg/L	3.0	1	3	LM	

Final

Sample #: 2018029954

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory.

Q - Sample submitted to laboratory past holding time.

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Final

Sample #: 2018029954

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-8000

EPA: 141001-2017



LIMS Report #: 457217

Request Id: 2506734

Submitter: NMED - Surveillance Program
Surface Water Quality Bureau
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 82
Collector: JENNIFER FOOTE
User Code: 55910

CC Recipient(s):

Sample Location: SIERRA CO WWTP/ BLANK
COC Initiated: Yes
Condition of Seal: Not Present

Sample #: 2018029955
Sample Type: Water
Date Collected: 10/19/2018
Date Received: 10/19/2018
Date Reported: 10/24/2018
Sample Note:

Lab: WC

SM 2540D Total Suspended Solids - TSS

FRDS#	Analysis Date: 10/19/2018 14:52	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
1930	Total Suspended Solids	<3	mg/L	3.0	1	3	LM	

Final

Sample #: 2018029955

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory.

Q - Sample submitted to laboratory past holding time.

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Final

Sample #: 2018029955

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2017



LIMS Report #: 457218

Request Id: 2506735

Submitter: NMED - Surveillance Program
Surface Water Quality Bureau
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 82
Collector: JENNIFER FOOTE
User Code: 55910

CC Recipient(s):

Sample Location: SIERRA CO WWTP/ EFF DUPE
COC Initiated: Yes
Condition of Seal: Not Present

Sample #:	2018029956	Date Collected:	10/19/2018
Sample Type:	Water	Date Received:	10/19/2018
Sample Note:		Date Reported:	10/24/2018

Lab: WC

SM 2540D Total Suspended Solids - TSS

FRDS#	Analysis Date: 10/19/2018 14:52	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
1930	Total Suspended Solids	26	mg/L	3.0	1	3	LM	

Final

Sample #: 2018029956

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (Inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory.

Q - Sample submitted to laboratory past holding time.

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Final

Sample #: 2018029956

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2017



LIMS Report #: 457219

Request Id: 2506739

Submitter: NMED - Surveillance Program
Surface Water Quality Bureau
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 82
Collector: JENNIFER FOOTE
User Code: 55910

CC Recipient(s):

Sample Location: SIERRA CO WWTP/ INFLUENT
COC Initiated: Yes
Condition of Seal: Not Present

Sample #: 2018029957
Sample Type: Water
Date Collected: 10/19/2018
Date Received: 10/19/2018
Date Reported: 10/24/2018
Sample Note:

Lab: WC

SM 2540D Total Suspended Solids - TSS

FRDS#	Analysis Date: 10/19/2018 14:52	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
1930	Total Suspended Solids	136	mg/L	3.0	1	3	LM	

Final

Sample #: 2018029957

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory.

Q - Sample submitted to laboratory past holding time.

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Final

Sample #: 2018029957

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2017



LIMS Report #: 457220

Request Id: 2506740

Submitter: NMED - Surveillance Program
Surface Water Quality Bureau
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 82
Collector: JENNIFER FOOTE
User Code: 55910

CC Recipient(s):

Sample Location: SIERRA CO EFFLUENT #2
COC Initiated: Yes
Condition of Seal: Not Present

Sample #: 2018029958

Date Collected: 10/19/2018

Sample Type: Water

Date Received: 10/19/2018

Date Reported: 10/24/2018

Sample Note:

Lab: WC

SM 2540D Total Suspended Solids - TSS

FRDS#	Analysis Date: 10/19/2018 14:52	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
1930	Total Suspended Solids	941	mg/L	3.0	1	3	LM	

Final

Sample #: 2018029958

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (Inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory.

Q - Sample submitted to laboratory past holding time.

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Final

Sample #: 2018029958

Appendix 3
Sierra County Regional WWTP Data

DAILY pH LOGMONTH/YEAR: July 2018Sample Location: UV TroughSample Type: Grab

Date	Sample Time	Initials of Sampler	Time of Analysis	Initials of Analyst	Sample Temp. (°C)	pH Reading	Comments
1	Sun						
2	8:30	MO	8:32	MO	26.7	7.30	
3	7:54	MO	7:56	MO	26.7	7.39	
4	off	out	4				
5	7:20	MO	7:24	MO	28.1	7.44	
6	7:02	MO	7:06	MO	27.3	7.38	
7	Sat						
8	Sun						
9	8:30	BB	8:33	BB	26.9	7.39	
10	7:29	MO	7:32	MO	25.8	7.44	
11	7:19	MO	7:21	MO	26.3	7.41	
12	7:38	MO	7:40	MO	27.0	7.42	
13	6:59	MO	7:03	MO	27.7	7.42	
14							
15							
16	7:40	MO	7:45	MO	26.9	7.41	
17	6:36	MO	6:40	MO	27.8	7.46	
18	8:10	MO	8:14	MO	29.1	7.33	
19	7:03	MO	7:06	MO	28.0	7.40	
20	8:22	TC	8:26	TC	28.4	7.38	
21							
22							
23	6:45	MO	6:49	MO	27.9	7.44	
24	7:15	MO	7:17	MO	28.3	7.33	
25	7:11	MO	7:13	MO	22.5	7.35	
26	7:00	MO	7:06	MO	28.0	7.41	
27	6:44	MO	6:48	MO	28.7	7.46	
28							
29							
30	6:41	MO	6:46	MO	27.7	7.38	
31	7:11	MO	7:13	MO	28.0	7.43	

Elephant Butte Regional WWTP

MONTH: Jul YEAR: 2018

DATE	TIME	INIT	INFLUENT METER	OUTFALL METER	SBR-1			DIGESTER DEPTH	SBR-2			ALARM STATUS	EFFLUENT FLOW	INFLUENT FLOW
					PHASE	DEPTH	D.O		PHASE	DEPTH	D.O			
1														
2	8:00	MO	61016524	185.6673	Idle	14.8	0.2	16.5	offline	10.9	0.2		10151	82172
3	7:34	MO	61086516	185.72343	Recirc Full	15.0	0.5	17.0	offline	11.0	0.2		07054	69.996
4	6:50	MO	61148644	185.78655	Settle	15.6	0.2	14.0	offline	11.0	0.2		08909	62.128
5	7:23	MO	61221264	185.86160	Recirc Full	14.9	3.5	13.9	offline	11.0	0.2		04533	72.620
6	6:40	MO	61288624	185.92725	Settle	14.4	1.3	13.9	offline	11.0	0.2		06178	67.360
7	8:00	BB	61371100	185.99412	Recirc	14.5	0.6	13.7	offline	10.9	0.2		07858	82.476
8	9:06	BB	61455612	186.88222	Recirc Full	16.4	0.2	13.7	offline	11.0	0.2		07745	162.988
9	7:30	BB	61540124	186.15689	Recirc	15.2	2.7	13.8	offline	11.0	0.2		08620	66.036
10	7:00	MO	61549998	186.19373	Settle	17.2	0.2	13.8	offline	11.0	0.2		06698	59.824
11	8:29	MO	61665028	186.25554	Settle	17.1	0.2	13.7	offline	13.2	0.2		06173	65.080
12	7:02	MO	61723704	186.31831	Mix Full	16.5	0.2	5.6	offline	10.9	0.2		06246	58.676
13														
14	8:27	TC	61868724	186.40027	Recirc Full	14.2	0.6	11.6	Settle	10.9	0.2		03396	
15	8:30	TC	61937476	186.40079	Recirc Full	16.8	1.8	11.0	Settle	14.8	0.2		00001	78.752

COMMENTS:

DAILY pH LOGMONTH/YEAR: Aug 2018Sample Location: UV TroughSample Type: Grab

Date	Sample Time	Initials of Sampler	Time of Analysis	Initials of Analyst	Sample Temp. (°C)	pH Reading	Comments
1	7:44	MO	7:46	MO	28.1	7.40	
2	7:14	MO	7:16	MO	27.9	7.42	
3	7:24	MO	7:27	MO	28.5	7.36	
4	Sgt						
5	Sun						
6	7:15	BB	7:18	BB	28.0	7.32	
7	7:34	MO	7:36	MO	28.3	7.41	
8	7:13	F.T. MO	7:16	MO	27.9	7.40	
9	7:48	MO	7:52	MO	27.8	7.42	
10	7:44	MO	7:50	MO	27.8	7.37	
11	Sgt						
12	Sun						
13	7:40	MO	7:42	MO	28.1	7.42	
14	7:14	MO	7:16	MO	27.7	7.46	
15	7:40	MO	7:44	MO	28.3	7.54	
16	6:48	MO	6:51	MO	27.9	7.41	
17	7:33	MO	7:34	MO	28.2	7.33	
18	Sgt						
19	Sun						
20	out						
21	7:22	MO	7:26	MO	26.7	7.49	
22							
23	8:36	MO	8:38	MO	27.4	7.41	
24	8:13	MO	8:16	MO	28.2	7.44	
25	Sgt						
26	Sun						
27	7:10	MO	7:13	MO	27.7	7.40	
28	7:45	MO	7:48	MO	27.5	7.36	
29	7:20	MO	7:24	MO	27.3	7.46	
30	7:34	MO	7:38	MO	26.5	7.47	
31	7:31	MO	7:38	MO	25.8	7.36	

Elephant Butte Regional WWT

Aug 2018

MONTH: August YEAR: 2018

DATE	TIME	INIT	INFLUENT METER	OUTFALL METER	SBR-1			SBR-2			EFFLUENT FLOW	INFLUENT FLOW
					PHASE	DEPTH	D.O.	DIGESTER DEPTH	PHASE	DEPTH	D.O.	START/STOP
1	7:27	Me	63121172	187.44973	Mix Fill	15.5	0.3	13.7	React	16.2	0.5	1.7 1.7
2	6:49	Me	63185332	187.57895	React Fill	15.4	1.5	14.7	Idle	15.2	1.3	1.7 1.7
3	7:03	Me	63253992	187.63228	React	15.3	1.0	15.8	Mix Fill	15.0	2.1	1.7 1.7
4	8:32	Me	63331136	187.69637	React Fill	15.0	3.1	17.0	Settle	15.7	2.3	1.7 1.7
5	10:15	Te	63417760	187.76396	React Fill	15.1	3.0	17.0	Settle	16.7	0.8	1.7
6	7:00	BS	63480242	187.83572	Idle	14.7	1.7	17.0	React	16.0	2.2	1.7 1.7
7	7:09	Me	63546100	187.89561	Settle	14.9	1.8	17.0	React Fill	15.6	1.4	1.7 1.7
8	7:16	Me	63608420	187.95675	Idle	14.9	2.7	16.9	React Fill	15.2	3.1	1.7 1.7
9	6:56	Me	63668740	188.01648	React Fill	15.2	1.0	14.9	Idle	15.7	0.2	1.7 1.7
10	7:11	Me	63738104	188.08003	Settle	15.0	2.6	15.6	React Fill	15.7	2.6	1.7 1.7
11	8:55	BS	63811196	188.14692	React	14.3	2.7	16.4	Settle	16.3	0.3	1.2 1.2
12	5:30	BS	63887400	188.21556	React	14.1	2.2	17.2	Idle	16.5	0.7	1.2 1.2
13	7:01	Me	63961508	188.28279	React	14.3	2.2	18.0	Mix Fill	16.5	0.2	1.2 1.2
14	7:16	Me	64026956	188.34720	Idle	15.0	0.2	14.6	React Fill	16.7	1.7	1.2 1.2
15	7:51	Me	64092400	188.40446	React	16.5	2.7	14.6	Mix Fill	15.4	0.2	1.2 1.2

COMMENTS:

TC 8-4-18 12:30 PM

DAILY pH LOGMONTH/YEAR: Sept 2018Sample Location: UV TroughSample Type: Grab

Date	Sample Time	Initials of Sampler	Time of Analysis	Initials of Analyst	Sample Temp. (°C)	pH Reading	Comments
1	Sat						
2	Sun						
3	6:52	MO	6:54	MO	24.3	7.48	
4	7:50	MO	7:55	MO	27.7	7.43	
5	7:40	MO	7:42	MO	25.1	7.36	
6	7:20	MO	7:22	MO	24.9	7.44	
7	7:30	MO	7:34	MO	25.1	7.38	
8	Sat						
9	Sun						
10	7:42	MO	7:46	MO	24.6	7.34	
11	7:14	MO	7:42	MO	25.4	7.42	
12	7:45	MO	7:50	MO	24.6	7.39	
13	7:40	MO	7:44	MO	24.3	7.46	
14	7:48	MO	7:49	MO	24.4	7.38	
15	Sat						
16	Sun						
17	7:44	MO	7:49	MO	24.9	7.46	
18	8:00	MO	8:03	MO	25.2	7.38	
19	8:05	BB	8:10	BB	26.1	6.81	
20	7:20	MO	7:24	MO	24.4	7.40	
21	7:56	MO	7:59	MO	24.5	7.40	
22	Sat						
23	Sun						
24	8:40	MO	8:45	MO	25.5	7.42	
25	8:10	MO	8:12	MO	25.7	7.38	
26	8:14	MO	8:16	MO	25.6	7.42	
27	7:50	MO	7:54	MO	25.4	7.44	
28							
29							
30							
31							

Elephant Butte Regional WWTP

MONTH: September YEAR: 2018

DATE	TIME	INIT	INFLUENT METER	OUTFALL METER	SBR-1			DIGESTER DEPTH	SBR-2			ALARM STATUS	EFFLUENT FLOW	INFLUENT FLOW
					PHASE	DEPTH	D.O		PHASE	DEPTH	D.O			
1	10:41	TC	189.44853	05623	Settle	17.0	0.2	15.2	React Fill	15.7	2.2	1.2/1.2	65217656	
2	11:38	TC	189.54130	08267	Settle	15.6	1.0	15.2	React Fill	15.1	0.6	1.2/1.2	65301440	86.784
3	11:05	TC	189.60687	08012	React Fill	16.5	0.2	15.2	Settle	16.7	2.2	1.2/1.2	65383276	78.836
4	7:16	MO	189.69115	06105	Idle	15.0	1.2	15.1	React Fill	15.2	2.0	1.2/1.2	65444309	61.028
5	7:05	MO	189.72286	06320	React	16.0	2.4	15.9	Mix Fill	16.0	1.0	1.2/1.2	65498344	54.040
6	6:50	MO	189.72966	05316	React Fill	15.7	0.9	16.7	Idle	15.7	1.1	1.2/1.2	65551720	53.376
7	8:09	MO	189.82520	03687	Idle	16.6	0.3	17.5	React Fill	15.6	1.4	1.2/1.2	65610957	59.237
8														
9	10:00	BS	189.95678	05145	Settle	16.4	0.5	15.3	React Fill	16.0	2.4	1.2/1.2	657044620	
10	7:26	MO	190.02111	06204	Mix Fill	15.1	0.4	15.3	React	17.0	1.5	1.2/1.2	65807876	63.256
11	7:30	MO	190.10426	05931	Idle	16.1	0.8	15.4	React Fill	15.8	1.2	1.4/1.4	65908411	79.356
12	7:22	MO	190.12523	04137	Mix Fill	16.0	0.8	15.5	React	15.6	2.4	1.4/1.4	65926684	58.481
13		MO	190.18126	06076	Settle	17.2	1.5	15.5	React Fill	15.3	2.8	1.4/1.4	65980544	53.860
14		MO	190.23407	04241	Settle	15.1	1.9	15.5	React Fill	15.9	0.2	1.4/1.4	66038580	58036
15	10:17	TC	190.30743	05824	React Fill	15.2	2.7	15.4	Settle	15.2	2.1	1.4/1.4	66110156	71.576

COMMENTS:

DAILY pH LOGMONTH/YEAR: OCT 2018Sample Location: UV TroughSample Type: Grab

Date	Sample Time	Initials of Sampler	Time of Analysis	Initials of Analyst	Sample Temp. (°C)	pH Reading	Comments
1	8:38	MO	8:40	MO	25.1	7.39	
2	9:16	MO	9:20	MO	24.9	7.36	
3	8:30	MO	8:34	MO	25.6	7.42	
4	8:20	MO	8:24	MO	24.9	7.32	
5	8:44	MO	8:50	MO	24.1	7.36	
6							
7							
8	7:40	MO	7:42	MO	24.4	7.38	
9	9:34	MO	9:38	MO	24.1	7.37	
10	7:31	MO	7:33	MO	23.9	7.40	
11	7:50	MO	7:53	MO	23.8	7.36	
12	7:31	MO	7:33	MO	24.1	7.39	
13							
14							
15	7:22	MO	7:26	MO	21.8	7.41	
16	7:38	MO	7:41	MO	21.4	7.36	Marcus Ortega out until 30th
17							
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Elephant Butte Regional WWTP

MONTH: Oct YEAR: 2018

					SBR-1			SBR-2				M/S Left		
DATE	TIME	INIT	INFLUENT METER	OUTFALL METER	PHASE	DEPTH	D.O	DIGESTER DEPTH	PHASE	DEPTH	D.O	ALARM STATUS	EFFLUENT FLOW	INFLUENT FLOW
16	7:28	MC	192.17372	05717	React Fill	15.9	3.1	12.9	Settle	15.1	1.3	0060	68083926	
17	7:30	BB	192.21610	05966	React F.11	16.6	2.5	12.9	Idle	16.0	0.3	010	68142616	42380
18	7:30	BB	192.26290	04385	React	16.4	0.8	12.9	Mix F.11	15.7	0.3	010	68201030	04680
19	7:15	BB	192.32492	06511	Mix F.11	16.6	1.2	12.9	React	15.7	2.3	010	68260812	6702
20	9:00	BB	192.38995	04990	Settle	15.1	0.8	12.9	React F.11	16.9	2.7	010	68327656	107394
21	9:30	BB	192.45879	07075	Settle	15.9	1.3	12.6	React F.11	15.5	2.7	010	68396536	108880
22	10:00	BB	192.50592	06634	Idle	14.0	1.1	12.8	React F.11	16.6	2.4	010	68457592	101050
23	8:30	BB	192.56771	04470	React F.11	16.4	2.1	12.9	Settle	15.4	0.3	010	68516504	58.912
24	9:30	BB	192.62206	06507	React	16.1	2.8	12.9	Mix F.11	16.6	0.4	010	68579272	62.768
25	7:40	BB	192.70355	04441	React F.11	15.5	0.7	12.4	Settle	15.2	1.4	010	68642762	63.480
26	7:15	BB	192.74969	03554	Settle	16.0	1.8	12.9	React F.11	16.5	0.7	010	68706283	63.536
27	8:15	TC	192.81399	04741	Settle	16.2	1.6	12.8	React F.11	15.1	3.0	010	68764168	52.880
28	8:30	TC	192.87195	06451	Settle	16.7	1.6	12.8	React F.11	15.2	0.9	010	68839112	74.944
29	8:00	BB	192.94810	07289	Settle	16.7	0.8	12.8	React F.11	15.0	2.8	010	68933664	94.552
30	7:52	BB	192.99319	05913	Settle	15.7	1.6	12.8	React F.11	16.8	2.1	010	68964999	31.335
31	7:20	MC	193.06139	04252	Mix F.11	15.7	1.0	12.7	React	15.0	2.6	0060	69020150	55.121

COMMENTS:



CITY OF ELEPHANT BUTTE

P. O. Box 1080

Elephant Butte, New Mexico 87935

(575) 744-4892

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"New Mexico's Diamond in the Desert"

pH Calibration Forms and pH results Using 22nd Edition Standard Methods For The Examination
of Water and Wastewater : 4500 -H+,
Pages 4-91 through 4-96

Name of Facility:

City of Elephant Butte

Make and Model of pH meter

Hach Sension 1

Date of

Calibration 11-12-18

Exact Time of

Calibration 9:00

Date of Purchase of Buffers 5-7-18 Date of Opening Buffers 5-7-18

Expiration date of buffers 1-20 (manufacturers date on bottle)

First pH buffer used for calibration 7 Meter Reading 7.02 temp. 18.0 *C

Second pH buffer used for calibration 4 Meter Reading 4.00 temp. 17.8 *C

Third pH buffer used for calibration 10 Meter Reading 10.9 temp. 17.9 *C

Slope reading in mV 57.5 / 0.2 Calibrating official MO

Exact Date of grab sample 11-12-18 Exact Time of grab sample 9:08

Exact location of sample uv

Sample temperature in degrees Celsius 16.0 *C

Exact time of pH analysis 9:11

pH Value from meter 7.37

Person collecting sample MO Person Analyzing MO

Comments _____



5961
CITY OF ELEPHANT BUTTE
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"New Mexico's Diamond in the Desert"

Sample form and data sheet for E-coli using 22nd edition standards Method 9223-B. Enzyme
Substrate Test page 9-93 thru 9-94

System Name City of Elephant Butte- Sierra County Regional WWTP North Area		PWSS/NPDES/DP/LWP # NPDES# NM0030864 DP #1594			
Contact person, mailing address, and telephone number (to convey results) Jesse Cole- PO Box 1080 Elephant Butte, NM 87935- wastewater@cityofelephantbutte.com Jezzys@yahoo.com 575-740-8791					
Regulatory Agency, Contact Person, and Address (to receive report) EPA Region 6					
Collection Location* (Physical Address): 1001 Sunset Ridge Rd	Collection Site* (e.g. WWTP Outfall) UV trough- EFFLUENT	Collected Bv* <i>Me</i>			
Collection Date* 11-12-18	Collection Time*	Transported By			
ENUMERATION RESULTS					
	Time in incubator-	Time out-			
Positive Well Count	Yellow Lg 11	Yellow Sm 0	Fluor. Lg 0	Fluor. Sm 0	MPN INDEX <1
Analyst Me	Confirmed by		Verification		
Notes:	Sample Temperature: 35.0 °C	Sample Turbidity:	NTU / TRC:	ppm	

All samples and tests done using 22nd edition standard methods for the examination of water and wastewater. All QA/QC is strictly adhered to and records are on file with the City of Elephant Butte's wastewater department.